



State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

# Request for Quotation

RFQ NUMBER  
**GSD096412**

PAGE  
**1**

ADDRESS CORRESPONDENCE TO ATTENTION OF  
**KRISTA FERRELL  
 304-558-2596**

DEPARTMENT OF ADMINISTRATION  
 GENERAL SERVICES DIVISION  
 BUILDING EIGHT - MANSION  
 1900 KANAWHA BOULEVARD, EAST  
 CHARLESTON, WV  
 25305 304-558-2317

RFQ COPY  
 TYPE NAME/ADDRESS HERE

*Surdyn Security  
 821 9th St  
 Huntington, WV 25701*

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
12/23/2008				

BID OPENING DATE: **01/22/2009** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UICP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		936-73		\$83,092.61
<p>UPGRADE TO SECURITY SYSTEM, BLDG#8</p> <p>REQUEST FOR QUOTATION (RFQ)</p> <p>THE WEST VIRGINIA PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF GENERAL SERVICES, IS SOLICITING BIDS TO PROVIDE THE AGENCY WITH ALL LABOR AND MATERIALS FOR AN UPGRADE TO THE EXISTING SECURITY SYSTEM LOCATED IN BUILDING #8 (GOVERNOR'S MANSION) ON THE WEST VIRGINIA CAPITOL COMPLEX IN CHARLESTON, WEST VIRGINIA PER THE ATTACHED SPECIFICATIONS.</p> <p>A MANDATORY PRE-BID MEETING WILL BE HELD ON THURSDAY, JANUARY 8, 2009 AT 1:00 PM IN THE FOOD COURT LOCATED IN THE BASEMENT OF BUILDING 1 (MAIN CAPITOL BUILDING). ALL PRIME/GENERAL CONTRACTORS WISHING TO SUBMIT A BID FOR THIS PROJECT MUST ATTEND THIS MEETING. SUBCONTRACTORS AND MATERIAL SUPPLIERS ARE WELCOME TO ATTEND; HOWEVER, ATTENDANCE IS NOT MANDATORY. ANY PRIME/GENERAL CONTRACTOR FAILING TO ATTEND THIS MEETING WILL BE DISQUALIFIED FROM BIDDING ON THIS PROJECT. NO ONE PERSON MAY REPRESENT MORE THAN ONE VENDOR.</p> <p>TECHNICAL QUESTIONS FOR THIS PROJECT MUST BE SUBMITTED IN WRITING TO KRISTA FERRELL IN THE WEST VIRGINIA PURCHASING DIVISION BY FAX AT 304-558-4115 OR VIA EMAIL AT KRISTA.S.FERRELL@WV.GOV. DEADLINE FOR ALL</p>						

RECEIVED  
 2009 FEB 12 PM 1:06  
 WV PURCHASING DIVISION

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE *[Signature]* TELEPHONE **(304) 523-8260** DATE **February 12, 2009**

TITLE **President/CEO** FEIN **55-0721450** ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

**GENERAL TERMS & CONDITIONS  
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
5. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
14. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
15. **WEST VIRGINIA ALCOHOL & DRUG-FREE WORKPLACE ACT:** If this Contract constitutes a public improvement construction contract as set forth in Article 1D, Chapter 21 of the West Virginia Code ("The West Virginia Alcohol and Drug-Free Workplace Act"), then the following language shall hereby become part of this Contract: "The contractor and its subcontractors shall implement and maintain a written drug-free workplace policy in compliance with the West Virginia Alcohol and Drug-Free Workplace Act, as set forth in Article 1D, Chapter 21 of the West Virginia Code. The contractor and its subcontractors shall provide a sworn statement in writing, under the penalties of perjury, that they maintain a valid drug-free work place policy in compliance with the West Virginia and Drug-Free Workplace Act. It is understood and agreed that this Contract shall be cancelled by the awarding authority if the Contractor: 1) Fails to implement its drug-free workplace policy; 2) Fails to provide information regarding implementation of the contractor's drug-free workplace policy at the request of the public authority; or 3) Provides to the public authority false information regarding the contractor's drug-free workplace policy."

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**INSTRUCTIONS TO BIDDERS**

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in case of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130



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PAGE  
**2**

ADDRESS CORRESPONDENCE TO ATTENTION OF  
**KRISTA FERRELL  
 304-558-2596**

PROPERTY

RFQ COPY  
 TYPE NAME/ADDRESS HERE

*Surdyne Security  
 821 9th St  
 Huntington, WV 25701*

SHIP TO

DEPARTMENT OF ADMINISTRATION  
 GENERAL SERVICES DIVISION  
 BUILDING EIGHT - MANSION  
 1900 KANAWHA BOULEVARD, EAST  
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12/23/2008				

BID OPENING DATE: **01/22/2009** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>TECHNICAL QUESTIONS IS MONDAY, JANUARY 12, 2009 AT THE CLOSE OF BUSINESS. ALL TECHNICAL QUESTIONS RECEIVED, IF ANY, WILL BE ANSWERED BY ADDENDUM AFTER THE DEADLINE.</p> <p>QUESTIONS CONCERNING THE ACTUAL PROCESS BY WHICH A VENDOR MAY SUBMIT A BID TO THE STATE OF WEST VIRGINIA ARE NOT CONSIDERED TO BE TECHNICAL QUESTIONS AND MAY BE SUBMITTED AT ANY TIME PRIOR TO THE BID OPENING AND IN ANY FORMAT.</p> <p>THE MODEL/BRAND/SPECIFICATIONS NAMED HEREIN ESTABLISH THE ACCEPTABLE LEVEL OF QUALITY ONLY AND ARE NOT INTENDED TO REFLECT A PREFERENCE OR FAVOR ANY PARTICULAR BRAND OR VENDOR. VENDORS WHO ARE BIDDING ALTERNATES SHOULD SO STATE AND INCLUDE PERTINENT LITERATURE AND SPECIFICATIONS. FAILURE TO PROVIDE INFORMATION FOR ANY ALTERNATES MAY BE GROUNDS FOR REJECTION OF THE BID. THE STATE RESERVES THE RIGHT TO WAIVE MINOR IRREGULARITIES IN BIDS OR SPECIFICATIONS IN ACCORDANCE WITH SECTION 148-1-4(F) OF THE WEST VIRGINIA LEGISLATIVE RULES AND REGULATIONS.</p> <p>EXHIBIT 5</p> <p>WEST VIRGINIA CODE 21-1D-5 PROVIDES THAT: ANY SOLICITATION FOR A PUBLIC IMPROVEMENT CONSTRUCTION CONTRACT REQUIRES EACH VENDOR THAT SUBMITS A BID FOR THE WORK TO SUBMIT AT THE SAME TIME AN AFFIDAVIT OF COMPLIANCE WITH THE BID. THE ENCLOSED PURCHASING AFFIDAVIT MUST BE SIGNED AND SUBMITTED WITH THE BID AS EVIDENCE OF THE VENDOR'S COMPLIANCE WITH THE PROVISIONS OF ARTICLE 1D, CHAPTER 21 OF THE WEST VIRGINIA CODE. FAILURE TO SUBMIT THE SIGNED PURCHASING AFFIDAVIT WITH THE BID SHALL RESULT IN DISQUALIFICATION OF SUCH BID.</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE *John R. Hayes* TELEPHONE **(304) 523-8260** DATE **February 12, 2009**  
 TITLE **President/CEO** FEIN **55-0721450** ADDRESS CHANGES TO BE NOTED ABOVE

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*Surdyn Security  
 821 9th St  
 Huntington, WV 25701*

DEPARTMENT OF ADMINISTRATION  
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<p><b>NOTICE TO PROCEED:</b> THIS CONTRACT IS TO BE PERFORMED WITHIN 60 CALENDAR DAYS AFTER THE NOTICE TO PROCEED IS RECEIVED. THE AGENCY WILL ISSUE A WRITTEN NOTICE TO PROCEED TO THE SUCCESSFUL VENDOR.</p> <p><b>CANCELLATION:</b> THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE MATERIALS OR WORKMANSHIP SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM WITH THE SPECIFICATIONS OF THE BID AND CONTRACT HERE IN.</p> <p><b>WAGE RATES:</b> THE CONTRACTOR OR SUBCONTRACTOR SHALL PAY THE HIGHER OF THE U.S. DEPARTMENT OF LABOR MINIMUM WAGE RATES AS ESTABLISHED FOR KANAWHA COUNTY, PURSUANT TO WEST VIRGINIA CODE 21-5A, ET, SEQ. (PREVAILING WAGE RATES APPLY TO THIS PROJECT)</p> <p><b>ARBITRATION:</b> ANY REFERENCES MADE TO ARBITRATION OR INTEREST FOR PAYMENTS DUE (EXCEPT FOR ANY INTEREST REQUIRED BY STATE LAW) CONTAINED IN THIS CONTRACT OR IN ANY AMERICAN INSTITUTE OF ARCHITECTS DOCUMENTS PERTAINING TO THIS CONTRACT ARE HEREBY DELETED.</p> <p><b>WORKERS' COMPENSATION:</b> VENDOR IS REQUIRED TO PROVIDE A CERTIFICATE FROM WORKERS' COMPENSATION IF SUCCESSFUL FOR THE LIFE OF THE CONTRACT.</p> <p>ALL OF THE ITEMS CHECKED BELOW WILL BE A REQUIREMENT OF THIS CONTRACT:</p> <p>(XX) <b>INSURANCE:</b> SUCCESSFUL VENDOR SHALL FURNISH PROOF OF COMMERCIAL GENERAL LIABILITY INSURANCE PRIOR TO ISSUANCE OF CONTRACT. THE MINIMUM AMOUNT OF INSURANCE COVERAGE REQUIRED IS \$1,000,000.00.</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>John J. [Signature]</i>	TELEPHONE <b>(304) 523-8260</b>	DATE <b>February 12, 2009</b>
TITLE <b>President/CEO</b>	FEIN <b>55-0721450</b>	ADDRESS CHANGES TO BE NOTED ABOVE

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VENDOR

RFQ COPY

TYPE NAME/ADDRESS HERE

*Surdyn Security  
 821 9th st  
 Huntington, WV 25701*

SHIP TO

DEPARTMENT OF ADMINISTRATION  
 GENERAL SERVICES DIVISION  
 BUILDING EIGHT - MANSION  
 1900 KANAWHA BOULEVARD, EAST  
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<p>( ) BUILDERS RISK INSURANCE: SUCCESSFUL VENDOR SHALL FURNISH PROOF OF BUILDERS RISK - ALL RISK INSURANCE IN AN AMOUNT EQUAL TO 100% OF THE AMOUNT OF THE CONTRACT.</p> <p>(XX) BONDS: FIVE PERCENT (5%) OF THE TOTAL AMOUNT OF THE BID PAYABLE TO THE STATE OF WEST VIRGINIA, SHALL BE SUBMITTED WITH EACH BID AS A BID BOND. THE SUCCESSFUL BIDDER SHALL ALSO FURNISH A PERFORMANCE BOND AND LABOR/MATERIAL BOND FOR 100% OF THE AMOUNT OF THE CONTRACT. BONDS MAY BE PROVIDED IN THE FORM OF A CERTIFIED CHECK, IRREVOCABLE LETTER OF CREDIT, OR BOND FURNISHED BY A SOLVENT SURETY COMPANY AUTHORIZED TO DO BUSINESS IN THE STATE OF WEST VIRGINIA. A LETTER OF CREDIT SUBMITTED IN LIEU OF A BOND WILL ONLY BE ALLOWED FOR PROJECTS UNDER \$100,000. PERSONAL OR BUSINESS CHECKS ARE NOT ACCEPTABLE IN LIEU OF THE 5% BID BOND, PERFORMANCE BOND, OR LABOR AND MATERIAL BOND.</p> <p>( ) MAINTENANCE BOND: A TWO (2) YEAR MAINTENANCE BOND COVERING THE ROOFING SYSTEM WILL BE A REQUIREMENT OF THE SUCCESSFUL VENDOR.</p> <p>REV. 11/00</p> <p>EXHIBIT 7</p> <p>DOMESTIC ALUMINUM, GLASS &amp; STEEL IN PUBLIC WORKS PROJECTS</p> <p>IN ACCORDANCE WITH WEST VIRGINIA CODE 5-19-1 ET., SEQ., EVERY CONTRACT FOR CONSTRUCTION, RECONSTRUCTION, ALTERATION, REPAIR, IMPROVEMENT OR MAINTENANCE OF PUBLIC WORKS, WHERE THE COST IS MORE THAN \$50,000 AND, IN THE CASE OF STEEL ONLY, WHERE THE COST OF STEEL IS</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>John B. Hayes</i>	TELEPHONE <b>(304) 523-8260</b>	DATE <b>February 12, 2009</b>
TITLE <b>President/CEO</b>	FAX <b>55-0721450</b>	ADDRESS CHANGES TO BE NOTED ABOVE

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**5**

ADDRESS CORRESPONDENCE TO ATTENTION OF  
**KRISTA FERRELL**  
**304-558-2596**

RFQ COPY  
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*Surdyne Security*  
*821 9th St*  
*Huntington, WV 25701*

DEPARTMENT OF ADMINISTRATION  
 GENERAL SERVICES DIVISION  
 BUILDING EIGHT - MANSION  
 1900 KANAWHA BOULEVARD, EAST  
 CHARLESTON, WV  
 25305 304-558-2317

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<p>MORE THAN \$50,000 OR WHERE MORE THAN 10,000 POUNDS OF STEEL ARE REQUIRED, THE STATE WILL ACCEPT ONLY ALUMINUM, GLASS, OR STEEL PRODUCTS PRODUCED IN THE UNITED STATES. IN ADDITION, ITEMS OF MACHINERY OR EQUIPMENT PURCHASED FOR USE AT THE SITE OF PUBLIC WORKS SHALL BE MADE OF DOMESTIC ALUMINUM, GLASS OR STEEL, UNLESS THE COST OF THE PRODUCT IS LESS THAN \$50,000 OR LESS THAN 10,000 POUNDS OF STEEL ARE USED IN PUBLIC WORKS PROJECTS.</p> <p>FOREIGN MADE ALUMINUM, GLASS OR STEEL PRODUCTS MAY BE ACCEPTED ONLY IF THE COST OF DOMESTIC PRODUCTS IS FOUND TO BE UNREASONABLE. SUCH COST IS UNREASONABLE IF IT IS 20% OR MORE HIGHER THAN THE BID PRICE FOR FOREIGN MADE PRODUCTS. IF THE DOMESTIC ALUMINUM, GLASS OR STEEL PRODUCTS TO BE SUPPLIED OR PRODUCED IN A "SUBSTANTIAL LABOR SURPLUS AREA", AS DEFINED BY THE UNITED STATES DEPARTMENT OF LABOR, FOREIGN PRODUCTS MAY BE SUPPLIED ONLY IF DOMESTIC PRODUCTS ARE 30% OR MORE HIGHER IN PRICE THAN THE FOREIGN MADE PRODUCTS.</p> <p>IF, PRIOR TO THE AWARD OF A CONTRACT UNDER THE ABOVE PROVISIONS, THE SPENDING OFFICER OF THE SPENDING UNIT DETERMINES THAT THERE EXISTS A BID FOR LIKE FOREIGN ALUMINUM, GLASS OR STEEL THAT IS REASONABLE AND LOWER THAN THE LOWEST BID DOMESTIC PRODUCTS, THE SPENDING OFFICE MAY REQUEST, IN WRITING, A REEVALUATION AND REDUCTION IN THE LOWEST BID FOR SUCH DOMESTIC PRODUCTS. ALL VENDORS MUST INDICATE IN THEIR BID IF THEY ARE SUPPLYING FOREIGN ALUMINUM, GLASS OR STEEL.</p> <p>REV. 3/88</p> <p>EXHIBIT 9</p> <p>NOTICE FOR ISSUANCE &amp; ACKNOWLEDGEMENT OF CONSTRUCTION</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>John R. Byrnes</i>	TELEPHONE <b>(304) 523-8260</b>	DATE <b>February 12, 2009</b>
TITLE <b>President/CEO</b>	FEIN <b>55-0721450</b>	ADDRESS CHANGES TO BE NOTED ABOVE

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PAGE  
**6**

ADDRESS CORRESPONDENCE TO ATTENTION OF  
**KRISTA FERRELL  
 304-558-2596**

RFQ COPY

TYPE NAME/ADDRESS HERE

*Surdyne Security  
 821 9th St  
 Huntington, WV 25701*

RFQ COPY

DEPARTMENT OF ADMINISTRATION  
 GENERAL SERVICES DIVISION  
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 1900 KANAWHA BOULEVARD, EAST  
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<p><b>PROJECT ADDENDA</b></p> <p>THE ARCHITECT/ENGINEER AND/OR AGENCY SHALL BE REQUIRED TO ABIDE BY THE FOLLOWING SCHEDULE IN ISSUING CONSTRUCTION PROJECT ADDENDA FOR STATE AGENCIES:</p> <p>(1) THE ARCHITECT/ENGINEER SHALL PREPARE THE ADDENDUM AND A LIST OF ALL PARTIES THAT HAVE PROCURED DRAWINGS AND SPECIFICATIONS FOR THE PROJECT. THE ADDENDUM AND LIST SHALL BE FORWARDED TO THE BUYER IN THE STATE PURCHASING DIVISION. THE ARCHITECT/ENGINEER SHALL ALSO SEND A COPY OF THE ADDENDUM TO THE STATE AGENCY FOR WHICH THE CONTRACT IS ISSUED.</p> <p>(2) THE BUYER SHALL SEND THE ADDENDUM TO ALL INTERESTED PARTIES AND, IF NECESSARY, EXTEND THE BID OPENING DATE. ANY ADDENDUM SHOULD BE RECEIVED BY THE BUYER WITHIN FOURTEEN (14) DAYS PRIOR TO THE BID OPENING DATE.</p> <p>(3) ALL ADDENDA SHOULD BE FORMALLY ACKNOWLEDGED BY ALL BIDDERS AND SUBMITTED TO THE STATE PURCHASING DIVISION. THE SAME RULES AND REGULATIONS THAT APPLY TO THE ORIGINAL BIDDING DOCUMENT SHALL ALSO APPLY TO AN ADDENDUM DOCUMENT. THE ONLY EXCEPTION MAY BE FOR AN ADDENDUM THAT IS ISSUED FOR THE SOLE PURPOSE OF CHANGING A BID OPENING TIME AND/OR DATE.</p> <p>REV. 11/96</p> <p>EXHIBIT 10</p> <p>ADDENDUM ACKNOWLEDGEMENT</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>John D. Hays</i>	TELEPHONE <b>(304) 523-8260</b>	DATE <b>February 12, 2009</b>
TITLE <b>President/CEO</b>	FEIN <b>55-0721450</b>	ADDRESS CHANGES TO BE NOTED ABOVE

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<p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.</p> <p>ADDENDUM NOS.:</p> <p>NO. 1 ..... ✓ <i>QALB</i> .....</p> <p>NO. 2 ..... ✓ <i>QALB</i> .....</p> <p>NO. 3 ..... ✓ <i>QALB</i> .....</p> <p>NO. 4 ..... .....</p> <p>NO. 5 ..... .....</p> <p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF THE BIDS.</p> <p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p> <p>..... <i>John R. Hayes</i> ..... SIGNATURE</p> <p>..... <i>Surdyne Security, Inc.</i> ..... COMPANY</p> <p>..... <i>February 12, 2009</i> ..... DATE</p> <p>REV. 11/96</p>						

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SIGNATURE <i>John R Hayes</i>	TELEPHONE <i>(304) 523-8260</i>	DATE <i>February 12, 2009</i>	
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BID OPENING DATE: **01/22/2009** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<b>CONTRACTORS LICENSE</b>						
WEST VIRGINIA STATE CODE 21-11-2 REQUIRES THAT ALL PERSONS DESIRING TO PERFORM CONTRACTING WORK IN THIS STATE MUST BE LICENSED. THE WEST VIRGINIA CONTRACTORS LICENSING BOARD IS EMPOWERED TO ISSUE THE CONTRACTORS LICENSE. APPLICATIONS FOR A CONTRACTORS LICENSE MAY BE MADE BY CONTACTING THE WEST VIRGINIA DIVISION OF LABOR CAPITOL COMPLEX, BUILDING 3, ROOM 319, CHARLESTON, WV 25305. TELEPHONE: (304) 558-7890.						
WEST VIRGINIA STATE CODE 21-11-11 REQUIRES ANY PROSPECTIVE BIDDER TO INCLUDE THE CONTRACTORS LICENSE NUMBER ON THEIR BID.						
BIDDER TO COMPLETE:						
CONTRACTORS NAME: ... <i>Surdyne Security, Inc.</i> ...						
CONTRACTORS LICENSE NO.: ... <i>WV023496</i> ...						
THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FURNISH A COPY OF THEIR CONTRACTORS LICENSE PRIOR TO ISSUANCE OF A PURCHASE ORDER/CONTRACT						
<b>APPLICABLE LAW</b>						
THE WEST VIRGINIA STATE CODE, PURCHASING DIVISION RULES AND REGULATIONS, AND THE INFORMATION PROVIDED IN THE "REQUEST FOR QUOTATION" ISSUED BY THE PURCHASING DIVISION IS THE SOLE AUTHORITY GOVERNING THIS PROCUREMENT.						
ANY INFORMATION PROVIDED IN SPECIFICATION MANUALS, OR ANY OTHER SOURCE, VERBAL OR WRITTEN, WHICH CONTRADICTS OR ALTERS THE INFORMATION PROVIDED FROM THE SOURCES AS						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE *John R. ...* TELEPHONE *(304) 523-8260* DATE *February 12, 2009*  
 TITLE *President/CEO* FEIN *55-0721450* ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

# Request for Quotation

RFQ NUMBER  
**GSD096412**

PAGE  
**9**

ADDRESS CORRESPONDENCE TO ATTENTION OF  
**KRISTA FERRELL  
 304-558-2596**

VENDOR

RFQ COPY  
 TYPE NAME/ADDRESS HERE  
*Surdyne Security  
 821 9th St  
 Huntington, WV 25701*

BUYER

DEPARTMENT OF ADMINISTRATION  
 GENERAL SERVICES DIVISION  
 BUILDING EIGHT - MANSION  
 1900 KANAWHA BOULEVARD, EAST  
 CHARLESTON, WV  
 25305 304-558-2317

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
12/23/2008				

BID OPENING DATE: **01/22/2009** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>DESCRIBED IN THE ABOVE PARAGRAPH IS VOID AND OF NO EFFECT.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.</p> <p>REV. 1/2005</p> <p style="text-align: center;">NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p style="text-align: center;">DEPARTMENT OF ADMINISTRATION          PURCHASING DIVISION          BUILDING 15          2019 WASHINGTON STREET, EAST          CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: KRISTA FERRELL-FILE 21</p> <p>REQ. NO.: GSD096412</p> <p>BID OPENING DATE: JANUARY 22, 2009</p> <p>BID OPENING TIME: 1:30 PM</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY</p>						

*304-523-4797*

SEE REVERSE SIDE FOR TERMS AND CONDITIONS		
SIGNATURE <i>John R. Byers</i>	TELEPHONE <i>(304) 523-8260</i>	DATE <i>February 12, 2009</i>
TITLE <i>President/CEO</i>	FEIN <i>55-0721450</i>	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

# Request for Quotation

RFQ NUMBER  
**GSD096412**

PAGE  
**10**

ADDRESS CORRESPONDENCE TO ATTENTION OF  
**KRISTA FERRELL  
 304-558-2596**

VENDOR PROPERTY

RFQ COPY  
 TYPE NAME/ADDRESS HERE

*Surdyne Security  
 821 9th St  
 Huntington, WV 25701*

SHIP TO

DEPARTMENT OF ADMINISTRATION  
 GENERAL SERVICES DIVISION  
 BUILDING EIGHT - MANSION  
 1900 KANAWHA BOULEVARD, EAST  
 CHARLESTON, WV  
 25305 304-558-2317

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
12/23/2008				

BID OPENING DATE: **01/22/2009** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	QTY NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>TO CONTACT YOU REGARDING YOUR BID:  <i>304-523-<del>4797</del> 8260 phone 304-523-4797 Fax</i></p> <p>PLEASE PRINT OR TYPE NAME OF PERSON TO CONTACT CONCERNING THIS QUOTE:  <i>Jim Henstze</i></p>						
<p>***** THIS IS THE END OF RFQ GSD096412 ***** TOTAL:</p>						<p><i>\$83,092.61</i></p>

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE *John R. Henstze* TELEPHONE **(304) 523-8260** DATE **February 12, 2009**  
 TITLE **President/CEO** FEIN **55-0721450** ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

# Request for Quotation

RFQ NUMBER  
**GSD096412**

PAGE  
**1**

ADDRESS CORRESPONDENCE TO (AGENT OR CONTACT)  
**KRISTA FERRELL  
 304-558-2596**

RFQ COPY

TYPE NAME/ADDRESS HERE

DEPARTMENT OF ADMINISTRATION

DEPARTMENT OF ADMINISTRATION  
 GENERAL SERVICES DIVISION  
 BUILDING EIGHT - MANSION  
 1900 KANAWHA BOULEVARD, EAST  
 CHARLESTON, WV  
 25305 304-558-2317

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
01/08/2009				

BID OPENING DATE: **01/29/2009** BID OPENING TIME: **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
				ADDENDUM NO. 1		
				THIS ADDENDUM IS ISSUED TO:		
				1.) PROVIDE A COPY OF THE PRE-BID ATTENDEE LIST,		
				2.) EXTEND THE DEADLINE FOR TECHNICAL QUESTIONS,		
				DEADLINE DATE IS EXTENDED TO: 01/20/2009		
				DEADLINE TIME REMAINS: CLOSE OF BUSINESS		
				3.) TO INCLUDE THE FOLLOWING LANGUAGE: SITE VISITS AND REVIEW OF PLANS MAY BE SCHEDULED BY CONTACTING DAN OLTHAUS AT GENERAL SERVICES AT 304-558-4783. DUE TO THE NATURE OF THIS PROJECT, SCHEDULING TIMES MAY BE LIMITED. TECHNICAL QUESTIONS RESULTING FROM THESE VISITS MUST BE SUBMITTED IN ACCORDANCE WITH THE PROVISIONS OF THIS REQUEST FOR QUOTATION. NO TECHNICAL QUESTIONS WILL BE ACCEPTED DURING THESE VISITS, AND		
				4.) TO EXTEND THE BID OPENING DATE		
				BID OPENING DATE IS EXTENDED TO: 01/29/2009		
				BID OPENING TIME REMAINS: 1:30 PM		
				***** END ADDENDUM NO. 1 *****		
0001	1	JB		936-73		\$83,092.61
				UPGRADE TO SECURITY SYSTEM, BLDG#8		

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>John Q. Hayes</i>	TELEPHONE 304-523-8260	DATE Feb 12, 2009
TITLE President/CEO	FAX 55-0721450	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

# Request for Quotation

RFQ NUMBER  
**GSD096412**

PAGE  
**1**

ADDRESS CORRESPONDENCE TO ATTENTION OF:  
**KRISTA FERRELL  
 304-558-2596**

\*018092203      304-523-8260  
**SURDYNE SECURITY INC**  
**821 9TH ST**  
  
**HUNTINGTON WV 25701**

**DEPARTMENT OF ADMINISTRATION**  
**GENERAL SERVICES DIVISION**  
**BUILDING EIGHT - MANSION**  
**1900 KANAWHA BOULEVARD, EAST**  
**CHARLESTON, WV**  
**25305      304-558-2317**

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B	FREIGHT TERMS
01/25/2009				

BID OPENING DATE: **02/05/2009**      BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
				<b>ADDENDUM NO. 2</b>		
				<b>THIS ADDENDUM IS ISSUED TO:</b>		
				<b>1.) ANSWER ALL TECHNICAL QUESTIONS SUBMITTED PRIOR TO THE 01/0/2009 DEADLINE FOR TECHNICAL QUESTIONS.</b>		
				<b>2.) DELETE THE FOLLOWING LANGUAGE,</b>		
				<b>EXHIBIT 5</b>		
				<b>"WEST VIRGINIA CODE 21-D-5 PROVIDES THAT: ANY SOLIITATION FOR A PUBLIC IMPORVEMENT CONSTRUCTION CONTRACT REQUIRES EACH VENDOR THAT SUBMITS A BID FOR THE WORK TO SUBMIT AT THE SAME TIME AN AFFIDAVIT OF COMPLIANCE WITH THE BID. THE ENCLOSED PURCHASING AFFIDAVIT MUST BE SIGNED AND SUBMITTED WITH THE PROVISIONS OF ARTICLE 1D, CHAPTER 21 OF THE WEST VIRGINIA CODE. FAILURE TO SUBMIT THE SIGNED PURCHASING AFFIDAVIT WITH THE BID SHALL RESULT IN DISQUALIFICATION FO SUCH BID."</b>		
				<b>AND REPLACE WITH:</b>		
				<b>"WEST VIRGINIA CODE 21-D-5 PROVIDES THAT: ANY SOLIITATION FOR A PUBLIC IMPORVEMENT CONSTRUCTION CONTRACT REQUIRES EACH VENDOR THAT SUBMITS A BID FOR THE WORK TO SUBMIT AT THE SAME TIME AN AFFIDAVIT OF COMPLIANCE WITH THE BID. THE ENCLOSED DRUG FREE WORKPLACE AFFIDAVIT MUST BE SIGNED AND SUBMITTED WITH THE BID AS EVIDENCE OF THE VENDOR'S COMPLIANCE WITH THE PROVISIONS OF ARTICLE 1D, CHAPTER 21 OF THE WEST VIRGINIA CODE. FAILURE TO SUBMIT THE SIGNED DRUG FREE WORKPLACE AFFIDAVIT WITH THE BID SHALL RESULT IN DISQUALIFICATION OF SUCH BID."</b>		

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>John R. Hyman</i>	TELEPHONE <b>304-523-8260</b>	DATE <b>Feb 12, 2009</b>
TITLE <b>President/CEO</b>	FEIN <b>55-0721450</b>	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

# Request for Quotation

RFQ NUMBER  
**GSD096412**

PAGE  
**2**

ADDRESS CORRESPONDENCE TO ATTENTION OF:  
**KRISTA FERRELL  
 304-558-2596**

RFQ COPY

TYPE NAME/ADDRESS HERE

SHIP TO

DEPARTMENT OF ADMINISTRATION  
 GENERAL SERVICES DIVISION  
 BUILDING EIGHT - MANSION  
 1900 KANAWHA BOULEVARD, EAST  
 CHARLESTON, WV  
 25305 304-558-2317

DATE PRINTED <b>01/25/2009</b>	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
-----------------------------------	---------------	----------	--------	---------------

BID OPENING DATE: **02/05/2009** BID OPENING TIME: **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		936-73		\$83,092.61
3.) REPLACE THE PURCHASING AFFIDAVIT INCLUDED IN THE ORIGINAL BID PACKAGE WITH THE ATTACHED PURCHASING AFFIDAVIT,  4.) AND EXTEND THE BID OPENING DATE.  BID OPENING DATE IS EXTENDED TO: 02/05/2009 BID OPENING TIME REMAINS: 1:30 PM  ***** END ADDENDUM NO. 2 *****  UPGRADE TO SECURITY SYSTEM, BLDG#8						
***** THIS IS THE END OF RFQ GSD096412 ***** TOTAL:						\$83,092.61

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>John R. Hayes</i>	TELEPHONE <b>304-523-8260</b>	DATE <b>Feb 12, 2009</b>
TITLE <b>President/CEO</b>	FEIN <b>55-0721450</b>	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

## RFQ#GSD096412, Security Systems Upgrade for Gov. Mansion

### Technical Questions & Answers

Question#1: What is the warranty requirement on the camera system?

Answer#1: Warranty must be for 3 years

Question#2: During the warranty period are software license and camera license fees to be included?

Answer#2: They are to be included.

Question#3: Can you give some clarification concerning responsibility of existing cable and installation of cable tray?

Answer#3: Existing cabling is to be replaced and installed in cable trays/conduit.

Question#4: Is lightning protection required on all field wiring?

Answer#4: Yes

Question#5: Will you entertain other options for the IR Fence, underground fencing for example? Underground fence detection would offer less intrusive aesthetics and provide more stealthy operation.

Answer#5: Bid should be as specified or equivalent equal or better. We prefer data sheets be provided on any equipment that would be a replacement to what is specified.

Question#6: How many client stations will be require in building #8?

Answer#6: Two client stations require: one for the main console and one for the ability to view screens only from the office on the second floor.

Question#7: Can you provide the rate schedule for prevailing wages?

Answer#7: Prevailing wage rate schedules are available from the WV Division of Labor.

Question#8: Are wireless contacts and other wireless intrusion detection devices acceptable as a solution for the intrusion piece of this quote?

Answer#8: Bid should be as specified or equivalent equal or better. We prefer data sheets be provided on any equipment that would be a replacement to what is specified.

Question#9: Can we provide more than one quotation, each with different solution?

Answer#9: Submission of alternate bids along with the base bid is allowed; all alternates are required to meet the specifications of the RFQ and its addenda and to be clearly identified in the vendor's bid package as alternates.

Question#10: Can you provide floor plans of the Mansion without showing the security device locations?

Answer#10: CAD drawings of the Mansion can be requested by email at [daniel.r.olthaus@wv.gov](mailto:daniel.r.olthaus@wv.gov).



State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

# Request for Quotation

RFQ NUMBER  
 GSD096412

PAGE  
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF  
 KRISTA FERRELL  
 304-558-2596

\*018092203      304-523-8260  
 SURDYNE SECURITY INC  
 821 9TH ST  
 HUNTINGTON WV 25701

DEPARTMENT OF ADMINISTRATION  
 GENERAL SERVICES DIVISION  
 BUILDING EIGHT - MANSION  
 1900 KANAWHA BOULEVARD, EAST  
 CHARLESTON, WV  
 25305      304-558-2317

VENDOR

SHIP TO

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B	FREIGHT TERMS
02/03/2009				

BID OPENING DATE: 02/12/2009      BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 3						
THIS ADDENDUM IS ISSUED TO EXTEND THE BID OPENING DATE.						
BID OPENING DATE IS EXTENDED TO: 02/12/2009						
BID OPENING TIME REMAINS: 1:30 PM						
***** END ADDENDUM NO. 3 *****						
0001	1	JB		936-73		\$ 83,092.61
UPGRADE TO SECURITY SYSTEM, BLDG#8						
***** THIS IS THE END OF RFQ GSD096412 ***** TOTAL:						\$ 83,092.61

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>John R. Hayes</i>	TELEPHONE 3045238260	DATE Feb 12, 2009
TITLE President/CEO	FEIN 55-0721450	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING AFFIDAVIT**

**VENDOR OWING A DEBT TO THE STATE:**

*West Virginia Code* §5A-3-10a provides that: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

**PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:**

If this is a solicitation for a public improvement construction contract, the vendor, by its signature below, affirms that it has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code*. The vendor **must** make said affirmation with its bid submission. Further, public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code* and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the *West Virginia Code* may take place before their work on the public improvement is begun.

**ANTITRUST:**

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

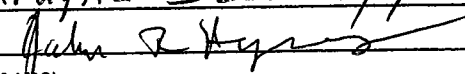
**LICENSING:**

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

**CONFIDENTIALITY:**

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.

Under penalty of law for false swearing (*West Virginia Code* §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

Vendor's Name: Surdyne Security, Inc.  
Authorized Signature:  Date: February 12, 2009



**State of West Virginia  
DRUG FREE WORKPLACE CONFORMANCE AFFIDAVIT  
West Virginia Code §21-1D-5**

**STATE OF WEST VIRGINIA,**  
**COUNTY OF Cabell, TO-WIT:**

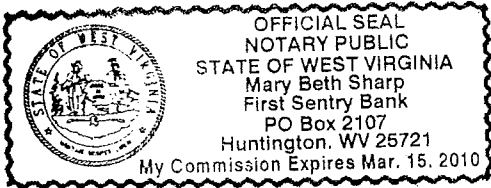
I, Barbara Haynes, after being first duly sworn, depose and state as follows:

1. I am an employee of Surdyne Security, Inc.; and,  
(Company Name)
2. I do hereby attest that Surdyne Security, Inc.  
(Company Name)

maintains a valid written drug free workplace policy and that such policy is in compliance with **West Virginia Code §21-1D-5**.

The above statements are sworn to under the penalty of perjury.

Surdyne Security, Inc.  
(Company Name)



By: Barbara Haynes

Title: Accounts Mgr.

Date: 02/12/09

Taken, subscribed and sworn to before me this 12 day of February.

By Commission expires March 15, 2010

(Seal)

Mary Beth Sharp  
(Notary Public)

**THIS AFFIDAVIT MUST BE SUBMITTED WITH THE BID IN ORDER TO COMPLY WITH WV CODE PROVISIONS. FAILURE TO INCLUDE THE AFFIDAVIT WITH THE BID SHALL RESULT IN DISQUALIFICATION OF THE BID.**



# First Sentry Bank

February 11, 2009

**ACCOUNT PARTY**

Surdyne Security, Inc.  
821 9th Street  
Huntington, WV 25701

**BENEFICIARY**

State of West Virginia  
Department of Administration  
General Services Division  
Building Eight - Mansion  
1900 Kanawha Blvd, East  
Charleston, WV 25305

**AMOUNT:** \$4,154.63 USD

**LETTER OF CREDIT NUMBER:** 226

We hereby open in your favor our Irrevocable Standby Letter of Credit #226 for the Account of Surdyne Security, Inc. for a sum or sums not exceeding a total of \$4,154.63 (Four Thousand one hundred fifty four and 63/100 Dollars) available by your draft(s) at sight drawn on us.

The purpose of this letter of credit is to back a bid for Surdyne Security, Inc. to upgrade the security system for building #8 (Mansion) in Charleston, WV (RFQ # GSD096412).

Your signed statement certifying: "The amount of our draft represents funds due as a result of the failure of Surdyne Security, Inc. to bid properly on the upgrade to the security system for building #8 (Mansion), Charleston WV, demand for payment has been made and payment has not been received by us from Surdyne Security, Inc. or any other source."

Copy of items that remain incomplete according to bid process

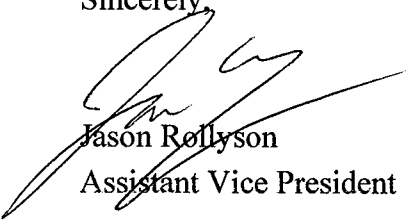
Partial drawings are permitted.

Each draft must bear upon its face the clause "Drawn under First Sentry Bank Irrevocable Letter of Credit Number 226 dated February 11, 2009."

Except so far as otherwise expressly stated herein, this Letter of Credit is subject to the Uniform Customs and Practice for Documentary Credits (1983 Revision) International Chamber of Commerce Publication No. 400.

We hereby agree with you that drafts drawn under and in compliance with the terms of this Letter of Credit will be duly honored if presented to the above mentioned drawee bank on or before March 11, 2009. Negotiation under this Letter of Credit is restricted to First Sentry Bank.

Sincerely,



Jason Rollyson  
Assistant Vice President

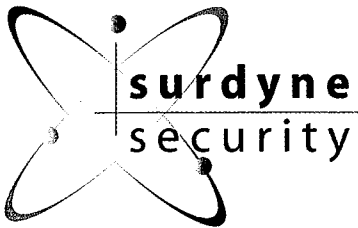
Surdyne Security, Inc.  
 821 9th Street  
 Huntington, WV 25701  
 Telephone: (304) 523-8260  
 Fax: (304) 523-4797

Date	Estimate #
1/21/2009	1551

<b>Name / Address</b>
WV Capital Complex Dan Olthaus 1900 Kanawha Blvd. E Building 1, Room MB-60 Charleston, WV 25305
<b>Project</b>
Building #8 (Governor's Mansion)

<b>Ship To</b>

Qty	Item	Description
4	OP-LRP4010S	Optex Outdoor Motion Detector, 125x30 foot range
1	ProSightSMB25C	On-Net Surveillance Systems Camera Management Software Platform, supports 25 cameras
1	Dell Desk Top Computer	Video Surveillance System Remote View Computer; 2 Mb RAM, 5 TB RAID Array
1	42PLF7403D	Philips 42" LCD Television
3	AV1305-AI	Arecont Vision 1.3 Megapixel IP Color Camera, Auto-Iris
5	AV3105-AI	Arecont Vision 3 Megapixel IP Color Camera, Auto-Iris
6	AV5105-AI	Arecont Vision 5 Megapixel IP Color Camera, Auto-Iris
14	HG2Z0414FCMP	Computar 4-8mm Autoiris Megapixel Lens, 1/2" format
1	WPSEU5V	WIN-PAK SE Access Control Software, 5 users
1	NX4S1	NetAXS Access Control Panel
1	4100SM	Honeywell Interface Module
1	AJ-AX8MV	Aiphone Video Intercom Master Station
1	AX084C	Aiphone Central Exchange Unit, supports 8 doors and 4 masters
4	AX-DC	Aiphone Video Surface Mount Door Station
1	Vista 250FBP	Honeywell Vista 250FBP Control Panel
2	6160	Ademco 6160 LCD Alpha display keypad
1	5881ENH	5881ENH Receiver, unlimited zones (control panel maximum)-Ademco 5800 series
47	5820L	Ademco Slimline Door/Window Transmitter
4	5816	Wireless 2 zone RF door/window transmitter- Ademco 5800 series.
4	958	958 Ademco Overhead door contact 2'gap
50	5853	Wireless Glassbreak-Ademco 5800 series
1	5890PI	Wireless PIR Motion, Pet Immune (to 40 lbs)- Ademco 5800 series
2	2416300ULM	Altronix Camera Power Supply, 16 Fused Outputs, 10A @ 28V/12.5A @ 24V
1	TC-Smart1500	Trippelite SmartPC 1500VA UPS
1	8E-DGS31024P	D-Link Systems 24 Port POE Gigabit Switch
1	AR-ACD2200	ACTi 4-Port Video Encoder
1	Miscellaneous	Cable, conduit, connectors, equipment rental, etc.
160	Labor	Labor
		State Sales Tax



Surdyne Security, Inc.  
 821 9th Street  
 Huntington, WV 25701  
 Telephone: (304) 523-8260

# Estimate

Date	Estimate #
1/21/2009	1551

<b>Name / Address</b>
WV Capital Complex Dan Olthaus 1900 Kanawha Blvd. E Building 1, Room MB-60 Charleston, WV 25305

<b>Ship To</b>

<b>Terms</b>
Net 30 Days

Description	Qty	Cost	Total
Optex Outdoor Motion Detector, 125x30 foot range	4	748.78	2,995.12
On-Net Surveillance Systems Camera Management Software Platform, supports 25 cameras	1	2,908.80	2,908.80
Video Surveillance System Remote View Computer; 2 Mb RAM, 5 TB RAID Array	1	7,364.00	7,364.00
Philips 42" LCD Television	1	3,333.34	3,333.34
Arecont Vision 1.3 Megapixel IP Color Camera, Auto-Iris	3	1,125.00	3,375.00
Arecont Vision 3 Megapixel IP Color Camera, Auto-Iris	5	1,277.40	6,387.00
Arecont Vision 5 Megapixel IP Color Camera, Auto-Iris	6	1,382.40	8,294.40
Computar 4-8mm Autoiris Megapixel Lens, 1/2" format	14	198.00	2,772.00
WIN-PAK SE Access Control Software, 5 users	1	2,670.22	2,670.22
NetAXS Access Control Panel	1	2,906.53	2,906.53
Honeywell Interface Module	1	127.78	127.78
Aiphone Video Intercom Master Station	1	901.80	901.80
Aiphone Central Exchange Unit, supports 8 doors and 4 masters	1	1,276.20	1,276.20
Aiphone Video Surface Mount Door Station	4	397.80	1,591.20
Honeywell Vista 250FBP Control Panel	1	964.78	964.78
Ademco 6160 LCD Alpha display keypad	2	190.24	380.48
5881ENH Receiver, unlimited zones(control panel maximum)-Ademco 5800 series	1	262.78	262.78
Ademco Slimline Door/Window Transmitter	47	79.18	3,721.46
Wireless 2 zone RF door/window transmitter- Ademco 5800 series.	4	71.98	287.92
958 Ademco Overhead door contact 2'gap	4	17.62	70.48
Wireless Glassbreak-Ademco 5800 series	50	142.18	7,109.00
Wireless PIR Motion, Pet Immune (to 40 lbs)- Ademco 5800 series	1	147.58	147.58
Altronix Camera Power Supply, 16 Fused Outputs, 10A @ 28V/12.5A @ 24V	2	206.95	413.90
Trippelite SmartPC 1500VA UPS	1	788.38	788.38
D-Link Systems 24 Port POE Gigabit Switch	1	1,958.38	1,958.38
ACTi 4-Port Video Encoder	1	1,339.68	1,339.68

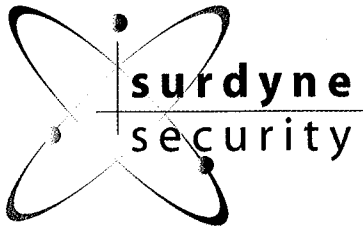
Thank you for this opportunity! Your consideration is greatly appreciated.

**Subtotal**

**Sales Tax (6.0%)**

**Total**

Accepted by: \_\_\_\_\_  
 Date: \_\_\_\_\_



Surdyne Security, Inc.  
 821 9th Street  
 Huntington, WV 25701  
 Telephone: (304) 523-8260

# Estimate

Date	Estimate #
1/21/2009	1551

<b>Name / Address</b>
WV Capital Complex Dan Olthaus 1900 Kanawha Blvd. E Building 1, Room MB-60 Charleston, WV 25305

<b>Ship To</b>

<b>Terms</b>
Net 30 Days

Description	Qty	Cost	Total
Cable, conduit, connectors, equipment rental, etc.	1	5,250.00	5,250.00
Labor	160	84.34	13,494.40

Thank you for this opportunity! Your consideration is greatly appreciated.

**Subtotal** \$83,092.61

**Sales Tax (6.0%)** \$0.00

**Total** \$83,092.61

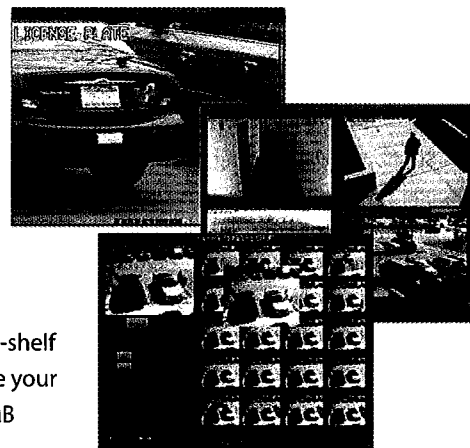
Accepted by: _____
Date: _____

# ProSight-SMB

Small and Medium Business Scale NVR and Camera Management Software Platform - With Multiple Video Clients, Including Ocularis Client Lite

Employing the same video management engine as OnSSI's larger-scale NVRs, ProSight-SMB delivers impressive features and tools found only in enterprise systems at a very competitive price. It is the ideal IP video surveillance solution for small and medium businesses that require remote monitoring of up to 25 cameras. Video from any camera, live or recorded, can be accessed by any user, local or over the internet, for live monitoring, investigation of events and export of evidence.

**The Power of IP** Taking advantage of your existing IP infrastructure, cameras can be securely monitored and recorded from any workstation, local or remote. ProSight-SMB's IP technology enables the extension of the surveillance system with wireless cameras, and allows connecting high-coverage megapixel cameras and their intergration with physical security systems.



Instant review during live monitoring and powerful investigation tools via Ocularis Client Lite

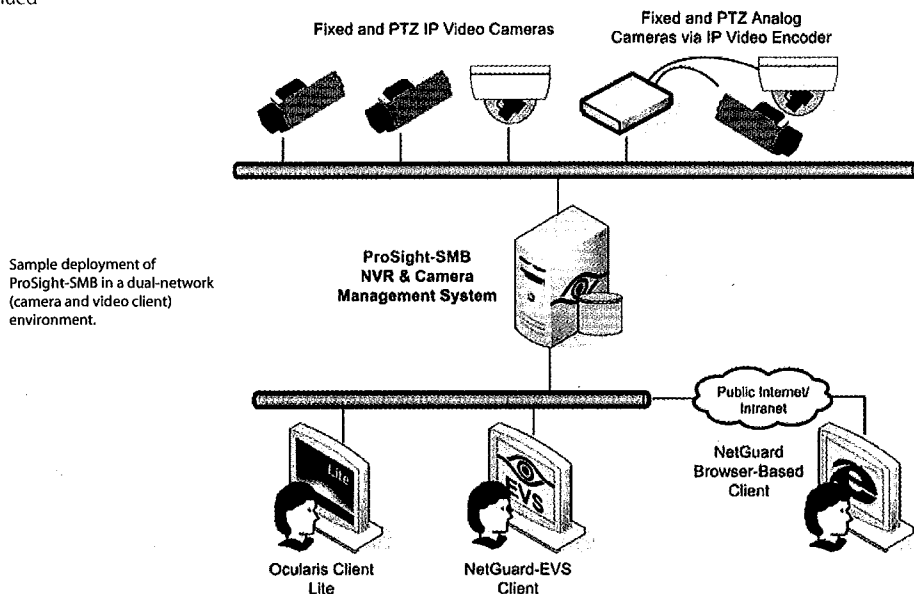
**No Proprietary Hardware** ProSight-SMB runs on off-the-shelf PC hardware, and unlike DVR solutions, you can upgrade your hardware to keep it up-to-date. In addition, ProSight-SMB supports practically every IP or analog camera by all leading manufacturers. Each camera can be individually configured for resolution, frame rate, recording mode (continuous, scheduled or on-event) and storage location, to optimize your computing and storage resources.

**Choice of Video Clients** Video from all cameras can be accessed and controlled via multiple video clients: Ocularis Client Lite, OnSSI's revolutionary desktop video client, controlled through an intuitive, optional touchscreen-enabled interface; the NetGuard-EVS desktop video client; and the NetGuard browser-based client for occasional or web access to video, with no software download required - making it ideal for law enforcement.

**Intelligent Detection** ProSight-SMB's advanced VMD (Video Motion Detection) will alert you by sound and/or email notification when motion is detected on a camera during certain hours. Events generated by motion detection or received from integrated security systems can be easily accessed, previewed and investigated directly within Ocularis Client Lite. Video of the event, together with audio captured by camera-connected microphones, can then be then easily exported as an AVI file or in tamper-evident database format, for use as court evidence.



Continued



Sample deployment of ProSight-SMB in a dual-network (camera and video client) environment.

Features and Specifications

- Up to 25 cameras, connected to a single server
- Support for all leading manufacturers' IP and analog cameras, as well as video encoders
- Simultaneous support for MJPEG, MPEG4, Wavelet and H.263 compression formats
- Multiple video clients - Ocularis Client Lite, NetGuard-EVS and NetGuard, for one concurrent user
- Simultaneous display of all cameras in system via Ocularis Client Lite and NetGuard-EVS
- Advanced motion detection in Ocularis Client Lite, configurable for motion sensitivity as well as size and speed of object
- Video recording up to 600,000 frames per day per camera; once-a-day scheduled archiving
- Unlimited number of configurable camera group views
- Instant review enabled during live monitoring, assisted by optical (when available) and digital PTZ
- 25 presets per PTZ camera; Point & Click and joystick manual PTZ control
- Flexible carousel functionality, with instant review, PTZ controls and carousel back/forward/pause
- Powerful investigation tools, including the scalable Kinetic Motion Timeline; digital PTZ into live and recorded images; auto-generation of time interval and motion thumbnails via the Time Slicer and Motion Slicer; and instant access to alerts generated by external access control and other physical systems
- Single-channel audio recording
- Multiple-format video export: still-image JPEG; audio-included AVI with preamble displaying all event details.
- Alarm input (contact closure) integration
- Support for multiple networks for increased security and bandwidth management
- Operation as Windows Service
- User authentication via Windows User Account and Groups as well as NVR administrator
- Full user activity logging
- Upgrade path to OnSSI's medium and enterprise scale IP video platforms
- Available in a variety of camera license packages

Ordering Information

ProSight-SMB is available in camera license packages of 4, 6, 9, 16 and 25 cameras:

- ProSight-SMB-4C
- ProSight-SMB-6C
- ProSight-SMB-9C
- ProSight-SMB-16C
- ProSight-SMB-25C

Compatible with Cameras and Video Encoders by:

- |                  |              |
|------------------|--------------|
| • ACTi           | • Lumenera   |
| • Arecont Vision | • Mobotix    |
| • Axis           | • Panasonic  |
| • Bosch          | • Pelco      |
| • Canon          | • Pentax     |
| • CBC            | • Pixord     |
| • Digimerge      | • Samsung    |
| • D-Link         | • Sanyo      |
| • Extreme CCTV   | • Sony       |
| • Flir Systems   | • StarDot    |
| • GE             | • Toshiba    |
| • Infinova       | • VCS        |
| • Intellinet     | • Varint     |
| • IQInvision     | • Videoalarm |
| • JVC            | • Videology  |
| • Linudix        | • Vivotek    |

Visit [www.onssi.com](http://www.onssi.com) for an updated list of supported models.

Minimum System Requirements

- Microsoft® Windows XP Professional (32 and 64 bit) or Vista (Ultimate, Business or Enterprise versions)
- CPU: Intel® Pentium® 4 or higher, minimum 2.4 GHz
- RAM: Minimum 1 GB
- Network: Ethernet, 1 Gbit recommended
- Graphics Adapter: AGP or PCI-Express, minimum 1024x768, 16 bit color (PSI-Express required for Ocularis Client Lite)
- Hard Disk: E-IDE, PATA, SATA, SCSI, SAS (7200 rpm or faster), 80 GB free (depending on number of cameras)

Visit [www.onssi.com](http://www.onssi.com) for full hardware and storage requirements.

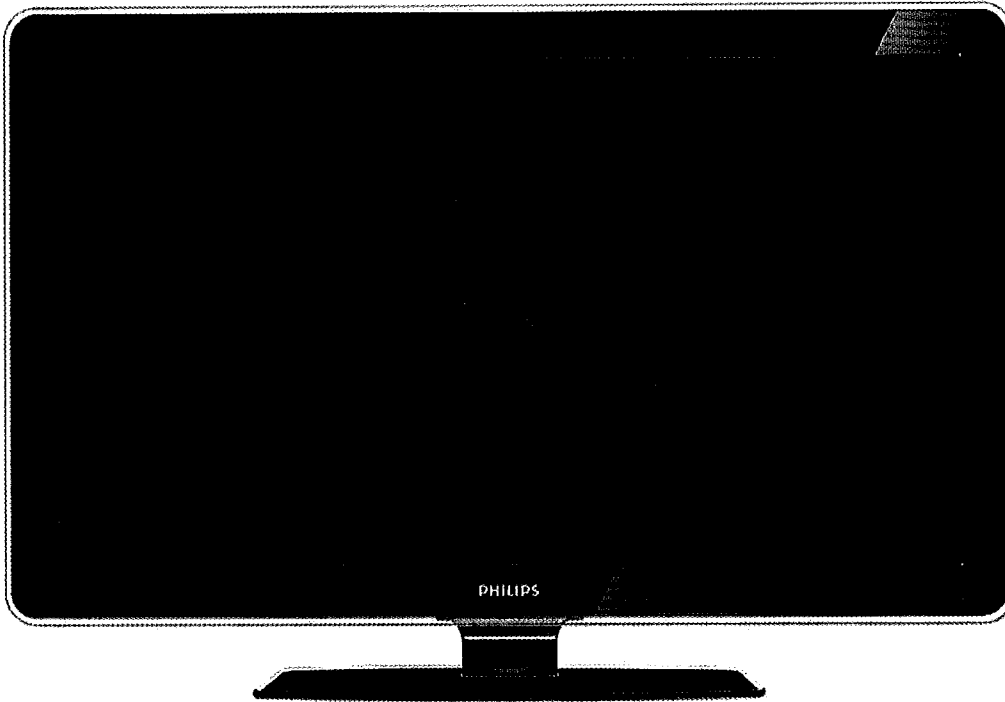
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For more information, please contact:  
 On-Net Surveillance Systems, Inc. One Blue Hill Plaza, 7th Floor, Pearl River, NY 10965  
 PHONE 845-732-7900 FAX 845-732-7999 WEB [www.onssi.com](http://www.onssi.com)

Register your product and get support at  
[www.philips.com/welcome](http://www.philips.com/welcome)

52PFL7403D  
47PFL7403D  
42PFL7403D  
52PFL5603D  
47PFL5603D  
42PFL5603D  
42PFL5403D  
32PFL5413D  
32PFL5403D  
52PFL3603D  
47PFL3603D  
42PFL3603D  
42PFL3403D  
32PFL3403D /85



**EN User Manual**

**FR Manuel de l'utilisateur**

**ES Guía del usuario**

**EN:** For further assistance, call the customer support service in your country.

- U.S.A., PUERTO RICO, OR U.S. VIRGIN ISLANDS:  
1-888-PHILIPS (1-888-744-5477)
- CANADA: 1-800-661-6162 (French speaking),  
1-888-PHILIPS (1-888-744-5477) - (English or Spanish)

Enter below the Serial No. located on the rear of the cabinet.

**FR:** Pour obtenir de l'aide supplémentaire, communiquez avec le centre de service à la clientèle de votre pays.

- POUR OBTENIR DE L'AIDE AUX ÉTATS-UNIS, À PUERTO RICO OU AUX ÎLES VIERGES AMÉRICAINES:  
1-888-PHILIPS (1-888-744-5477)
- CANADA : 1-800-661-6162 (pour français),  
1-888-PHILIPS (1-888-744-5477) - (pour anglais ou en espagnol)

Entrez ci-dessous le numéro de série qui se trouve à l'arrière du boîtier du dispositif.

**ES:** Para obtener más información, llame al servicio de soporte al cliente de su país.

- LOS ESTADOS UNIDOS, PUERTO RICO O EN LAS ISLAS VÍRGENES DE LOS ESTADOS UNIDOS:  
1-888-PHILIPS (1-888-744-5477)
- CANADÁ: 1-800-661-6162 (en francés),  
1-888-PHILIPS (1-888-744-5477) - (en inglés o español)

Escriba a continuación el N° de serie, el cual se encuentra en la parte posterior del gabinete.

**Model / Modèle / Modelo :**

**Serial / Série / Serie:**

# PHILIPS

## 12. Technical specifications

Feature	7000	5000		3000	
type no.	42-52PFL7403D	32PFL5403D/ 32-42PFL5413D	42-52PFL5603D	32PFL3403D/ 42PFL3403D	42-52PFL3603D
<b>PICTURE ENHANCEMENT</b>					
Type	1080p 120Hz	768p 60Hz	1080p 60Hz	768p 60Hz	1080p 60Hz
Brightness	500 cd/m2				
Aspect Ratio	16:9				
Response Time	2ms	8 ms	5 ms	5 ms	5 ms
Viewing Angles	178 (V) by 178 (H)				
Built-in digital tuner	ATSC/QAM				
HD Natural Motion	Yes	No	Yes	No	No
Dynamic Dimming BL	Yes				
Ambient Light Sensor	Yes				
<b>SOUND ENHANCEMENT</b>					
Mono/Stereo/BBE	Mono, Stereo, Incredible surround, BBE				
Power output (RMS Watts)	30 W	25 W		20 W	
Equalizer	5 band				
<b>EASE OF USE</b>					
Video modes	Automatic, 4:3, Movie Expand 14:9, Movie Expand 16:9, Super Zoom, Wide Screen, Unscaled				
PC input	via HDMI				
Photo Slide Show	Yes (jpeg files only)				
MP3 Playback	Yes (mp3 files only)				
<b>CONNECTIONS</b>					
Component video input with Audio L/R	2, supporting 480i/p, 576i/p, 720p, 1080i, 1080p @24Hz-60Hz	2, supporting 480i/p, 576i/p, 720p, 1080i	2, supporting 480i/p, 576i/p, 720p, 1080i, 1080p @24Hz-60Hz	2, supporting 480i/p, 576i/p, 720p, 1080i	2, supporting 480i/p, 576i/p, 720p, 1080i, 1080p @24Hz-60Hz
Composite video input with audio L/R and S-Video	2				
HDMI	4, ver1.3a HDMI supporting video: 480i/p, 576i/p, 720p, 1080i, 1080p @24Hz-60Hz, PC-input: up to WUXGA	4, ver 1.3a HDMI supporting 480i/p, 576i/p, 720p, 1080i and PC-input up to WXGA	4, ver1.3a HDMI supporting video: 480i/p, 576i/p, 720p, 1080i, 1080p @24Hz-60Hz, PC-input: up to WUXGA	3, ver 1.3a HDMI supporting 480i/p, 576i/p, 720p, 1080i and PC-input up to WXGA	3, ver1.3a HDMI supporting video: 480i/p, 576i/p, 720p, 1080i, 1080p @24Hz-60Hz, PC-input: up to WUXGA
Digital audio out	Yes, supporting AC-3 & PCM				
Headphone	1 (on the side of TV)				
USB	1 (on the side of TV)				
<b>MISCELLANEOUS</b>					
Auto multi-voltage	110V-240V~/50-60 Hz, 120V				
Table Top Stand Swivel	Yes	Yes	Yes	Integrated stand without swivel	

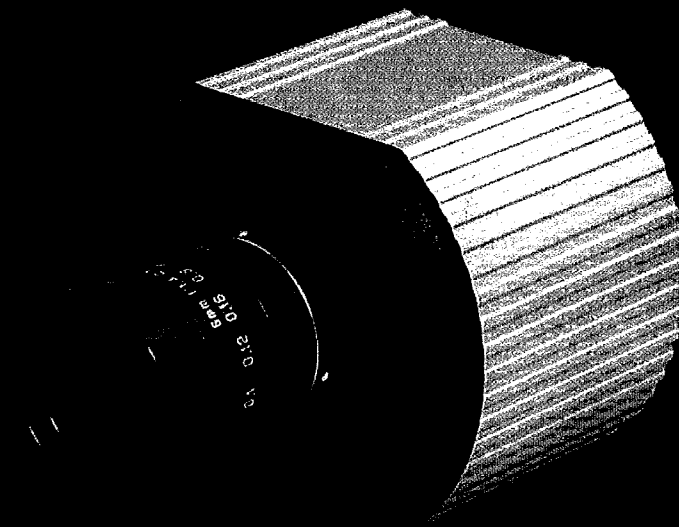
# AV1305

**Arecont Vision**  
megapixel technology...  
beyond imagination

AV1305 (Color)

AV1305DN (Day/Night)

AV1305-AI (Color Auto-Iris)



## Arecont Vision Advantages:

- 1.3 to 5 megapixels with no frame rate reduction
- Simultaneous support of both H.264 and MJPEG
- 10x average bandwidth and storage reduction over MJPEG
- Up to 8 concurrent non-identical streams with different frame rates, bit rates, resolutions and picture quality
- Maintain desired bandwidth and storage size
- Allows for compatibility with media players such as Apple QuickTime, Windows Media Player, VLC Player, etc.
- 1/2" CMOS Sensor
- Four times the resolution of IP VGA or analog cameras
- Up to 30fps in 1.3 megapixel mode
- Zoom live or after-event while recording full field of view in HD ... replace PTZ devices
- Less cameras to install, less wiring, no external power (POE), less NVR licensing fees
- Comparable cost to IP VGA & analog cameras
- Can be selected for either live viewing or archiving purposes
- Simultaneous full field of view and Region-of-Interest (ROI)
- Image cropping allows streaming of full density partial images
- On-camera motion detection
- Motorized IR Cut Filter (DN Version) and more

*The AV1305 series network camera is part of Arecont Vision's full line of H.264 megapixel cameras. This fully compliant implementation of H.264 (MPEG 4, Part 10) is capable of sustaining over 80 billion operations per second and maintaining full motion progressive scan 1280 x 1024 video at 30fps. Part of the MegaVideo® line of cameras, it offers bandwidth and storage efficiency of 10X greater on average over traditional megapixel counterparts.*

Learn more about our products at [www.arecontvision.com](http://www.arecontvision.com)

## Model Numbers:

- AV1305 - Color
- AV1305-AI - Color Auto-Iris
- AV1305DN - Day/Night

## Imaging

- 1.3 megapixel CMOS image sensor
- 1280(H) x 1024(V) pixel array
- 1/2" optical format
- Bayer mosaic RGB filter
- Minimum illumination of:
  - Color: 0.1 Lux @ F1.4
  - Day/Night: 0 Lux, IR sensitive
- Dynamic range 60 dB
- Maximum SNR 45 dB

## Full Field of View (FOV) Resolutions

- 1280(H)x1024(V) 1.3 megapixel
- 640(H)x512(V) 1/4 resolution

## Cropped Field of View Resolutions

- 1280x720 HDTV-720p
- 1024x768 XGA
- 800x600 SVGA
- 704x570 PAL
- 704x480 NTSC
- 640x480 VGA
- 352x288 CIF
- 320x240 SIF

## Data Transmission

- Data rate
  - up to 55Mbps
  - bit rate control from 100Kbps to 10Mbps
  - bit rate control available for full view, multi view, and archive
- Video frame rate up to:
  - 32fps @ 1280x1024
- Compression type
  - H.264 (MPEG4, Part 10)
  - Motion JPEG
  - 21 levels of quality
- TFTP, HTTP, RTSP image transmission protocols
- 100Base-T Ethernet Network Interface

## Programmability

- Auto Exposure (AE) and Gain Control (AGC) >120dB
- On-camera real-time motion detection with 64 detection zones
- Auto backlight compensation
- Auto multi-matrix white balance
- 50/60Hz selectable flicker control
- Electronic pan, tilt, zoom (PTZ)
- Electronic image flip - 180 degree rotation
- Resolution windowing down to 32x32 pixels window
- Programmable shutter speed to help control motion blur
- MoonLight™ mode - extended exposure and proprietary noise cancellation
- Programmable resolution, brightness, saturation, gamma, sharpness, tint
- Picture-in-Picture: simultaneous delivery of full field of view and zoomed images
- Bandwidth & storage savings by running at 1/4 resolution

## Electrical

- Opto-coupled alarm or trigger input, opto-coupled alarm and flash sync output
- Power over Ethernet (PoE): PoE 802.3af
- Power consumption 4 Watts maximum
- Optional DC AI connection (AV1305 - AI)

## Regulatory Approvals

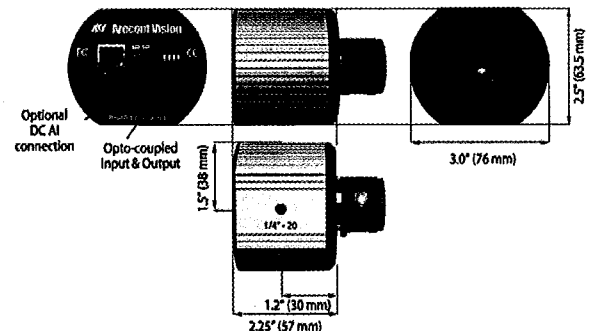
- FCC, CE and RoHS compliant

## Environmental

- Operating temperature 0°C (32 °F) to +50°C (122 °F)
- Storage temperature -20°C (-4 °F) to +60°C (140 °F)
- Humidity 0% to 90% (non condensing)

## Mechanical

- 3"W (76 mm) x 2.5"H (63.5 mm) x 2.25"D (57mm) (w/o lens)
- 8.6 oz (243 grams) (w/o lens)
- C/CS lens mount



## Housing Accessories:

- Dome 4-I - Indoor 4" Vandal Dome
- Dome 5-I - Indoor 5" Recessed Dome

## Lenses:

LENS 6.0	M1614-MP	H0514-MP
6mm MP Lens	16mm MP Lens	5mm MP Lens
M0814-MP	M2514-MP	LENS4-10
8mm MP Lens	25mm MP Lens	4-10mm MP Varifocal Lens
M1214-MP	15M5018-MP	LENS4-13
12mm MP Lens	50mm MP Lens	4.5-13mm MP Varifocal IR Lens

\* Other megapixel lenses are also available

**Arecont Vision**  
megapixel technology...  
**beyond imagination**

Revised on 09/24/08

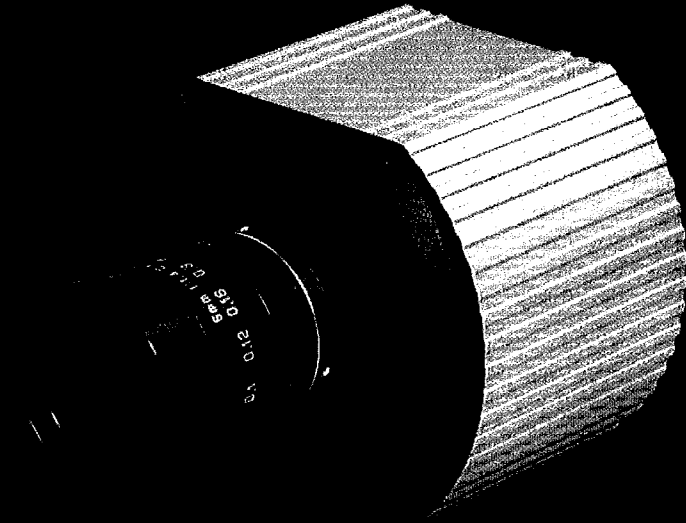
# AV3105

**Arecont Vision**  
megapixel technology...  
beyond imagination

AV3105 (Color)

AV3105DN (Day/Night)

AV3105-AI (Color Auto-Iris)



## Arecont Vision Advantages:

- 1.3 to 5 megapixels with no frame rate reduction
- Simultaneous support of both H.264 and MJPEG
- 10x average bandwidth and storage reduction over MJPEG
- Up to 8 concurrent non-identical streams with different frame rates, bit rates, resolutions and picture quality
- Maintain desired bandwidth and storage size
- Allows for compatibility with media players such as Apple QuickTime, Windows Media Player, VLC Player, etc.
- 1/2" CMOS Sensor
- Ten times the resolution of IP VGA or analog cameras
- Up to 15fps in 3 megapixel mode
- Zoom live or after-event while recording full field of view in HD ... replace PTZ devices
- Less cameras to install, less wiring, no external power (POE), less NVR licensing fees
- Comparable cost to IP VGA & analog cameras
- Can be selected for either live viewing or archiving purposes
- Simultaneous full field of view and Region-of-Interest (ROI)
- Image cropping allows streaming of full density partial images
- On-camera motion detection
- Mechanical IR Cut Filter (DN Version) and more

*The AV3105 series network camera is part of Arecont Vision's full line of H.264 megapixel cameras. This fully compliant implementation of H.264 (MPEG 4, Part 10) is capable of sustaining over 80 billion operations per second and maintaining full motion progressive scan 2048 x 1536 video at 15 fps. Part of the MegaVideo® line of cameras, it offers bandwidth and storage efficiency of 10X greater on average over traditional megapixel counterparts.*

## Model Numbers:

**AV3105 - Color**

**AV3105-AI - Color Auto-Iris**

**AV3105DN - Day/Night**

### Imaging

- 3 megapixel CMOS image sensor
- 2048(H) x 1536(V) pixel array
- 1/2" optical format
- 3.2 µm pixel pitch
- Bayer mosaic RGB filter
- Minimum illumination of:
  - Color: 0.2 Lux @ F1.4
  - Day/Night: 0 Lux, IR sensitive
- Dynamic range 60 dB
- Maximum SNR 45 dB

### Full Field of View (FOV) Resolutions

- 2048(H)x1536(V) 3 megapixel
- 1024(H)x 768(V) 1/4 resolution

### Cropped Field of View Resolutions

- 1920x1200 WUXGA
- 1920x1080 HDTV-1080p
- 1600x1200 2 MP
- 1280x1024 1.3 MP
- 1280x720 HDTV-720p
- 1024x768 XGA
- 800x600 SVGA
- 704x570 PAL
- 704x480 NTSC
- 640x480 VGA
- 352x288 CIF
- 320x240 SIF

### Data Transmission

- Data rate
  - up to 55Mbps
  - bit rate control from 100Kbps to 10Mbps
  - bit rate control available for full view, multi view, and archive
- Video frame rate up to:
  - 15fps @ 2048x1536
  - 20fps @ 1920x1200
  - 22fps @ 1920x1080
  - 24fps @ 1600x1200
  - 32fps @ 1280x1024
- Compression type
  - H.264 (MPEG4, Part 10)
  - Motion JPEG
  - 21 levels of quality
- TFTP, HTTP, RTSP image transmission protocols
- 100Base-T Ethernet Network Interface

### Programmability

- Auto Exposure (AE) and Gain Control (AGC) >120dB
- On-camera real-time motion detection with 64 detection zones
- Auto backlight compensation
- Auto multi-matrix white balance
- 50/60Hz selectable flicker control
- Electronic pan, tilt, zoom (PTZ)
- Electronic image flip - 180 degree rotation
- Resolution windowing down to 32x32 pixels window
- Programmable shutter speed to help control motion blur
- MoonLight™ mode - extended exposure and proprietary noise cancellation
- Programmable resolution, brightness, saturation, gamma, sharpness, tint
- Picture-in-Picture: simultaneous delivery of full field of view and zoomed images
- Bandwidth & storage savings by running at 1/4 resolution

### Electrical

- Opto-coupled alarm or trigger input, opto-coupled alarm and flash sync output
- Power over Ethernet (PoE): PoE 802.3af
- Power consumption 4 Watts maximum
- Optional DC AI connection (AV3105 - AI)

### Regulatory Approvals

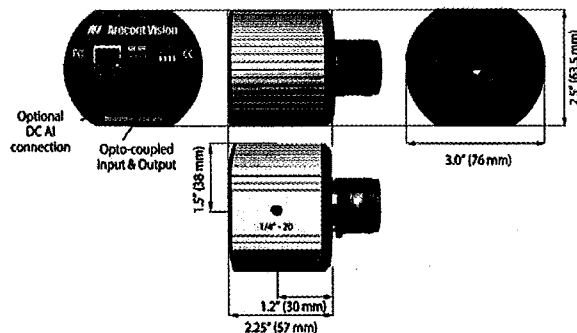
- FCC, CE and RoHS compliant

### Environmental

- Operating temperature 0°C (32 °F) to +50°C (122 °F)
- Storage temperature -20°C (-4 °F) to +60°C (140 °F)
- Humidity 0% to 90% (non condensing)

### Mechanical

- 3"W (76 mm) x 2.5"H (63.5 mm) x 2.25"D (57mm) (w/o lens)
- 8.6 oz (243 grams) (w/o lens)
- C/CS lens mount



### Housing Accessories:

- Dome 4-I - Indoor 4" Vandal Dome
- Dome 5-I - Indoor 5" Recessed Dome

### Lenses:

LENS 6.0 6mm MP Lens	M1614-MP 16mm MP Lens	H0514-MP 5mm MP Lens
M0814-MP 8mm MP Lens	M2514-MP 25mm MP Lens	LENS4-10 4-10mm MP Varifocal Lens
M1214-MP 12mm MP Lens	15M5018-MP 50mm MP Lens	LENS4-13 4.5-13mm MP Varifocal IR Lens

\* Other megapixel lenses are also available

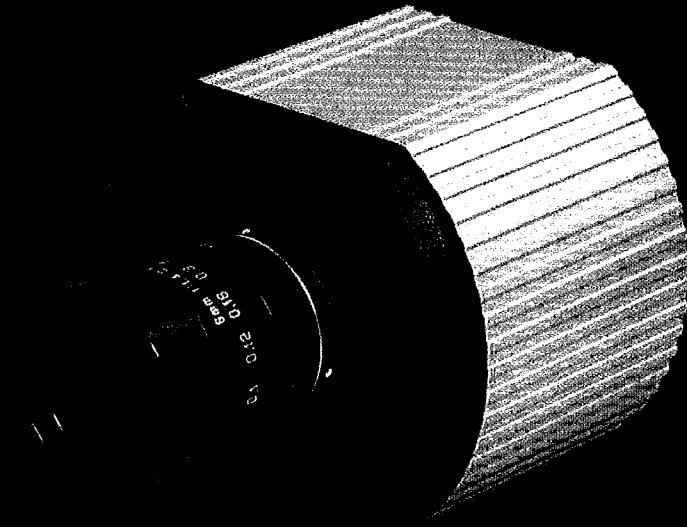
**Arecont Vision**  
megapixel technology...  
**beyond imagination**

Revised on 09/24/08

# AV5105

**Arecont Vision**  
megapixel technology...  
beyond imagination

AV5105 (Color)    AV5105DN (Day/Night)    AV5105-AI (Color Auto-Iris)



## Arecont Vision Advantages:

- 1.3 to 5 megapixels with no frame rate reduction
- Simultaneous support of both H.264 and MJPEG
- 10x average bandwidth and storage reduction over MJPEG
- Up to 8 concurrent non-identical streams with different frame rates, bit rates, resolutions and picture quality
- Maintain desired bandwidth and storage size
- Allows for compatibility with media players such as Apple QuickTime, Windows Media Player, VLC Player, etc.
- 1/2" CMOS Sensor
- Fifteen times the resolution of IP VGA or analog cameras
- Up to 9fps in 5 megapixel mode
- Zoom live or after-event while recording full field of view in HD ... replace PTZ devices
- Less cameras to install, less wiring, no external power (POE), less NVR licensing fees
- Comparable cost to IP VGA & analog cameras
- Can be selected for either live viewing or archiving purposes
- Simultaneous full field of view and Region-of-Interest (ROI)
- Image cropping allows streaming of full density partial images
- On-camera motion detection
- Mechanical IR Cut Filter (DN Version) and more

*The AV5105 series network camera is part of Arecont Vision's full line of H.264 megapixel cameras. This fully compliant implementation of H.264 (MPEG 4, Part 10) is capable of sustaining over 80 billion operations per second and maintaining full motion progressive scan 2592 x 1944 video at 9 fps. Part of the MegaVideo® line of cameras, it offers bandwidth and storage efficiency of 10X greater on average over traditional megapixel counterparts.*

Learn more about our products at [www.arecontvision.com](http://www.arecontvision.com)



## Model Numbers:

**AV5105 - Color**

**AV5105-AI - Color Auto-Iris**

**AV5105DN - Day/Night**

### Imaging

- 5 megapixel CMOS image sensor
- 2592(H) x 1944(V) pixel array
- 1/2" optical format
- 2.2 µm pixel pitch
- Bayer mosaic RGB filter
- Minimum illumination of:
  - Color: 0.3 Lux @ F1.4
  - Day/Night: 0 Lux, IR sensitive
- Dynamic range 60 dB
- Maximum SNR 45 dB

### Full Field of View (FOV) Resolutions

- 2592(H)x1944(V) 5 megapixel
- 1296(H)x968(V) 1/4 resolution

### Cropped Field of View Resolution

- 2048x1536 3MP
- 1920x1200 WUXGA
- 1920x1080 ADTV-1080p
- 1600x1200 2 MP
- 1280x1024 1.3 MP
- 1280x720 HDTV - 720p
- 1024x768 XGA
- 800x600 SVGA
- 704x570 PAL
- 704x480 NTSC
- 640x480 VGA
- 352x288 CIF
- 320x240 SIF

### Data Transmission

- Data rate
  - up to 55Mbps
  - bit rate control from 100Kbps to 10Mbps
  - bit rate control available for full view, multi view, and archive
- Video frame rate up to:
  - 9fps @ 2592x1944
  - 12fps @ 2560x1600
  - 15fps @ 2048x1536
  - 24fps @ 1600x1200
  - 30fps @ 1280x1024
- Compression type
  - H.264 (MPEG4, Part 10)
  - Motion JPEG
  - 21 levels of quality
- TFTP, HTTP, RTSP image transmission protocols
- 100Base-T Ethernet Network Interface

### Programmability

- Auto Exposure (AE) and Gain Control (AGC) >120dB
- On-camera real-time motion detection with 64 detection zones
- Auto backlight compensation
- Auto multi-matrix white balance
- 50/60Hz selectable flicker control
- Electronic pan, tilt, zoom (PTZ)
- Electronic image flip - 180 degree rotation
- Resolution windowing down to 32x32 pixels window
- Programmable shutter speed to help control motion blur
- MoonLight™ mode - extended exposure and proprietary noise cancellation
- Programmable resolution, brightness, saturation, gamma, sharpness, tint
- Picture-in-Picture: simultaneous delivery of full field of view and zoomed images
- Bandwidth & storage savings by running at 1/4 resolution

### Electrical

- Opto-coupled alarm or trigger input, opto-coupled alarm and flash sync output
- Power over Ethernet (PoE): PoE 802.3af
- Power consumption 4 Watts maximum
- Optional DC AI connection (AV5105 - AI)

### Regulatory Approvals

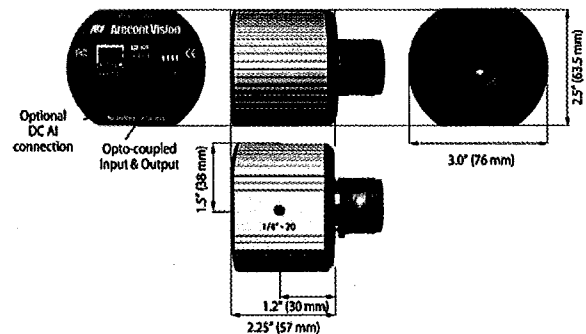
- FCC, CE and RoHS compliant

### Environmental

- Operating temperature 0°C (32 °F) to +50°C (122 °F)
- Storage temperature -20°C (-4 °F) to +60°C (140 °F)
- Humidity 0% to 90% (non condensing)

### Mechanical

- 3"W (76 mm) x 2.5"H (63.5 mm) x 2.25"D (57mm) (w/o lens)
- 8.6 oz (243 grams) (w/o lens)
- C/CS lens mount



### Housing Accessories:

- Dome 4-I - Indoor 4" Vandal Dome
- Dome 5-I - Indoor 5" Recessed Dome

### Lenses:

LENS 6.0 6mm MP Lens	M1614-MP 16mm MP Lens	H0514-MP 5mm MP Lens
M0814-MP 8mm MP Lens	M2514-MP 25mm MP Lens	LENS4-10 4-10mm MP Varifocal Lens
M1214-MP 12mm MP Lens	15M5018-MP 50mm MP Lens	LENS4-13 4.5-13mm MP Varifocal IR Lens

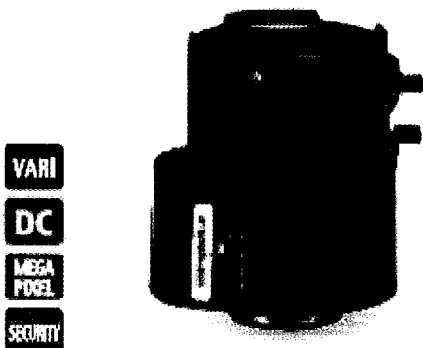
\* Other megapixel lenses are also available

**Arecont Vision**  
megapixel technology...  
beyond imagination

Revised on 09/24/08

## Computar HG2Z0414FC-MP Industrial/ Mega-Pixel C-Mount Lens

### Description of Computar HG2Z0414FCMP



The HG2Z0414FC-MP size of camera's imaging device also affects the angle of view, with the smaller devices creating narrower angles of view when used on the same lens. The HG2Z0414FCMP format of the lens, however is irrelevant to the angle of view, it merely needs to project an image which will cover the device, i.e.; the same format of the camera or larger.

The HG2Z0414FC MP focal length of the lens is measured in mm and directly relates to the angle of view that will be achieved. Short focal length provides wide angle of view and long focal length becomes telephoto, with narrow angle of view. A "normal" angle of view is similar to what we see with our own eye and has a relative focal length equal to the pick up device.

[Click Here for Price and Availability](#)

### Features of Computar HG2Z0414FC MP

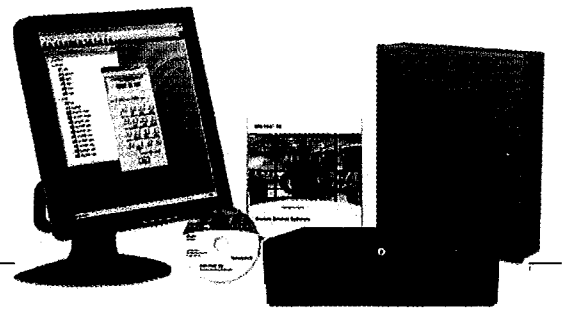
- Vari Focal Lens, DC Auto Iris, Mega Pixel, Security
- Focal Length 4-8mm
- F1.4 - 360C
- "1/2" Format

### Specifications of Computar HG2Z0414FC-MP

<b>Model No.</b>	<b>HG2Z0414FC-MP</b>
<b>Format (")</b>	<b>1/2</b>
<b>Mount</b>	<b>C</b>
<b>Focal Length (mm)</b>	<b>4-8</b>
<b>Aperture (F)</b>	<b>1.4-360</b>
<b>Angle of View (HOR)°</b>	<b>90.4-47.0</b>
<b>M.O.D. (m)</b>	<b>0.5</b>
<b>Effective Aperture Front (φmm)</b>	<b>22.2</b>
<b>Rear (φmm)</b>	<b>10.7</b>
<b>Front Filter Thread (φMxP=)</b>	<b>-</b>
<b>Dimensions</b> <small>(DxH)mm or (DxHxW)mm</small>	<b>φ 38.5x48x48.8</b>
<b>Weight (g)</b>	<b>75</b>

## WIN-PAK® SE with VISTA Integration

### Integrated Access Control Solutions



WIN-PAK® SE with VISTA Integration is the newest version of Honeywell's most comprehensive access control software. By combining the power of access control, digital video and intrusion into one powerful system, WIN-PAK SE with VISTA Integration improves scalability, capability and control.

WIN-PAK SE with VISTA Integration provides a single user interface that integrates access control with video and intrusion to create a more robust platform with increased functionality. Functions that have traditionally been tied together through physical relays and input devices are now controlled logically. This simplicity gives users greater control over their systems than they had using multiple software platforms and interfaces.

The ability to connect to remote systems will help dealers reduce service calls and increase response times. By using the direct command control or a virtual keypad, real time status and control can be displayed without having to send a technician. This is ideal for monitoring remote sites over long distances, as

well as managing multiple sites from a single location. WIN-PAK's integration simplifies the access process by allowing users to arm or disarm the system with a card. If a user is granted access to a building but does not have the authority to disarm the system, the integrated solution can deny access and therefore prevent a false alarm. This is an improvement over a typical non-integrated solution where devices are not aware of what other devices are doing.

Updated Quick Start Wizards make WIN-PAK easy to install and program. Installers and end users will find the Quick Start Wizards helpful in installation and programming the system. WIN-PAK offers advanced reporting capabilities that customers are demanding. Users can create customized reports or choose from a variety of predefined reports. E-mail capability has been added to allow reports and events to be sent via e-mail. Reports and events can be shown as easy-to-read text that provide all the content and detail that customers require.

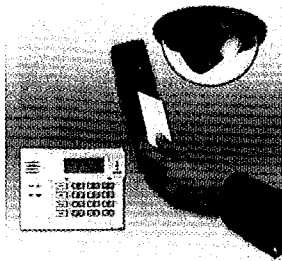
## FEATURES

- Integrate access control, digital video and intrusion integration using Honeywell's Rapid Eye™, Rapid Eye™ LT and Fusion DVRs, and VISTA-128FBP and VISTA-250FBP controllers
  - Arm or disarm with a card read
  - Record and playback access or intrusion events and alarms
  - Multiple camera control, including PTZ
  - Programmable camera presets
  - Synchronized video playback
  - Alarm video popup and user verification
  - Synchronized video playback with access or intrusion alarms or events
- Manage cardholders through multiple locations
- Available as single or five concurrent operator workstations
- Quick start setup and configuration wizards
- Real-time alarm/event monitoring
  - 99 priority levels
  - Control and response, including acknowledge, clear, annotate, live video, recorded video
  - Manual override, lock and unlock doors, shunt/unshunt zones and input points
- Manual override of system functions
  - Lock and Unlock doors
  - Arm/disarm partitions and zone
  - Bypass/Un-Bypass Zones
- Generate predefined or customized reports using easy templates
- Schedule e-mail or printed reports
- CCTV control interface to most popular matrix switchers
- Schedule guard tours
- Enhance elevator control
- Global anti-passback processing
- Content-sensitive help screens
- Dynamic floor plans
  - Control devices
  - Floor plan linking
  - Acknowledge/clear alarms
  - Visual feedback
- Operating systems supported: Windows Vista Enterprise, Windows Vista Business, Windows XP Professional SP2 and Windows 2003 Server

# WIN-PAK® SE with VISTA Integration

## Integrated Access Control Solutions

### BENEFITS



#### Seamless Integration

WIN-PAK SE with VISTA Integration brings together Honeywell's WIN-PAK access control system, VISTA intrusion control panel, Rapid Eye DVR and LobbyWorks™ Visitor Management System. The ability to integrate these technologies from one manufacturer now makes it easier for major enhancements to existing systems, or to significantly improve the operation of new security systems. This practically eliminates the confusion and compatibility issues brought on by different systems from many manufacturers.

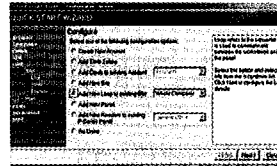
#### Enhanced Security

The integration to the Rapid Eye DVR extends storage space and facilitates easy identification, retrieval and playback of events and alarms. Access or intrusion events can be used to trigger cameras or recordings, and users can view live video or easily retrieve video playback of access or intrusion events directly within WIN-PAK SE.



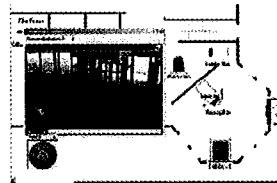
#### No Need to Retrain

WIN-PAK SE integrates with Honeywell products that have been trusted by customers for years. WIN-PAK, VISTA and Rapid Eye provide a familiar look and feel to existing installations and require little or no additional time for installation and programming.



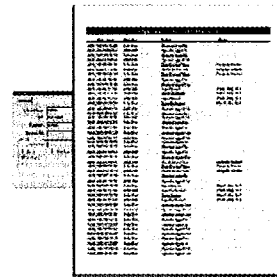
#### Fast and Easy Setup

Setup is quick and easy using the WIN-PAK SE quick start wizards. Wizards make programming simple by taking users step-by-step through installation and programming.



#### Increased Intrusion Function

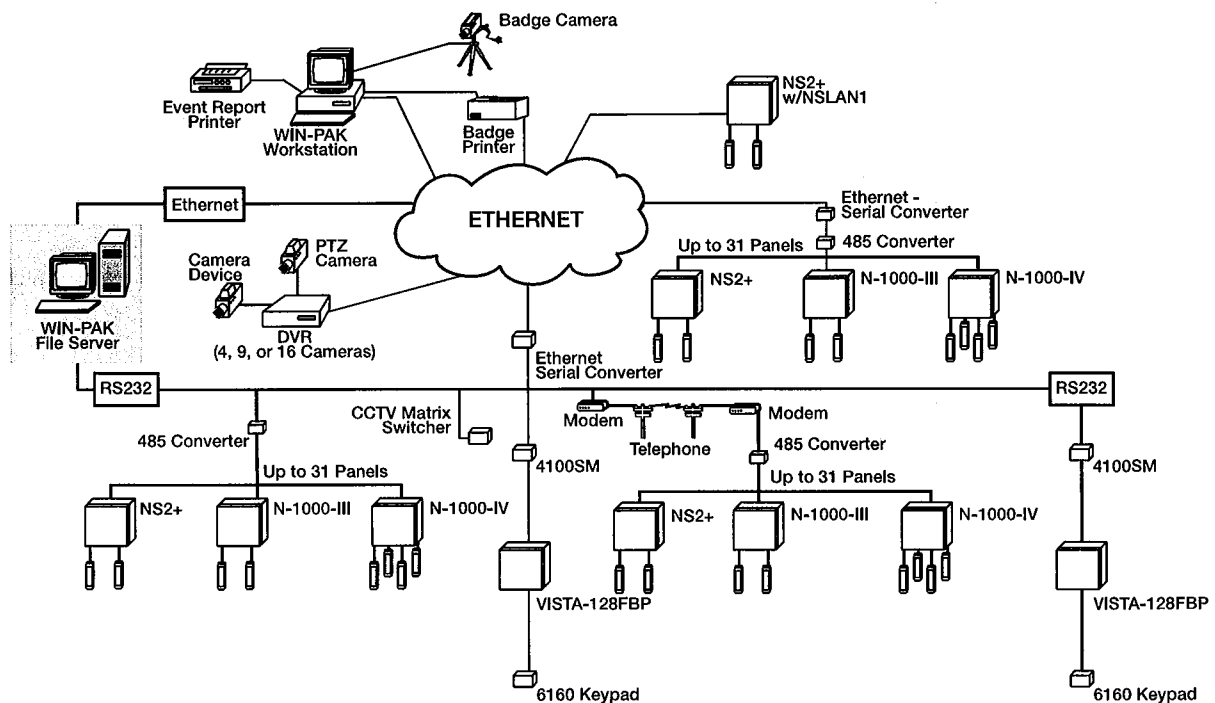
Add WIN-PAK SE to an existing VISTA-128FBP or VISTA-250FBP installation and take advantage of the powerful functionality of the software. Enhanced functions include dynamic graphical floor plans, customized report generation for intrusion events and user actions, on-screen virtual keypad, real-time event and alarm reporting, and more.



#### Reduce False Alarms, Unauthorized Access

WIN-PAK SE with VISTA Integration reduces unwanted alarms caused by improper keypad operation, incorrect codes or unauthorized access to sensitive areas. Reports can be generated to help businesses improve on their operating efficiencies.

### CONFIGURATION



## INTEGRATION CAPABILITIES

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Honeywell's innovative WIN-PAK SE with VISTA and Rapid Eye combines three leading products into a solution powerful enough to handle virtually any integrated security requirement. The unique combination of access control, video and intrusion also saves time and money by reducing training and labor.

### Key Integration Features

- Grant access and disarm system on valid card read
- Arm system on valid double card read
- View live video from up to 16 cameras simultaneously
- Valid/invalid cardholder verification
- Arm/disarm video verification
- Pop-up video on access or intrusion function
- Virtual alarm touchpad
  - View intrusion control panel status
  - Full keypad control through WIN-PAK software
- Live system control
  - Arm/disarm intrusion system
  - Multiple partition control
  - Bypass/unbypass doors
  - Live camera view, including PTZ

### Key Integration Benefits

- Save time and money by managing three separate systems with one easy-to-use software interface.
- Improve the level of security by eliminating user code sharing. Increase security by using a unique card to disarm a system and grant access at the door.
- WIN-PAK SE software interface allows users to retrieve and play back alarms associated with intrusion and access control.

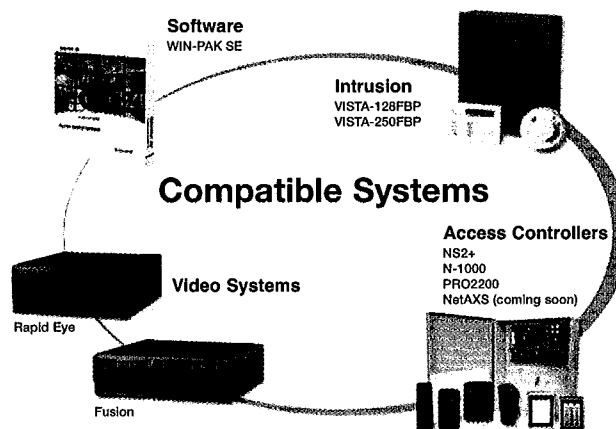
- Automated reporting allows users to send up-to-date reports on intrusion and access events hourly, daily, weekly or monthly.
- Reduce employee down-time by only requiring training on one system.
- Align WIN-PAK SE with VISTA Integration with existing system needs for an added level of security.
- Expand to meet current and future needs. Start with access and add video or intrusion later as requirements change.

### Typical Applications

- Office buildings
- Day care centers
- Pharmacies
- Light industrial
- Warehouses
- Schools/universities
- Hospitals/medical offices
- Restaurants
- Convenience stores
- Retail establishments

## SUPPORTED INTEGRATION DEVICES

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# WIN-PAK® SE with VISTA Integration

## Integrated Access Control Solutions

### ORDERING

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#### Software

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<b>WPSE</b>	WIN-PAK SE Access Control Software, 1 User
<b>WPSEU5</b>	WIN-PAK SE Access Control Software, 5 Users
<b>WPSEV</b>	WIN-PAK SE Access Control Software with VISTA Integration, 1 User
<b>WPSEU5V</b>	WIN-PAK SE Access Control Software with VISTA Integration, 5 Users

#### Upgrades

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<b>UWPPSE</b>	Upgrade WIN-PAK 2005 to WIN-PAK SE
<b>UWPSEV</b>	WIN-PAK SE VISTA Add-On, 1 User
<b>UWPSEU5V</b>	WIN-PAK SE VISTA Add-On, 5 Users
<b>UWPPEV</b>	WIN-PAK PE VISTA Add-On, Unrestricted Users

#### Integration Kits

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<b>WPAB1</b>	Access and Intrusion Integration Kit with WIN-PAK SE, NS2+, VISTA-128FBP, (2) OP30HONE, 6160, 4100SM, N-485-PCI-2 and Accessories
<b>WPAB2</b>	Access and Intrusion Integration Kit with WIN-PAK SE, NS2+, VISTA-128FBP, (2) OP30HONE, 6160, LAN Adaptors and Accessories
<b>WPAB3</b>	Access and Intrusion Integration Kit with WIN-PAK SE, NS2+, VISTA-250FBP, (2) OP30HONE, 6160, 4100SM, N-485-PCI-2 and Accessories
<b>WPAB4</b>	Access and Intrusion Integration Kit with WIN-PAK SE, NS2+, VISTA-250FBP, (2) OP30HONE, 6160, LAN Adaptors and Accessories
<b>WPAV1</b>	Access and Video Integration Kit with WIN-PAK SE, NS2+, VISTA-128FBP, (2) OP30HONE, LAN Adaptors, HRM60N1000 DVR and Accessories
<b>WPAV2</b>	Access and Video Integration Kit with WIN-PAK SE, NS2+, VISTA-128FBP, (2) OP30HONE, LAN Adaptors, HRM60CD1000 DVR and Accessories
<b>WPABV1</b>	Access, Intrusion and Video Integration Kit with WIN-PAK SE, NS2+, VISTA-128FBP, (2) OP30HONE, 6160, LAN Adaptors, HRM60N1000 DVR and Accessories
<b>WPABV2</b>	Access, Intrusion and Video Integration Kit with WIN-PAK SE, NS2+, VISTA-128FBP, (2) OP30HONE, 6160, LAN Adaptors, HRM60CD1000 DVR and Accessories

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Microsoft®, Microsoft Windows® NT, Windows® Server 2003®, Windows® XP and Windows® 2000 are registered trademarks of Microsoft Corporation.

For more information: [www.honeywellaccess.com](http://www.honeywellaccess.com)

#### Honeywell Security

Honeywell Access System  
2700 Blankenbaker Pkwy, Suite 150  
Louisville, KY 40299  
800-675-3364

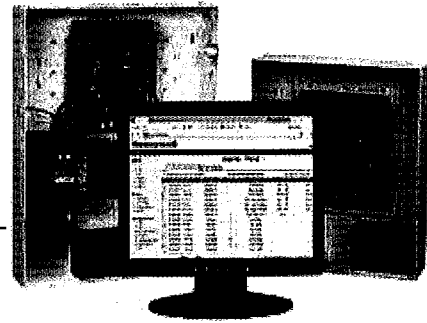
[www.honeywell.com](http://www.honeywell.com)

# Honeywell

L/WNPKVD/D  
March 2007  
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## NetAXS™

### Hybrid Access Control Panel



NetAXS™ gives users the flexibility to program and manage their system using an integrated Web-browser or through traditional PC-based access control software. The hybrid solution provides the best of both worlds by allowing customers to choose the level of security and functionality their business needs.

The embedded Web server lets users access and manage their information securely from any Web browser! Because multiple users can log in simultaneously using client-server architecture, NetAXS provides an inexpensive alternative to traditional PC-based systems.

Embedded Ethernet and secure communications ensures that NetAXS can work on new or existing IT infrastructures. The 10/100 Ethernet port ensures fast, reliable communications,

and all data is communicated over a Secure Socket Layer (SSL) encryption. NetAXS also withstands open-port and denial of service attacks, making it robust and secure in the IT world.

Built with the same robustness as the N-1000, NetAXS incorporates N-1000 capabilities with new functionality that customers need. Whether adding to an existing legacy system or replacing an old panel, NetAXS is designed to be backward compatible with most installations with little programming or wiring changes.

## FEATURES

- Four reader controller, expandable to 124 readers per Gateway controller
- 10,000 card memory
- 25,000 buffer capacity
- Eight SPDT, Form C relays rated at 12A@ 28-VDC, expandable to 72 total outputs per panel
- 14 supervised input points, expandable to 78 total inputs per panel
- Built-In Linux Web server
- Hybrid panel function
  - PC-based (WIN-PAK)
  - Web browser based (Internet Explorer/Netscape/Mozilla Firefox)
  - PC-based and Web based
    - Full control through PC
    - Monitor and view events through Web
    - Manually control doors, inputs and outputs
- Multiple communication options—RS232, RS485, Ethernet
- Built-In PCI interface (does not require 485PCI2 module)
- Drop-in compatibility with Legacy N-1000\* control panels
- 12VDC Battery Backup (Small)  
24VDC Battery Backup (Large)
- UL294 listing/CE Certification

\* Consult [www.honeywellaccess.com](http://www.honeywellaccess.com) for exact specifications. Not compatible with 20mA C-100-A1 interface, AEP-3 relay expanders, 10-wire matrix keypads and Inputs 15 and 16.

# NetAXS™

## Hybrid Access Control Panel

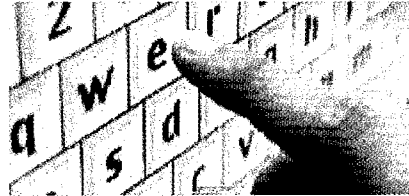
### BENEFITS

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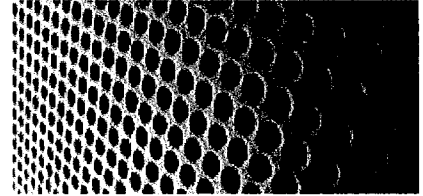
#### Innovative Technology

NetAXS is the only hybrid access control solution available in the industry today. It offers expandable capabilities that make it truly 'future-proof.'



#### Intuitive Interface

NetAXS is perfect for users who are new to access control. Simple programming and menu options are intuitive, reducing the learning curve.



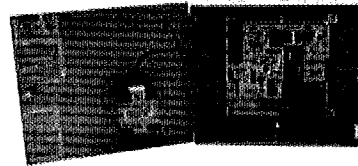
#### Simple Installation

The NetAXS large enclosure was designed for installers and features pre-wired power and connectors that allow installers to hang it up, plug it in, and go!



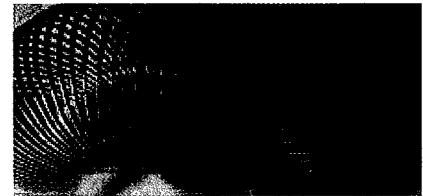
#### No Software Issues to Troubleshoot

Web-based access control is the ideal solution for customers who want to manage their own access control solution but want to avoid the issues associated with managing operating systems, software upgrades, and compatibility issues.



#### Legacy Compatible

NetAXS is the replacement to legacy N-1000 product. NetAXS offers the opportunity to expand most existing systems to take advantage of the latest technologies.



#### Flexible and Expandable

Customers can start with the Web. If their access control needs grow beyond the capability of the Web system, they can easily migrate to the WIN-PAK platform and expand their system further.

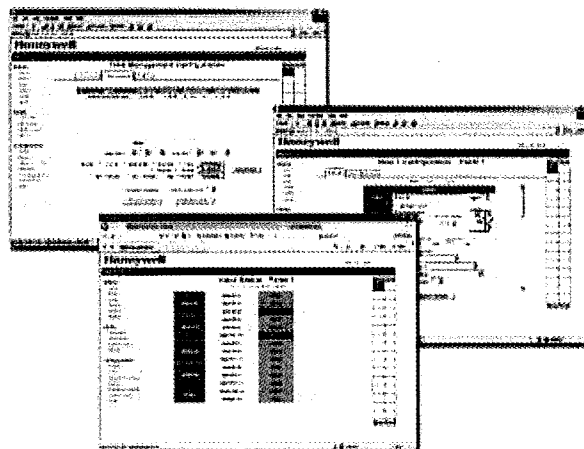
### INTEGRATED WEB SERVER

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#### Web capabilities

- Remote monitoring of alarms and events
- Detailed report viewer
- Manual control of readers, locks and other devices
- Multiple user connections per system
- Special functions:
  - N-Man rule
  - Supervisor rule
  - Escort rule
  - Limited use (number of uses or dates)
- Global time zones
- Automatic clock synchronization

NetAXS has a built-in Web server that allows users to access and manage their system from any Web browser.





# NetAXS™

## Hybrid Access Control Panel

### FEATURES

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#### Database

- Cardholders: 10,000 standard
- Unrestricted cardholders using host/grant (when connected to WIN-PAK)
- Transaction storage: 25,000 standard

#### Communication

- On-board Ethernet, RS485 and RS232
- Built-in RS485 PCI interface (No PC to panel converter required)
- RS485 for downstream I/O devices

#### System Overview

- Motorola 32-bit Coldfire processor
- Embedded Linux Web server
- Four reader controller, expandable to 124 readers per gateway controller
- 14 supervised input points, expandable to 64 inputs
- Eight relays, SPDT 12A @ 28 VDC, expandable to 64 outputs

- Flash programming for firmware revision updates
- Dedicated panel tamper alarm and power fail
- Real time clock: Geographic time zone support/daylight saving time

#### Embedded Web Browser

- Complete system programming from Web interface
- SSL – Secure Socket Layer Encryption
- Live event viewing
- Real-time manual system control
- Detailed report generator

#### Environment

- Temperature: 35-110°F (2-43°C) operational
- Humidity: 0 to 85% RHNC

#### Wire Requirements

- Ethernet – Category 5 cable
- Power - twisted pair, 18 AWG (recommended NC1821-OR, 1000 ft.)
- RS485 - 24 AWG, 4,000 ft./1,200m max, two twisted pair with shield (recommended NC2441-TN, 1000 ft.)
- Alarm input - twisted pair, 22 AWG 2000 ft. (recommended NC2221-BR, 1000 ft.)
- Reader - five wire, 18 AWG up to 500 ft. (152m) (recommended NC1861-BL-500)

#### Dimensions

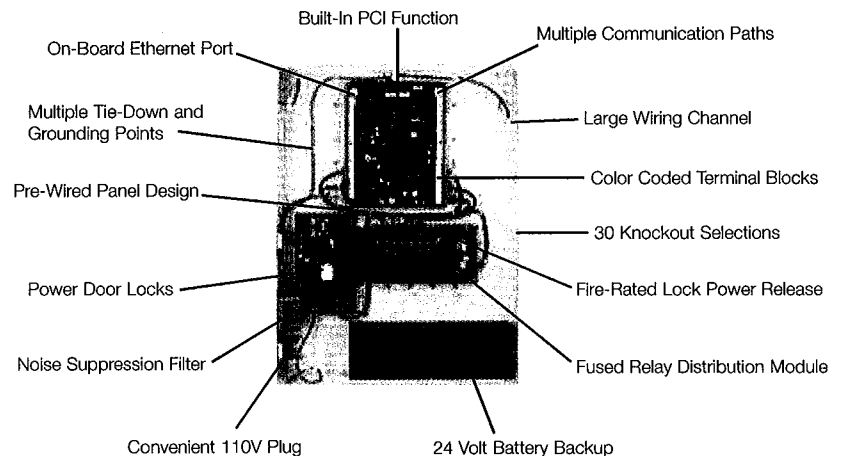
- Large Enclosure  
17.7" W x 23.9" H x 3.54" D  
(45.0 cm W x 60.7 cm H x 9.0 cm D)
- Small Enclosure  
14.5" W x 18.0" H x 4.4" D  
(36.8 cm W x 45.7 cm H x 12.0 cm D)

### EASE OF INSTALLATION

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#### NetAXS features two enclosure options:

- The **Large Enclosure** includes the access control board, power supply, distributed relay module and battery backup and is perfect for new installations. It provides a multitude of conveniences that make it simple for a new installer.
- The **Small Enclosure** incorporates the control panel and battery. It is ideal to upgrade an existing access control panel.



# NetAXS™

## Hybrid Access Control Panel

### ORDERING

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#### Control Panels

<b>NX4S1</b>	NX4 control panel with small enclosure, 16.5 VAC transformer, four surge suppressors, and 12 VDC, 7aH battery
<b>NX4L1</b>	NX4 control panel with large pre-wired enclosure, eight output fused relay board, 24 VDC, 6A power supply for panel and door lock power, four surge suppressors, and two 12 VDC, 7aH backup batteries
<b>NX4PCB</b>	NX4 control panel only

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#### Kits

<b>NX4OP30S</b>	Standalone Web controller with four OP30HONE proximity readers, small enclosure, NX4 Control panel, 16.5 VAC transformer, four surge suppressors, and 12 VDC, 7aH backup battery
<b>NX4OP30L</b>	Standalone Web controller with four OP30HONE proximity readers, large enclosure, NX4 control panel, eight output fused relay board, 24 VDC, 6A power supply, four surge suppressors, and two 12 VDC, 7aH backup batteries
<b>NX4OP40S</b>	Standalone Web controller with four OP40HONE proximity readers, small enclosure, NX4 Control panel, 16.5 VAC transformer, four surge suppressors, and 12 VDC, 7aH backup battery
<b>NX4OP40L</b>	Standalone Web controller with four OP40HONE proximity readers, large enclosure, NX4 control panel, 8 output fused relay board, 24 VDC, 6A power supply, four surge suppressors, and two 12 VDC, 7aH backup batteries

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#### Accessories

<b>NX4IN</b>	NetAXS input module with 32 general purpose inputs with programmable circuit types. Up to two NX4IN per NX4 control panel.
<b>NX4OUT</b>	NetAXS 16 output relay board with 16 general purpose 2A @ 30 VDC Form-C output relays. Up to four NX4OUT per NX4 control panel.
<b>NX4AEP</b>	NetAXS accessory enclosure with 24 VDC Power Supply with room for (2) accessory modules (NX4IN and/or NX4OUT)

#### For more information:

[www.honeywellaccess.com](http://www.honeywellaccess.com)

#### Honeywell Security

Honeywell Access System  
2700 Blankenbaker Pkwy, Suite 150  
Louisville, KY 40299  
800-675-3364

[www.honeywell.com](http://www.honeywell.com)

# Honeywell

L/NETAXSD/D  
August 2007  
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# Honeywell

## ADEMCO 4100SM Serial Interface Module

### INSTALLATION AND SETUP GUIDE

#### GENERAL INFORMATION

The 4100SM Serial Interface Module can be used as any of the following:

- A direct-wire downloading device that is used in conjunction with the Compass downloading software to program compatible control panels without having to use a modem or telephone line. This is done by either connecting the 4100SM to the serial port of a PC or to a GSM communicating unit.
- An interface device that is used to connect a serial printer or a PC using the Honeywell Navigator Reporter software to control panels that feature event logging with printer output capabilities.
- An interface device that is used to connect a control panel to 3rd party Home/Facility Automation hardware and software.

The downloading function is applicable in UL listed installations only when someone is present at the site while the downloading. However, the 4100SM is UL Listed for use as an interface to an event logging printer.

The 4100SM is packaged with everything that is needed to connect the RS-232 serial port of most IBM-compatible fixed or portable PCs to the control panel. This includes:

- 1.5-foot alligator clip leads (4)
- 4142TR voltage trigger cable (9 pos.)
- 10-foot DB25 male to DB25 male RS-232 serial cable
- DB25 female to DB25 female RS-232 gender changer
- DB25 male to DB25 female null modem adapter
- DB25 female to DB9 female adapter
- Bracket and insulator

**Important:** Check your control panel's installation instructions to verify that your software supports the feature and any programming options that may need to be set for proper operation. Also, verify that you have downloading software that supports direct-wire downloading for the control panel you are programming.

#### INSTALLATION AND OPERATION INSTRUCTIONS

##### Direct-Wire Downloading Connections to a PC

Direct-wire downloading can be accomplished either by connecting the 4100SM to the serial port of a PC or to the programmer port of an IP or GSM type module.

##### Connections to a PC

Direct-wire downloading connections are made to a header on the control panel's circuit board via the supplied 4142TR voltage trigger cable.

As shown in Figures 1 and 2, terminals 3, 6, 7, and 8 on the 4100SM are used. The three colored terminals (red, blue, and white) must be left uncut for direct-wire downloading applications. Most IBM-compatible PCs have two RS-232 serial ports (COM1 and COM2).

You must decide which serial port you want to use, and then determine which type of connector (DB25 female, DB25 male, DB9 male, or USB) is provided for that port.

Refer to the following table for instructions on how to connect each type of PC connector.

Type of PC Connector	Connection Instructions
DB25 female connector	Use the RS-232 cable to make connections between the serial module and the PC serial port.
DB25 male connector	Use the RS-232 cable and gender changer to make connections.
DB9 male connector	Use the RS-232 cable and DB9/DB25 adapter to make connections.
USB Port	Use a USB to serial converter to make connections.

**NULL MODEM NOTE:** The 4100SM requires that your PC have a DTE pinout in order to communicate properly. Check the documentation supplied with your PC to determine if the connector for the serial port you have chosen has a DTE pinout (meaning that your PC transmits data on pin 2 and receives data on pin 3) or a DCE pinout (meaning that your PC transmits data on pin 3 and receives data on pin 2). If your PC connector has a DCE pinout, you must attach the supplied null modem adapter to the RS-232 cable to ensure proper pin connections.

If you are not sure whether your serial port is DTE or DCE, assume that it is DTE. If a problem occurs, refer to the "In Case of Difficulty" section of this document.

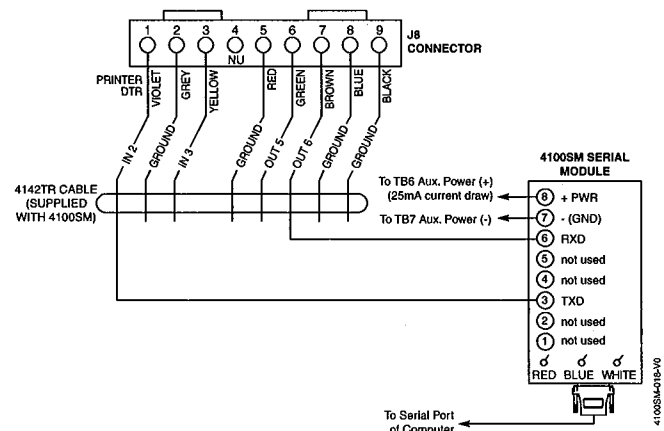
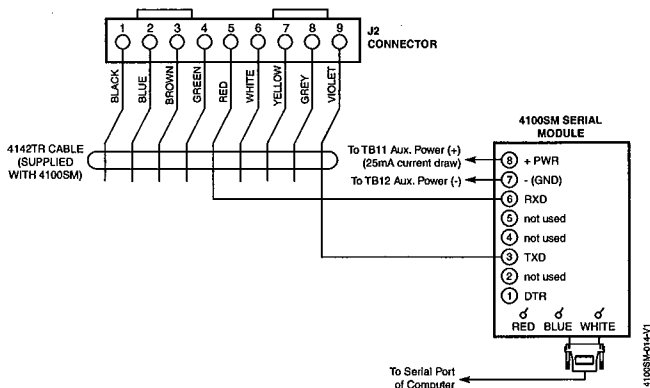


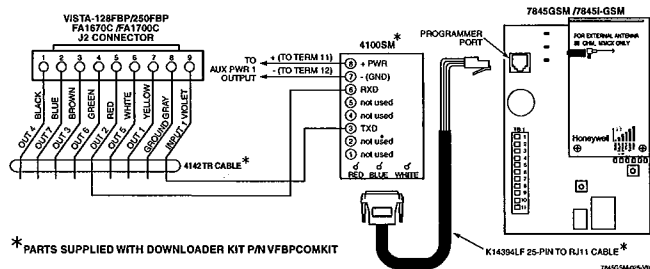
Figure 1. Direct-Wire Connections for VISTA-BP and FA1660C Control Panels



**Figure 2. Direct-Wire Connections for VISTA-FBP, FA1670C and FA1700C Control Panels**

### Connections to an IP or GSM Type Module

The 4100SM is required to interface the VISTA-FBP, FA1670C or FA1700C control panel to an IP or GSM type communicating unit. The 4100SM connects to the control panel's circuit board via the supplied 4142TR voltage trigger cable. As shown in Figure 3, terminals 3, 6, 7, and 8 on the 4100SM are used. The 4100SM DB25 serial port connects to the Programmer Port of the GSM communication unit. The purchase of the VFBPCOMKIT is required.



**Figure 3. Direct-Wire Connections for an IP or GSM Type Communication Units**

### Checking Your Downloading Software

Before using the 4100SM for direct-wire downloading, the downloading software must be checked to ensure it is configured to enable direct-wire operation. To check the software, proceed as follows:

1. Enter the SETUP screen on the PC (only the Master User can do this).
2. Click on COMM LINK, near the top of the screen.
3. Hit the [+] key until the screen displays "DIRECT WIRE/TELCO."
4. Check that the COMM PORT matches the port you intend to use. Hit the [ESC] key to exit the SETUP SCREEN.

### Using the 4100SM for Direct-Wire Downloading

To use the 4100SM for direct-wire downloading, proceed as follows:

1. Make connections described previously in this document.

2. Apply power to the control panel and verify that the default message (typically "DISARMED - READY TO ARM") is displayed.
3. Start up the downloading software on your PC, and verify that the main menu is displayed.
4. Make sure that the downloading software is configured to operate using the serial port (COM1 or COM2) that you selected earlier.

If you have an internal modem, the serial port must be changed every time you change from modem to direct-wire operation.

**NOTES:** The control panel will not function as an alarm system while the direct-wire downloading mode is active unless you are using a Commercial Fire Alarm system.

5. At the downloading PC, select the file and control account information to be downloaded.
6. Select the DIRECT-WIRE option from the COMM menu and hit [Enter].

If the selected panel type does not allow direct-wire operation, the DIRECT-WIRE option will not be displayed.

7. Select the FIRST COMMUNICATION option, if required. Then press the [Enter] key.

The "START COMMUNICATION" message will begin to blink.

8. Go to the nearest control keypad and enter the Installer Code + [#] + [5].

The letters "CC" should appear on the fixed-word keypad display ("MODEM COMM" on the alpha keypad display) to confirm that the direct-wire downloading mode is in effect.

The control panel will continuously and indefinitely monitor the keypad terminals for a handshake signal from the downloading PC. (This mode may be cancelled by entering an Installer Code + [OFF] sequence.)

9. Press the [Enter] key on the PC.

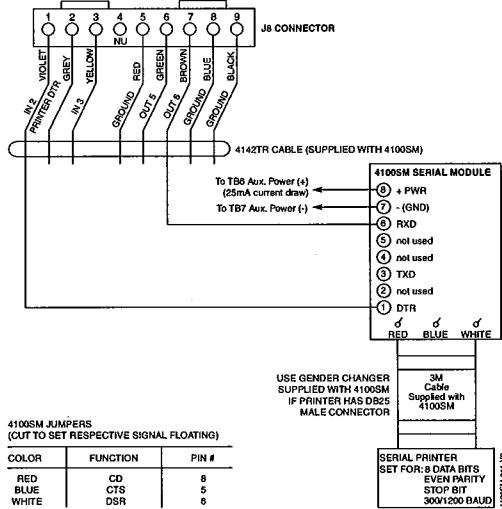
The PC will display a "REQUESTING SESSION" message and commence a direct-wire downloading session. At this point, you may do an upload, download, or any other PC operation in the same manner that you would if a remote connection via the telephone line were used. The communications will take place at a much higher speed, however. The control will automatically return to normal alarm system function when the downloading session is completed.

### Serial Printer and Navigator Reporter Connections

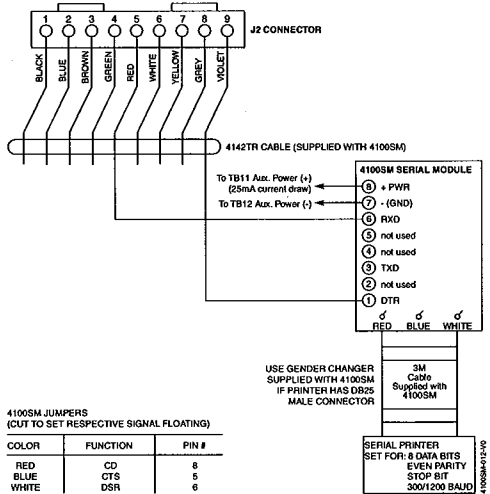
The 4100SM can be used to connect the control panel to a serial printer or to a PC using the Honeywell Navigator Reporter software to print the Event Log. The 4100SM connects to the control panel's circuit board via the supplied 4142TR voltage trigger cable. As shown in Figures 4 and 5, terminals 1, 6, 7, and 8 on the 4100SM are used. The colored jumpers may need to be cut, depending on the serial printer being used. See note 3 below for details. The connections shown in Figures 4 and 5 are the same for the printer and the PC.

**NOTES:**

1. If Earth Ground Fault Sensing is enabled in the control panel you may get an earth ground fault indication if you use a printer (or PC) which has a 3 prong grounded power cord.
2. The 4100SM is supplied with a 10-foot RS-232 cable. A longer cable or extension cable can be used if the 4100SM and the printer are separated by more than 10 feet, but the total cable length should be less than 50 feet.
3. Most printers either ignore the CTS, DSR and CD signals, or require them to be high (i.e., 3-15VDC as measured on RS-232 DB25 connector pins 5, 6, & 8 respectively with respect to ground pin 7). The 4100SM Module sets these pins high. If the printer being used will not operate with these pins high, then clip the blue (CTS), white (DSR) or red (CD) jumpers on the 4100SM module to set the corresponding signal floating. Important pins on the RS-232 cable are pin 3 (data out), pin 7 (ground), and pin 20 (DTR - ready).



**Figure 4. Printer Connections for VISTA-BP and FA1660C Control Panels**



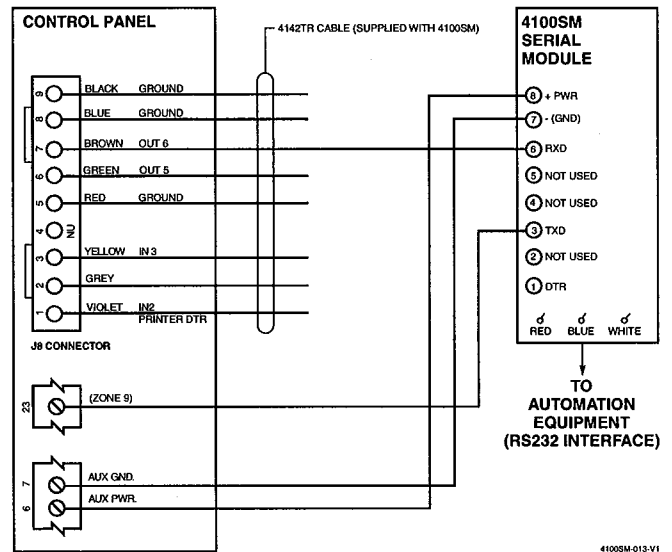
**Figure 5. Printer Connections for VISTA-FBP, FA1670C and FA1700C Control Panels**

**Home/Facility Automation Connections**

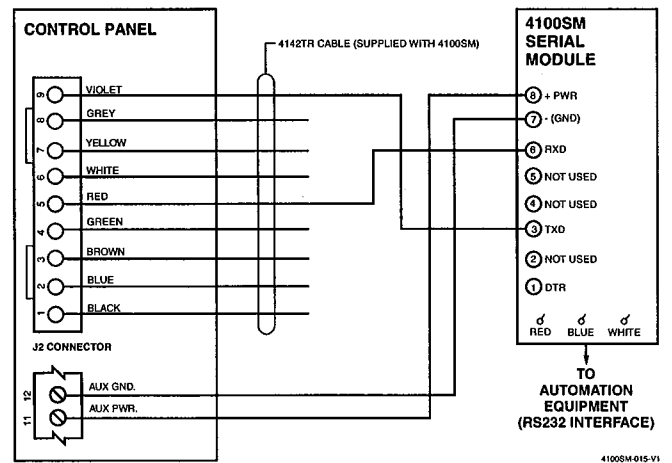
The 4100SM can be used to connect the control panel to 3rd party Home/Facility Automation hardware and software. The 4100SM connects to the control panel's circuit board via the supplied 4142TR voltage trigger cable. As shown in Figures 6 and 7, terminals 3, 6, 7, and 8 on the 4100SM are used.

**NOTES:**

1. The distance between the 4100SM and the control panel cannot exceed the length of the 4142TR Trigger Cable.
2. The maximum distance between the 4100SM and the 3rd party Home/Facility Automation hardware is 50'. If shielded wire, wire in conduit, or Cat 5 unshielded is used, the maximum distance is 25'.



**Figure 6. Home/Facility Automation Connections for VISTA-BP and FA1660C Control Panels**



**Figure 7. Home/Facility Automation Connections for VISTA-FBP, FA1670C and FA1700C Control Panels**

## In Case of Difficulty

Check that the COM port you are using matches the COM port selected in the SETUP screen.

The null modem adapter may be required to match the outputs of your computer's serial port to the 4100SM. To determine if this is necessary, proceed as follows:

1. Connect the 4100SM to the control panel and to your PC as described previously in this document. Do not attach the null modem adapter.
2. Connect a DC voltmeter, set to a 15-volt (or higher) range, across the black wire on 4100SM terminal 7(-), and the wire on terminal 3(+). No voltage should be seen at this time. If a voltage is found, check the connections between the control and the 4100SM.
3. Go to the COMM screen after selecting DIRECT WIRE and hit the [ENTER] key two times until the REQUESTING SESSION message appears. At this time, the meter reading should jump to approximately 12 volts for few seconds and then return to zero. If this does not occur, there is a possibility that the transmit and receive pins on the computer are reversed. Insert the Null Modem adapter supplied and try again.

## SPECIFICATIONS

### Physical

4" W x 2-3/4" H x 3/4" D (102mm x 70mm x 19mm)  
...approximately

### Electrical

Input Power: 12VDC, 25mA from control's keypad power (red wire) connection

### RS-232 Interface:

DB25 female with DCE output

## LIMITED WARRANTY

Honeywell International Inc., acting through its Security & Custom Electronics business ("Seller") 165 Eileen Way, Syosset, New York 11791, warrants its product(s) to be in conformance with its own plans and specifications and to be free from defects in materials and workmanship under normal use and service for 24 months from the date stamp control on the product(s) or, for product(s) not having a manufacturer's date stamp, for 12 months from date of original purchase unless the installation instructions or catalog sets forth a shorter period, in which case the shorter period shall apply. Seller's obligation shall be limited to repairing or replacing, at its option, free of charge for materials or labor, any product(s) which is proved not in compliance with Seller's specifications or proves defective in materials or workmanship under normal use and service. Seller shall have no obligation under this Limited Warranty or otherwise if the product(s) is altered or improperly repaired or serviced by anyone other than Honeywell factory service. Connection of any device(s) to a communicating bus of a Honeywell security system (e.g., keypad bus, polling loop) other than those manufactured or approved by Honeywell shall void this warranty. For warranty service, return product(s) transportation prepaid, to Honeywell Factory Service, 165 Eileen Way, Syosset, New York 11791.

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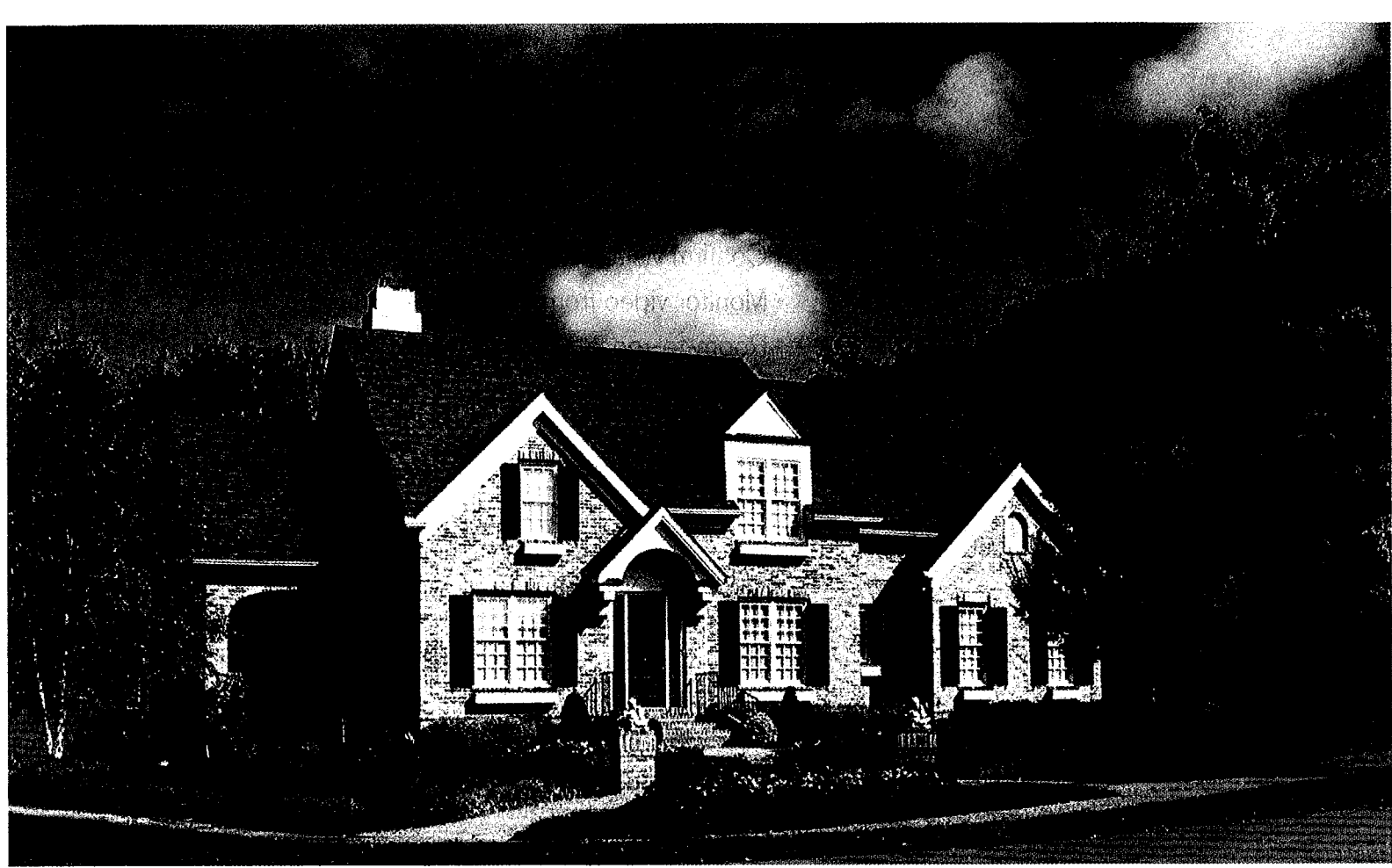
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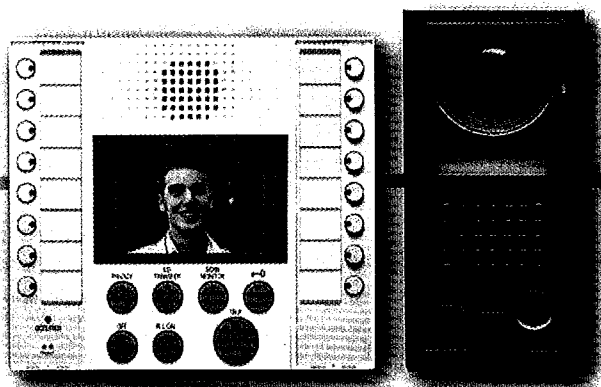


N5391V3 07/06 Rev A



# Residential AX Series

## Communication/Monitor System



*CAT-5e wired*

 **AIPHONE®**

DOORS 8 MASTERS 8

# Residential AX Series Communication/Monitor System

CAT-5e wired

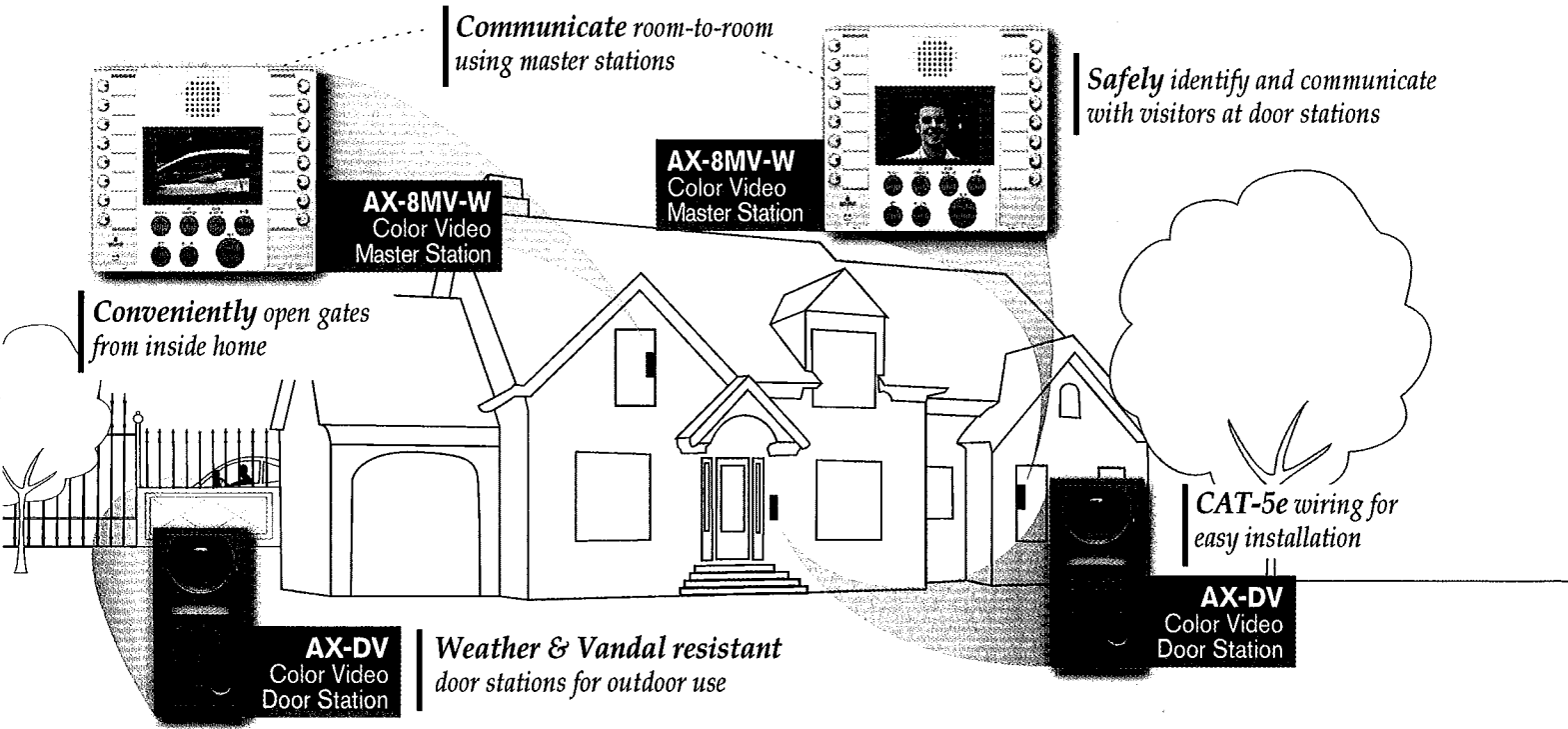
- Confirm visitor identity
- Monitor video from cameras
- Room-to-room communication
- Baby/Room monitoring
- Up to 8 inside master stations and 8 door station/CCTV camera combinations

**Identify visitors...**  
*while at home or away.*

Door call-in may be set to **forward** to any telephone number.



(master stations also available in black)



Read more about this system at [www.aiphone.com/AX.htm](http://www.aiphone.com/AX.htm)

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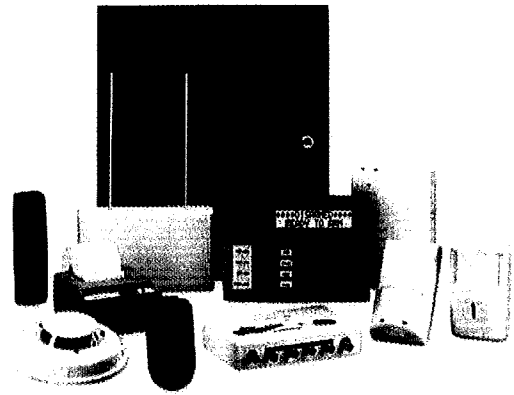
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## VISTA-250FBP/V250FBP-24

### COMMERCIAL FIRE AND PARTITIONED BURGLARY ALARM PLATFORM



Designed to integrate seamlessly with CCTV, access control and Honeywell's full range of fire and burglary components, the new VISTA-250FBP provides the ultimate protection of life and property. The UL listed Commercial Fire and Burglary Control Platform controls up to eight partitions and supports up to 250 zones/points using hardwired, wireless and V-Plex addressable technologies. A diverse line of Honeywell initiating devices, notification circuits, digital dialers, keypads,

RF receivers and relays are supported by this extremely powerful control platform. The VISTA-250FBP has been designed to mount quickly and easily in an attack resistant cabinet, and is available in 12V and 24V models. A revolutionary new feature called Panel Linking allows multiple partitions, panels and even buildings, to be armed, disarmed or have status checked...from one location!

## FEATURES

- Comes standard with eight hardwired zones, expandable to 242 V-Plex addressable points/zones or 250 wireless points/zones
- Can control eight separate areas independently (eight partitions)
- Supports Panel-Linking: Allows up to eight systems or buildings to be controlled from one central location (using VA8200)
- Supports Commercial UL Wireless Fire and Burglar
- Stores up to 1,000 events and can accommodate 250 user codes
- Supports V-Plex addressable VistaKey access control (up to 15 doors and 500 cards)\*
- Supports up to 16 doors of access control using Vista Gateway Module (VGM)\*
- Supports CCTV applications with the new VistaView-100 CCTV Switcher Module
- Identifies the point or zone of a fire or alarm using the new FSA-8/FSA-24 Fire System Annunciator
- Two on-board notification (bell) circuits delivering 2.3A @ 12V or 3.4A @ 24V
- Automatic smoke detector sensitivity maintenance testing
- Four-wire smoke reset using onboard J2 output trigger
- Supports Dynamic Signaling for long range radio backup
- Supports remote control via the Internet\*\*
- Supports Internet Alarm Reporting\*\*
- Supports Graphical User Interface consoles
- Supports Alphanumeric Pager: up to eight different numbers using the VA8201
- Notification Appliance Circuits (two):
  - Programmable
  - Temporal code compliant
  - Individually silenceable
- Programmable on-board auxiliary relay
- SIA false alarm reduction features:
  - Exit error logic
  - Exit delay reset
  - Cross zoning
  - Call waiting defeat
  - Recent close report
- Supports commercial hardwired, addressable polling loop and wireless zones
- Hardwired zones:
  - Provides eight style B hardwired zones
  - Supports N.O. or N.C. sensors
  - Individually assignable to any partition – Up to 32 two-wire smoke detectors each on zones one and two (64 total)
  - Up to 50 two-wire glassbreak detectors on zone eight
  - EOLR supervised for Fire and UL burglary installations

\* Connects to Honeywell Access' PassPoint Access Control Systems. Maximum 32 doors.

\*\* When used with AlarmNet-i.

# VISTA-250FBP/ V250FBP-24

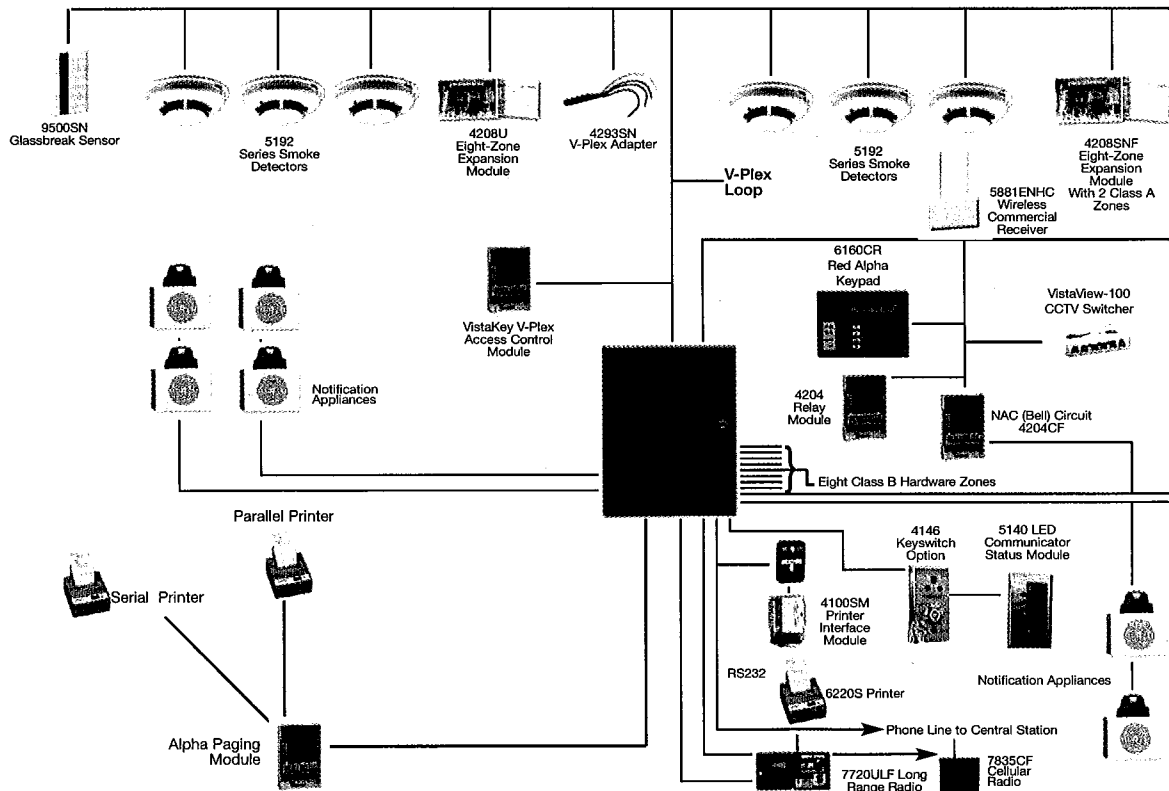
## COMMERCIAL FIRE AND PARTITIONED BURGLARY ALARM PLATFORM

### ADDITIONAL FEATURES

- Patented addressable polling loop technology
  - Supports 242 two-wire zone points
  - Global polling technology for faster processing
  - Increased current draw capacity (128mA)
- Supervised by panel
  - Individually assignable to partitions, notification circuit (bell) output or auxiliary relay
  - 4,000 ft. capability without the use of shielded cable
  - Extender/Isolation bus module
  - Two-wire smoke detector zone/group expansion module adds two or four zones
  - Eight zone – Class A and B extender module
  - Eight zone – Class B extender module
  - One zone supervised contact monitor module
- UL Listed wireless expansion
  - Supports up to 250 wireless zones/points using 5881ENHC Receiver
- Supervised by control for check-in signals
- Tamper protection for transmitters
- Individually assignable up to eight partitions
- Supports UL864/NFPA approved wireless smoke detectors
- Access Control Integration
  - Full integration with PassPoint Access Control System
- Up to 15 doors using VistaKey Access Control
- Event reporting
- Local printer of access or VISTA related event
- Scheduled uploading of events to the central station
- Stored events for one call retrieval
- Communication
  - Phone mapping by zone response type
  - Supports VIP Interactive Phone Voice Module
- Panel operation during download
- Uploading equipment list to the central station
- Communication to PassPoint via VISTA Gateway Module
- CCTV integration
  - Supports VistaView-100 ECP based CCTV switchers

### Applications

Supported by a diverse line of Honeywell initiating devices, the powerful VISTA-250FBP is the ideal integrated fire and burglary control for applications where a higher level of security is necessary. Some examples of applications include: medical and professional buildings, supermarkets, churches, synagogues, schools, universities, strip malls, factories, warehouses, and larger residences.



# SPECIFICATIONS

## Installation

The VISTA-250FBP alarm system has been designed to mount both quickly and easily. It meets all applicable requirements for UL commercial fire and burglary installations.

## Electrical

- Primary power: 18VAC @ 72VA ADEMCO No. 1451
- Control Panel quiescent current draw: 300mA
- Backup battery:
  - 12VDC, 12AH min to 34.4AH max
  - Lead acid battery (gel type)
- Alarm power: 12VDC, 1.7A max for each notification (bell) circuit output  
Total 2.3A @ 12V
- Aux. standby pwr: 12VDC, 1A max
- Total power: 2.3A at 12VDC, 3.4A at 24VDC from all sources
- Standby time: 24 hours with 1A standby load using 34.4AH battery

- Fusing: Battery input, aux. and notification (bell) circuit outputs are protected using PTC circuit protectors. All outputs are power limited
- Optional 24-volt power supply, PS 24 supplies two 24 VFW, 1.7A full wave rectified, unfiltered outputs

## Main Dialer

- Line seize: Double Pole
- Ringer equiv.: 0.7B
- Formats: ADEMCO Low Speed, ADEMCO 4+2 Express, ADEMCO High Speed, ADEMCO Contact ID, Sescoa and Radionics
- Dual phone line capability (using 5140DLM module)

## Cabinet Dimensions

- 18" H X 14.5" W X 4.3" D

## Environmental

- Storage temp: 14° F to 158° F (-10° C to 70° C)
- Operating temp: 32° F to 122° F (0° C to 50° C)

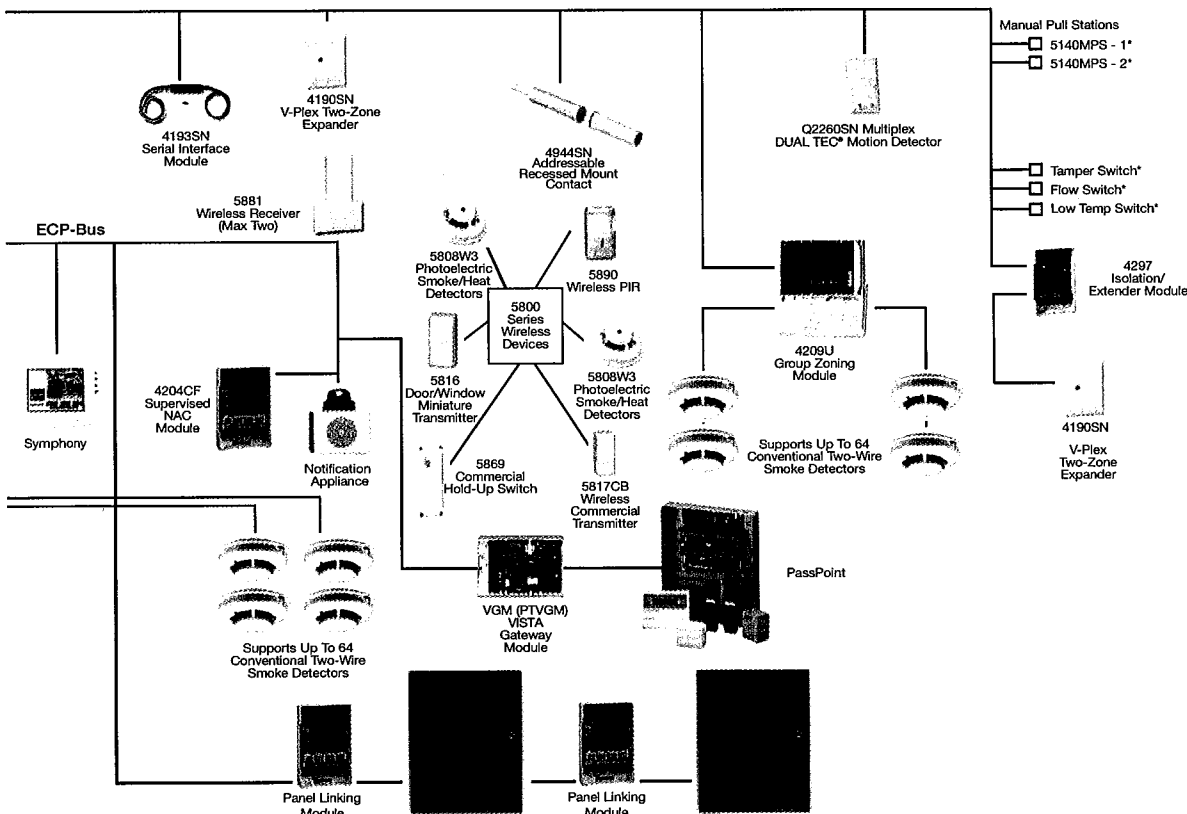
- Humidity: 85% RH
- EMI: Meets or exceeds the following requirements:
  - FCC Part 15, Class B Device
  - FCC Part 68
  - IEC EMC Directive

## Agency Listings Burglary

- UL609 Grade A Local Mercantile Premises and Mercantile Safe and Vault
- UL611/1610 Grades A, AA, Central Station
- UL365 Grades A, AA Police Connect

## Fire

- UL864/NFPA72 Local, Central Station and Remote Station
- Factory Mutual
- California State Fire Marshal
- MEA
- UL985



# VISTA-250FBP/V250FBP-24

COMMERCIAL FIRE AND PARTITIONED BURGLARY ALARM PLATFORM

## SPECIFICATIONS

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### Auxiliary Devices

- 4204 – Relay Module, four form C contacts
- 4204CF – Two supervised output circuits
- 5881 Series – RF receiver supporting 5800 wireless detectors
- 6220S – System printer used with 4100SM serial module
- 6160CR – Red Alpha Keypad
- FSA-8 & FSA-24 annunciator modules
- VA8200 – (PLM) Panel Linking Module
- VA8201 – (APM) Alpha Paging Module

### Two-Wire Smoke Detectors Conventional

- System Sensor smoke detectors

### Horn/Strobes

- System Sensor Notification Appliances

### Manual Pull Stations

- 5140MPS-1      • 5140MPS-2

### V-Plex (Addressable) Devices

- 4101SN Single Relay/Zone Module
- 4190SN Remote Point Module – two zones
- 4193SN Two Zone Serial Interface Module
- 4208SNF Class A/B Expander Module
- 4208U Loop Expansion Module – eight zones
- 4209U Group Zoning Module – two/four zones
- 4293SN One Zone Serial Interface Module
- 4297 Isolation/Extender Module
- VSI Module

### V-Plex (Addressable) Smoke Detectors

- 5192SD              • 4192SD
- 4192CP             • 192SDT
- 4192SDT           • 4192CPM
- 4192SDTM

### V-Plex Passive Infrared Detectors

- 998MX              • 4275EX-SN
- 4278EX-SN

### V-Plex (Addressable) Contacts

- 4939SN-WH       • 4944SN-WH
- 4959SN

### V-Plex Glassbreak Detectors

- FG1625SN

### VISTA Interactive Phone Module

- 4286 Voice Module

### Optional 24V Power Supply

- PS24 – 24V power supply – 3.4A

### Long Range Radio

- Long Range Radio 7720ULF-XX, 7835C, 7835CF, 7845C

### Upgraded software

- Upgraded Compass Downloader Windows compatible

### Wireless Devices

- 5804 – Wireless Key
- 5804BD – Bidirectional Key
- 5804BDV – Bidirectional with voice
- 5816 – Door/Window Transmitter
- 5819 – Shock Sensor
- 5827BD – Bidirectional Keypad

- 5849 – Glassbreak Detector
- 5890 – PIR

### Commercial Wireless Devices

- 5808W3 – Photoelectric Smoke/Heat Detector
- 5809 – Wireless Heat Detector
- 5817CB – Wireless Commercial Transmitter
- 5869 – Hold up Transmitter
- 5881ENHC – Commercial Fire/Burg Receiver

### Access Control

- VistaKey V-Plex (addressable) Access Control
- VistaKey-SK Starter Kit
- VistaKey-EX Expansion Kit
- VGM Vista Gateway Module to PassPoint Access Control
- Pro-Watch
- WIN-PAK (PE or SE)

### CCTV

- VistaView-100-CCTV Switcher Module

### Alarm Communications

- Graphical user interface with Internet capability
- Internet Remote Control-Networking Module
- Internet Alarm Communicator (7845i)
- 7845GSM – Digital Cellular Communicator
- 7845i-GSM – Internet and Digital Cellular Communicator
- GSMCF/iGSMCF – Commercial Fire Communication Kits

## ORDERING

### VISTA-250FBP

Commercial Fire and Partitioned Burglary Alarm Platform 12V Model

### V250FBP-24

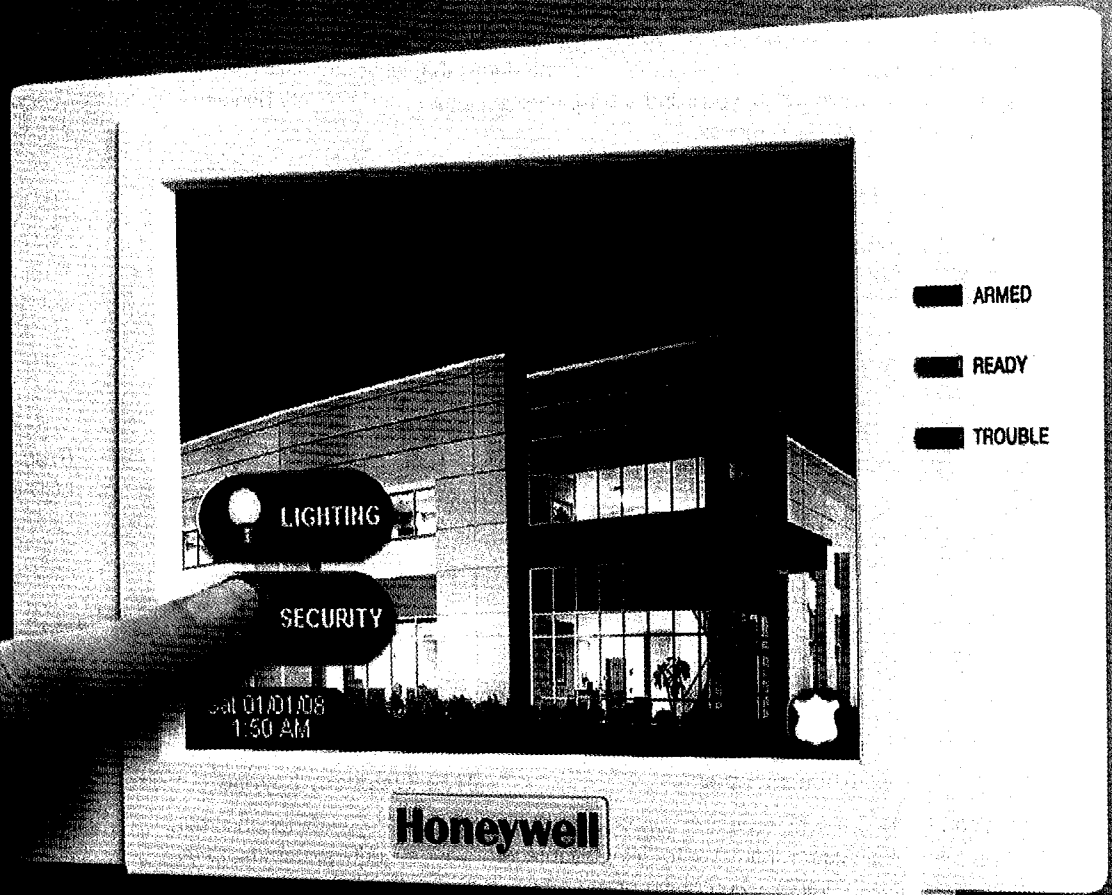
Commercial Fire and Partitioned Burglary Alarm Platform 24V Model

### Automation and Control Solutions

Honeywell Security & Communications  
2 Corporate Center Dr. Suite 100  
P.O. Box 9040  
Melville, NY 11747  
www.honeywell.com



# Commercial Keypad Family



Protection at  
Your Fingertips

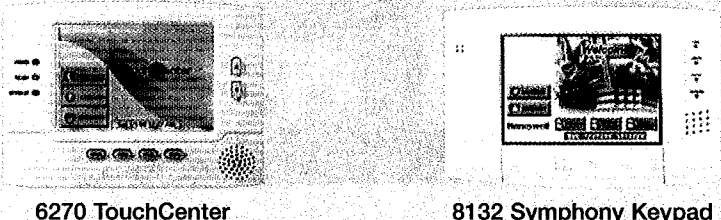
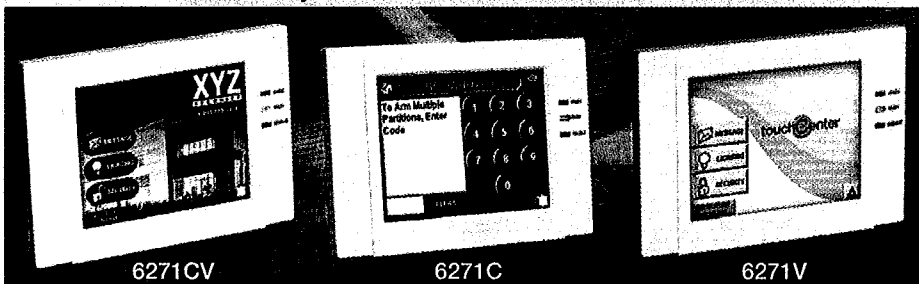
# Commercial Keypad Family

In today's world, you have a responsibility to protect your employees and your investment from crime. Honeywell offers a wide variety of flexible, easy-to-use keypads that put security and convenience at your fingertips while reducing false alarms and training time. Whether you choose talking keypads, versions designed for commercial fire or revolutionary, menu-driven graphic user interfaces that let you control your system with a single touch, you'll find our impressive features and security benefits meet the needs of any business.



## GRAPHIC USER INTERFACES

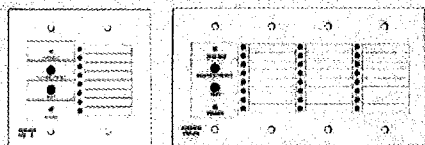
### 6271 TouchCenter Family



A blend of head-turning style and sophisticated technology, Honeywell's touchscreen keypads make it easier than ever to take advantage of your security system features and options, with graphics and menu-driven prompts guiding you and your employees every step of the way.

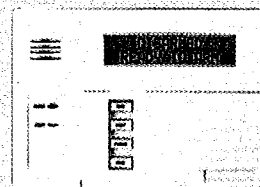
- Menu-driven prompts make operation crystal clear, without any complicated commands to remember
- Since the keypads are so simple to use, employee training time is dramatically reduced
- The touchscreens provide you with vital details about your business, letting you view opening and closing reports and an event log with the touch of a button
- The 6271 Series offers options including voice annunciation and customized homescreens

## FIRE SYSTEM ANNUNCIATORS

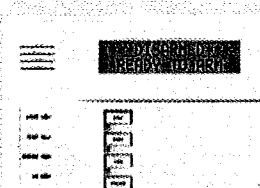


When seconds count, you can count on Honeywell's fire system annunciators. The 8-Zone LED FSA-8 and 24-Zone LED FSA-24 are add-on accessories that increase life safety by enabling fire response units to quickly and easily identify the location of a fire.

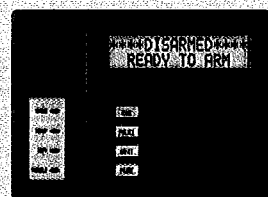
## KEYPADS



**6160 Keypad** – A large, easy-to-read LCD spells out the exact type and location of alarm in plain English.



**6160V Voice Keypad** – Announces type and location of alarm in clear, spoken English, alerting employees to critical information during an emergency.



**6160CR** – This eye-catching, all-red console is easily identifiable as a commercial fire keypad/annunciator. It is UL-listed for commercial fire and meets strict AHJ requirements out of the box.

## Honeywell Security & Communications

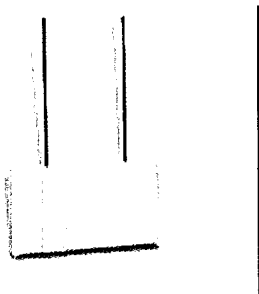
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L/COMKYPD/D  
June 2008  
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# Honeywell

## 5881ENL, 5881ENM, 5881ENH

▪ Product Literature



Receiver - connects to four wire keypad data lines

### 5881ENL

- Up to 8 zones

### 5881ENM

- Up to 16 zones

### 5881ENH

- Unlimited zones depending on control panel

### 5881EH

- Commercial wireless fire receiver
- For use with Q.E.D. control panels only
- Approved for UL864d commercial fire installations when used with the VISTA-100 control and 5808 wireless smoke detector

## 5820L

### DOOR/WINDOW CONTACT TRANSMITTER



Honeywell's 5820L Slimline Door/Window Contact Transmitter is nearly half the size of standard door/window transmitters. It is ideal for casement and double-hung windows. The 5820 provides a single zone of protection, and installs easily on doors or windows with the included mounting hardware or double-sided adhesive tape.

## FEATURES

- Sleek design is nearly half the size of competitors
- Easy-to-open case requires no special tools
- Case tamper protection (front and back)
- Ideal for double-hung windows
- Easy replaceable AAA Lithium battery

## SPECIFICATIONS

### Dimensions

- 3.0" H x 0.5" W x 0.8" D
- (76.2mm) x (12.7mm) x (20.3mm)

### Power Source

- 1.5VDC, AAA Lithium battery (supplied)
- 1.5VDC, AAA Alkaline battery

### Gap

- 0.5" (12.7mm) max distance

### Case Tamper Protection

- Front and back case tamper

### Operating Temperature

- 32° F to 122° F (0° C to 50° C) non-condensing

### Transmit Frequency

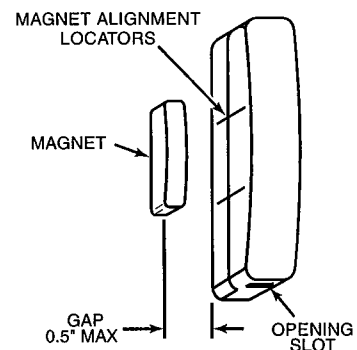
- 345 MHz

### Compatibility

- Compatible with all 5800 Series Wireless devices

### Agency Listings

- FCC
- IC
- cULus



## ORDERING

**5820L** Slimline Door/Window Contact Transmitter supplied with Lithium battery

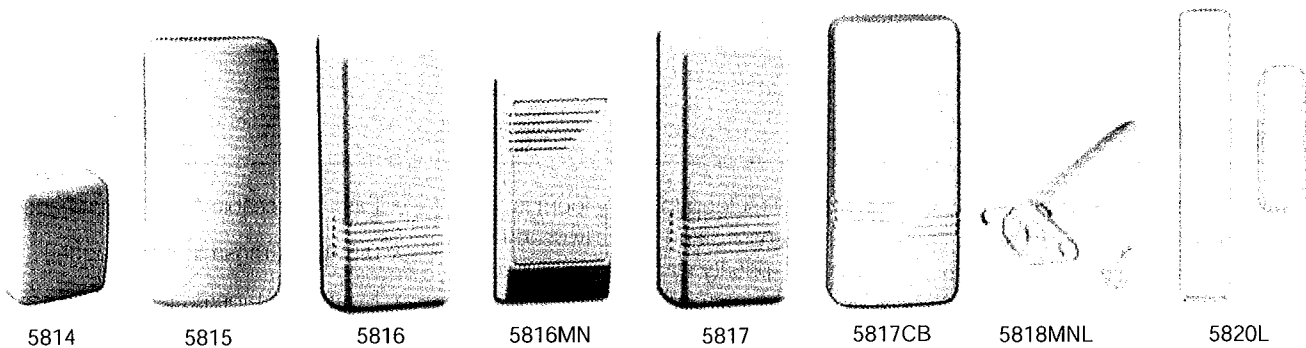
### Automation and Control Solutions

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Melville, NY 11747  
www.honeywell.com



## 5800 Transmitters

DOOR/WINDOW TRANSMITTERS



The 5800 Series of door and window transmitters provide the most reliable, convenient and cost effective solutions for security protection. These devices are powerful and versatile enough to help solve even the toughest, most labor intensive installations.

With a demonstrated outdoor range of over a mile, the 5800 Series has the best performance of any transmitters available today.

### FEATURES

#### 5814 Ultra Small Door/Window Transmitter

The 5814 provides the perfect solution for difficult to reach places and applications where aesthetics and small size are important.

- Ideal for ornate doors/windows, casements, etc.
- Extremely compact
- Features a built-in reed switch and tamper
- Includes replaceable lithium coin cell battery
- Dimensions:  
1-1/2" H x 1-3/16" W x 5/8" D

#### 5815 Door/Window Transmitter

The 5815 is the ideal solution for installations where small size and aesthetics are important. It provides a reliable, convenient and cost-effective solution for door and window protection.

- New sleek design
- Two reed switches
- Transmits supervisory, tamper and low battery messages
- Battery: 3V Lithium
- Dimensions:  
3" H x 1-1/2" W x 7/8" D

#### 5816 Door/Window Transmitter

Two zone transmitter with both built-in magnetic reed switches and wired closed circuit contact loop.

- Features a standard white plastic case. Brown cases available in packs of three (5816BR).
- Dimensions:  
3-1/16" H x 1-9/16" W x 1-3/16" D
- Four pack of spare magnets (5899)

#### 5816MN Door/Window Transmitter

Two zone transmitter with both built-in magnetic reed switches [90° apart] and wired closed circuit contact loop.

- Features a small design for a hidden professional look
- Dimensions:  
3-1/16" H x 1-1/2" W x 15/16" D

# 5800 Transmitters

## DOOR/WINDOW TRANSMITTERS

### FEATURES

---

#### 5817 Three Zone Universal Transmitter

Three zone transmitter with three separate contact loops. Primary loop supports normally open and normally closed applications and fast loop response time. The two auxiliary loops support conventional normally closed contact applications.

- Features a normal zone response time of 200msec; the fast zone response is 5msec
- Dimensions:  
3-1/2" H x 1-9/16" W x 1-3/16" D

#### 5817CB Universal Contact-Monitoring Transmitter

The 5817CB is a universal contact-monitoring transmitter that can be used with household and commercial fire and burglary-initiating devices.

- The 5817CB has three unique input loops (zones)

- The first loop (primary loop) is supervised and typically used for high-priority alarm reporting such as commercial fire or burglary
- The second loop is the built-in, normally closed reed switch used in conjunction with magnet
- The third loop is another normally closed household burglary loop. All three loops may be used.
- A fourth (automatically enrolled) loop contains two tamper switches to protect the 5817CB
- Dimensions:  
3-1/2" H x 1-9/16" W x 1-3/16" D

#### 5818MNL Recessed Door/Window Transmitter

The 5818MNL is a magnetic contact sensor that provides concealed protection for doors or windows.

- Includes self-contained transmitter and reed sensor
- Virtually disappears once installed

- Easy replaceable AAA Lithium battery
- 0.5" gap (transmitter to magnet)
- Features a tapered cylinder for easy and flush fit
- Dimensions:  
0.75" diameter x 3.0" length

#### 5820L Door/Window Contact Transmitter

The 5820L is nearly half the size of standard door/window transmitters. It is ideal for casement and double-hung windows.

- Sleek design is nearly half the size of competitors
- Case tamper protection (front and back)
- Ideal for double-hung windows
- Easy replaceable AAA Lithium battery
- Dimensions:  
3.0" H x 0.5" W x 0.8" D

### ORDERING

<b>5814</b>	Ultra Small Door/Window Transmitter
<b>5815</b>	Door/Window Transmitter
<b>5816MN</b>	Door/Window Transmitter
<b>5816</b>	Door/Window Transmitter
<b>5817</b>	Three Zone Universal Transmitter
<b>5817CB</b>	Three Zone Universal Transmitter
<b>5818MNL</b>	Recessed Door Transmitter with Lithium battery supplied
<b>5820L</b>	Slimline Door/Window Contact Transmitter supplied with Lithium battery
<b>5899</b>	Four pack of spare magnets for 5816

#### Honeywell Security & Custom Electronics

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www.honeywell.com

L/5800TRAN/D  
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# Honeywell

# Your # 1 Source for Magnetic Contacts

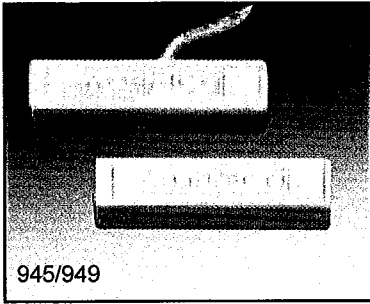
## CONTACT

## DIMENSIONS

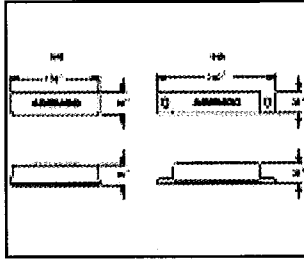
## SPECIAL FEATURES

## REPLACES

SURFACE MOUNT

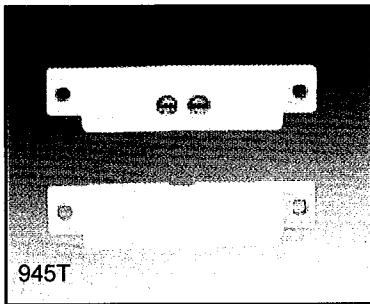


945/949

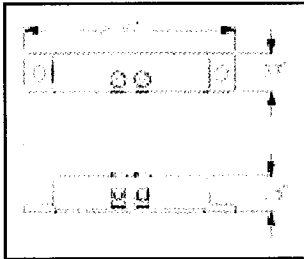


- 945/949**  
**Surface Mount Magnetic Contact with Leads**
- 15 foot zip cord leads standard
  - Standard gap: 1-1/4"
  - Choose self adhesive (945), or screw mount (949)
  - Pkg. quantity=5/bag

- Sentrol 1035
- GRI 100-12,110-12
- Nascom N35
- Tane FM106
- Aleph PS1541



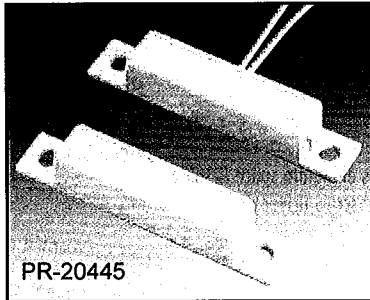
945T



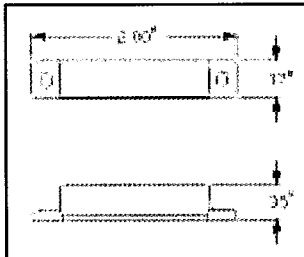
- 945T**  
**Mini Surface Mount with Screw Terminals**
- Screw mount or adhesive mount
  - Screw terminals eliminate wire splicing and soldering
  - Standard gap: 1-1/8"

- Sentrol 1038T
- GRI 100T,110T
- Tane-60
- Aleph DC-2531

AVAILABLE  
IN  
AMMO BOX



PR-20445

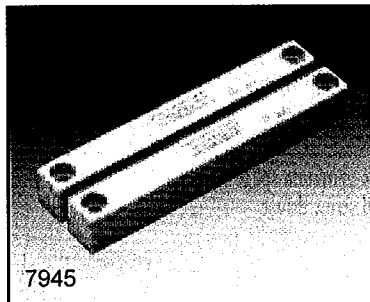


- PR-20445**  
**Mini Surface Mount with Leads**
- Miniature size for cleaner look
  - Standard gap: 1-1/4"
  - 18" long wire leads
  - Screw mount or adhesive mount

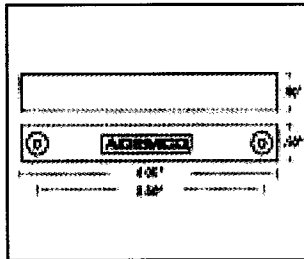
- Sentrol 1085,1032
- GRI 110-12
- Nascom N35
- Tane FM106
- Aleph PS1541

AVAILABLE  
IN  
AMMO BOX

COMMERCIAL

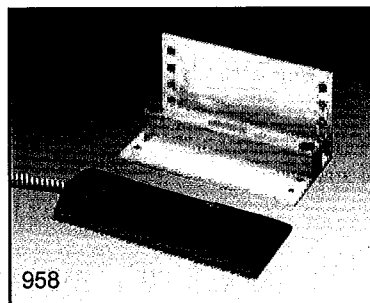


7945

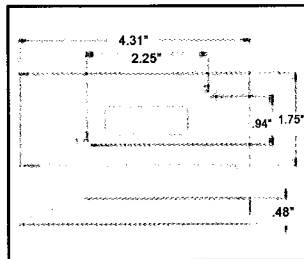


- 7945**  
**XTP Surface Mount Magnetic Contact with Leads**
- XTP contacts withstand surges up to 2400 volts DC
  - 6' CLII cable is standard
  - Epoxy sealed
  - Wide gap of 2.5"
  - Available in SPDT (7945-2GY)
  - Pkg. quantity=1/bag

- Sentrol 1045
- GRI 400,410
- Amseco AMS37






958



- 958**  
**Overhead Door Magnetic Contact**
- Adjustable magnet with L-bracket
  - 24" armored cable is standard
  - Standard gap: 2-3/8"
  - Epoxy sealed for protection from moisture and impact
  - Available in SPDT (958-2)
  - Pkg. quantity=1/bag

- Amseco ODC59A
- Sentrol 2202AU,2202A
- GRI 4532/4532L

**ALL MODELS:**     
 Specify color: White (WH), Brown (BR), Gray (GY)

# Your # 1 Source for Magnetic Contacts

COMMERCIAL

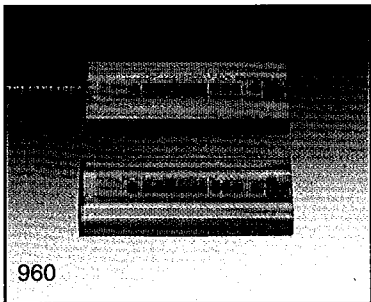
RECESSED

**CONTACT**

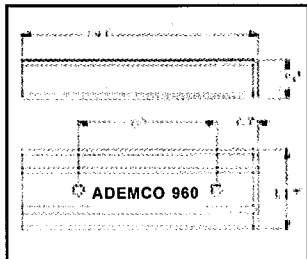
**DIMENSIONS**

**SPECIAL FEATURES**

**REPLACES**

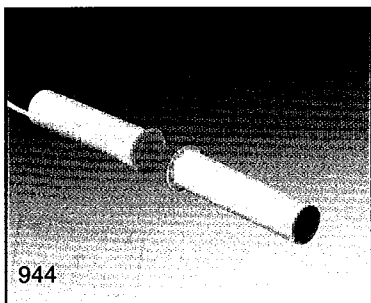


960

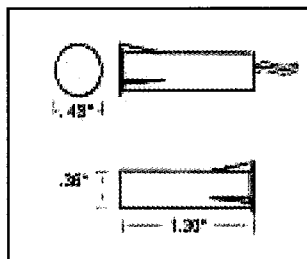


- 960**  
**XTP Surface Mount Magnetic Contact**
- XTP contacts withstand surges up to 2400 volts DC
  - Epoxy Sealed
  - 3' armored cable is standard
  - Wide gap of 2.5"
  - Available in SPDT (960-2)
  - Pkg. quantity=1/bag

- Sentrol 2505A
- GRI 4400
- Nascom 505A



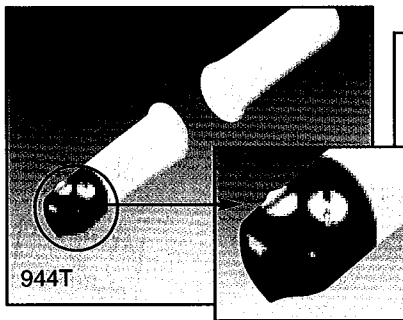
944



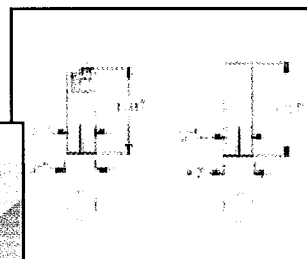
- 944**  
**3/8" Diameter Recessed Contact**
- Standard gap: 3/4"
  - Convenient 5' zip cord leads are standard
  - Available in SPDT (944-2GY)
  - PR-20411 for PRO version with 18" leads

- Sentrol 1075
- GRI 2020-12
- Nascom N-75
- Tane TAP-10
- Aleph DC-1621

AVAILABLE  
IN  
AMMO BOX



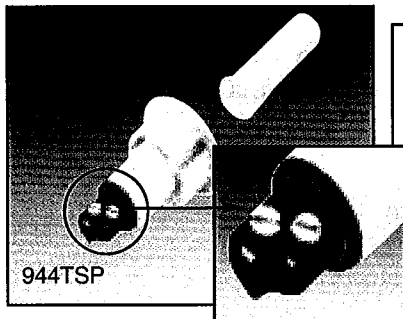
944T



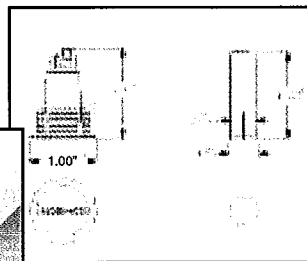
- 944T**  
**3/8" Diameter Recessed Contact with Screw Terminals**
- 3/8" diameter press fit design
  - Exclusive Staggered "T" terminals eliminate splice & solder and are compatible with standard screw driver
  - Standard gap: 3/4"

- Sentrol 1125T
- GRI 2020T
- Aleph DC-3621
- Tane-3/8T

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IN  
AMMO BOX



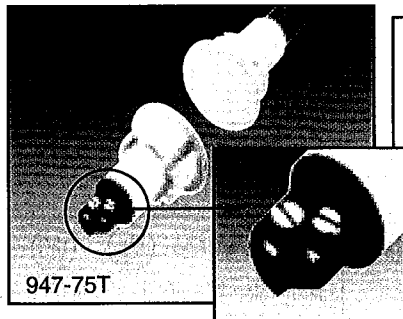
944TSP



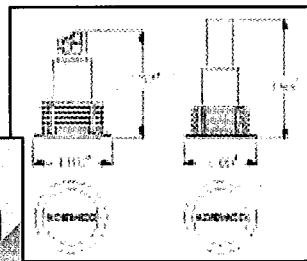
- 944TSP**  
**3/4" Recessed Contact with 3/8" Magnet**
- 3/4" diameter switch for easier wiring...3/8" diameter magnet
  - Exclusive Staggered "T" terminals eliminate splice & solder and are compatible with standard screw driver
  - Standard gap: 3/4"
  - Available with 5' leads (944SP)

- GRI 120T-12

AVAILABLE  
IN  
AMMO BOX



947-75T



- 947-75T**  
**3/4" Diameter Steel Door Contact with Terminals**
- Standard gap: 1/2" in steel
  - Exclusive Staggered "T" terminals eliminate splice & solder and are compatible with standard screw driver
  - Order 947-75 for 5' leads

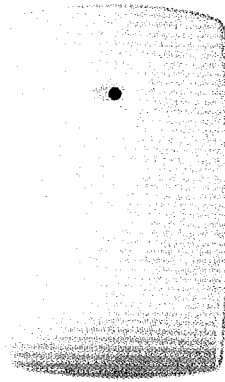
- Sentrol 1078CT
- GRI 8080-T
- Tane 3/4 CT

AVAILABLE  
IN  
AMMO BOX

**ALL MODELS:**   
 Specify color: White (WH), Brown (BR), Gray (GY)

# 5853

## WIRELESS GLASSBREAK DETECTOR



Honeywell's 5853 Wireless Glassbreak Detector offers uncompromised performance and unmatched false alarm immunity. The FlexCore™ signal processor utilizes an Application Specific Integrated Circuit (ASIC)—processing sound data in parallel rather than sequentially. This permits sound frequency, duration and amplitude to be analyzed 50% faster to minimize false alarms while maintaining the highest possible level of detection.

The 5853 can be mounted on any wall or ceiling within a 25' range, with no minimum range limitation. The LEDs indicate test mode, alarms and trouble conditions. It is compatible with all 5800 Series wireless devices.

### FEATURES

- Test mode can be activated remotely with FG-701 Tester
- Four selectable sensitivity settings (Max, Medium, Low and Lowest)
- FlexCore signal processor
- Senses the sound of a variety of glass (tempered, wired, laminate, ordinary plate, etc.)
- Sleek design with front and back case tamper
- Ten year battery life with easily replaceable batteries
- Transmits supervisory, low battery and tamper messages to control panel

### SPECIFICATIONS

#### Dimensions:

- 4.95" H x 3.09" W x 1.1" D

#### Range:

- 25' (7.6 meters) maximum from farthest protected glass
- No minimum range

#### Power:

- Two 3V Batteries (included)
  - Replace only with ADEMCO # 466, Panasonic® CR123A, Sanyo® CR123A, Duracell® DL123A, or Varta CR123A (Lithium Manganese Dioxide)

#### Operating Temperature:

- 14° F – 122° F  
( -10° C to 50° C)

### ORDERING

5853

Wireless Glassbreak Dectector

#### Honeywell Security & Custom Electronics

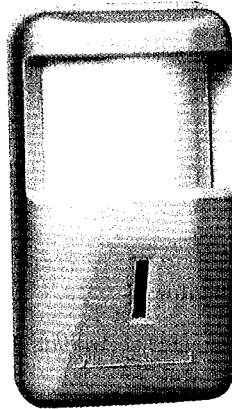
Honeywell International Inc.  
PO Box 9035  
Syosset, NY 11791  
www.honeywell.com

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L/5853/D  
August 2006  
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# Honeywell

## 5890PI

PIR MOTION DETECTOR



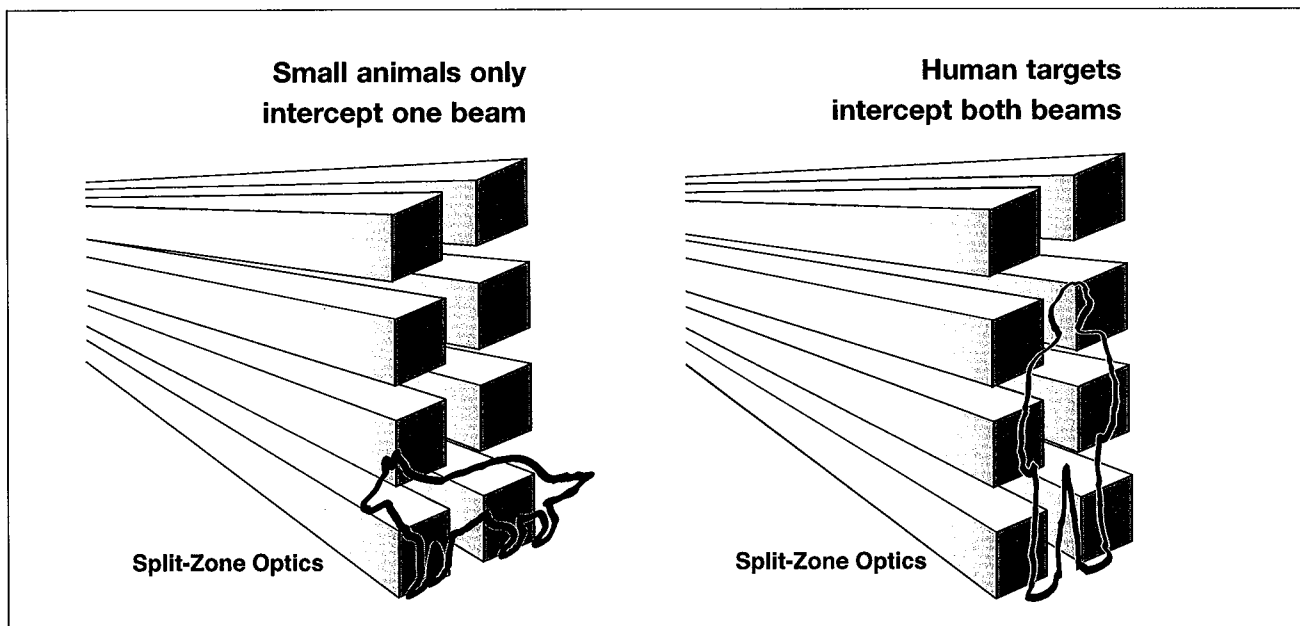
The convenience of wireless systems extends to include pet immunity with the 5890PI. Using Split Zone Optics

technology, the 5890PI ignores pets and other animals up to 40lbs., while continuing to detect even crawling intruders.

## FEATURES

The Honeywell Edge:

- 35' x 45' (10.6m x 13.7m) coverage pattern
- Immune to pets up to 40 lbs.
- Split-Zone Optics technology
- Compatible with all 5800 series wireless devices
- Up to five year battery life



**Split-Zone Optics** splits each into two stacked sub-zones. Each sub-zone is the same size as the original, but only has about half the sensitivity. To generate an alarm, target must intercept both sub-zones simultaneously. A human target is sufficiently large enough while pets up to 40 lbs., remain undetected.

# 5890PI

## PIR MOTION DETECTOR

### SPECIFICATIONS

#### Detection Method

- Passive Infrared

#### Coverage

- Pet Immune Lens-30 zones
- Long range zones-8
- Intermediate zones-7 over 7
- Short range zones-4 over 4

#### Pulse Count

- Intermediate or standard-  
Selectable via jumpers

\* Note: Use Standard for Pet Immune applications

#### Detectable Walk Rate

- 0.5-10'/per second  
(0.15-3m/per second)

#### Mount Height

- 7.0' nominal (2.1m)

#### Agency Listings

- FCC
- IC
- UL

#### Indicator

- Red LED enabled/disabled via jumpers

#### Input Voltage

- Two 3V Lithium batteries; use only  
Honeywell 466, Duracell DL123A,  
Panasonic CR123A or Sanyo  
CR123A or Varta CR123A

#### Operating Temperature

- 14°F-122°F (-10°C- +50°C)

#### Operating Humidity

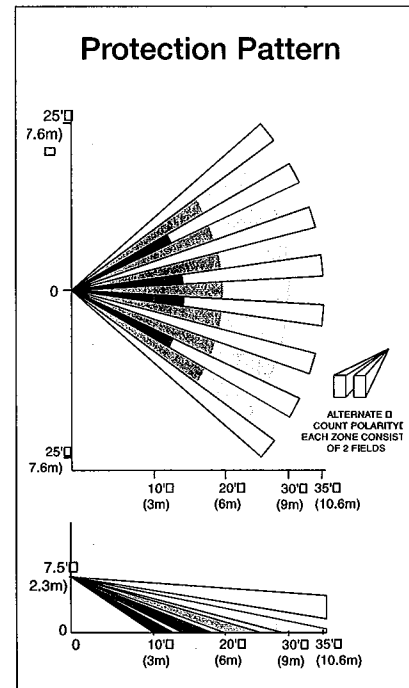
- Up to 95% RH (max) non-condensing

#### Dimensions

- 2-11/16" W x 4-3/4" H x 1-7/8" D  
(68mm x 120mm x 48mm)

#### Tamper

- Cover Tamper



### ORDERING:

5890PI PIR Motion Detector

#### Honeywell Security & Custom Electronics

Honeywell International Inc.  
PO Box 9035  
Syosset, NY 11791  
www.honeywell.com

L/5890PI/D  
January 2007  
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# Honeywell

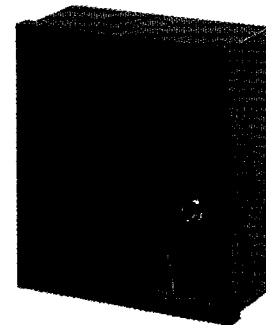


# **ALTV2416300ULM, ALTV2416300ULCBM** **UL Listed AC CCTV Power Supply**

Rev. DSALTV2416300ULM - K20H

## **Overview**

These Altronix AC Wall Mount CCTV Power Supplies provide 24VAC or 28VAC distributed via sixteen (16) fuse or PTC protected power limited outputs for powering CCTV Cameras, heaters and other video accessories.



## **Specifications**

- Input 115VAC, 50/60Hz, 2.7 amp.
- 24VAC @ 12.5 amp (300VA) or 28VAC @ 10 amp (280VA) supply current.
- Illuminated power disconnect circuit breaker with manual reset.
- Surge suppression.
- AC power LED.
- Spare fuse(s) provided (all models w/primary and/or secondary fuses).
- Unit maintains camera synchronization.
- Ease of installation saves time and eliminates costly labor.

## **Models**

### ***ALTV2416300ULM***

- Sixteen (16) fuse protected outputs.
- Outputs are rated @ 3.5 amp.

### ***ALTV2416300ULM3***

ALTV2416300ULM w/3-wire Line Cord.

### ***ALTV2416300ULCBM***

- Sixteen (16) Class 2 Rated PTC protected power limited outputs.
- Outputs are rated @ 2.5 amp.

### ***ALTV2416300ULCBM3***

ALTV2416300ULCBM w/3-wire Line Cord.

## **Agency Approvals**



UL Listed for Commercial CCTV Equipment (UL 2044).



CUL Listed - CSA Standard C22.2 No.1-98, Audio, Video and Similar Equipment.

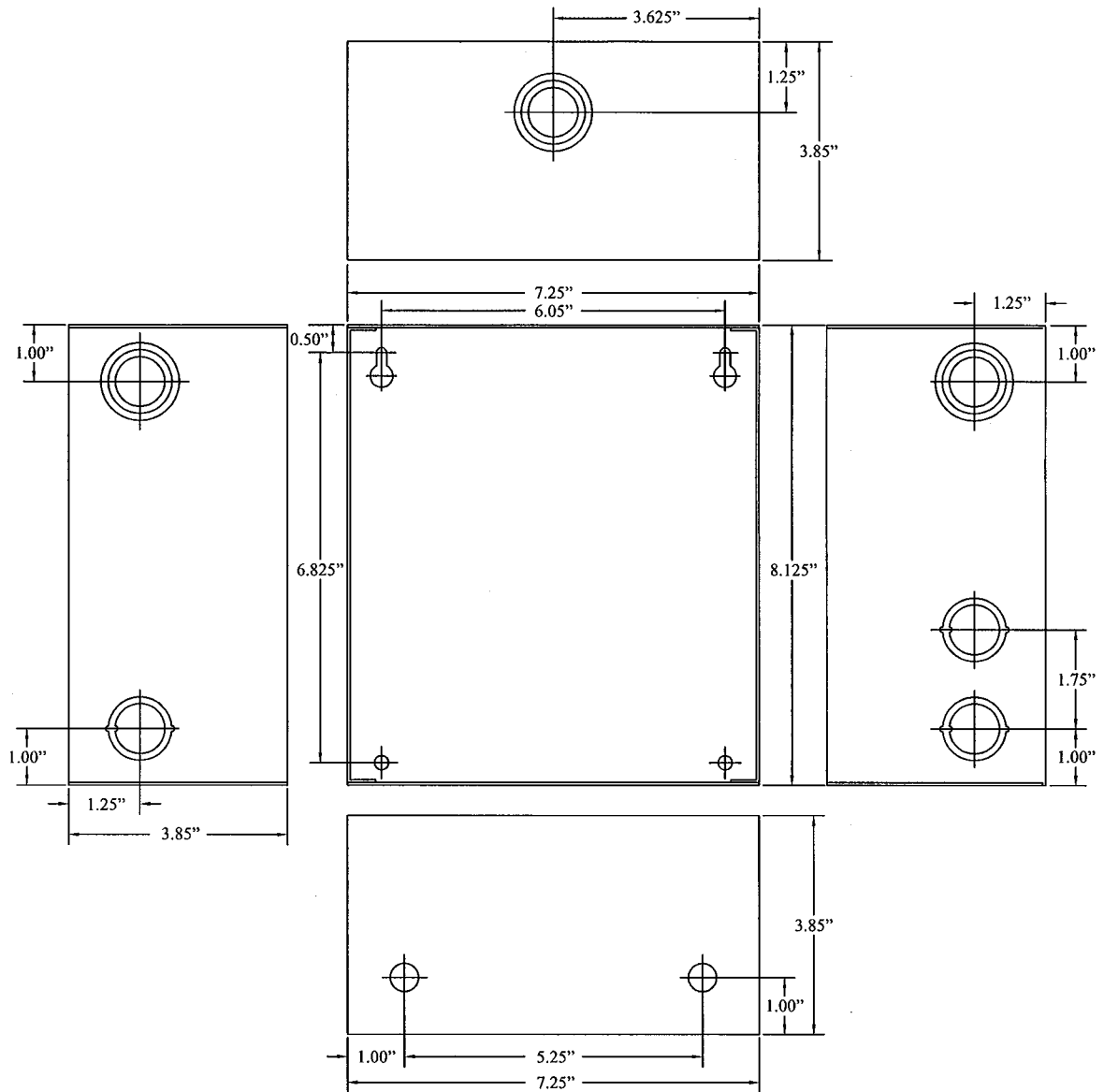


European Conformity



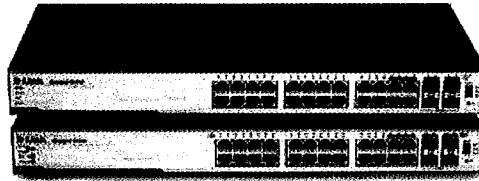
## ***Enclosure Dimensions***

8.5"H x 7.5"W x 3.75"D

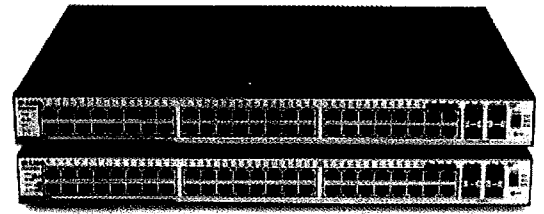


### ***Shipping Weights (approximate):***

- ALTV2416300ULM: 14.2 lbs.
- ALTV2416300ULCBM: 14.2 lbs.
- ALTV2416300ULM3: 14.5 lbs.
- ALTV2416300ULCBM3: 14.5 lbs.



DGS-3100-24



DGS-3100-24P

DGS-3100-48

DGS-3100-48P

### High Performance:

- + Fixed-in 20Gig Full-duplex Stacking Ports
- + Up to 6 Units per Stack
- + Up to 288Gbps Bandwidth per Stack
- + Jumbo Frame Support (up to 10240 bytes)

### Advanced Features:

- + IGMP Snooping
- + MLD Snooping
- + Spanning Tree
- + 802.1p QoS (4 Queues)
- + RMON
- + SNMPv1/2/3
- + CLI or Web GUI Interface
- + LAG (32 groups / 8 ports)
- + Rate Limiting Down to 64Kb
- + Support for 100FX or 1000X Fiber Options
- + Spanning Tree Loopback Detection
- + Cross Stack Port Mirroring and Trunking
- + Broadcast Storm Control
- + DHCP Auto Update for Firmware and Configuration

### Security:

- + 802.1x Authentication
- + Enhanced Access Control List
- + DoS Prevention
- + Port-based Security
- + Guest and Private VLANs
- + 4K 802.1Q VLANs
- + TACACS+ and RADIUS
- + SSH/SSL
- + Asymmetric VLANs and Traffic Segmentation Resulting in Private VLAN

## Managed 10/100/1000BASE-T Stackable L2 Switch with 4 Combo SFP Expansion Slots and 2 Fixed-in 10Gig Stacking Ports

### Overview

Introducing the D-Link DGS-3100 family of gigabit stackable switches designed for growing companies looking for scalability and robust security features. There are four models in the family including a 24-Port Gigabit Managed Switch with 4 combo SFP gigabit or 100BASE-FX fiber ports, a 48-Port Gigabit Managed Switch with 4 combo SFP ports, and a PoE version of each model. The D-Link DGS-3100 family is equipped with robust features that fulfill the most demanding network needs in today's multimedia-intensive world. Stackable up to 6 units under a single IP, the switches provide a total of up to 288Gbps aggregated bandwidth, each with 20Gbps full-duplex of fixed stacking bandwidth. Designed with efficient QoS features, these D-Link switches facilitate smooth videos and jitter-free VoIP deployments. To help secure your network, D-Link implements both the Safeguard Engine to prevent Denial-of-Service attacks, and Access Control List to enhance security to your network. The 3100 family is equipped with industry standard management features such as an easy-to-use web-based administrator interface and CLI interface. D-Link provides features on a cost-effective platform that will increase your company's productivity and protect your investment.

### Stackable up to 6 Units

Each switch in the DGS-3100 family includes two built-in stacking ports that can provide up to 20Gbps in stacking backplane. This will enhance your overall network performance for those switches transmitting large files. Under stacking mode, the switches are hot-swappable meaning that in a stack configuration, any of the switches can be replaced or removed without affecting the network. There is no need to reconfigure a replacement switch; simply give the new switch the same stack number ID as the old switch and the new switch will carry the same configuration as before. This minimizes the downtime of a network and maximizes the productivity of your business. Also, cross stack port mirroring and port trunking are supported to facilitate network administration.

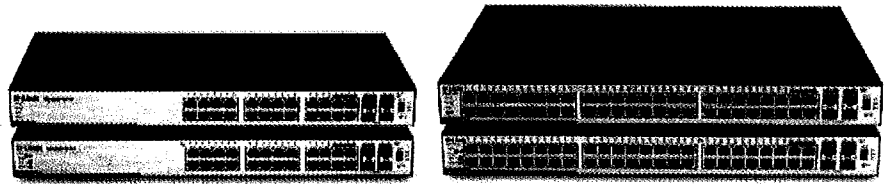
### The D-Link Safeguard Engine and Security

The DGS-3100 incorporates advanced mechanisms to detect an attack against the central processing unit of the switch and to take corrective action on the attacking interface. When a Denial of Service attack is waged against the DGS-3100 switches, the D-Link Safeguard Engine detects the threat and prevents an overload of the central processor, ensuring network integrity and helping to maintain open network bandwidth channels.

In addition, D-Link switches support 802.1x authentication, which is a secure implementation that allows users to log onto your network. When used in conjunction with a RADIUS server, 802.1x requires each workstation attached to the DGS-3100 to provide a username and password before gaining access to the local area network. D-Link also utilizes security features such as the Access Control List, allowing an administrator to restrict the access of a network through a variety of means including MAC address, IP, UDP/TCP, and even VLAN ID. Time-based ACL<sup>1</sup> is especially useful for K-12 or college environments when access can be limited based on time.

### Voice and Video Applications

For today's business, having voice, data, and video on the same network is common practice. This challenge is met by the D-Link 3100 family, which supports 802.1p Quality of Service (QoS) with 4 queues. The administrator can designate the priority of the traffic based on a variety of means including IP and MAC address, so that voice data is always clear and jitter-free. Video traffic can also be assigned with the same priority. In addition, the D-Link 3100 family provides IGMP Snooping, which allows the forwarding of multicast packets without increasing network broadcast congestion. By snooping IGMP registration information within a frame, a list of workstations who have joined the multicast group is created. This list then allows the switch to intelligently forward packets to only the appropriate member workstations. For IPv6 traffic, the DGS-3100 supports MLD snooping<sup>1</sup>. The DGS-3100 family also supports 802.1Q VLANs, allowing QoS and security to be achieved on a data laden network.



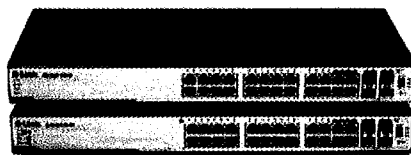
### Power over Ethernet

To facilitate and expedite deployments, Power Over Ethernet (PoE) 802.3af may be required for a network. For access points, IP cameras, and even IP phones, each port on the DGS-3100-24P and DGS-3100-48P provide up to 15.4 Watts of power, providing a total of 370 Watts of PoE budget on each switch. The DGS-3100 provides a generous supply of PoE budget for those devices that may require higher power consumption or for devices that are further away from the switch (the further away a device is, the more power draw is required). IEEE 802.3af compliant, the DGS-3100's PoE models will provide power to devices that support the IEEE 802.3af standard.

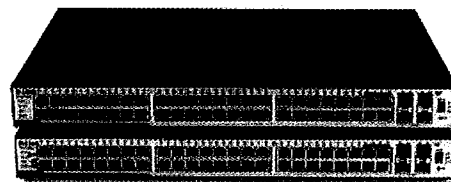
### Ease of Management

The DGS-3100 supports SNMP v1/2/3 so traps can be set on abnormal events and information can be polled to maximize the productivity of the network. Other standard management features also supported include RMON and IEEE 802.1d spanning tree. Users can interface using either an intuitive web-based browser graphic interface or a standard Command Line Interface (CLI), both of which are protected through SSL or SSH encryptions.

Technical Specifications				
Interface	DGS-3100-24	DGS-3100-24P	DGS-3100-48	DGS-3100-48P
10/100/1000BASE-T Ports	24	24	48	48
Combo SFP Slots	4	4	4	4
RS-232 Console Port	Yes	Yes	Yes	Yes
Optional Redundant Power Supply	-	DPS-600	DPS-500	DPS-600
Stacking				
HDMI Stacking Ports	2	2	2	2
Number of Unit Per Stack (Max)	6	6	6	6
Stacking Bandwidth	Up to 10Gbps with Linear, Topology Up to 20Gbps with Bi-Directional Redundant Ring Topology			
Power Over Ethernet				
802.3af PoE Support	-	Per 10/100/1000BASE-T Port	-	Per 10/100/1000BASE-T Port
Power Provision Per Port (Max.)	-	15.4W	-	15.4W
System PoE Power Budget	-	370W	-	370W
Auto Power/Device Discovery	-	Yes	-	Yes
Over-Current Protection	-	Yes	-	Yes
Performance				
Switch Capacity	68Gbps	68Gbps	116Gbps	116Gbps
64-Byte Packet Forwarding Rate	50.60Mpps	50.60Mpps	86.31Mpps	86.31Mpps
MAC Address Table Size	8K	8K	8K	8K
Packet Buffer	768KB	768KB	1.5MB	1.5MB
Jumbo Frame (Max.)	10,240 Bytes	10,240 Bytes	10,240 Bytes	10,240 Bytes



DGS-3100-24



DGS-3100-24P

DGS-3100-48

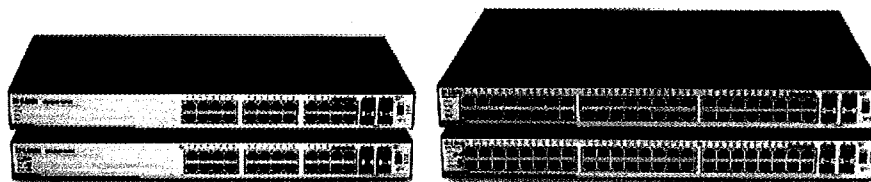
DGS-3100-48P

### Physical & Environmental

Power Input	100 to 240 VAC, 50 to 60 Hz Internal Universal Power Supply			
Power Consumption (Max)	49.39W	555.50W	102.63W	619.30W
Dimensions	17.3in x 8.3in x 1.7 in (440mm x 210mm x 44mm)	17.3in x 12.2in x 1.7 in (440mm x 310mm x 44mm)	17.3in x 12.2in x 1.7 in (440mm x 310mm x 44mm)	17.3in x 16.9in x 1.7 in (440mm x 430mm x 44mm)
	19-inch Rack Mount Width, 1U Height			
Weight	6.7lbs (3.04kg)	12.31lbs (5.58kg)	12.11lbs (5.50kg)	16.4lbs (7.43kg)
Heat Dissipation	168.53 BTU/hr	1895.48 BTU/hr	350.19 BTU/hr	2113.18 BTU/hr
MTBF	212,377 hrs	117,136 hrs	103,924 hrs	96,648 hrs
Operating Temperature	32° to 104° F (0° to 40° C)			
Storage Temperature	-14° to 158° F (-10° to 70° C)			
Operating Humidity	10% to 90% non-condensing			
Storage Humidity	5% to 90% non-condensing			
EMI/EMC	FCC Class A, ICES-003 Class A, CE, C-Tick, VCCI Class A			
Safety	cUL, CB			

### Software Functions

L2 Features	<ul style="list-style-type: none"> <li>+ IGMP snooping v1, v2                             <ul style="list-style-type: none"> <li>- Up to 256 IGMP snooping groups</li> <li>- Up to 64 static multicast address</li> <li>- IGMP Per VLAN</li> </ul> </li> <li>- IGMP snooping fast leave</li> <li>+ MLD snooping<sup>1</sup></li> <li>+ Spanning Tree                             <ul style="list-style-type: none"> <li>- 802.1D STP</li> <li>- 802.1s MSTP</li> </ul> </li> <li>- 802.1w RSTP</li> </ul>	<ul style="list-style-type: none"> <li>+ STP Loopback Detection</li> <li>+ BPDU filtering</li> <li>+ 802.3ad Link Aggregation: max. 32 groups per device, 8 ports per group</li> <li>+ Mirroring                             <ul style="list-style-type: none"> <li>- One-to-one mode</li> <li>- Many-to-one mode</li> </ul> </li> </ul>
VLAN	<ul style="list-style-type: none"> <li>+ 802.1Q</li> <li>+ 802.1v protocol VLAN<sup>1</sup></li> <li>+ VLAN Groups: total 256 VLAN groups, max. 256 static</li> <li>- VLAN groups, max. 256 dynamic VLAN groups</li> </ul>	<ul style="list-style-type: none"> <li>+ GVRP</li> <li>+ Double VLAN<sup>1</sup></li> <li>+ Asymmetric VLAN<sup>1</sup></li> </ul>
ACL (Access Control List)	<ul style="list-style-type: none"> <li>+ Maximum Mask/Profiles: 15 profiles, 240 rules per profile</li> <li>+ Time Based ACL<sup>1</sup></li> </ul>	<ul style="list-style-type: none"> <li>+ Content-based ACL according to:                             <ul style="list-style-type: none"> <li>- 802.1p priority</li> <li>- MAC address</li> <li>- IP address</li> <li>- L4 Protocol type</li> <li>- VID</li> <li>- Ether type</li> <li>- DSCP</li> <li>- TCP/UDP port number</li> </ul> </li> </ul>
QoS (Quality of Service)	<ul style="list-style-type: none"> <li>+ Priority queues number: 4 queues</li> <li>+ 802.1p standard</li> <li>+ Queue handling: WRR/Strict/ST+WRR modes</li> <li>+ Bandwidth Control:                             <ul style="list-style-type: none"> <li>- Port and Flow based bandwidth control</li> <li>- Granularity: down to 64Kbps</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Class of Service based on:                             <ul style="list-style-type: none"> <li>- 802.1p priority</li> <li>- Ether type</li> <li>- DSCP</li> <li>- TCP/UDP port number</li> <li>- VLAN MAC address</li> <li>- IP address</li> <li>- Protocol type</li> </ul> </li> </ul>
Security	<ul style="list-style-type: none"> <li>+ Traffic Segmentation</li> <li>+ SSH v2</li> <li>+ SSL v3</li> </ul>	<ul style="list-style-type: none"> <li>+ Port Security: 16 MACs per port</li> <li>+ Broadcast Storm Control</li> <li>+ D-Link Safeguard Engine</li> </ul>



AAA	<ul style="list-style-type: none"> <li>+ Port/MAC-Based 802.1X Access Control</li> <li>+ Guest VLAN</li> <li>+ RADIUS Auth. for Management Access</li> </ul>	<ul style="list-style-type: none"> <li>+ TACACS+ Auth. for Mgmt Access</li> <li>+ Web-based Access Control<sup>1</sup></li> <li>+ MAC-based Access Control<sup>1</sup></li> </ul>
Management	<ul style="list-style-type: none"> <li>+ Web-based GUI</li> <li>+ CLI</li> <li>+ Device Locator</li> <li>+ Telnet Server</li> <li>+ Telnet Client</li> <li>+ TFTP Client</li> <li>+ SNMP v1, v2c, v3</li> <li>+ SNMP Traps</li> <li>+ Dual Image Support</li> </ul>	<ul style="list-style-type: none"> <li>+ System Log</li> <li>+ RMON v1</li> <li>+ BootP/DHCP Client</li> <li>+ DHCP Auto-configuration</li> <li>+ SNTP</li> <li>+ Port Description</li> <li>+ CPU Monitoring</li> <li>+ Web GUI Traffic Monitoring</li> </ul>
MIB	<ul style="list-style-type: none"> <li>+ MIB II (RFC 1213)</li> <li>+ Bridge MIB (RFC 1493)</li> <li>+ SNMP v2 MIB (RFC 1907)</li> <li>+ RMON MIB (RFC 1757, 2819)</li> <li>+ Ether-like MIB (RFC 2021)</li> </ul>	<ul style="list-style-type: none"> <li>+ 802.1p MIB (RFC 1643, 2358, 2665)</li> <li>+ IF MIB (RFC 2674)</li> <li>+ RADIUS Authentication Client MIB (RFC 2233, 2863)</li> <li>+ RADIUS Accounting Client MIB (RFC 2618)</li> <li>+ Private MIB</li> </ul>
Warranty	Limited Lifetime	

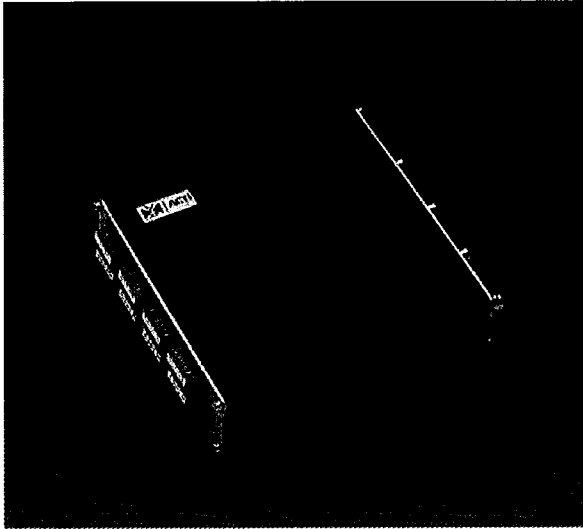
### Ordering Information

Part Number	Description
DGS-3100-24	Managed 24-Port Gigabit Stackable Layer 2 Switch, 4 combo SFP, 20 Gig Stacking
DGS-3100-48	Managed 48-Port Gigabit Stackable Layer 2 Switch, 4 combo SFP, 20 Gig Stacking
DGS-3100-24P	Managed 24-Port Gigabit PoE Stackable Layer 2 Switch, 4 combo SFP, 20 Gig Stacking
DGS-3100-48P	Managed 48-Port Gigabit Stackable PoE Layer 2 Switch, 4 combo SFP, 20 Gig Stacking
DEM-211	100BASE-FX 155Mbps MMF fiber LC SFP Transceiver
DEM-310GT	1000BASE-LX SFP LC Transceiver, up to 10Km
DEM-311GT	1000BASE-SX SFP LC Transceiver, up to 500m
DPS-200	Redundant Power Supply for DGS-3100-24
DPS-500	Redundant Power Supply for DGS-3100-48
DPS-500DC	Redundant Power Supply –48V DC power input
DPS-600	Redundant Power Supply for PoE models DGS-3100-24P, DGS-3100-48P

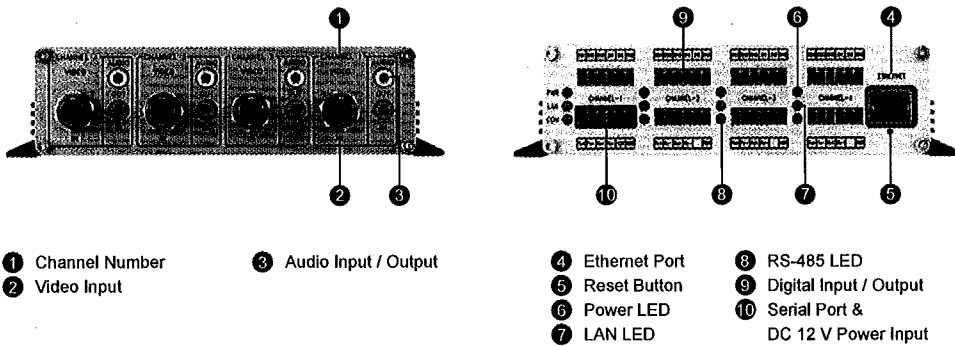
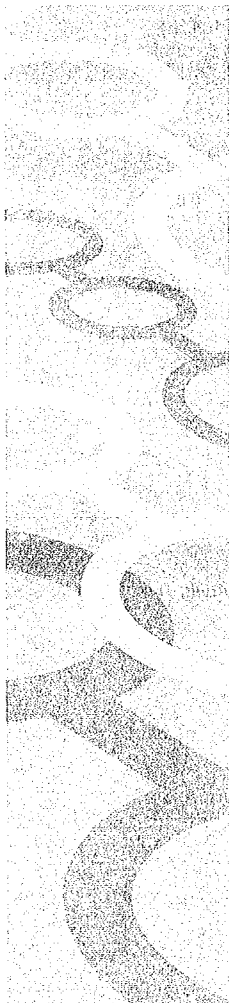
<sup>1</sup>Features available in future free firmware upgrade

# ACD-2200

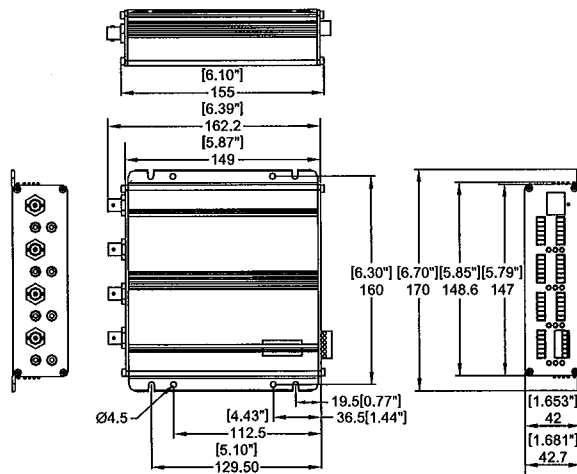
## Four-channel Video Server with Two Way Audio



- Selectable MPEG-4 / MJPEG compression
- CIF up to Full D1 resolution at 30/25 FPS
- Multi-stream with variable frame rate in the same compression
- Two way audio supported (per channel)
- Hardware motion detection, Digital Input / Output (per channel)
- Serial ports for each channel



### DIMENSION DIAGRAM



Unit: mm [inch]

**ACD-2200****PRODUCT SPECIFICATION**

Video Compression	
Compression	MPEG-4 SP, MJPEG selectable
Picture Resolution	Full D1 (720 x 480 in NTSC, 720 x 576 in PAL) VGA (640 x 480 in NTSC, 640 x 480 in PAL) CIF (352 x 240 in NTSC, 352 x 288 in PAL) QCIF (176 x 120 in NTSC, 176 x 144 in PAL) (per channel)
Bit Rate	28K ~ 3M bps (per channel)
Image Frame Rate	30fps at full D1 resolution (NTSC) 25fps at full D1 resolution (PAL) (per channel)
Multi-stream	Up to 2 configurable frame rate/bit rate streams for preview and recording (per channel)
Video Input	
Composite Input	4, CVBS, 1.0Vp-p with 75Ω loading, BNC Connector
Audio Input	
Compression	8 kHz, Mono, PCM
Audio Line Input	4, Unbalanced, 1.4 Vp-p, 1Vrms, 3.5 mm Phone Jack
Audio Output	
Compression	8 kHz, Mono, PCM
Audio Line Output	4, Unbalanced, 1.4 Vp-p, 1Vrms, 3.5 mm Phone Jack
Alarm	
Input	2, TTL, terminal block (per channel)
Output	2, TTL, terminal block (per channel)
Remote Control	
Serial Port	RS-485: half duplex, terminal block RS-422: full duplex, terminal block RS-232**: full duplex, terminal block (per channel)

External I/O	
Reset Button	Factory default
LED	System status (per channel)
Network	
Ethernet Port	Ethernet (10/100 Base-T), RJ-45 connector
Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP, DNS, DDNS, NTP, ICMP, IGMP, ARP
Software	
Web Browser	Microsoft Internet Explorer 6.0 or above
SDK	ACTI SDK-10000
PTZ Protocol*	Pelco-P_type1, Pelco-P_type2, Pelco-D, Dynacolor, Samsung, VCL, Videotrek, Kampro-V1, Kampro-V2
Security	Password protection: configured by the administrator
Operating	
Temperature	0 °C ~ 40 °C (32 °F ~ 104 °F)
Power	
Power Requirement	DC 12 V ±10%
Power Consumption	16 W
Physical	
Dimensions (WxHxD)	170 mm x 42.7 mm x 149 mm (6.70" x 1.68" x 5.87")
Weight	820 g (1.80 lb)

\* These PTZ protocols are supported in ACTI NVR and Streaming Explorer.  
\*\* Adjust by inside jumper.

**ORDERING INFORMATION**

Model Name	Description
ACD-2200	Wallmount Type 4-channel MPEG-4 Video Server with Two Way Audio