



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

**Request for  
 Quotation**

RFO NUMBER  
 WSH10002

PAGE  
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF  
 ROBERTA WAGNER  
 304-558-0067

RFQ COPY

TYPE NAME/ADDRESS HERE

Miller Communications, Inc.  
 One Wireless Way, STE 100  
 Parkersburg WV 26101

HEALTH AND HUMAN RESOURCES  
 WILLIAM R SHARPE JR HOSPITAL  
 CENTRAL RECEIVING  
 936 SHARPE HOSPITAL ROAD  
 WESTON, WV  
 26452 304-269-1210

DATE PRINTED 07/01/2009	TERMS OF SALE N10	SHIP VIA vendor truck	F.O.B. destination	FREIGHT TERMS Paid
BID OPENING DATE: 08/11/2009		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		990-22		\$164,341.64
<p>*****            MANDATORY PRE-BID MEETING IS SCHEDULED FOR JULY 15,            2009 AT 1:00 PM AT WILLIAM R. SHARPE, JR HOSPITAL,            936 SHARPE HOSPITAL ROAD, WESTON, WV 26452            NO ONE PERSON MAY REPRESENT MORE THAN ONE VENDOR.            *****</p> <p>WILLIAM R SHARPE JR HOSPITAL IS SEEKING BIDS FOR THE            PURCHASE AND INSTALLATION OF AN ACCESS CONTROL SECURITY            SYSTEM DESIGNED TO INCLUDE READER-IN/READER-OUT            CAPABILITIES AT SEVENTEEN (17) EXTERIOR DOORS AT THE            FACILITY. THE SYSTEM MUST MEET FIRE MARSHALL AND OTHER            HOSPITAL REGULATIONS AND REQUIREMENTS</p> <p>(SEE ATTACHED SPECIFICATIONS )</p> <p>VENDOR IS IDENTIFY THE PRODUCT AND PROVIDE PRODUCT            BROCHURES AS TO ABILITY TO MEET THE BID SPECIFICATIONS</p> <p>A MANDATORY VENDOR PREBID CONFERENCE IS SCHEDULED FOR            JULY 15, 2009 AT 1:00 PM IN THE BUSINESS OFFICE OF            WILLIAM R SHARPE JR HOSPITAL, 936 SHARPE HOSPITAL ROAD,            WESTON, WV 26452.</p> <p>INQUIRIES:</p>						

RECEIVED  
 Sealed Bid  
 2009 AUG 19 AM 10:25  
 WV PURCHASING  
 DIVISION

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: *Timothy T. Miller* TELEPHONE: 304-863-8595 DATE: 8/17/2009

TITLE: President FEIN: 55-0565238 ADDRESS CHANGES TO BE NOTED ABOVE

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



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DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
07/01/2009				

BID OPENING DATE: 08/04/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UQP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>WRITTEN QUESTIONS SHALL BE ACCEPTED THROUGH CLOSE OF BUSINESS ON 7/16/2009. QUESTIONS MAY BE SENT VIA USPS, FAX, COURIER OR E-MAIL. IN ORDER TO ASSURE NO VENDOR RECEIVES AN UNFAIR ADVANTAGE, NO SUBSTANTIVE QUESTIONS WILL BE ANSWERED ORALLY. IF POSSIBLE, E-MAIL QUESTIONS ARE PREFERRED. ADDRESS INQUIRIES TO:</p> <p>ROBERTA WAGNER            DEPARTMENT OF ADMINISTRATION            PURCHASING DIVISION            2019 WASHINGTON STREET, EAST            CHARLESTON, WV 25311</p> <p>FAX: 304-558-4115            E-MAIL: ROBERTA.A.WAGNER@WV.GOV</p> <p>NOTICE TO PROCEED: THIS CONTRACT IS TO BE PERFORMED WITHIN 120 CALENDAR DAYS AFTER THE NOTICE TO PROCEED IS RECEIVED.</p> <p>CANCELLATION: 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>WAGE RATES: THE CONTRACTOR OR SUBCONTRACTOR SHALL PAY THE HIGHER OF THE U.S. DEPARTMENT OF LABOR MINIMUM WAG</p> <p>SEE REVERSE SIDE FOR TERMS AND CONDITIONS</p>						

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<p>RATES AS ESTABLISHED FOR LEWIS COUNTY, PURSUANT TO WEST VIRGINIA CODE 21-5A, ET, SEQ (PREVAILING WAGE RATES APPLY TO THIS PROJECT)</p> <p>WORKERS' COMPENSATION: VENDOR IS REQUIRED TO PROVIDE A CERTIFICATE FROM WORKERS' COMPENSATION IF SUCCESSFUL.</p> <p>ALL OF THE ITEMS CHECKED BELOW WILL BE A REQUIREMENT OF THIS CONTRACT:</p> <p>(XX) INSURANCE: SUCCESSFUL VENDOR SHALL FURNISH PROOF OF COMMERCIAL GENERAL LIABILITY INSURANCE PRIOR TO ISSUANCE OF CONTRACT. UNLESS OTHERWISE SPECIFIED IN THE BID DOCUMENTS, THE MINIMUM AMOUNT OF INSURANCE COVERAGE REQUIRED IS \$250,000.</p> <p>CONTRACTORS LICENSE</p> <p>BIDDER TO COMPLETE:</p> <p>CONTRACTORS NAME: MILLER COMMUNICATIONS, INC.</p> <p>CONTRACTORS LICENSE NO.: WV 014483</p> <p>THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FURNISH A COPY OF THEIR CONTRACTORS LICENSE PRIOR TO ISSUANCE OF A PURCHASE ORDER/CONTRACT</p> <p>APPLICABLE LAW</p> <p>THE WEST VIRGINIA STATE CODE, PURCHASING DIVISION RULES AND REGULATIONS, AND THE INFORMATION PROVIDED IN THE "REQUEST FOR QUOTATION" ISSUED BY THE PURCHASING</p>						

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<p>DIVISION IS THE SOLE AUTHORITY GOVERNING THIS PROCUREMENT.</p> <p>ANY INFORMATION PROVIDED IN SPECIFICATION MANUALS, OR ANY OTHER SOURCE, VERBAL OR WRITTEN, WHICH CONTRADICTS OR ALTERS THE INFORMATION PROVIDED FROM THE SOURCES AS DESCRIBED IN THE ABOVE PARAGRAPH IS VOID AND OF NO EFFECT.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.</p> <p>REV. 5/2009</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>PLEASE NOTE: A CONVENIENCE COPY WOULD BE APPRECIATED.</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:-----RW/FILE 22-----</p> <p>REQ. NO.:-----WSH10002-----</p>						

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## SPECIFICATIONS ACCESS CONTROL SECURITY SYSTEM

West Virginia Department of Health and Human Resources  
Bureau for Behavioral Health and Health Facilities  
William R. Sharpe, Jr Hospital  
936 Sharpe Hospital Road  
Weston, West Virginia 26452

### SPECIFICATIONS

William R. Sharpe, Jr Hospital is seeking bids for the purchase and installation of an access control system designed to include reader in/reader out capabilities at seventeen (17) exterior doors at the facility

### GENERAL CONDITIONS

It is the intent of the Hospital to purchase only those services as listed

### SCOPE OF WORK

Install proximity card readers, electronic door hardware & ancillary equipment for seventeen (17) exterior doors at William R. Sharpe, Jr. Hospital

#### System requirements:

- 1 The hardware equipment must be integrated with vendor provided management software, which will be used by the security office, safety office, maintenance department and the switchboard
- 2 The card reader system must be capable of connecting to the existing Edwards EST III fire alarm system and must comply with all Fire Marshall regulations.
- 3 Proximity card readers must be installed at each of the seventeen (17) exterior doors
- 4 A magnetic lock must be installed at each of the seventeen (17) exterior doors
- 5 All computer hardware and software equipment required to run the system
- 6 A system to generate and assign 650 access cards to the staff of the hospital
- 7 The system must be capable of expansion and upgrading to include up to a maximum of seventeen (17) video cameras and a maximum of ten (10) additional doors
- 8 Must have a battery back-up system that can power the product temporarily for fifteen (15) minutes during a power outage
- 9 Two year full warranty on all software, hardware, parts and labor.
- 10 The price must include complete installation and labor for the project at minimum prevailing wages for Lewis County if applicable

The successful vendor must be registered with the State of West Virginia and will be required to provide a valid current contractor's license and proof of liability insurance.

A Notice to Proceed Letter will advise the successful vendor when the project is to start  
The project must be completed within 120 days of the notice to proceed

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: MILLER, COMMUNICATIONS, INC.  
Authorized Signature: *Timothy T. Miller* Date: 8/17/2009

Rev 09/08

## State of West Virginia **VENDOR PREFERENCE CERTIFICATE**

Certification and application\* is hereby made for Preference in accordance with **West Virginia Code, §5A-3-37**. (Does not apply to construction contracts). **West Virginia Code, §5A-3-37**, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the **West Virginia Code**. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

1. **Application is made for 2.5% resident vendor preference for the reason checked:**  
 Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,  
 Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,  
 Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,
2. **Application is made for 2.5% resident vendor preference for the reason checked:**  
 Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
3. **Application is made for 2.5% resident vendor preference for the reason checked:**  
 Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
4.  **Application is made for 5% resident vendor preference for the reason checked:**  
 Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
5. **Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:**  
 Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
6. **Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:**  
 Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

**Under penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.**

**Bidder:** MILLER COMMUNICATIONS, INC. **Signed:** Timothy T. Miller

**Date:** 8/17/2009 **Title:** President

\*Check any combination of preference consideration(s) indicated above which you are entitled to receive



ATTACHMENT  
P O # WSH10002

This agreement constitutes the entire agreement between the parties, and there are no other terms and conditions applicable to the licenses granted hereunder

Agreed

Timothy T. Miller  
Signature                      Date

President  
Title

MILLER COMMUNICATIONS, INC.  
Company Name

\_\_\_\_\_  
Signature                      Date

\_\_\_\_\_  
Title

\_\_\_\_\_  
Agency/Division

WV-96  
Rev. 10/07

**AGREEMENT ADDENDUM**

In the event of conflict between this addendum and the agreement, this addendum shall control:

1. **DISPUTES** - Any references in the agreement to arbitration or to the jurisdiction of any court are hereby deleted. Disputes arising out of the agreement shall be presented to the West Virginia Court of Claims.
2. **HOLD HARMLESS** - Any clause requiring the Agency to indemnify or hold harmless any party is hereby deleted in its entirety.
3. **GOVERNING LAW** - The agreement shall be governed by the laws of the State of West Virginia. This provision replaces any references to any other State's governing law.
4. **TAXES** - Provisions in the agreement requiring the Agency to pay taxes are deleted. As a State entity, the Agency is exempt from Federal, State, and local taxes and will not pay taxes for any Vendor including individuals, nor will the Agency file any tax returns or reports on behalf of Vendor or any other party.
5. **PAYMENT** - Any references to prepayment are deleted. Payment will be in arrears.
6. **INTEREST** - Should the agreement include a provision for interest on late payments, the Agency agrees to pay the maximum legal rate under West Virginia law. All other references to interest or late charges are deleted.
7. **RECOUPMENT** - Any language in the agreement waiving the Agency's right to set-off, counterclaim, recoupment, or other defense is hereby deleted.
8. **FISCAL YEAR FUNDING** - Service performed under the agreement may be continued in succeeding fiscal years for the term of the agreement, contingent upon funds being appropriated by the Legislature or otherwise being available for this service. In the event funds are not appropriated or otherwise available for this service, the agreement shall terminate without penalty on June 30. After that date, the agreement becomes of no effect and is null and void. However, the Agency agrees to use its best efforts to have the amounts contemplated under the agreement included in its budget. Non-appropriation or non-funding shall not be considered an event of default.
9. **STATUTE OF LIMITATION** - Any clauses limiting the time in which the Agency may bring suit against the Vendor, lessor, individual, or any other party are deleted.
10. **SIMILAR SERVICES** - Any provisions limiting the Agency's right to obtain similar services or equipment in the event of default or non-funding during the term of the agreement are hereby deleted.
11. **ATTORNEY FEES** - The Agency recognizes an obligation to pay attorney's fees or costs only when assessed by a court of competent jurisdiction. Any other provision is invalid and considered null and void.
12. **ASSIGNMENT** - Notwithstanding any clause to the contrary, the Agency reserves the right to assign the agreement to another State of West Virginia agency, board or commission upon thirty (30) days written notice to the Vendor and Vendor shall obtain the written consent of Agency prior to assigning the agreement.
13. **LIMITATION OF LIABILITY** - The Agency, as a State entity, cannot agree to assume the potential liability of a Vendor. Accordingly, any provision limiting the Vendor's liability for direct damages to a certain dollar amount or to the amount of the agreement is hereby deleted. Limitations on special, incidental or consequential damages are acceptable. In addition, any limitation is null and void to the extent that it precludes any action for injury to persons or for damages to personal property.
14. **RIGHT TO TERMINATE** - Agency shall have the right to terminate the agreement upon thirty (30) days written notice to Vendor. Agency agrees to pay Vendor for services rendered or goods received prior to the effective date of termination.
15. **TERMINATION CHARGES** - Any provision requiring the Agency to pay a fixed amount or liquidated damages upon termination of the agreement is hereby deleted. The Agency may only agree to reimburse a Vendor for actual costs incurred or losses sustained during the current fiscal year due to wrongful termination by the Agency prior to the end of any current agreement term.
16. **RENEWAL** - Any reference to automatic renewal is hereby deleted. The agreement may be renewed only upon mutual written agreement of the parties.
17. **INSURANCE** - Any provision requiring the Agency to insure equipment or property of any kind and name the Vendor as beneficiary or as an additional insured is hereby deleted.
18. **RIGHT TO NOTICE** - Any provision for repossession of equipment without notice is hereby deleted. However, the Agency does recognize a right of repossession with notice.
19. **ACCELERATION** - Any reference to acceleration of payments in the event of default or non-funding is hereby deleted.
20. **CONFIDENTIALITY** - Any provision regarding confidentiality of the terms and conditions of the agreement is hereby deleted. State contracts are public records under the West Virginia Freedom of Information Act.
21. **AMENDMENTS** - All amendments, modifications, alterations or changes to the agreement shall be in writing and signed by both parties. No amendment, modification, alteration or change may be made to this addendum without the express written approval of the Purchasing Division and the Attorney General.

ACCEPTED BY:

**STATE OF WEST VIRGINIA**

Spending Unit: \_\_\_\_\_

Signed: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

**VENDOR**

Company Name: Miller Communications, Inc.

Signed: Timothy T. Miller

Title: President

Date: 8/17/2009



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ADDENDUM NO. 3 1. TO MOVE THE BID OPENING DATE FROM 8/18/2009 TO 8/20/2009. 2. ADDENDUM ACKNOWLEDGEMENT IS ATTACHED. THIS DOCUMENT SHOULD BE SIGNED AND RETURNED WITH YOUR BID. FAILURE TO SIGN AND RETURN MAY RESULT IN DISQUALIFICATION OF YOUR BID. EXHIBIT 10  REQUISITION NO.: WSH10002  ADDENDUM ACKNOWLEDGEMENT  I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.  ADDENDUM NO.'S: NO. 1 <i>[Signature]</i> NO. 2 <i>[Signature]</i> NO. 3 <i>[Signature]</i> NO. 4 ..... NO. 5 .....  I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF TH						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Timothy T. Miller</i>	TELEPHONE 304-863-8595	DATE 8/17/2009
TITLE President	FEIN 55-0565238	ADDRESS CHANGES TO BE NOTED ABOVE

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VENDOR

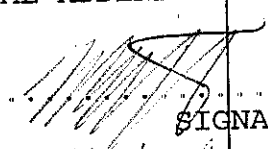
\*709044415      304-863-8595  
 MILLER COMMUNICATIONS INC  
 ONE WIRELESS WAY STE 100  
 PARKERSBURG WV 26101

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<p>ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF 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 style="text-align: center;">             SIGNATURE            Miller Communications Inc            COMPANY            08-14-2009            DATE         </p> <p>REV. 11/96</p> <p style="text-align: center;">END OF ADDENDUM NO. 3</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
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TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
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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:  
 WSH10002

PAGE:  
 3

ADDRESS CORRESPONDENCE TO ATTENTION OF:  
 ROBERTA WAGNER  
 304-558-0067

V  
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\*709044415 304-863-8595  
 MILLER COMMUNICATIONS INC  
 ONE WIRELESS WAY STE 100  
 PARKERSBURG WV 26101

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HEALTH AND HUMAN RESOURCES  
 WILLIAM R. SHARPE JR. HOSPITAL  
 CENTRAL RECEIVING  
 936 SHARPE HOSPITAL ROAD  
 WESTON, WV 26452  
 304-269-1210

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
08/04/2009				

BID OPENING DATE: 08/20/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		990-22		
ACCESS CONTROL SECURITY SYSTEM						
***** THIS IS THE END OF RFQ WSH10002 ***** TOTAL:						\$164,341.64
<i>Note</i>						
<i>Quote to Add on</i>						\$40,534.19
<i>21 cameras and integrate w/ Access Control system</i>						
<i>Quote to expand system to include ten more doors w/cameras</i>						\$87,937.80

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

## 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, the State may deem this contract null and void, and terminate such contract 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 workplace policy in compliance with the West Virginia Alcohol 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."

---

### 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 FOB 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



Contractor #: WV14483

**One Wireless Way, Suite 100  
Parkersburg, WV 26101**

**Tel: (304) 863-8000  
Fax: (304) 863-3786**

To: William R. Sharpe, Jr. Hospital  
Attn: Roberta Wagner  
Phone: (304) 558-0067  
Date: 8/17/2009

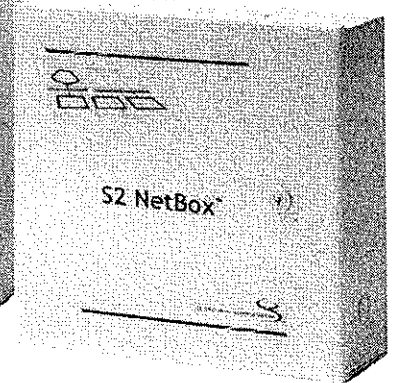
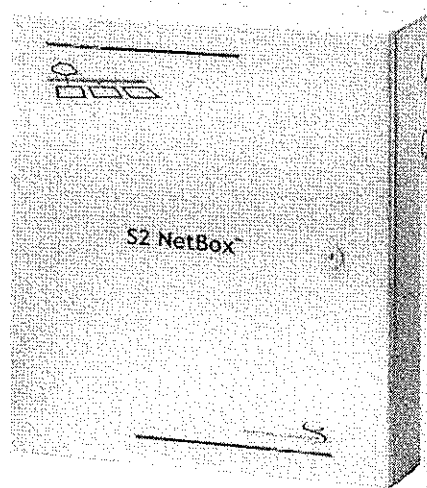
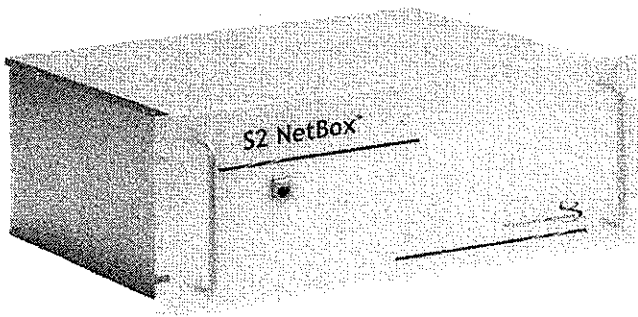
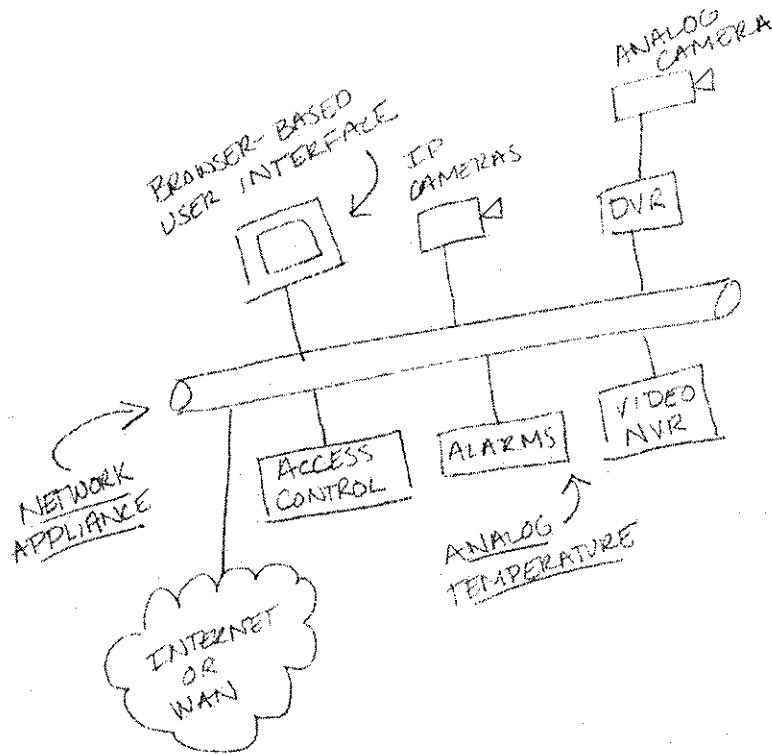
I have three sections listed below. The first is the cost to install an access control system made by S2 Securities to cover the 21 doors you specified on the maps including the all hardware and labor necessary to complete the system and meet all fire codes. The second section is the cost to add 21 cameras to the facility with DVR's and to be able to integrate them into the Access control system proposed in section one. All camera are outdoor vandal proof Panasonic units and the DVR's are Panasonic 16 channel units. The third section is the cost to expand the existing access control and camera systems to include ten more doors with cameras. Again all hardware and installation labor is included in this price.

**Access Control System**

QTY	BRAND	MODEL	DESCRIPTION	UNIT PRICE	AMOUNT
1	S2	S2-NN-E2R-WM	S2 Network Node with 2 readers, 4 inputs, 4 outputs capability	\$ 1,674.28	\$ 1,674.28
20	S2	S2-NDMN	S2 NetDoor MicroNode,	\$ 992.85	\$ 19,857.00
1	S2	S2-NC-M200	License for up to 32 Portals, 32 Nodes, 10 concurrent users.	\$ 2,785.71	\$ 2,785.71
4	Seco-Larm	E941S-1K2/ZQ	Z-Bracket for In-Swing Doors	\$ 87.12	\$ 348.48
33	Seco-Larm	SL-SD969S18	Armored Door Cords, 18 inches	\$ 20.71	\$ 683.43
12	Detex	DEx04EXx1P-1	1 pair Door kit w mag locks and delay egress for 30 sec	\$ 5,307.14	\$ 63,685.68
9	Detex	DEx40EXx1S-1	1 door kit w/mag lock and delay egress	\$ 4,257.14	\$ 38,314.26
21	Altronix	AL-AL175ULX	Dual output, 1 75A Power Supply	\$ 162.14	\$ 3,404.94
42	HID	HU-5365EGP00	MiniProx Reader, Gray, Pigtail, Mullion Mount	\$ 178.55	\$ 7,499.10
3000	Hold-Key	158652	2 conductor Fire Alarm Wire, 18/2	\$ 0.15	\$ 450.00
2000	Hold-Key	101154	Cat 5e, non-plenum	\$ 0.07	\$ 140.00
42	Ultratech	IM-1270	Backup Batteries, 12VDC, 7Ah	\$ 23.78	\$ 998.76
			Miscellaneous hardware and materials		\$ 500.00
			Installation Labor		\$ 24,000.00
				<b>Total Materials</b>	<b>\$ 140,341.64</b>
				<b>Total Labor</b>	<b>\$ 24,000.00</b>
				<b>Total</b>	<b>\$ 164,341.64</b>

# S2 NetBox™

Enterprise security management system



**S2 SECURITY CORPORATION**

*Integrated security for an IP-connected world.*



## Start with a clean sheet...

The system designers at S2 had a clear vision: set aside the 20 year-old design patterns used by other integrated systems in the market today and start over—with a clean sheet.

### Our goals were to:

- Make the system truly open; don't force the customer to buy from a single reseller or manufacturer.
- Utilize the resources that the system owners already have: networks, web browsers, installed card readers and cameras.
- Focus on minimizing the cost of the system—not just the purchase cost but the entire life cycle cost.
- Recognize that facilities can be large or small.
- Understand that enterprises may have a mixture of both; that they can be staffed or operate unattended.
- Realize that systems require maintenance but don't require that it be done on-site.

And, most of all make the system ultra-reliable. Remove the moving parts so there is nothing to break. Don't install client software that can conflict with or be conflicted by other software.

## Superior Total Cost of Ownership

When compared with other systems, the S2 NetBox offers a superior total cost of ownership (TCO). At the initial purchase, the S2 NetBox typically costs the same or less than other systems of comparable scale. But that's where the similarity ends:

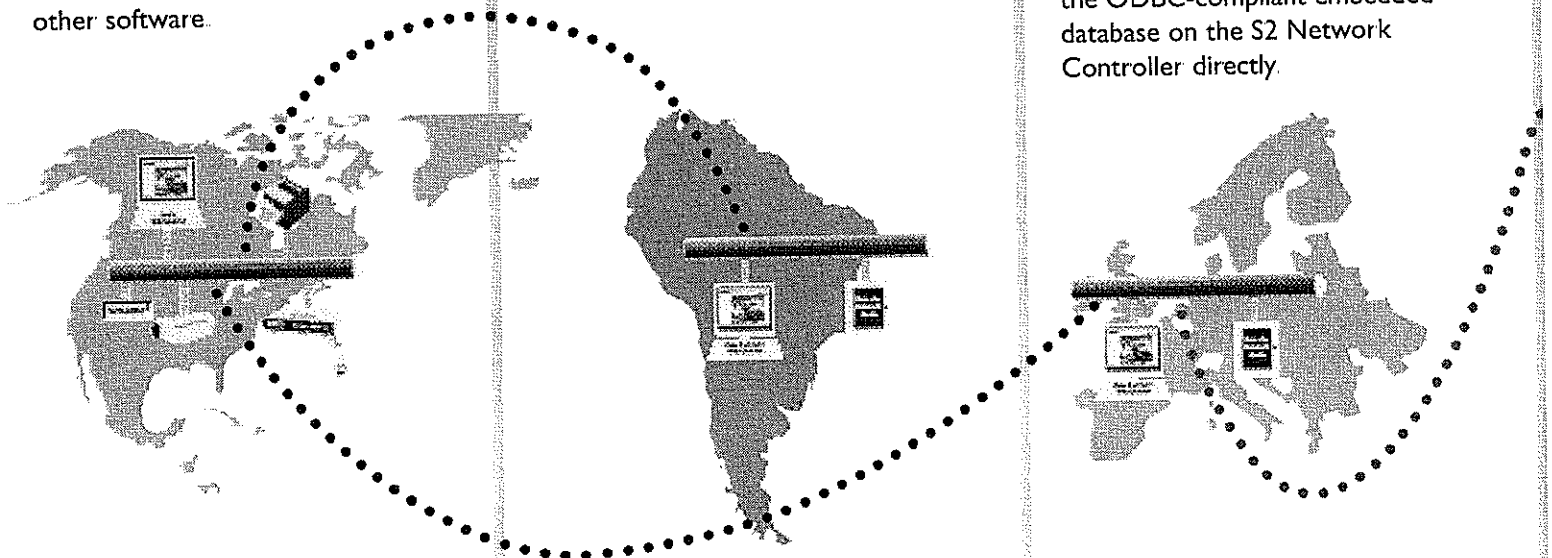
- Significantly reduced cost of installation due to the advanced, 3rd generation network architecture;
- Minimal training and operating cost due to the easy-to-use web browser-based interface;
- Vastly reduced cost of maintenance which is typically performed offsite, over the LAN, WAN, or even the public Internet. Even software updates are performed online;
- Solid state design means no moving parts to wear out.

Throughout its entire life cycle, S2 NetBox systems simply cost less to own.

## A truly open platform.

Unlike older generation products on the market today that may claim to be open, the S2 NetBox is a truly open platform with readily available APIs and data security built into the communications architecture.

- The S2 NetBox manages its API transactions through a web service that communicates using XML data packets with embedded authentication codes.  
Despite the advanced programming capability offered by the S2 NetBox API and database management system, most users will never need them.
- The S2 NetBox can automatically write transaction data in spreadsheet format to a designated network-attached PC
- The available data migration tool allows import of personnel data from other systems without any programming at all.
- As with other sensitive components of the S2 NetBox, enabling the ODBC service and setting the database password are done by the user.
- Custom applications do not need the full power of the API can use the ODBC-compliant embedded database on the S2 Network Controller directly.



## Scalability for the widest application range.

Security systems are typically designed for large applications or small ones. Often the large ones are feature rich but very expensive. The small ones may be economical but they lack features. The S2 NetBox is a new class of system.

- Every S2 NetBox is full-featured, bringing sophisticated capabilities to small and large applications alike;
- Applications scale by simply adding additional S2 NetBox hardware anywhere on the network;
- Optional software modules integrate advanced functions such as photo ID production, retrieval of stored video, and more.

S2 constantly adds additional standard and optional features to the S2 NetBox platform. Third party solutions including data security integration are also available to integrate with the S2 NetBox.

## Freedom from the constraints of geography.

You may be familiar with systems that have to be operated from a single location or have their components located a particular distance from a server. Not so with the S2 NetBox – geography just doesn't matter.

- Users can be located any place that the LAN, WAN, or public Internet can reach. That means that systems can be operated remotely, centrally, or locally;
- System components can likewise be located anywhere on the network;
- S2 components self-secure, assuring that communications over shared network segments is protected against tampering;
- Customer service is delivered online, reducing the time to resolve customer issues to a minimum and making the experience much more comfortable.

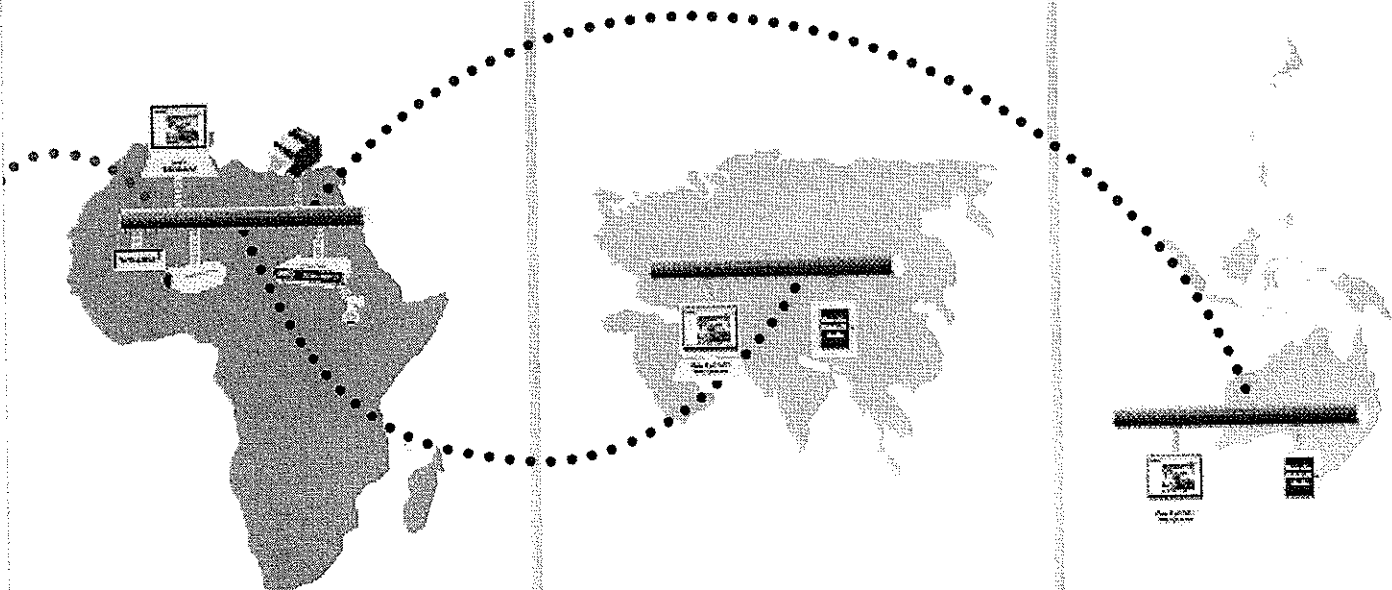
S2 NetBox systems contain a host of additional capabilities designed to enhance user mobility and flexibility of configuration, eliminating the need to be tied to any particular location.

## Unsurpassed quality of service.

While most users will never need to call upon our customer care team, those that do receive an unsurpassed level of service.

- Support technicians are live, available, and located at our engineering center steps away from technical engineering staff that can answer any level of question;
- Online collaboration software built into each S2 NetBox links users, support people, and integrators in real time, cutting investigation time to a fraction of what it would otherwise be;
- Downloadable software updates can replace all software in every system component in a single operation.

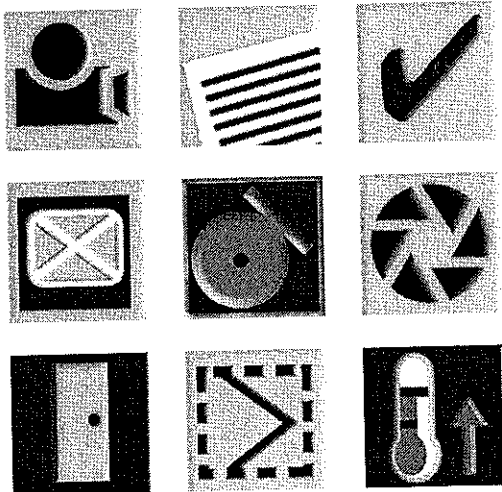
At S2, respect for our customers' time is as important as any other aspect of our business.



**The S2 NetBox is the first integrated security management system to offer an open platform, solid state network appliance architecture. With the S2 NetBox, you can create systems that scale from small buildings or offices to global enterprises – all with a common set of components.**

Capabilities of the S2 NetBox include:

- Access control
- Identity management and photo ID
- Event and alarm monitoring
  - Alarm panel integration
  - Temperature monitoring
    - Video surveillance
    - VoIP intercom
  - Historical reporting



## Architecture

- IP-based, solid state open platform network appliance
- User interface completely browser-delivered
- Zero footprint means no client software installation
- Fully distributed ODBC-compliant database
- SSL and SHA-1 data protection
- Modular system expansion with graphical setup
- Network secure API and available SDK
- Linux operating system on network controller

## Access Control

- Integrated photo ID system with video verification
- Dual reader support with optional keypad
- Elevator access control
- Programmable access rules by threat level
- Multiple cards per person and multiple card formats
- Freeform history report specification
- Card format decoder discovers unknown formats quickly

## Event Monitoring

- Monitoring Desktop integrates video surveillance
- Event annunciation with color, sound, and video
- One-click video event recall
- Video recording on event detection
- Graphical floorplan display
- Event actions programmable by threat level
- Email and SMS messaging to mobile phone on alarm activation
- Integrates common central station alarm panels

## Video Management

- Seamless integration with access control and alarm functions
- Single user interface for digital video recorder (DVR), network video recorder (NVR), and IP camera display
- Automatic video callup on event initiation
- Video motion detection generates system events
- One-click access to historical video
- Integrated camera telemetry functions in all displays
- Video recording integrated with access control

**S2 Security Corporation**  
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 Fax: +1 781 237 4141

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 Kitchener Complex  
 Singapore 200808  
 Singapore  
 Tel: +65 65658916



[www.s2sys.com](http://www.s2sys.com)

MiniProx® Proximity Card Reader • 5365 (Wiegand), 5368 (Clock-and-Data)



**ACCESS** reliability.

#### Application

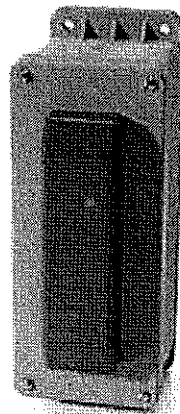
The MiniProx® proximity card reader's potted electronics enhance the security of the reader. The slim, attractive design is ideal for indoor or outdoor mounting.

#### Features

- ▶ Accepts 5 to 16 volts, meeting most voltage requirements.
- ▶ Available with Wiegand or Clock-and-Data interface.
- ▶ Allows easy upgrade from magstripe to a proximity reader; no rewiring or pulling of new cable required
- ▶ Offers high reliability, consistent read-range and low power consumption in an easy-to-install package
- ▶ Mounts directly onto metal with no change in read range performance.
- ▶ Provides multicolor LED, compatibility with all standard access control systems and internal or host control of LED and beeper.
- ▶ Includes multilingual installation manual.

<b>Mounting</b>	Unobtrusive design mounts directly onto metal including door or mullions.
<b>Hazardous Location MiniProx® Reader Mounting</b>	Designed to mount onto a junction box included with each reader. The junction box is attached to an appropriate surface location utilizing four holes.
<b>Audiovisual Indication</b>	When a proximity card is presented to the reader, the red LED flashes green and the beeper sounds. The multicolor LED and beeper can also be controlled individually by the host system.
<b>Diagnostics</b>	On reader power-up, an internal self-test routine checks and verifies the setup configuration, determines the internal or external control of the LED and beeper, and initializes reader operation. An additional external loop-back test allows for the reader outputs and inputs to be verified without the use of additional test equipment.
<b>Indoor/outdoor Design</b>	Sealed in a rugged weatherized polycarbonate enclosure designed to withstand harsh environments, providing reliable performance and a high degree of vandal resistance.
<b>Easily Interfaced</b>	Wiegand output model interfaces with all existing Wiegand protocol access control systems. Clock-and-Data (magnetic stripe) model interfaces with most systems that accept magnetic stripe readers.
<b>Security</b>	Recognizes card formats up to 85 bits with over 137 billion unique codes.
<b>Warranty</b>	Lifetime warranty against defects in materials and workmanship (see complete sales policy for details).
<b>Part Numbers</b>	Base Part No.: 5365 Wiegand interface Base Part No.: 5368 Clock-and-Data interface Description: Tri-State LED, Internal beeper on Options: <ul style="list-style-type: none"> <li>• CLASSIC series cover in white, beige, charcoal gray or black (or)</li> <li>• Designer series cover in white, wave blue, charcoal gray or black</li> <li>• LED and beeper operation</li> <li>• custom label</li> </ul> † Hazardous Location MiniProx® only available with terminal strip.  (Please see "How to Order Guide" for a description of the options and associated part numbers.)

Hazardous Location MiniProx shown with incorporated junction box rated for use in hazardous locations.



**Typical Maximum\* Read Range**

- ProxCard® II card - up to 5.5" (14 cm)
  - ISOProx® II card - up to 5" (12.7 cm)
  - DuoProx® II card - up to 5" (12.7 cm)
  - Smart ISOProx®/DuoProx® cards - up to 5" (12.7 cm)
  - Proximity & MIFARE® card - up to 5" (12.7 cm)
  - ProxCard® Plus card - up to 2" (5.1 cm)
  - ProxKey® II keyfob - up to 2" (5.1 cm)
  - MicroProx® Tag - up to 2.5" (6.4 cm)
- \*Depending on local installation conditions

**Dimensions:**

6.0" x 1.7" x 1.0"  
(15.2 x 4.3 x 2.54 cm)

**Material:** Polycarbonate UL 94

**Power supply:**

Standard MiniProx: 5-16 VDC  
Haz. Loc. MiniProx: 5-16 VDC  
Linear power supplies are recommended

**Current requirements:**

Max. Average: 30 mA  
Typ. Peak: 75 mA

**Operating temperature:**

-22° to 150° F (-30° to 65° C)

**Operating humidity:**

0-95% relative humidity non-condensing

**Weight:**

With terminal strip: 3.5 oz. (99 g)  
With pigtail: 3.8 oz. (108 g)  
Haz. Loc. MiniProx: 3.8 oz. (108 g)

**Transmit frequency:** 125 kHz

**Excite frequency:** 125 kHz

**Cable distance:**

Wiegand interface: 500 feet (150 m)  
Clock-and-Data interface: 50 feet (15 m)  
Recommended cable is ALPHA 1295 (22 AWG) 5 conductor minimum stranded with overall shield or equivalent. Additional conductors may be required for LED or beeper control.

**Environmental:** IP55

**Certifications:**

UL294/cUL (US), FCC Certification (US), IC (Canada), CE (EU), C-tick (Australia, New Zealand), SRRC (China), MIC (Korea), NCC (Taiwan), MIC (Japan), iDA (Singapore), RoHS

**Hazardous Part Only:** Canada/UL 1604 Listed (with Haz. Loc. junction box only); Hazardous Locations Class 1, Div. 2, Groups A, B, C, D

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PKT1161BPROX-DS-EN



**ACCESS experience.**

[hidglobal.com](http://hidglobal.com)

**HID Global Offices:**

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U.S.A.  
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Phone: (949) 732-2000  
Fax: (949) 732-2360

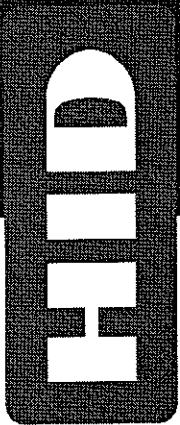
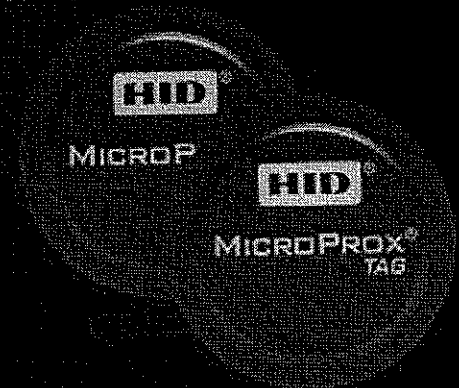
**Asia Pacific**  
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Island East  
Hong Kong  
Phone: +852 3160-9800  
Fax: +852 3160-4309

**Latin America**  
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Despacho 2  
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Leon 27160, Gto.  
Mexico  
Phone: +52 477 779 1492  
Fax: +52 477 779 1493

**Europe, Middle East & Africa**  
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Phoenix Road  
Haverhill  
Suffolk  
CB9 7AE  
England  
Phone: +44 (0) 1440 714 850  
Fax: +44 (0) 1440 714 840

# MicroProx Tag

125 kHz Proximity Tag with Adhesive Back • I391



**ACCESS** reliability.

## Application

The MicroProx® Tag provides the convenience of HID's proximity technology in a small disk-shaped transponder. Simply attach the adhesive-backed Tag to any nonmetallic card or device, and you instantly have a proximity card!

## With the MicroProx Tag you can:

- ▶ Seamlessly upgrade from Wiegand, magnetic stripe or barium ferrite technologies by simply adhering the Tag to your existing access card
- ▶ Easily and cost-effectively turn a plastic ID badge or contact smart chip card into a proximity credential!
- ▶ Add proximity access control capability to users' cell phones, PDAs and other similar nonmetallic devices.

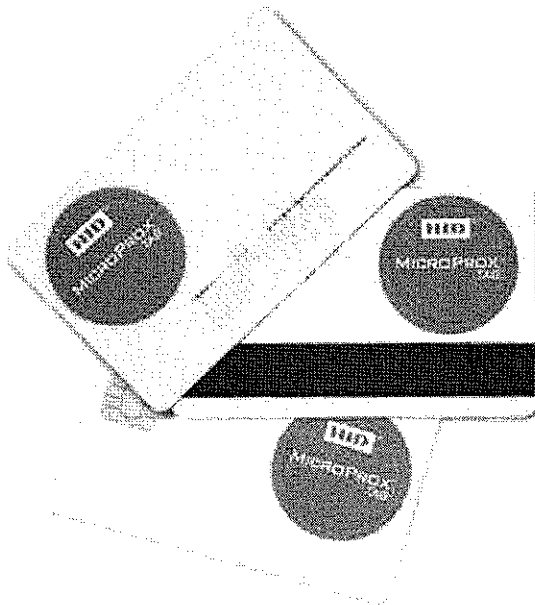
Experience the convenience of proximity without the expense of rebadging!

## Features

- ▶ Offers consistent read range and reliable operation.
- ▶ The size of a coin, the Tag easily attaches to all nonmetallic materials
- ▶ The Tag can be programmed in any HID proximity format, and is compatible with all HID proximity readers.
- ▶ The Tag is RF-programmable for ease of encoding with HID's ProxProgrammer®.

# MicroProx® Tag

<b>Description</b>	RF programmable 125 kHz, customer specified numbers
<b>Proven, Reliable Technology</b>	Offers extremely consistent read range. Unaffected by body shielding or variable environmental conditions even when close to keys and coins.
<b>Security</b>	Over 1 9x10 <sup>25</sup> unique codes available.
<b>Long Life</b>	Passive no-battery design allows for an infinite number of reads.
<b>Warranty</b>	Warranted against defects in materials and workmanship for two years from date of shipment. (See warranty policy for details.)



Sample placement shown - actual placement will depend on application. Due to variations in cards and reading devices, HID does not claim that the MicroProx® Tag will work in every situation. Functional and non-functional MicroProx Tags are available for compatibility testing with existing credential and reader technologies. Compatibility should be confirmed prior to ordering.

## Typical Maximum\* Read Range

- ProxPoint® Plus reader up to 2.0" (5.1 cm)
  - MiniProx® reader up to 2.25" (5.7 cm)
  - ThinLine™ II reader up to 2.5" (6.4 cm)
  - Prox80™ reader up to 2.25" (5.7 cm)
  - ProxPro™ II reader up to 3.5" (8.9 cm)
  - ProxPro™ reader up to 4" (10.2 cm)
  - MaxiProx® reader up to 4.5" (11.4 cm)
- \*Depending on local installation conditions.

## Data Storage

Up to 84 bits (Over 1 9x10<sup>25</sup> codes)

## Dimensions

Diameter: 1.285" (32.64 mm)  
Thickness: 0.070" (1.78 mm)

## Outer Shell Material

Lexan

## Operating Temperature

-50° to 160° F (-45° to 70° C)

## Weight

0.04 oz (1.18 g)

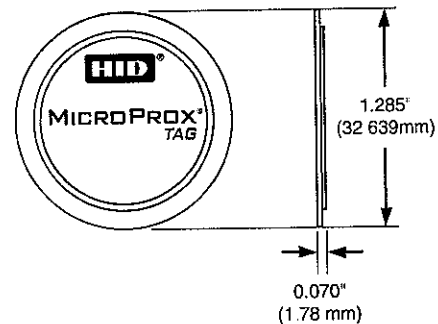
## Part Number

Base Part No: 1391

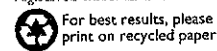
## Options

Color - black or gray

(Please see 'How to Order Guide' for a description of the options and associated part numbers.)



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MKT-MICROPROX\_DS\_EN



**ACCESS** experience.

[hidcorp.com](http://hidcorp.com)

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**Corporate North America**  
9292 Jeronimo Road  
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U.S.A.  
Phone: (800) 237-7769  
Phone: (949) 598-1600  
Fax: (949) 598-1690

**Asia-Pacific**  
19/F 625 King's Road  
North Point  
Island East  
Hong Kong  
Phone: +852 3160-9800  
Fax: +852 3160-4809

**Latin America**  
Circunvalacion Ore. #201 B  
Despacho 2  
Col. Jardines del Moral  
Leon 37160, Gro.  
Mexico  
Phone: +52 477 779 1492  
Fax: +52 477 779 1493

**Europe, Middle East & Africa**  
Homefield Road  
Haverhill, Suffolk  
CB9 8QP  
England  
Phone: +44 (0) 1440 714 850  
Fax: +44 (0) 1440 714 840

# EasyKit®

## DEX10 DEX20/21 DEX30 DEX40 DEX50/51

### Delayed Egress

The DE EasyKits provide a secure 2-point locking system with 15-second delay and 100dB alarm when someone attempts to exit. The DE EasyKit is ideal for retail stores, healthcare, assisted-living facilities, childcare, sports arenas and any location where a special locking delayed exit is required to prevent theft or to protect those trying to exit.



Logic Controller/  
Power Supply



Code Compliant  
Door Sign



Advantex  
Exit Device



1500 lb.  
Electromagnetic  
Lock



Horn



Key  
Switch

Also Includes:  
Mortise Cylinder,  
Riser Illustration  
and  
Wiring Diagram

(Shown with 10 Series Rim Exit Device - Available with 10/40 Rim, 30 Mortise and 20/21/50/51 Surface Vertical Rod Devices)

### Benefits -

- Best-in-class components provide for fast, easy installation
- All hardware items provided with one easy-to-order, easy-to-specify part number
- Controls foot traffic deters unauthorized exits, reduces employee and customer theft while providing a life safety, code-compliant application
- Key switch with LED's and horn are mounted on the wall, protecting the electronics from swinging into the weather

### Features -

- Configured Delayed Egress EasyKit includes all hardware, instructions, riser illustration and point-to-point wiring diagram
- Factory-programmed, pre-wired delayed egress controller / power supply
- Advantex panic device has stainless steel deadlocking Pullman-type latch bolt
- 100dB Alarm
- Electromagnetic lock has 1500+ lbs of holding force
- Form C, momentary key switch with green and red LEDs, arms disarms and resets system
- Code-compliant delayed egress signage
- Hardware is non-handed (10/40) or reversible
- Fire Alarm override connected at controller / power supply
- Remote bypass and signaling options available
- Heavy-duty angled end cap deflects damage away from panic device
- Available in various configurations, for single and paired openings
- Easily add various access control options with or without an anti-tailgating option

### Mechanical Options -

- F - 3 Hour Fire Rated
- H - Hurricane Rated
- CD - Cylinder Dogging
- LD - Less Dogging
- 36 - Fits 36" Door Width (Std.)
- 48 - Fits 48" Door Width
- 99 - Surface Strike
- 98 - Semi Mortise Strike

### Electrical Options -

- 1 to 3 second adjustable nuisance alarm
- 120 Volt in/24 Volt out (Std.)
- Also available 277 Volt and 240 Volt



**Accessories -**

- SN1 – Sex Nut Fasteners
- GB - Glass Bead Kits
- SSK - Torx Security Screw Kit
- Various brackets/spacers for Magnetic Lock(s)

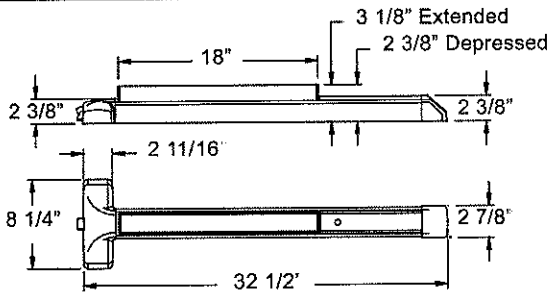
**Technical Information -**

- Door Types - Wood, Hollow Metal, Fiberglass or Aluminum
- Minimum Stile - Advantex 10, 20 Series: 4-5/8" with surface strike or 4-1/8" with optional semi-mortise strike
- Minimum Stile - Advantex 40, 50 Series: 2" with standard semi-mortise strike or 2-1/2" with optional surface strike

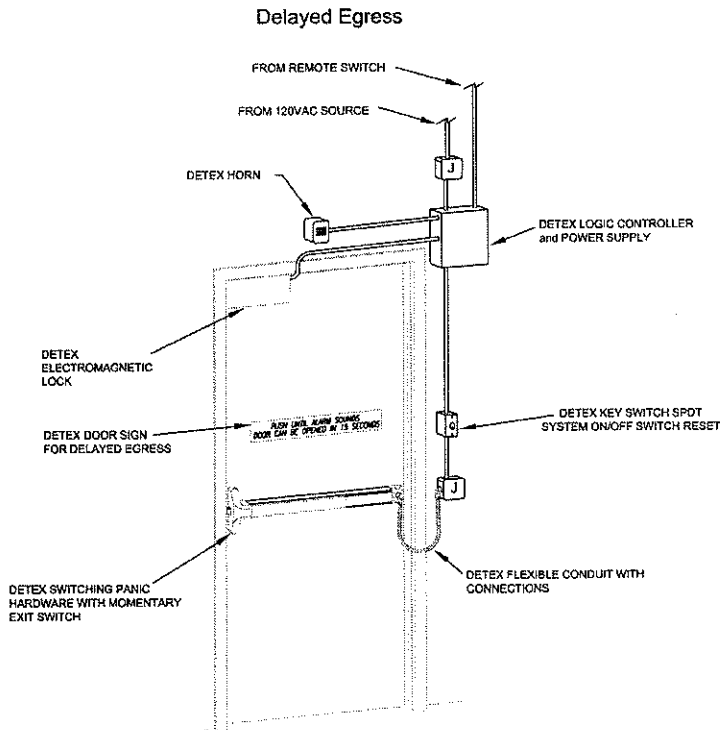
**Finishes -**

605 / US3	Polished Brass	612 / US10	Brushed Bronze	629 / US32	Polished Stainless Steel
606 / US4	Brushed Brass	613 / US10B	Oil Rubbed Bronze	630 / US32D	Brushed Stainless Steel
611 / US9	Polished Bronze				

**Dimensions - (10 Series Shown)**



**Riser Diagram -**



**Listings and Approvals - Advantex**

- UL Listed Panic Hardware
- UL Listed Fire Exit Hardware for 3 hours, maximum
- UL Listed 4x10' single doors and pairs of 4x8' with F90KR keyed removable Mullion
- Meets ADA requirements
- UBC 97, Standard 7-2 and UL10C for positive pressure
- ANSI/BHMA certified A156.3
- Meets NFPA 80 & 101 for Life Safety
- Miami-Dade County, Florida NOA 04-0810 04 EXP 04/07/10 } 10/40 Series Only
- California State Fire Marshall - 4140-0127-105

**Detex Limited Warranty -**

Advantex - 10 Year Mechanical / 3 Year Electrical Manufacturers Limited Warranty



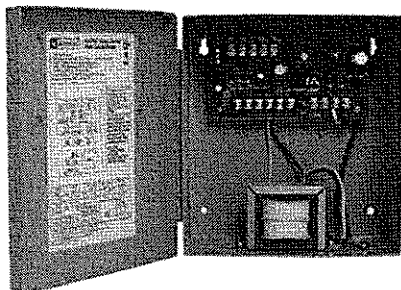
Detex Corporation  
 302 Detex Drive  
 New Braunfels, Texas 78130-3045 USA  
 PH (830) 629-2900  
 (800) 729-3839  
 FAX (830) 620-6711  
 (800) 653-3839  
<http://www.detex.com>  
 USA Sales:  
[marketing@detex.com](mailto:marketing@detex.com)  
 International Sales:  
[export@detex.com](mailto:export@detex.com)



# AL175UL, AL175ULX Multi-Output Power Supply Chargers w/Fire Alarm Interface

Rev. DSAL175UL - A26F

## Overview



- These Altronix power limited power supply/chargers that will convert 115VAC / 60Hz input, into two individually PTC protected 12VDC or 24VDC output, (see specifications)

### AL175UL

- 12VDC or 24VDC @ 1.75 amp supply current.

### AL175ULX

- AL175UL w/larger enclosure

## Specifications

- 12VDC or 24VDC selectable output
- 1.75 amp continuous supply current.
- Class 2 Rated power limited outputs.
- Filtered and electronically regulated output.
- Short circuit and thermal overload protection.
- Maximum charge current: 400mA
- Aux relay output (form "C" contacts).
- Automatic switch over to stand-by battery when AC fails.
- AC fail supervision (form "C" contacts).
- AC input and DC output LED indicators.
- Product weight:
  - AL175UL: 5.2 lbs.
  - AL175ULX: 8.4 lbs.
- Shipping weight:
  - AL175UL: 5.7 lbs
  - AL175ULX: 9.4 lbs.

## Agency Approvals



UL Listed for Access Control System Units (UL 294).



CUL Listed - CSA Standard C22 2 No 205-M1983, Signal Equipment



Approved

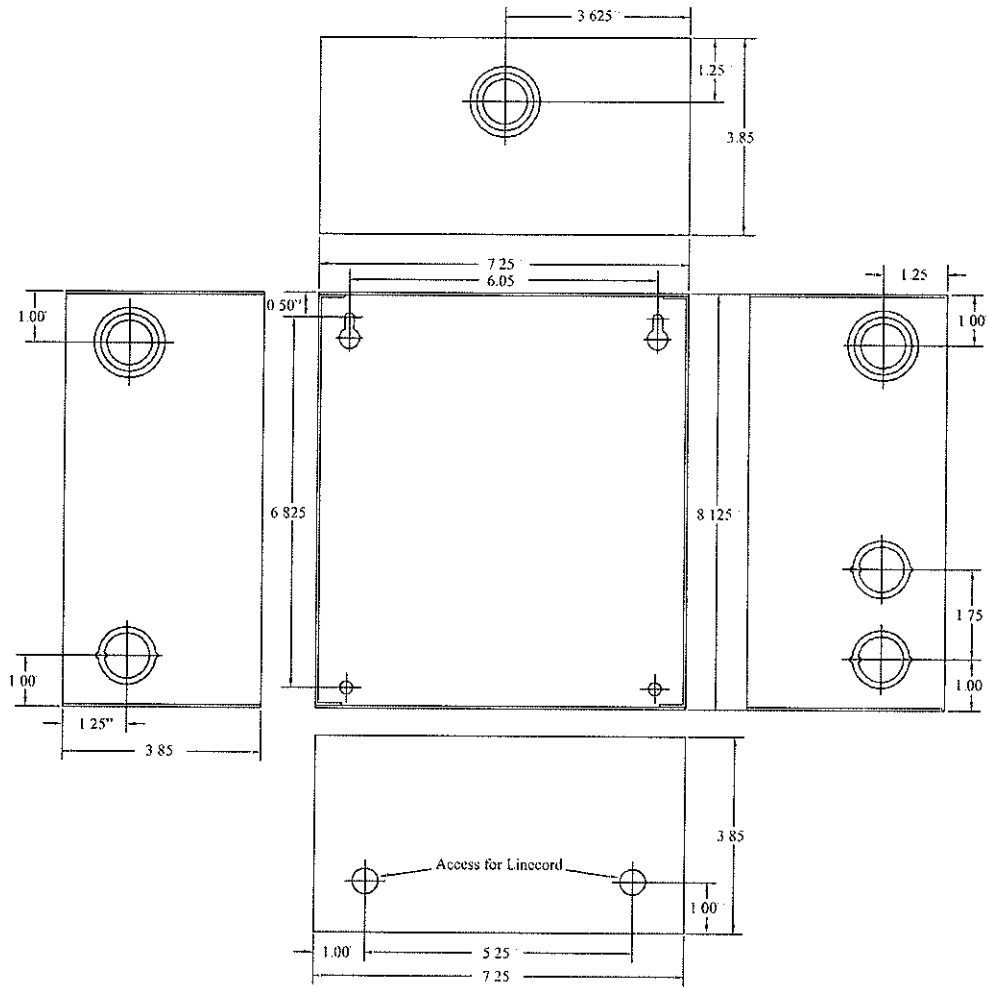
NYC Department of Buildings Approved



California State Fire Marshal Approved

# Enclosure Dimensions

8.5"H x 7.5"W x 3.75"D



**21 Camera Add on**

QTY	BRAND	MODEL	DESCRIPTION	UNIT PRICE	AMOUNT
3000	TeleData		Coaxial Cable, RG59	\$ 0 30	\$ 900 00
2	Panasonic	WJHD316A2000T	DVR, 2000GB hard disk drive, 16 channel (1000GB base HDD)	\$ 5,807 14	\$ 11,614 28
21	Panasonic	WVCW484S	Panasonic Outdoor/Vandal proof camera, IP66 Rating, SuperDynamicIII & Day/Night Technology, anti-shock Auto-BackFocus, surface mount	\$ 618 57	\$ 12,989 97
2	Altronix	ALTV2416350	Altronix Camera Power Supply, 16 Fuse Protected Outputs, 24Vac @ 14 Amp or 28Vac @ 12 5 Amp, 115Vac Input, Grey Enclosure	\$ 175 71	\$ 351 42
1	S2	S2-DVR-DM	DVR Integration, DM, incl. up to 4 cameras	\$ 357 14	\$ 357 14
17	S2	S2-DVR-CAM	DVR Integration, DM per camera, beyond initial 4	\$ 107 14	\$ 1,821 38
			Miscellaneous hardware and materials		\$ 500 00
			Installation Labor		\$ 12,000 00
				<b>Total Materials</b>	<b>\$ 28,534 19</b>
				<b>Total Labor</b>	<b>\$ 12,000 00</b>
				<b>Total</b>	<b>\$ 40,534 19</b>

**10 Doors and 10 Camera Add on**

QTY	BRAND	MODEL	DESCRIPTION	UNIT PRICE	AMOUNT
10	S2	S2-NDMN	S2 NetDoor MicroNode,	\$ 992 85	\$ 9,928 50
20	Seco-Larm	SL-SD969S18	Armored Door Cords, 18 inches	\$ 20 71	\$ 414 20
10	Detex	DEX04EXx1P-1	1 pair Door kit w mag locks and delay egress for 30 sec	\$ 5,307 14	\$ 53,071 40
20	HID	HU-5365EGP00	MiniProx Reader, Gray, Pigtail, Mullion Mount	\$ 178 55	\$ 3,571 00
2000	Hold-Key	158652	2 conductor Fire Alarm Wire,18/2	\$ 0 15	\$ 300 00
1000	Hold-Key	101154	Cat 5e, non-plenum	\$ 0 07	\$ 70 00
20	Ultratech	IM-1270	Backup Batteries, 12VDC, 7Ah	\$ 23 78	\$ 475 60
2000	TeleData		Coaxial Cable, RG59	\$ 0 30	\$ 600 00
10	Panasonic	WVCW484S	Panasonic Outdoor/Vandal proof camera, IP66 Rating, SuperDynamicIII & Day/Night Technology, anti-shock Auto-BackFocus, surface mount	\$ 618 57	\$ 6,185 70
10	S2	S2-DVR-CAM	DVR Integration, DM per camera, beyond initial 4	\$ 107 14	\$ 1,071 40
			Miscellaneous hardware and materials		\$ 250 00
			Installation Labor		\$ 12,000 00
				<b>Total Materials</b>	<b>\$ 75,937 80</b>
				<b>Total Labor</b>	<b>\$ 12,000 00</b>
				<b>Total</b>	<b>\$ 87,937 80</b>

**Payment terms requested: Customer to pay invoice 30 days from invoice date.**

**Note: Any applicable Sales Tax is not included in Quote.**

Please feel free to contact me with any questions.

Thank You,



Werner C. Knight  
 Special Projects Manager  
 Miller Communications, Inc  
[wernerk@millercomm.com](mailto:wernerk@millercomm.com)

**Panasonic**  
ideas for life

Digital Disk Recorders

**WJ-HD316A**

**WJ-HD309A**

Version 3.0

The Comprehensive Digital Recording Solution



DIGITAL DISK RECORDERS

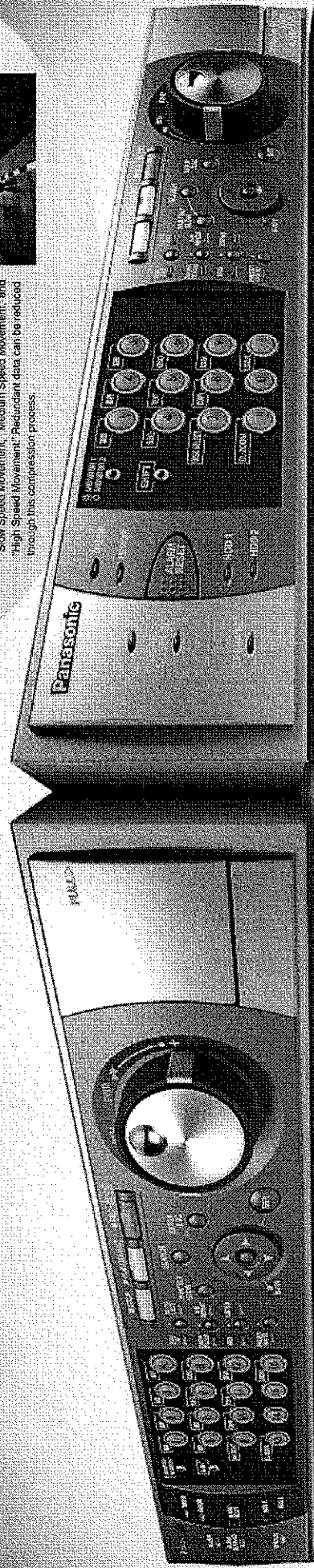
**WJ-HD300A**  
SERIES

# The WJ-HD300A Series offers high quality pictures and disk saving recording utilizing a new compression technology.

Parasonic presents the new WJ-HD300A Series with a unique new system featuring a high compression ratio of 1/30 for practical use. Under the "All-in-One Solution" concept, all the vital recording components and features are condensed into one unit. With one single unit, unprecedented, highly reliable surveillance recording is possible in a wide range of applications. The WJ-HD300A Series also features System Scalability to meet extended user needs.

## 1/30 Super Compression: Proprietary Algorithm, Core Development of the WJ-HD300A Series

- New algorithm divides entire screen into high and low frequency elements to reduce artificial distortion and noise compared to conventional compression.
- In addition, the mode-A compression data calculation within four (4) field images (called "Temporal Transform"), outputs data according to the amount of movement: "No Movement", "Slow Spotted Movement", "Medium Speed Movement" and "High Speed Movement". Redundant data can be reduced through this compression process.



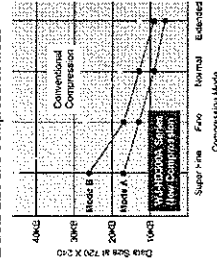
WJ-HD316A

WJ-HD309A

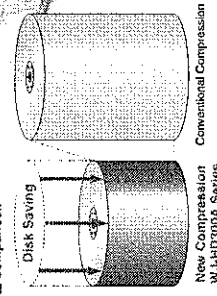
### Picture Quality & Disk Saving

Compared to a conventional algorithm, the data compression ratio has improved approximately 1.5 - 2, depending on object and compression mode.

#### ■ Data Size and Compression Mode



#### ■ Comparison

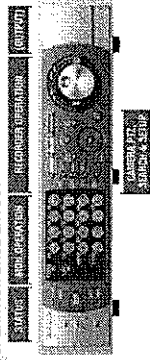


### Instinctive Operation

Simple and instinctive, the functional base layout of the WJ-HD300A Series front panel is designed for ease-of-use. Eight (8)\* directly connected Parasonic dome cameras can be controlled from the front panel. Also, the GUI based menu screen enables quick set up for flexible, more complex operations.

\* 8 (6 cameras for one Unit-102004)

#### OPERATION BASE LAYOUT



#### GUI BASE MENU



# All in One Solution

### Value Added Features

The WJ-HD300A Series is equipped with the latest value added features to satisfy your requirements such as system reliability, operation efficiency, and cost savings.

#### Features include:

- High-density recording: 60 ips\* (120 ips, 6 SIF).
- Full rate live multi screen: 60 ips\*.
- Simultaneous Live/Rec./Playback/Network.
- 16 independent recording profiles.
- Disk partitioning: Normal, Alarm, and Copy.
- RAID 5 and mirror redundant recording.

#### Advanced VMD (Video Motion Detector):

- Area, vector, and duration.
- Various Network Operations: Live, PTZ control, Recording, Playback, and Downloading.
- Network and serial open architecture.

#### Improved picture quality by optimized compression algorithm.

- Enhanced archive solutions via USB port.
- Scheduling of WW-CS954 Auto Tracking function from admin. software.

\* 1/30 = sample (for standard)

\*The above all programming items refer to the purpose of registration, actual may be different. ©



# DIGITAL DISK RECORDERS WJ-HD300A SERIES

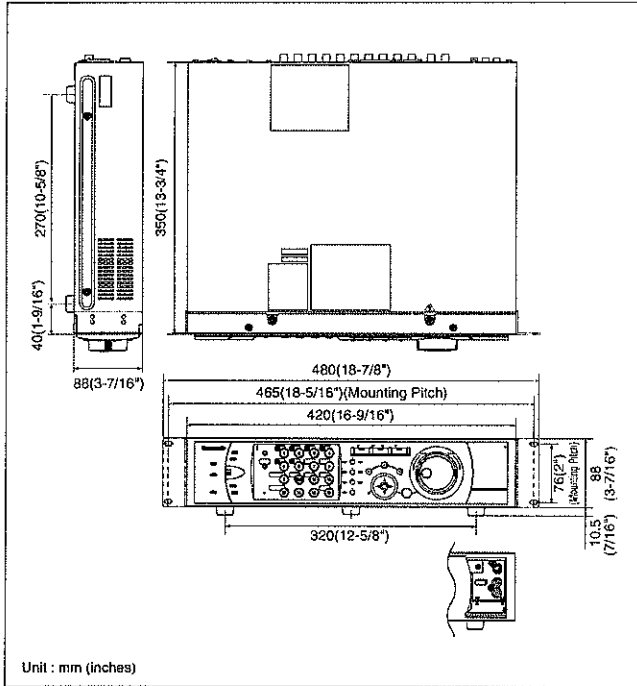
## MAJOR OPERATING CONTROLS: WJ-HD316A

**Front View**

**Rear View**

- 1 Operate Indicator
- 2 Alarm Suspension Indicator
- 3 Alarm Indicator
- 4 Alarm Reset Button
- 5 Error Indicator
- 6 Timer Indicator
- 7 HDD Access Indicators
- 8 Monitor Switch Button
- 9 Shift Button
- 10 Camera Selection Buttons
- 11 Pan, Tilt Latest Recorded Image Playback Button
- 12 Zoom, Focus A - B Repeat Button
- 13 Iris, Listing Button
- 14 Preset, Auto Pan Button
- 15 Stop Button
- 16 Play/Pause Button
- 17 Record Button
- 18 Slow Button
- 19 Search Button
- 20 Setup Escape Button
- 21 Busy Indicator
- 22 Arrow Buttons
- 23 Set Button
- 24 Jog Dial
- 25 Shuttle Ring
- 26 Connectors Cover
- 27 Copy Port
- 28 S-Video Output Connector
- 29 Video Output Connector
- 30 Audio Output Connector
- 31 Audio Input Connectors
- 32 Audio Output Connector
- 33 Video Input Connectors
- 34 Video Output Connectors
- 35 Monitor Output Connector
- 36 Cascade In Connector
- 37 Serial Connector
- 38 Monitor Connector
- 39 Alarm Connector
- 40 Alarm/Control Connector
- 41 PS Data Ports
- 42 Mode Switches
- 43 RS485 Ports
- 44 Network Port
- 45 Copy Port
- 46 Extra Storage Port
- 47 Power Switch
- 48 Signal Ground Terminal
- 49 Power Cord Inlet

## DIMENSIONS: WJ-HD316A



## SPECIFICATIONS: WJ-HD316A

General	
Power Source	120 V AC, 60 Hz
Power Consumption	75 W
Ambient Operating Temperature	+5°C - +45°C (41°F - 113°F)
Ambient Operating Humidity	Less than 90 %
Dimensions	420 mm (W) x 88 mm (H) x 350 mm (D) [16-9/16" (W) x 3-7/16" (H) x 13-3/4" (D)] (excluding rubber feet and projections)
Weight	9.5 kg (21 lbs.)
Input/Output	
Video - Video Input Connectors	1 V (P-P) / 75 Ω with auto termination loop-thru, vertical timing pulse multiplexed, x8 (1 to 8 CH) (BNC)
	1 V (P-P) / 75 Ω, with auto-termination loop-thru, x8 (9 to 16 CH) (BNC)
Cascade Input Connector	1 V (P-P) / 75 Ω (BNC)
Video Output Connectors:	1 V (P-P) / 75 Ω, active loop-thru output, x8 (1 to 8 CH) (BNC)*1
	1 V (P-P) / 75 Ω, active loop-thru output, x8 (9 to 16 CH) (BNC)
Monitor Output Connectors	1 V (P-P) / 75 Ω, x2 (BNC)
Monitor Output Connector (VGA)	RGB output, x1 (15-pin D-sub)
S-Video Output Connector	Y = 1 V (P-P) / 75 Ω, C = 0.288 V (P-P) / 75 Ω, x1 (S-video output connector)
Video Output Connector (Front Panel)	1 V (P-P) / 75 Ω, x1 (RCA pin)
Audio - Audio Input Connectors	-10 dB, 10 KΩ, x4 (RCA pin)
Audio Output Connectors:	-10 dB, 600 Ω, unbalanced, x2 (RCA pin)
Others - Expansion Connector	High-speed serial interface, 480 Mbps (theoretical value), x1
Copy Connectors	High-speed serial interface, 480 Mbps (theoretical value), x2
Control Connectors	Emergency recording input <sup>2</sup> , additional space warning output <sup>3</sup> (for devices connected to copy connectors), HDD trouble output <sup>3</sup> , camera trouble output <sup>3</sup> , trouble output <sup>4</sup> , electricity failure recovery completion output <sup>4</sup> , time adjust input/output <sup>5</sup> , sequence switching input/output <sup>5</sup> , electricity failure detection input <sup>5</sup> , external recording mode switching <sup>6</sup> (25-pin D-sub), +5 V output <sup>7</sup>
Alarm Port	1 to 8 CH alarm input <sup>8</sup> , 1 to 16 CH alarm input <sup>8</sup> , 1 to 16 alarm output <sup>8</sup> , alarm recovery input <sup>8</sup> , alarm suspension input <sup>8</sup> (25-pin D-sub)
RS-485 Ports	RS-485 (full duplex/half duplex <sup>9</sup> ), x2 (RJ-11)
DATA Ports	RS-485, x2 (RJ-11)
SERIAL Connector	RS-232C, x1 (9-pin D-sub)
Ethernet Port	10 Base-T/100 Base-TX (RJ-45)

\*1. When power is not supplied, video output signal was not sent from the unit even if video input signal is supplied.  
 \*2. Non-voltage N.O. Contact, 100 mA, +5 V pull-up \*3. Open collector output, maximum under conditions of 24 V DC and 100 mA or less \*4. High (+12 V 6.3 mA) \*5. 30 KΩ, 5 V pull-up, -100 mA, N.O. Contact \*6. 5 V pull-up, -100 mA Non-voltage N.O. Contact input \*7. 240 mA at maximum \*8. Changeable with the mode switch

## DISK DATA REFERENCE CHART • NTSC color video signal • Recording images from a single camera channel • 250GB HDD • Auto mode • Manual recording • Audio OFF

**COLOR FINE** Field Mode (Sampling Pixel Size: 720 x 240)

One Camera ch (ips*)	SFB	FOB	NQB	EXB
0.1	17,880	28,820	35,760	53,650
0.5	3,570	5,360	7,150	10,730
1	1,780	2,680	3,570	5,360
5	350	530	710	1,070
7.5	230	350	470	710
15	110	170	230	350
30	50	80	110	170
60	20	40	50	80

\*ips (image per second) (Hours)

**COLOR STD** Field Mode (Sampling Pixel Size: 720 x 240)

One Camera ch (ips*)	SFB	FOB	NQB	EXB
0.1	23,840	35,760	47,680	71,530
0.5	4,760	7,150	9,530	14,300
1	2,380	3,570	4,760	7,150
5	470	710	950	1,430
7.5	310	470	630	950
15	150	230	310	470
30	70	110	150	230
60	30	50	70	110

\*ips (image per second) (Hours)

**COLOR FINE** SIF Mode (Sampling Pixel Size: 360 x 240)

One Camera ch (ips*)	SFB	FOB	NQB	EXB
0.1	35,760	53,650	71,530	107,300
0.5	7,150	10,730	14,300	21,460
1	3,570	5,360	7,150	10,730
5	710	1,070	1,430	2,140
7.5	470	710	950	1,430
15	230	350	470	710
30	110	170	230	350
60	50	80	110	170

\*ips (image per second) (Hours)

**COLOR STD** SIF Mode (Sampling Pixel Size: 360 x 240)

One Camera ch (ips*)	SFB	FOB	NQB	EXB
0.1	47,680	71,530	95,370	143,060
0.5	9,530	14,300	19,070	28,610
1	4,760	7,150	9,530	14,300
5	950	1,430	1,900	2,850
7.5	630	950	1,270	1,900
15	310	470	630	950
30	150	230	310	470
60	70	110	150	230

\*ips (image per second) (Hours)

(above figures are approximate actual recording time may differ depending on picture imaging under the conditions) \*The above all photographs were taken for the purpose of explanation : actual images may differ





**STANDARD PRODUCT CONFIGURATIONS**

Digital Disk Recorders  
**WJ-HD316A** (16ch)  
**WJ-HD309A** (9ch)



- Built-in 250GB HDD unit, and 1 drive bay for optional HDD unit
- Built-in an Ethernet port

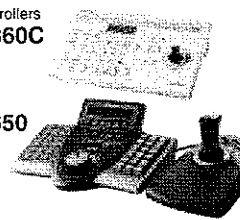
**OPTIONAL COMPONENTS & ACCESSORIES**

Extension Unit  
**WJ-HDE300**  
 (4 drive bays for optional HDD units)



System Controllers  
**WV-CU360C**

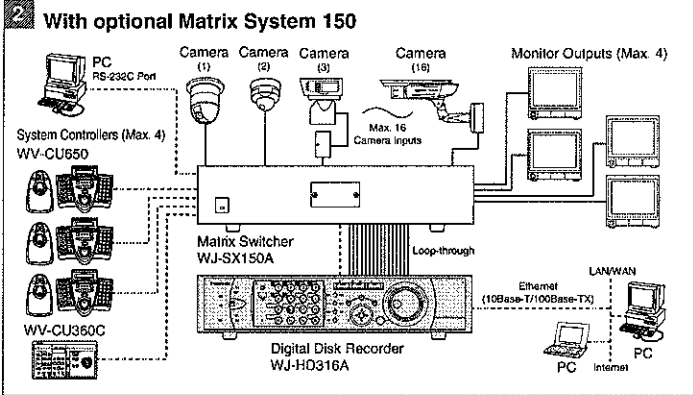
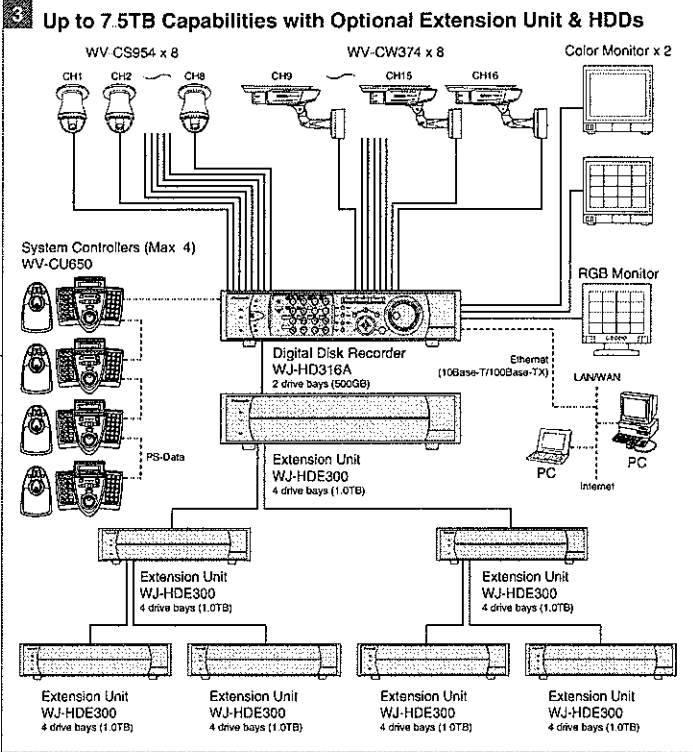
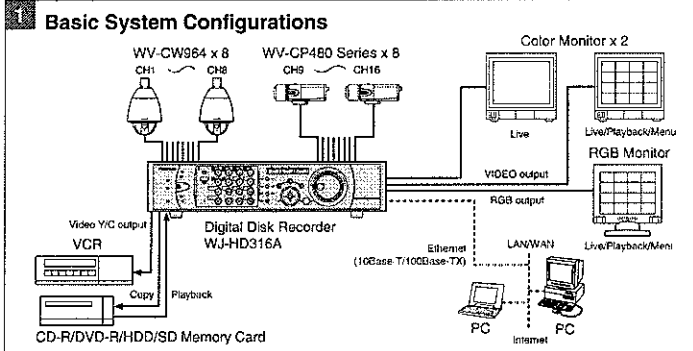
**WV-CU650**



Management PC Software  
**WV-AS65**



**SYSTEM EXAMPLES**



**OPTIONAL SURVEILLANCE EQUIPMENTS**

**COLOR SURVEILLANCE CAMERAS**

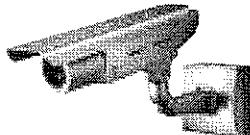
Super Dynamic III  
 Color Dome Camera  
**WV-CS954**



Weather Proof  
 Super Dynamic III  
 Color Dome Camera  
**WV-CW964**



Weather Proof  
 Super Dynamic II Color Camera  
**WV-CW374**



Vandal Proof  
 Super Dynamic II Color Cameras  
**WV-CW474A Series**



Vandal Proof Color Cameras  
**WV-CW244 Series**



Super Dynamic III  
 Color Surveillance Cameras  
**WV-CP480 Series**



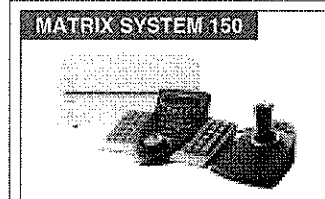
Compact Color Surveillance Camera  
**WV-CP254H**



1/3 type CCD Color Surveillance Cameras  
**WV-CP240EX Series**



Color Dome Camera  
**WV-CF224EX**



**Important** - Safety Precaution: carefully read the operating instructions and installation manual before using this product.  
 - Panasonic can not be responsible for network performance and/or other manufacturer products that reside on the network.  
 • All TV pictures are simulated. • Weights and dimensions are approximate. • Specifications are subject to change without notice. • These products may be subject to export control regulations.

**Panasonic**

**Panasonic System Solutions Company**  
 Unit Company of Panasonic Corporation of North America  
**Security Systems**

Website : [www.panasonic.com/security](http://www.panasonic.com/security)  
 For Customer Support : call 1 877.733.3689

Executive Office : Three Panasonic Way 2H-2 Secaucus New Jersey 07094  
 Zone Offices

Eastern : Three Panasonic Way Secaucus, New Jersey 07094  
 Central : 1707 N. Randal Road, Elgin, IL 60123  
 Southern : 1225 Northbrook Parkway Suwanee, GA 30024  
 Western : 6550 Katella Ave Cypress CA 90630

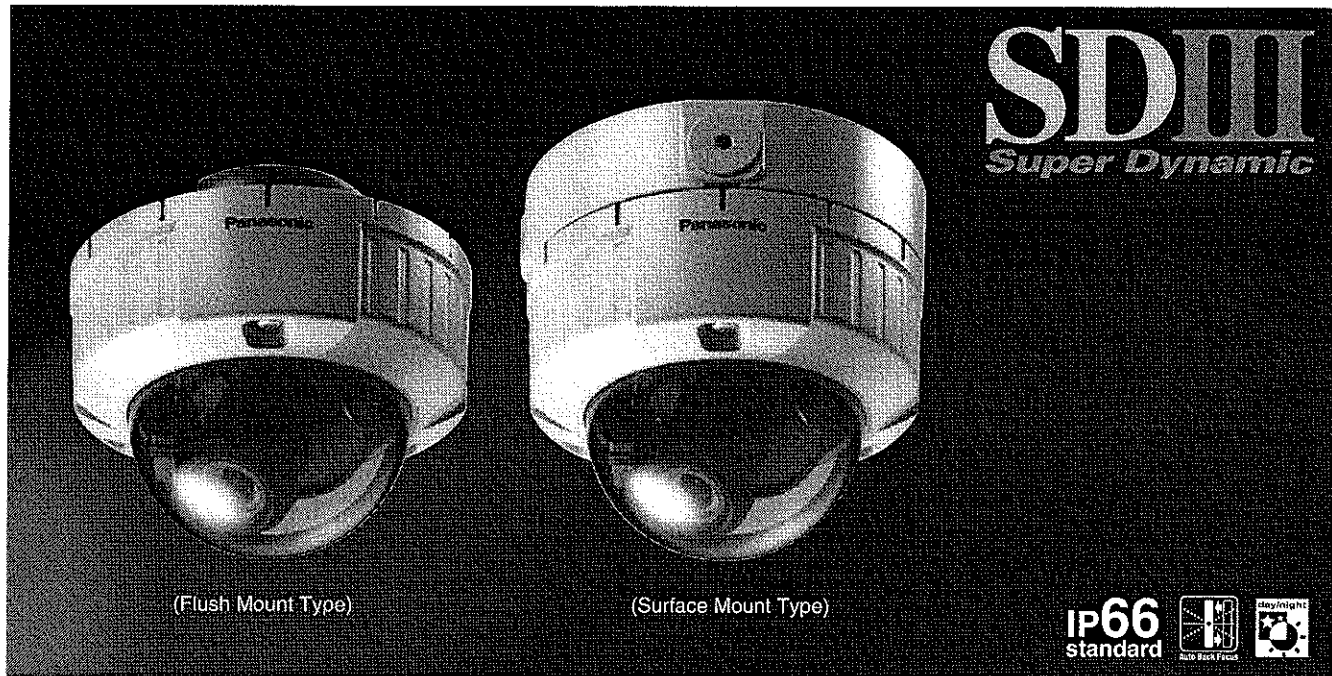
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 San Gabriel Industrial Park 65th Infantry Ave KM 9 5 Carolina P.R. 00985 (809) 750-4300  
 Printed in Japan  
 WJ-JHHD300C(2P-517E)

**Panasonic**  
ideas for life

Super Dynamic III  
Vandal Resistant Fixed Dome Camera  
**WV-CW480 Series**

NTSC WV-CW484S (24 V AC or 12 V DC) <Smoke Dome Type>  
PAL WV-CW480S (220 - 240 V AC) <Clear Dome Type>  
WV-CW484F (24 V AC or 12 V DC) <Smoke Dome Type>  
WV-CW484F (24 V AC or 12 V DC) <Clear Dome Type>



**Super Dynamic III Vandal Resistant Fixed Dome Camera with Day/Night and ABF (Auto Back Focus) for 24 hours a day surveillance**

**Key Features**






- **Super Dynamic III** technology delivers 128x (NTSC) / 160x (PAL) wider dynamic range compared to conventional cameras
- High resolution: 540 TV lines typical / 520 TV lines minimum (Color HIGH mode), 480 TV lines minimum (Color NORMAL mode), 570 TV lines minimum (B/W mode)
- High sensitivity with Day/Night function: 0.6 lux (Color), 0.08 lux (B/W) with clear dome cover at F1.4 (Wide). IR cut filter switches on/off to enhance the sensitivity in B/W mode
- ABF (Auto Back Focus) ensures easy installation and stable focus in both color and B/W modes.
- Adaptive Digital Noise Reduction: Integration of 2D-DNR and 3D-DNR ensures noise reduction in various conditions
- Electronic sensitivity enhancement: Auto (Up to 10x) / Manual (Up to 32x)
- Electronic shutter from 1/100 (NTSC), 1/120 (PAL) to 1/10,000 sec
- VMD (Video Motion Detector) with Mask 8 x 6 areas
- Scene Change Detection alarms when lens is covered, spray painted, removed or defocused
- 3.8 ~ 8.0 mm, 2x Varifocal Auto Iris lens with 2x digital zoom
- Auto Image Stabilizer for applications where vibration or wind is a concern
- Internal / Line-lock / Multiplexed Vertical Drive (VD2) synchronization
- Over the coaxial cable data communication
- Monitor output for easier installation
- 16 alphanumeric camera title display
- Multi language: English, French, Italian, Spanish, German, Russian, Chinese, Japanese
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard.
- Dehumidification device for use in various weather conditions
- Vandal resistant mechanism for high reliability

- 3-way hinge (horizontal, vertical and swivel rotation) for easy installation
- Various mounting options: Flush mount (F type), Surface mount (S type). Embedded mount (with optional WV-Q166)
- Optional heater maintains operating temperature -30 °C ~ +50 °C (-22 °F ~ 122 °F)

**Standard Accessories**

• Operating Instructions	1 pc	• Camera attachment	1 pc
• Mounting Bracket (For WV-CW480S/CW484S)	1 pc	• Bit for tamperproof screw	1 pc
• Screws for mounting bracket (M4 x 8) (For WV-CW480S/CW484S)	4 pcs	• Butyl tape	1 pc

**Optional Accessories**

Mount Bracket for WV-CW484F <b>WV-Q114</b> 	Heater Unit <b>WV-CW4H</b> 
Embedded Ceiling Mount Bracket <b>WV-Q166</b> 	Clear Dome Cover <b>WV-CW4C</b> (NTSC only) 
	Smoke Dome Cover <b>WV-CW4S</b> (PAL only) 

## Specifications

TV System	NTSC	PAL
Type	WV-CW484S: Surface mount type WV-CW484F: Flush mount type	WV-CW480S: Surface mount type
Camera	1/3 inch interline transfer CCD	
Image Sensor	768 (H) x 494 (V)	
Effective Pixels	2:1 Interlace scan	
Scanning Mode	4.8 (H) x 3.6 (V) mm	
Scanning Area	Horizontal: 15.734 kHz Vertical: 59.94 Hz	
Scanning Frequency	Horizontal: 15.625 kHz Vertical: 50 Hz	
Scanning Line	525 lines	
Horizontal Resolution	540 TV lines typical at color high mode, 480 TV lines at color normal mode, 570 TV lines at BW mode	
Minimum Illumination	Color (30IRE): 1.5 lux (SENS UP: OFF), 0.15 lux (SENS UP: 10x) at F1.4 B/W (10IRE): 0.16 lux (SENS UP: OFF) 0.016 lux (SENS UP: 10x) at F1.4 Will be same as PAL spec with WV-CW4C optional clear dome cover	Color (30IRE): 0.6 lux (SENS UP: OFF), 0.06 lux (SENS UP: 10x) at F1.4 B/W (10IRE): 0.08 lux (SENS UP: OFF) 0.008 lux (SENS UP: 10x) at F1.4
Signal-to-Noise Ratio	50 dB (AGC Off, Weight On)	
White Balance	ATW1, ATW2, or AWC	
Light Control	ALC / ELC (only when monitor output is used)	
AGC	ON (HIGH / MID / LOW), or OFF	
Super Dynamic III	ON or OFF (with BLC masking 8 x 6 areas)	
Dynamic Range	52 dB typical (Super Dynamic III ON)	54 dB typical (Super Dynamic III ON)
Electronic Shutter	OFF (1/60), 1/100, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000 s	OFF (1/50), 1/120, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000 s
Electronic Sensitivity UP	OFF / AUTO (2x, 4x, 6x, 10x) / FIX (2x, 4x, 6x, 10x, 16x, 32x)	
Digital Noise Reduction	High / Low	
Resolution Mode	Normal / High	
Black and White Mode	Mode: AUTO1 / AUTO2 / ON / OFF Level: High / Low	
Digital Zoom	2x	
Video Motion Detection	OFF / Mode1 (VMD) / Mode2 (Scene change), Mask 8 x 6 areas	
Scene Change Detection	Yes, Included in VMD Mode2	
Privacy Zone	ON (Gray / Mosaic) or OFF	
Auto Image Stabilizer	ON or OFF	
Camera Title	Up to 16 characters	
Lens Mount	C5-mount	
Back Focus Adjustment	ABF, MANUAL, AUTO / PRESET / FIX	
Synchronization	Internal (INT), Multiplexed Vertical Drive (VD2), Line-Lock (LL)	
Lens	Focal Length: 3.8 ~ 8.0 mm, 2x varifocal	
Angular Field of View	H: 35.6° (Tele) ~ 73.6° (Wide) V: 26.6° (Tele) ~ 53.4° (Wide)	
Maximum Aperture Ratio	1:1.4 (Wide) 1:1.8 (Tele)	
Focusing Flange	1.2 m (3.9 ft.) ~ ∞	
Pan and Tilt	Panning Range: ±160° Tilting Range: ±75°	
Input / Output	Video Output: 1.0 V [p-p] / NTSC composite 75 Ω / BNC Connector Multiplexed VD2 and control data capable Monitor Output: 1.0 V [p-p] / 75 Ω / NTSC composite signal / ø3.5 mm mini jack	
General	Setup Method: OSD setup menu Language: English, Russian (For setup menu and camera title), German, French, Italian, Spanish (For setup menu), Chinese, Japanese (Only for camera title. Setup menu will be English.) Safety/EMC Standard: UL (6500), FCC (Part15 ClassA), C-UL (E60065), DOC (ICES003 ClassA) Power Source and Power Consumption: 24 V AC 60 Hz, 4.1 W, 11 W*, 12 V DC 340 mA* Ambient Operating Temperature: -10 °C ~ +50 °C (14 °F ~ 122 °F), -30 °C ~ +50 °C (-22 °F ~ 122 °F) Ambient Operating Humidity: 90 % or less (without condensation) Water and Dust Resistance: IP66, IEC60529 measurement standard compatible Dimensions: WV-CW484S: ø158.3 mm x 146.2 mm (ø6-1/4" x 5-3/4") WV-CW484F: ø154 mm x 141.2 mm (ø6-1/16" x 5-9/16") WV-CW480S: ø160 mm x 161.7 mm (ø6-5/16" x 6-3/8") Weight (approx.): WV-CW484S: 1.9 kg (4.18 lbs.) WV-CW480S: 2.1 kg (4.62 lbs.) WV-CW484F: 1.4 kg (3.08 lbs.)	

\* With optional Heater Unit WV-CW4H

\*\* Optional Heater Unit WV-CW4H cannot be used under 12 V DC operation

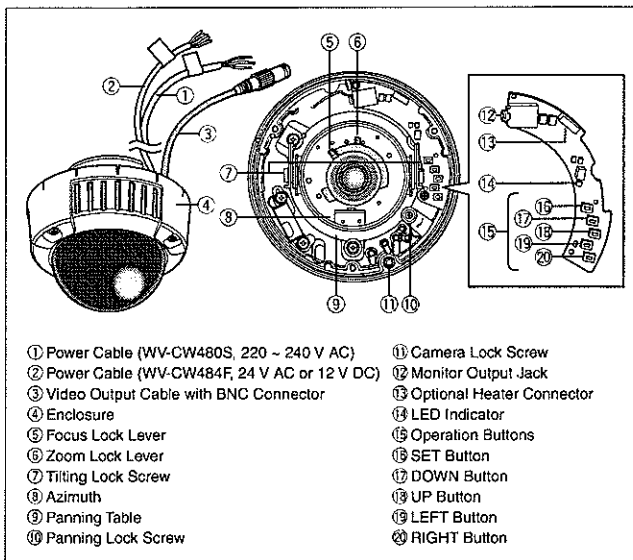
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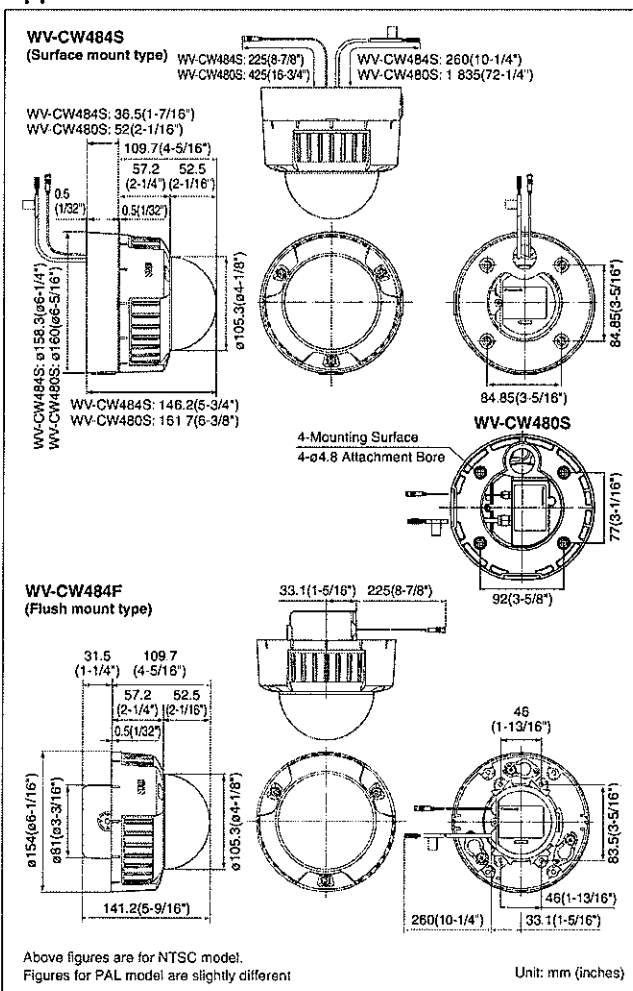
### Important

- Safety Precaution: carefully read the operating instructions and installation manual before using this product.

## Part Names and Functions



## Appearance



- All TV pictures are simulated.
- Weights and dimensions are approximate.
- Specifications are subject to change without notice.
- These products may be subject to export control regulations.
- All product pictures are NTSC models.

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