

**ADVANCED ALARM
TECHNOLOGIES**

**BID FOR SECURITY CAMERA
SYSTEMS**

10/06/15 13:12:31
WV Purchasing Division

Advanced Alarm Technologies, Inc.

A Full-Service Security Company

P.O. Box 4368 • Parkersburg, WV 26104 • 304-422-4387

Division of Rehabilitation Services
4701 MacCorkle Ave, SE
Charleston, WV

10/5/15

Advanced Alarm Technologies is pleased to provide the enclosed quotation for your consideration.

Also included with the quotation is product literature on the system we are proposing.

We are proposing the Tyco International Line of Products for this project due to the superior technical specifications, non-proprietary status, and direct integration with Kantech Access Control which is also non-proprietary. We have included specifications for these products with comparison notes with the Avigilon products used in the RFQ's specifications.

Thank you for allowing Advanced Alarm Technologies to quote your security needs.

If you have any questions, please call at your convenience.

Sincerely,



Robert H Hill, President



Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

**State of West Virginia
 Request for Quotation**

Proc Folder: 117736

Doc Description: RFQ TO PROVIDE TWO SECURITY CAMERA SYSTEMS

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2015-09-11	2015-10-07 13:30:00	CRFQ 0932 DR\$1600000001	1

FOR INFORMATION CONTACT THE BUYER

Laura E Hooper
 (304) 558-0468
 laura.e.hooper@wv.gov

Signature X 

FEIN # 20-2085989

DATE 10/5/15

All offers subject to all terms and conditions contained in this solicitation

INVOICE TO		SHIP TO	
IT UNIT DIVISION OF REHABILITATION SERVICES 107 CAPITOL ST		STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER	
CHARLESTON	WV25301	No City	WV 99999
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	SECURITY CAMERA SYSTEMS	1.00000	LS	32,500.00	32,500.00

Comm Code	Manufacturer	Specification	Model #
46171610			

Extended Description :
SECURITY CAMERA SYSTEMS INCLUDING INSTALLATION, TESTING, EMPLOYEE USE TRAINING AND THREE YEAR WARRANTY.

SCHEDULE OF EVENTS

Line	Event	Event Date
1	Mandatory Pre-Bid Meeting	2015-09-23
2	Technical Questions Due	2015-09-25

DR31600000001	Document Phase Final	Document Description RFQ TO PROVIDE TWO SECURITY CA MERA SYSTEMS	Page 3 of 3
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ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

BID BOND

KNOW ALL MEN BY THESE PRESENTS, That we, the undersigned, Advanced Alarm Technologies, Inc.
of Parkersburg, West Virginia, as Principal, and Erie Insurance Property &
Casualty of Erie, Pennsylvania, a corporation organized and existing under the laws of the State of Pennsylvania
with its principal office in the City of Erie, PA, as Surety, are held and firmly bound unto the State
of West Virginia, as Obligee, in the penal sum of Thirty-two thousand, five hun (\$ 32,500.00) for the payment of which,
well and truly to be made, we jointly and severally bind ourselves, our heirs, administrators, executors, successors and assigns.

The Condition of the above obligation is such that whereas the Principal has submitted to the Purchasing Section of the
Department of Administration a certain bid or proposal, attached hereto and made a part hereof, to enter into a contract in writing for
Installation of two security camera systems for Division of Rehabilitation Services.

NOW THEREFORE,

- (a) If said bid shall be rejected, or
- (b) If said bid shall be accepted and the Principal shall enter into a contract in accordance with the bid or proposal
attached hereto and shall furnish any other bonds and insurance required by the bid or proposal, and shall in all other respects perform
the agreement created by the acceptance of said bid, then this obligation shall be null and void, otherwise this obligation shall remain in
full force and effect. It is expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no
event, exceed the penal amount of this obligation as herein stated.

The Surety, for the value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no
way impaired or affected by any extension of the time within which the Obligee may accept such bid, and said Surety does hereby
waive notice of any such extension.

WITNESS, the following signatures and seals of Principal and Surety, executed and sealed by a proper officer of Principal and
Surety, or by Principal individually if Principal is an individual, this 6th day of October, 2015.

Principal Seal

Robert H. Hill, Advanced Alarm Technologies Inc
(Name of Principal)

By [Signature]
(Must be President, Vice President, or
Duly Authorized Agent)

President
(Title)

Surety Seal

Erie Insurance Property & Casualty Co.
(Name of Surety)

[Signature]
Attorney-in-Fact

**IMPORTANT – Surety executing bonds must be licensed in West Virginia to transact surety insurance, must affix its seal, and
must attach a power of attorney with its seal affixed.**



**ERIE INSURANCE
PROPERTY & CASUALTY COMPANY
ERIE, PA 16530
LIMITED POWER OF ATTORNEY**

KNOW ALL MEN BY THESE PRESENTS: That ERIE INSURANCE PROPERTY & CASUALTY COMPANY, a corporation duly organized under the laws of the Commonwealth of Pennsylvania, does hereby make, constitute and appoint

Steven P. Thompson, Randall E. Kerns, Michael W. Mason, Lisa McGuire, Dorinda Talerico, Kristine D. Mills,
Sharon D. Boyles, Mark Sturm and Kathy Marcum

individually, its true and lawful Attorney-in-Fact, to make, execute, seal and deliver for and on its behalf, and as its act and deed: any and all bonds and undertakings of suretyship, each in a penalty not to exceed the sum of Five Hundred

Thousand Dollars (\$500,000.00)

And to bind ERIE INSURANCE PROPERTY & CASUALTY COMPANY thereby as fully and to the same extent as if such bonds and undertakings and other writings obligatory in the nature thereof were signed by the appropriate officer of ERIE INSURANCE PROPERTY & CASUALTY COMPANY and sealed and attested by one other of such officers, and hereby ratifies and confirms all that its said Attorney(s)-in-Fact may do in pursuance hereof.

The Power of Attorney is granted under and by authority of the following Resolution adopted by the Board of Directors of ERIE INSURANCE PROPERTY & CASUALTY COMPANY on the 11th day of March, 2008, and said Resolution has not been amended or repealed:

“RESOLVED, that the President, or any Senior Vice President or Vice President shall have power and authority to: (a) Appoint Attorney(s)-in-Fact and to authorize them to execute on behalf of the Company, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof, and, (b) Remove any such Attorney-in-Fact at any time and revoke the power and authority given to him; and

RESOLVED, that Attorney(s)-in-Fact shall have power and authority, subject to the terms and limitations of the Power of Attorney issued to them, to execute and deliver on behalf of the Company, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof. The corporate seal is not necessary for the validity of any bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof.”

This Limited Power of Attorney is signed and sealed by facsimiles under and by virtue of the following Resolution adopted by the Board of Directors of ERIE INSURANCE PROPERTY & CASUALTY COMPANY on the 18th day of September, 2008, at which a quorum was present and said Resolution has not been amended or repealed:

“RESOLVED, that the signature of Terrence W. Cavanaugh, as President and Chief Executive Officer of the Company, and the Seal of the Company may be affixed by the following facsimiles on any Limited Power of Attorney for the execution of bonds, undertakings, recognizances, contracts and other writings in the nature thereof, and the signature of James J. Tanous, as Secretary of the Company, the Seal of the Company, the signature of Sheila M. Hirsch, as Notary Public, and her Notarial Seal, may also be affixed by the following facsimiles to any certificate or acknowledgment of any such Limited Power of Attorney, and only under such circumstances shall said facsimiles be valid and binding on the Company.”

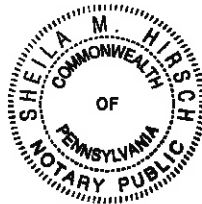
IN WITNESS WHEREOF, ERIE INSURANCE PROPERTY & CASUALTY COMPANY has caused these presents to be signed by its President and Chief Executive Officer, and its corporate seal to be hereto affixed this 3rd day of February, 2011.



Terrence W. Cavanaugh
Terrence W. Cavanaugh
President and Chief Executive Officer

STATE OF PENNSYLVANIA } ss.
COUNTY OF ERIE

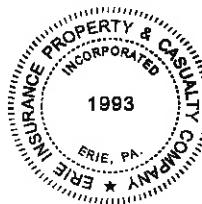
On this 3rd day of February, 2011, before me personally came Terrence W. Cavanaugh, to me known, who being by me duly sworn, did depose and say: that he is President and Chief Executive Officer of ERIE INSURANCE PROPERTY & CASUALTY COMPANY, the corporation described in and which executed the above instrument; that he knows the Seal of said corporation; that the Seal affixed to the said instrument is such corporate Seal; that it was so affixed by order of the Board of Directors of said corporation and that he signed his name thereto by like order.



Sheila M. Hirsch
My commission expires June 27, 2016
Notary Public

CERTIFICATE

I, James J. Tanous, Secretary of ERIE INSURANCE PROPERTY & CASUALTY COMPANY, do hereby certify that the original LIMITED POWER OF ATTORNEY, of which the foregoing is a full, true and correct copy, is still in full force and effect as of the date below.



James J. Tanous
James J. Tanous, Secretary

this day of 20 .

STATE OF WEST VIRGINIA
Purchasing Division
PURCHASING AFFIDAVIT

MANDATE: Under W. Va. Code §5A-3-10a, 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: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: Advanced Alarm Technologies

Authorized Signature: *[Signature]* Date: 10/5/15

State of West Virginia

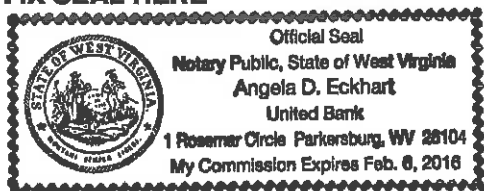
County of Wood, to-wit:

Taken, subscribed, and sworn to before me this 5th day of October, 2015

My Commission expires Feb 6, 2016

AFFIX SEAL HERE

NOTARY PUBLIC *[Signature]*





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

STATE OF WEST VIRGINIA,

COUNTY OF Wood, **TO-WIT:**

I, Robert H Hill, after being first duly sworn, depose and state as follows:

- I am an employee of Advanced Alarm Technologies; and,
(Company Name)
- I do hereby attest that Advanced Alarm Technologies
(Company Name)

maintains a written plan for a drug-free workplace policy and that such plan and policy are in compliance with **West Virginia Code §21-1D.**

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

Printed Name: Robert H Hill

Signature:

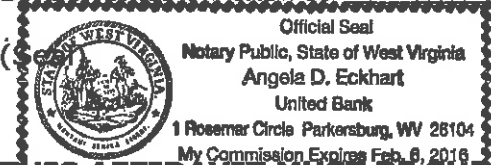
Title: President

Company Name: Advanced Alarm Technologies

Date: 9/25/15

Taken, subscribed and sworn to before me this 25th day of September 2015.

By Commission expires Feb. 6, 2016



(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.

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CRFQ0932 DRS160000001

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

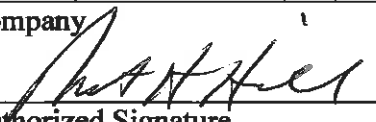
Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:
(Check the box next to each addendum received)

- | | |
|----------------------------------------------------|------------------------------------------|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input checked="" type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further 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.

Advanced Alarm Technologies

Company _____

Authorized Signature _____
10/5/15
Date _____

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.

REQUEST FOR QUOTATION
DRS1500000008 – SECURITY CAMERA SYTEMS

9.5. Vendor shall inform all staff of Agency's security protocol and procedures.

10. VENDOR DEFAULT:

10.1. The following shall be considered a vendor default under this Contract.

10.1.1. Failure to perform Contract Services in accordance with the requirements contained herein.

10.1.2. Failure to comply with other specifications and requirements contained herein.

10.1.3. Failure to comply with any laws, rules, and ordinances applicable to the Contract Services provided under this Contract.

10.1.4. Failure to remedy deficient performance upon request.

10.2. The following remedies shall be available to Agency upon default.

10.2.1. Immediate cancellation of the Contract.

10.2.2. Immediate cancellation of one or more release orders issued under this Contract.

10.2.3. Any other remedies available in law or equity.

11. MISCELLANEOUS:

11.1. **Contract Manager:** During its performance of this Contract, Vendor must designate and maintain a primary contract manager responsible for overseeing Vendor's responsibilities under this Contract. The Contract manager must be available during normal business hours to address any customer service or other issues related to this Contract. Vendor should list its Contract manager and his or her contact information below.

Contract Manager: Robert Hill
Telephone Number: (304) 422-4387
Fax Number: Same
Email Address: advancedalarm@sublink.net

ADDITIONAL TERMS AND CONDITIONS (Construction Contracts Only)

1. **CONTRACTOR'S LICENSE:** West Virginia Code § 21-11-2 requires that all persons desiring to perform contracting work in this state be licensed. The West Virginia Contractors Licensing Board is empowered to issue the contractor's license. Applications for a contractor's license may be made by contacting the West Virginia Division of Labor. West Virginia Code § 21-11-11 requires any prospective Vendor to include the contractor's license number on its bid. Failure to include a contractor's license number on the bid shall result in Vendor's bid being disqualified. Vendors should include a contractor's license number in the space provided below.

Contractor's Name: Advanced Alarm Technologies

Contractor's License No. WV025246

The apparent successful Vendor must furnish a copy of its contractor's license prior to the issuance of a Award Document.

2. **DRUG-FREE WORKPLACE AFFIDAVIT:** W. Va. Code § 21-1D-5 provides that any solicitation for a public improvement contract requires each Vendor that submits a bid for the work to submit at the same time an affidavit that the Vendor has a written plan for a drug-free workplace policy. To comply with this law, Vendor must either complete the enclosed drug-free workplace affidavit and submit the same with its bid or complete a similar affidavit that fulfills all of the requirements of the applicable code. Failure to submit the signed and notarized drug-free workplace affidavit or a similar affidavit that fully complies with the requirements of the applicable code, with the bid shall result in disqualification of Vendor's bid. Pursuant to W. Va. Code 21-1D-2(b) and (k), this provision does not apply to public improvement contracts the value of which is \$100,000 or less or temporary or emergency repairs.

2.1. **DRUG-FREE WORKPLACE POLICY:** Pursuant to W. Va. Code § 21-1D-4, Vendor and its subcontractors must implement and maintain a written drug-free workplace policy that complies with said article. The awarding public authority shall cancel this contract if: (1) Vendor fails to implement and maintain a written drug-free workplace policy described in the preceding paragraph, (2) Vendor fails to provide information regarding implementation of its drug-free workplace policy at the request of the public authority; or (3) Vendor provides to the public authority false information regarding the contractor's drug-free workplace policy. Pursuant to W. Va. Code 21-1D-2(b) and (k), this provision does not apply to public improvement contracts the value of which is \$100,000 or less or temporary or emergency repairs.

3. **DRUG FREE WORKPLACE REPORT:** Pursuant to W. Va. Code § 21-1D-7b, no less than once per year, or upon completion of the project, every contractor shall provide a certified report to the public authority which let the contract. For contracts over \$25,000, the

CERTIFICATION AND SIGNATURE PAGE

By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

Advanced Alarm Technologies

(Company)

Robert Hill Robert Hill, President
(Authorized Signature) (Representative Name, Title)

(304)422-4387 9/25/15

(Phone Number) (Fax Number) (Date)

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 Vendor Preference, if applicable.

1. **Application is made for 2.5% 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% 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% 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% 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% 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% 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.
7. **Application is made for preference as a non-resident small, women- and minority-owned business, in accordance with West Virginia Code §5A-3-59 and West Virginia Code of State Rules.**
 Bidder has been or expects to be approved prior to contract award by the Purchasing Division as a certified small, women- and minority-owned business.

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: Advanced Alarm Technologies
Date: 10/5/15

Signed: [Signature]
Title: President



**WEST VIRGINIA
CONTRACTOR
LICENSING
BOARD**

CONTRACTOR LICENSE

Authorized by the
West Virginia Contractor Licensing Board

Number: WV025246

Classification:
LOW VOLTAGE SYSTEMS

ADVANCED ALARM TECHNOLOGIES INC
DBA ADVANCED ALARM TECHNOLOGIES INC
PO BOX 4368
PARKERSBURG, WV 26104-4368

Date Issued
MARCH 12, 2015

Expiration Date
MARCH 12, 2016


Authorized Company Signature


Chair, West Virginia Contractor
Licensing Board

This license, or a copy thereof, must be posted in a conspicuous place at every construction site where work is being performed. This license number must appear in all advertisements, on all bid submissions and on all fully executed and binding contracts. This license cannot be assigned or transferred by licensee. Issued under provisions of West Virginia Code, Chapter 21, Article 11.



ADVAALA-01

KMARCCUM

CERTIFICATE OF LIABILITY INSURANCEDATE (MM/DD/YYYY)
3/18/2016

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER United Security Agency USA IV, Inc 2420 Garfield Ave Parkersburg, WV 26101	CONTACT NAME: PHONE (A/C, No, Ext): (304) 295-8533	FAX (A/C, No): (304) 295-9232
	E-MAIL ADDRESS:	
INSURED ADVANCED ALARM TECHNOLOGIES INC ROBERT H HILL P O BOX 4368 PARKERSBURG, WV 26104-4368	INSURER(S) AFFORDING COVERAGE	
	INSURER A : ERIE INSURANCE GROUP	NAIC # 26830
	INSURER B : FIRST COMP	
	INSURER C : CSU PRODUCER RESOURCES INC	
	INSURER D :	
	INSURER E :	
INSURER F :		

COVERAGES**CERTIFICATE NUMBER:****REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSD WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:		Q40-5950013	04/09/2015	04/09/2016	EACH OCCURRENCE	\$ 1,000,000
						DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 1,000,000
						MED EXP (Any one person)	\$ 5,000
						PERSONAL & ADV INJURY	\$ 1,000,000
						GENERAL AGGREGATE	\$ 2,000,000
						PRODUCTS - COMP/OP AGG	\$
							\$
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS		Q02-5130086	02/01/2015	02/01/2016	COMBINED SINGLE LIMIT (Ea accident)	\$
						BODILY INJURY (Per person)	\$ 250,000
						BODILY INJURY (Per accident)	\$ 500,000
						PROPERTY DAMAGE (Per accident)	\$ 100,000
							\$
	<input type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$					EACH OCCURRENCE	\$
						AGGREGATE	\$
							\$
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N <input type="checkbox"/> N/A	WC0158995-01	01/10/2015	01/10/2016	PER STATUTE	OTH-ER
						E.L. EACH ACCIDENT	\$ 1,000,000
						E.L. DISEASE - EA EMPLOYEE	\$ 1,000,000
						E.L. DISEASE - POLICY LIMIT	\$ 1,000,000
C	General Liability		CSU0010133	04/09/2015	04/09/2016	Products Completed	2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER**CANCELLATION**

Advanced Alarm Technologies Inc.
 ROBERT H HILL
 P O BOX 4368
 PARKERSBURG, WV 26104-4368

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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American Dynamics

From Tyco Security Products

Illustra Flex IP Mini-Domes

Affordable and Versatile
Indoor and Outdoor



Indoor

(Both Locations)



*Outdoor (with Location)

Features That Make a Difference:

- 1MP or 3MP resolution for true HD quality images
- Bandwidth and storage friendly
- True Day/Night (TDN) functionality for a true color image
- 3D noise reduction for sharper images and lower bandwidth use in low light
- IR illuminators for clear images in low light conditions (Outdoor only)
- Motion detection for instant alerts of intruders
- IP66-rated enclosure to protect against dust and water damage (Outdoor only)
- Vandal-resistant housing (Outdoor only)
- A variety of mounting options for quick and easy installation
- ONVIF 2.2 profile S compliant

The versatile Illustra Flex Mini-Dome, Indoor or Outdoor, is a True Day/Night network camera that provides 1MP or 3MP full HD resolution for high quality images. H.264 and MJPEG video compression provides excellent image clarity, and efficient bandwidth and video storage.

With a small, aesthetically pleasing design, the affordably priced Illustra Flex Mini-Dome offers an effective solution for retail stores, K-12 schools, small bank branches and small to medium size offices with a tight budget and a variety of surveillance needs. With a variety of mounting options making it easy to install, these cameras can be strategically placed to blend into in a variety of interior locations such as the cash register terminal at a retail store, the lobby/corridor of an elementary school or inside a 24 hour ATM vestibule.

Featuring built-in IR illuminators, the outdoor Illustra Flex Mini-Dome produces clear images at an effective distance up to 49 feet in a variety of low light conditions. The outdoor camera also comes with a vandal-resistant housing to protect the camera against external impacts that might occur if an intruder was attempting to take the camera out of operation. With an IP66-rated enclosure, this outdoor mini-dome is ideal in situations where dust or water could damage the camera – a loading dock, parking lot or off-site warehouse.

*For indoor installations that require a vandal-resistant mini-dome, the Outdoor model can be used.



Specifications

Operational

Video Compression H.264/MJPEG

Max Frame Rate

Illustra Flex 600 720p @ 30ips
Illustra Flex 800 3MP @ 15ips
1080p @ 30ips

ONVIF-Compliant Yes

Resolutions

Illustra Flex 600 720p (1280x720)
SVGA (800x600)
D1 (720x480)
VGA (640x480)
CIF (352x240)
Illustra Flex 800 3.1MP QXGA (2048x1536)
3MP (2304x1296)
1080p (1920x1080)
SXGA (1280x960)
720p (1280x720)
SVGA (800x600)
D1 (720x480)
4CIF (704x480)
VGA (640x480)
CIF (352x240)

Imager 1/3" CMOS

Day/Night Mechanical ICR

Minimum Illumination

Indoor 0.3 lux @ F1.2 color;
0.1 lux b/w
Outdoor 0.3 lux at F1.2 color;
0.00 lux in IR illuminator mode

IR Illuminator (Outdoor) Effective distance is 15m/49ft,
IR wavelength 850nm

Shutter Speed 1/7.5~1/8000 sec

Backlight Compensation Off/On (6 selectable areas)

Lens Focal Length 3-9mm F1.2 varifocal lens

Field of View (H/V) Wide Angle: 98°/53°

Telephoto: 33°/19°

White Balance ATW (2500K-8000K)/Manual

Alarms Motion detection

Alarm Input 1

Audio Input 1

Audio Format G.711-ALaw/G.711-ULaw

Video Output 1

Video Stream Triple

Wide Dynamic Range Digital WDR

Digital Noise Reduction 3D

Privacy Zones Yes, 4

Menu Languages Arabic, Chinese (Simplified), Chinese (Traditional),
Czech, Danish, Dutch, English (default), Finnish,
French, German, Italian, Japanese, Korean,
Norwegian, Polish, Portuguese, Russian, Spanish,
Swedish, Turkish

Network

Ethernet RJ-45 connector
Supported Protocols IPv4, HTTP, HTTPS, TCP, RTSP/RTCP/RTP,
ICMP, UDP, IGMP, DNS, DHCP, ARP, NTP, SMTP

Configuration Management

Web Browsing
Requirements Internet Explorer 8.0 or above
Security Multiple user access levels with
password protection

Onboard Storage

Card Support SDHC/SDXC

Electrical

Power

Indoor 12V DC, 24V AC, PoE 802.3af Class 0

Outdoor 24V AC, PoE 802.3af Class 0

Power Consumption

Illustra Flex 600 Indoor: 6.8W; Outdoor 10.3W

Illustra Flex 800 Indoor: 7W; Outdoor 10.5W

Physical

Dimension (DxH)

Indoor 125 x 108 mm (4.92 x 4.17 in)

Outdoor 147 x 140.5 mm (5.79 x 5.53 in)

Weight

Indoor 0.8 kg (1.76 lbs)

Outdoor 1.9 kg (4.18 lbs)

Housing Material

Indoor Polycarbonate & ABS

Outdoor ADC12

Housing Color

Indoor Pantone Cool Gray 1C

Outdoor Light Gray RAL 7035

Operating Temperature

Indoor -10°C to 50°C (14°F to 122°F)

Outdoor 24V AC power: -40°C to 50°C (-40°F to 122°F)
PoE power: -10°C to 50°C (14°F to 122°F)

Operating Humidity 0% to 90%, non-condensing

Storage Temperature -20°C to 60°C (-4°F to 140°F)

Regulatory

Emissions FCC Class A; CE Class A

IP Rating IP66 (Outdoor only)

Ordering Information

Model Number	Description
ADCi600F-D111	Illustra Flex 600 Indoor Mini-Dome, 1MP, varifocal 3-9mm lens
ADCi600F-D021	Illustra Flex 600 Outdoor Mini-Dome, 1MP, varifocal 3-9mm lens, IR, vandal-resistant
ADCi800F-D111	Illustra Flex 800 Indoor Mini-Dome, 3MP, varifocal 3-9mm lens
ADCi800F-D021	Illustra Flex 800 Outdoor Mini-Dome, 3MP, varifocal 3-9mm lens, IR, vandal-resistant

* Unless otherwise noted, all specifications are the same for both Illustra Flex 600 and Illustra Flex 800 Indoor and Outdoor models

Related Products



VideoEdge
NVR



VideoEdge
Hybrid



exacqVision
NVR

Approvals



www.americandynamics.net



Illustra 825 Fisheye Camera

Features That Make A Difference:

- 5MP imager for super high quality images
- 360°/180° panoramic views of wide areas
- Single or multiple fixed views for forensic investigations
- Onboard dewarping for distortion-free images
- ePTZ capabilities for ultra smooth transition between pan, tilt and zoom
- Efficient bandwidth and video storage to reduce costs
- Onboard SD card recording and storage
- Sleek, discreet design
- Quick and easy installation
- Vandal-resistant model available
- ONVIF 2.4 profile S compliant



Non Vandal-Resistant

The Illustra 825 Fisheye Camera with a 5MP sensor provides a 180° panoramic view when mounted on the wall, or a 360° bird's eye view when mounted on a ceiling. The lens captures an ultra-wide field of view looking in all directions in real-time. The camera's onboard dewarping technology provides distortion corrected video streaming of 180°, 360° panoramic 16:9 or active 4:3 views.

The Illustra 825 Fisheye is ideal for applications such as retail stores, expansive indoor parking areas, casinos, building lobbies, elevator banks, corridor intersections and university lecture halls where situational surveillance covering a wide area can be achieved using a single camera. The Illustra 825 Fisheye Camera is always looking in all directions to capture all activity. The camera produces single or multiple fixed views should forensic investigations be required.



Vandal-Resistant

*Outdoor at
Charleston
Location*

The ePTZ movements of the Illustra 825 Fisheye Camera are ultra smooth creating even transition between pan, tilt and zoom movements. Multiple streams of H.264 and MJPEG video compression provide excellent image clarity while efficiently managing bandwidth to reduce storage costs. In addition, the camera's built-in micro SDHC card slot enables several days of recording to be stored locally on a memory card.

The Illustra 825 Fisheye Camera's sleek, discreet design allows it to blend into any environment for inconspicuous surveillance. The vandal-resistant model protects the camera against external impacts that might occur if an intruder was attempting to take the camera out of operation. It's extremely easy to install and simple to set up. A built-in web server provides easy configuration. In addition, when used with the Illustra Connect software tool, discovery, snapshot, configuration, IP address assignments, diagnostics and firmware upgrades take no time at all.



(Specs not compared are equal)

Specifications

Camera

- Video Compression H.264/MJPEG
- Max Frame Rate 14fps (all resolutions) *(Avigilon is 7ips)*
- ONVIF Compliant ONVIF 2.4 profile S
- Resolutions**
- Fisheye 1936x1936
- Active Image 1-4 960x540
800x450
640x380
480x270
320x180
- Wall/Ceiling Panorama 1920x1080
1600x900
1280x720
1024x576
960x540
800x450
640x360
480x270
320x180
- Imager Type 1/2.5" 5MP CMOS sensor *(Avigilon is 3MP per sensor)*
- Minimum Illumination 1.2 lux *(Avigilon is 0.6 Lux)*
- Shutter AES (Automatic Electronic Shutter)
- Lens Focal Length 1.37mm
- Aperture 2.0
- Field of View 182° *(Avigilon is 180°)*
- ePTZ Digital pan/tilt/zoom, presets, sequences, patterns, scans
- White Balance Auto Normal, Auto Wide, and Manual
- Alarms Motion detection
- Wide Dynamic Range 82dB *(Avigilon is 70dB)*
- Privacy Zones Yes, 4
- Menu Languages English (default), Arabic, Czech, Danish, German, Spanish, French, Hungarian, Italian, Korean, Japanese, Dutch, Polish, Portuguese, Swedish, Turkish, Chinese Traditional, Chinese Simplified

Network

- Ethernet 10/100Base-T
- Supported Protocols TCP/IP, IPv4, IPv6, TCP, UDP, HTTP, FTP, DHCP, WS-Discovery, DNS, DDNS, RTP, TLS, Unicast, Multicast, NTP, SMTP, WS-Security

Configuration Management

Onboard Storage

- Card Type Micro SDHC up to 32GB

Electrical

- Power PoE 802.3af Class 3
- Power Consumption <12.95W

Physical

- Body Diameter 149 mm (5.85 in)
- Height
- Vandal-Resistant 74 mm (2.91 in)
- Non Vandal-Resistant 60 mm (2.36 in)
- Weight
- Vandal-Resistant 0.750 kg
- Non Vandal-Resistant 0.730 kg
- Color White (RAL 9003)

Environmental

- Operating Temperature -10°C to 45°C (14°F to 113°F)
- Humidity 95% non-condensing

Regulatory

- Emissions FCC CFR 47 Part 15 Class A, AS/NZS CISPR22 Class A, ICES-003/NMB-003 Class A, EN 55022
- Immunity EN50130-4, EN 61000-6-1, IEC 62599-2, EN55024
- Safety UL 60950-1, CSA-C22.2 No. 60950, EN 60950-1, IEC 60950-1
- Environmental RoHS, EU Directive 2011/65/EU WEEE, EU Directive 2002/96/EC
- Impact Rating IK10

Ordering Information

Model Numbers	Description
Cameras*	
ADCIB25-F311	Illustra B25 Fisheye, 5MP, vandal-resistant
ADCIB25-F312	Illustra B25 Fisheye, 5MP, non vandal-resistant
Mounts	
ADCIM6WALLWK	Illustra 600 Indoor/Outdoor Wall Mount
ADCIBDPCAPOW	Illustra 600 Outdoor Pendant Cap

* Includes double gang box/mount adapter plate



Illustra B25 Fisheye video stream views in victor/VideoEdge 4.4

Related Products



victor client



VideoEdge NVRs and Hybrid



exacqVision NVR

Approvals



ONVIF Driving network video through global standardization

www.americandynamics.net

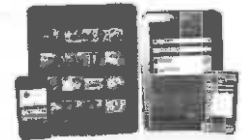



exacqVision A-Series

Hybrid 2U Rackmount
Analog and IP Cameras

exacqVision A-Series 2U Hybrid Server Scalable, Professional Grade Hybrid Systems

- **All in One Solution** — Video recording, web/mobile client hosting, and local live video display from the same server.
- **Network Video Recording Servers - Hybrid Camera Servers** — Record IP cameras, encoders and analog cameras. Live and recorded video viewable through free exacqVision client application.
- **Up to 96 Cameras Per Server, 8 IP Licenses Included** — Up to 32 analog and 64 IP cameras per server with 8 IP channels included. Seamlessly integrate your existing analog and IP cameras from all of the leading camera vendors onto one server for centralized management. Cost-effective solution providing complete control for multiple servers simultaneously. Add additional IP licenses as needed.
- **Enterprise-Class Storage** — Up to 12 TB of storage per server using continuous duty enterprise-class drives.
- **Cross-Compatible, Local, Remote and Mobile User Interfaces** — Access live and recorded video on multiple client PCs with free Windows, Mac or Linux client application. exacqVision web server application is pre-installed on the server to access video through a web browser or free Mobile iPhone/iPad and Android apps.
- **Professional Chassis for All Requirements** — 2U rackmount chassis is ideal for server rooms with optional rail mounting kits.
- **Unlimited Scalability** — Pre-loaded with exacqVision Professional video management system software. Easily add additional IP camera licenses and change out cameras. Add unlimited additional servers for greater capacity or dispersed geographic location. Manage individual systems from the same user interface or upgrade to exacqVision Enterprise to easily manage multiple servers simultaneously.
- **CPU Upgrade Option** — Available CPU upgrade option increases local client and web server performance up to 75% and enables hosting of Certified Software Applications (CSA) such as video analytics or point-of-sale interfaces on exacqVision servers. CSAs are software developed by Exacq technology partners and tested by Exacq for reliable operation on exacqVision servers. Save hardware costs, rack space, and support costs by loading multiple applications on one exacqVision server.
- **3-Year Hardware Warranty, 3-Year Software Subscription Agreement** — 3-year hardware warranty and SSA included. Update client, server and web server software with the latest exacqVision software features at no additional cost during the 3-year SSA period. IP camera licenses never expire.



Analog Camera Settings	
Analog Inputs	16 (looping)/32 (non-looping) (Avigilon = None)
Analog Compression	H.264/MJPEG
Analog Frame Rate (NTSC)	480/960
Analog Frame Rate (PAL)	400/800
Alarm Inputs	16 TTL
Alarm Outputs	15 TTL & 1 relay
Analog Outputs	2/2
IP Camera Settings	
Maximum IP Cameras	64
Included IP Licenses	8
Server Features	
Pre-Loaded VMS Software	exacqVision Professional (standard), exacqVision Enterprise (optional) (See Attached Software Specs)
Typical Video Storage Rate (Mbps)	300 Mbps (Windows) 450 Mbps (Linux) (Avigilon = 10Mbps)
Local Client Display Rate (Mbps)	450/750 (Windows/Standard/Optional CPU) 300/500 (Linux, Standard/Optional CPU)
Operating System	Windows 7 64 bit, Windows 2008 R2 (Optional), Ubuntu Linux 10.04
Operating System Drive	Avigilon = 32 GB SSD (Linux), HD (Windows) (Solid State Standard Hard Drive - Enterprise Level) 64 GB SSD (Optional) Hard Drive - Enterprise Level
CPU	Gen 3 Intel® i3 (standard), Intel® Core i5 (optional)
RAM	4 GB (standard), 8 GB (optional)
NIC	2
USB Ports	6 x USB 2.0, 2 x USB 3.0
Monitor Output	1 DVI-I + 1 DVI-D + 1 Display Port, maximum 2 simultaneous monitors
DVD/CD RW	Included
Maximum Hard Drives	3
Maximum Storage	12 TB (Avigilon = 3TB)
Serial Connections	2
Audio Outputs	1
Keyboard & Mouse	Included
General	
Dimensions (lxwxh)	21.25 x 16.75 x 3.5 in 54.7 x 42.6 x 8.9 cm
Weight	27 - 31 lbs 12.3 - 14.1 kg
Regulatory	CE (Class A), FCC (Class A), UL Listed
Input Voltage	120/240 VAC auto-sensing
Power Supplies	Single
Power & Heat	170 Watts/570 BTU/h (Max); 120 Watts/400 BTU/h (Typical)
Operating Temperature	40° - 95°F (4.5° - 35°C)
Server Revision	G1
Compatible Client Operating System	Windows 7, Vista, XP, Server 2003/2008 32-bit or 64-bit Linux (Ubuntu) Mac OS X 

All part numbers can be found in the product catalog at: <https://exacq.com/catalog/>

Specifications subject to change. Visit www.exacq.com for the most current product specifications.



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Technologies

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exacq

From Tyco Security Products

Software

exacqVision Enterprise Large-Scale, Intuitive VMS Software

exacqVision[®]

enterprise



EasyConnect



• Large-Scale, Intuitive Video Management System (VMS) Features

- Effectively monitor video, audio and data in real time
 - Two-way audio
 - Interactive and multi-level mapping
 - Data integration from retail and access control systems
 - Notification overlays

- Conduct investigations on recorded video, audio and data
- VideoPush video wall sends video to another exacqVision user or public view monitor
- Constantly expand functionality with included regular software updates

• Multi-Server Administration

- Single-screen administration across multiple systems:
 - Cameras: Globally configure and monitor camera settings across the enterprise
 - Storage: Monitor storage health, configure S-Series storage connections
 - Users: Simultaneous administration of all users on multiple servers
 - LDAP/Active Directory Integration: standardized network administration
 - E-mail and Text Notifications: Quickly configure notification rules on all servers

• Enterprise System Manager

- Option to add Enterprise System Manager, a centralized health monitoring and software updating system available on a PC or mobile device

• Multi-Level Mapping

- Create hierarchical nesting of maps for faster camera and device navigation

• Ease of Use & Flexibility

- Requires little to no training
- Software installs in minutes
- EasyConnect automatically finds, assigns and addresses compatible IP cameras
- Easily add IP licenses at any time
- Per camera server licensing with no base server fee

• View Video Anywhere with Free Client Software

- Access live and recorded video on Windows, Linux or Mac PCs
- Use the free web service application with any modern browser
- Download the free exacq Mobile app available for iOS, Android, Windows Phone 8

• Highly Scalable

- Single client connects to thousands of servers
- Allows you to connect up to 64 analog and 128 IP cameras on exacqVision hybrid servers
- Offers high video throughput with minimal CPU and RAM requirements necessary

• Build a Best-of-Breed Physical Security System

- Integrates with: (See Avigilon Website for Comparison)
 - Over 2,000 IP cameras and encoders from over 60 manufacturers
 - 20 access control systems
 - Video analytics solutions for LPR, heat mapping and intrusion detection
 - Retail/point-of-sale analytics

• Constantly Expanding Functionality with Included Software Updates

- Get more video management features without replacing your entire VMS
- Includes 1 year free software updates (three years on exacqVision NVRs)

exacqVision[®]

enterprise

Large Scale, Intuitive VMS Software







(See Avigilon Specs on website for comparison)

Features	Features Matrix	Photos	Videos	System Requirements	Part Numbers
Resources					

Try exacqVision Now!	start	professional	enterprise
System			
Max cameras per server	16 Analog 16 IP	64 Analog 128 IP	64 Analog (Avigilon = 128) 128 IP
Max server connections per client	1	512 (thick client) 16 (web client)	512 (thick client) 16 (web client)
Windows and Linux server compatibility	✓	✓	✓ (Avigilon = Windows Only) also Linux which is much more stable
Free Windows, Linux and Mac clients	✓	✓	✓
Browser-based viewing of live/stored video	✓	✓	✓
Tablet/Smartphone based viewing of live/stored video	✓	✓	✓
EasyConnect	✓	✓	✓
Auto-detect and connect to 1,000s of supported IP cameras	✓	✓	✓

Fish-eye/panoramic lens support (live and recorded)	✓	✓	✓
Client bandwidth throttling	✓	✓	✓
Pre-post alarm recording	✓	✓	✓
Soft triggers	✓	✓	✓
Per-camera min/max retention	-	✓	✓
Time-lapse recording	-	✓	✓
Extended storage	-	✓	✓
Archiving	-	✓	✓
Audit trail	-	✓	✓
Setup Indicators	-	✓	✓
Custom user groups	-	✓	✓
Third-party integrations	-	✓	✓
Smart search	-	✓	✓
Email notifications for system health events	-	✓	✓
exacqVision Surveillance Keyboard support	-	✓	✓
ESM Failover	-	-	✓
Enterprise camera management	-	-	✓
Enterprise server monitoring	-	-	✓
Enterprise user management	-	-	✓

LDAP/Active Directory	-	-	✓
Live View	Start	Professional	Enterprise
View cameras on multiple monitors	✓	✓	✓
PTZ control and presets	✓	✓	✓
Digital PTZ control and presets	✓	✓	✓
Motion and alarm indication	✓	✓	✓
Event linking on discrete inputs	✓	✓	✓
Event linking on video, serial and health events	-	✓	✓
Event-driven and time-based video switching	-	✓	✓
Camera groups	-	✓	✓
Camera Links	-	✓	✓
Multi-streaming	-	✓	✓
Event notifications	-	✓	✓
Maps	-	✓	✓
Two-way audio	-	✓	✓
Hierarchical maps for fast camera navigation	-	-	✓
VideoPush	-	-	✓
Search, Playback, Export and Archive	Start	Professional	Enterprise
exacqReplay instant replay	✓	✓	✓

Thumbnail & timeline search	✓	✓	✓
List Search	✓	✓	✓
POS and ATM serial text search	✓	✓	✓
Multi-camera playback	✓	✓	✓
Export to DVD	✓	✓	✓
Export to .AVI or .EXE file	✓	✓	✓
Multiple camera export	•	✓	✓
Bookmarking	•	✓	✓
Case Management	•	•	✓
Software Updates	Start	Professional	Enterprise
Software Updates Included (on exacqVision Servers)	3 years	3 years	3 years
Software Updates Included (on 3rd-party Servers)	90 Days	1 year	1 year
Supported languages (all versions)	AR CA CS DA  DE ES CL FI FR CA HU IT JA KO NB NL PL PT BR RU SK SV TR  CN	AR CA CS DA  DE ES CL FI FR CA HU IT JA KO NB NL PL PT BR RU SK SV TR  CN	AR CA CS DA  DE ES CL FI FR CA HU IT JA KO NB NL PL PT BR RU SK SV TR  CN



Standard Series Large Screen CCTV Monitor

Specification		
Model	ADE-132W1	ADE-142W1
Display		
Panel Type	31.5" LED Panel	42" LED Panel
Screen Size (mm)	800.1 diagonal	1,067.3 diagonal
Resolution	1920 x 1080 (Client = 1366 x 768)	1920 x 1080
Viewable Size (mm)	698.4 (H) x 392.85 (V)	930.24 (H) x 523.26 (V)
Pixel Pitch (mm)	0.3637 x 0.3637	0.4845 x 0.4845
Viewing Angle (H/V)	178° / 178°	178° / 178°
Contrast Ratio	3,000:1	3,000:1
Luminance (Typ.)	450 cd/m ²	350 cd/m ²
Display Color	16.7M	16.7M
Response Time	8ms	6.5ms
Input Connector		
D-SUB	1	1
HDMI	1	1
BNC (Analog)	1	1
S-Video	1	1
Audio Stereo Phone jack	1	1
Output Connector		
BNC (Analog)	1	1
Audio Stereo Phone jack	1	1
Input Signal		
Analog	CVBS / S-Video	
HDMI	480i/480p/576i/576p/720p/1080i/1080p	
D-SUB	VESA Modes	
Analog Input spec.		
CVBS	1.0Vp-p (With Sync) NTSC/PAL	
S-Video	1.0Vp-p (Y With Sync), 0.286/0.300 Vp-p(Chroma)	
D-SUB	D-sub 15pin, FH: 31.5K~80 kHz, FV: 50~75 Hz	
Digital Input spec.		
HDMI	Panel Link T.M.D.S HDMI-1.4	
Others		
Power Input	AC 100~240V(50~60Hz)	
Speaker power	3W x 2	
Power Consumption	65W (max.)	80W (max.)
Accessory	Users Manual, VGA D-Sub Cable, Stereo Audio cable, Power cord, Stand	
Physical Dimension	29.63"x19.83"x7.45"	38.82"x25.64"x9.45"
Packing Dimension	31.77"x21.57"x4.65"	42.24"x27.68"x5.59"
Weight N.W./G.W.	20.35 lbs/22.44 lbs	31.99 lbs/36.19 lbs
Mount (mm)	200x100 mm ²	400x400 mm ²
Operating temperature/Humidity	0°C ~ 40°C (32°F ~ 104°F) / 10%~85%*	
Storage temperature/Humidity	-20°C ~ 60°C (-4°F ~ 140°F) / 10%~95%*	
Regulation	CE,FCC, WEEE, RoHS	

* No-condensing

Note: Specifications are subject to change without notice.

Select Series UPS

backup power systems

value priced UPS with simulated sine wave and IP capability

features:

- 4 models available
 - 1 and 2 RU sizes
 - 2200, 1500, 1000 and 500VA options
- Bank control of outlets for simple system reboot
- Simulated sine wave output waveform
- Remote monitoring and control of power with optional IP card
- 8ms transfer time
- Automatic Voltage Regulation
- Non-critical load shedding
- Surge protection and EMI filtering
- LED status indicators
- Battery pack easily replaced via front panel
- UL Listed in the US and Canada



UPS-S500R



specifications:

Select Series Rackmount Uninterruptible Power Supply (UPS) shall be Middle Atlantic Products model # UPS- S__ R (refer to chart). Rackmount UPS shall be AVR with boost only. Rackmount UPS shall measure 19.00" W x ___" H x ___" D (refer to chart) and occupy ___ (1,2, refer to chart) rackspaces. Rackmount UPS shall operate on 120 VAC/60Hz current. Rackmount UPS shall have a nominal output of 120V. Rackmount UPS shall have a capacity of ___ VA and ___ W (refer to chart). Rackmount UPS shall have ___ NEMA 5-___ receptacles on the rear of the unit (refer to chart). Rackmount UPS shall have a priority outlet bank consisting of ___ outlets (refer to chart) dedicated to ensure maximum run time of critical components. Rackmount UPS shall have a non-critical outlet bank consisting of ___ outlets (refer to chart) dedicated to load shedding. Rackmount UPS shall have a simulated sine wave output waveform. Rackmount UPS shall have an 8ms transfer time. Rackmount UPS shall be IP enabled when used with option IP Expansion card, model# UPS-IPCARD. Rackmount UPS shall include a 10' ___ (refer to chart) power cord with NEMA ___ (refer to chart) plug. Rackmount UPS shall have surge suppression that utilizes a clean line-to-neutral design that does not pass noise contamination to ground. Rackmount UPS shall allow for a ___ minute run time at half load and a ___ (refer to chart) minute run time at full load. Rackmount UPS shall be RoHS EU Directive 2002/95/ EC & 2011/65/EU compliant. Rackmount UPS shall utilize Middle Atlantic Power Manager™ software. Rackmount UPS shall be warranted to be free from defects in materials and workmanship under normal use and conditions for a period of 3 years; battery shall be warranted for a period of 2 years. Rackmount UPS shall be UL listed in US and Canada.

Customizable specification clips available at middleatlantic.com



options:

- **UPS-IPCARD:** Web based control shall be enabled on non-Internet enabled Middle Atlantic Products UPS by UPS-IPCARD, which shall be installed into the Expansion Port on the rear of the UPS.
- **Replacement Battery:** Replacement Battery Pack for the UPS shall be Middle Atlantic Products model #

UPS	Replacement Battery
UPS-S500R	UPS-SRBP-500
UPS-S1000R	UPS-SRBP-1000
UPS-S1500R	UPS-SRBP-1500
UPS-S2200R	UPS-SRBP-2200

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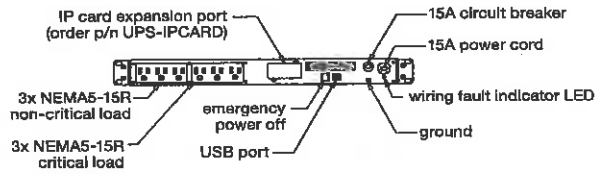
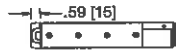
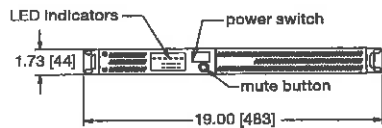
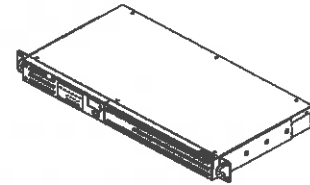
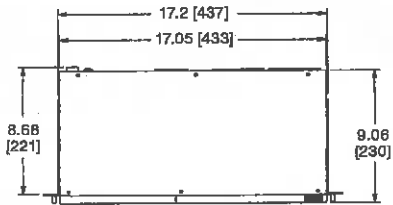
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UPS-S Series

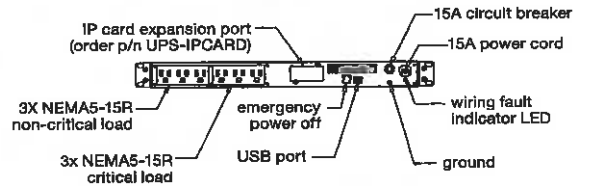
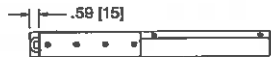
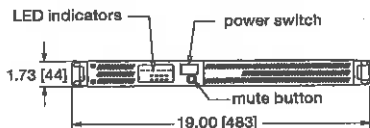
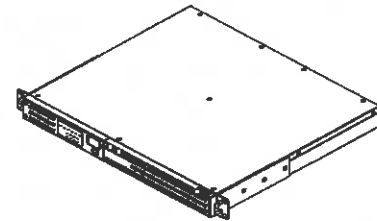
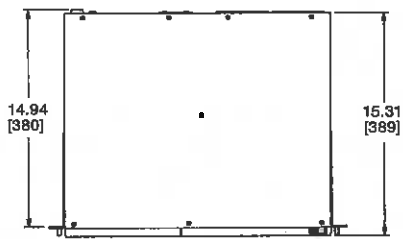
basic dimensions

all dimensions in inches unless otherwise noted [all dimensions in brackets are in millimeters]

UPS-S500R



UPS-S1000R



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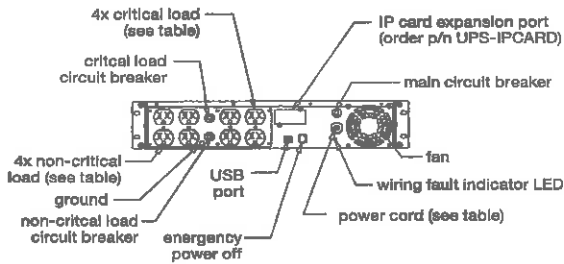
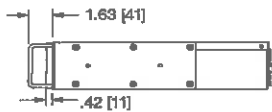
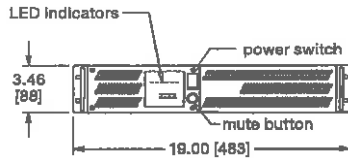
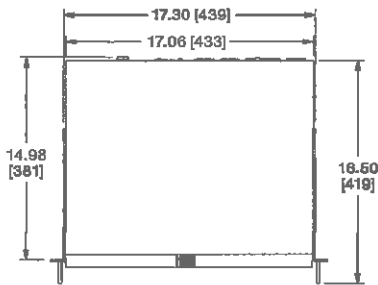
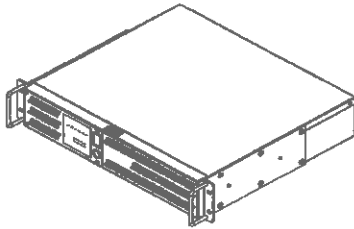
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UPS-S Series

basic dimensions

all dimensions in inches unless otherwise noted [all dimensions in brackets are in millimeters]



Technical Specifications	UPS-S500R	UPS-S1000R	UPS-S1500R	UPS-S2200R
Capacity (Va)	500	1000	1500	2000
Capacity (Watts)	300	600	900	1320
Input				
Cord Length And Plug Type	10ft. & NEMA 5-15P			10ft. & NEMA 5-20P
Input Voltage Range	90 VAC - 140 VAC			
Input Frequency Range	60Hz #+/-3Hz (auto sensing)			
Output				
On Battery Output Voltage	simulated sine wave at 120 VAC +/-10%			
On Battery Output Frequency	60 Hz #+/-1%			
AVR	boost only (with input voltage less than 100 VAC)			
Transfer Time (Typical)	8 ms			
Overload Protection	on utility: circuit breaker, on battery: internal current limiting			
Surge Protection & Filtering	single mode, L - N			
Lightning/Surge Protection	1030 Joules	1030 Joules	1840 Joules	1840 Joules
Physical				
Output Receptacles	(8) NEMA 5-15R		(8) NEMA 5-15R	(8) NEMA 5-20R
Weight Lb. (Kg)	18 (8.2)	32 (15)	48 (21.9)	52.7 (23.9)
Battery				
Sealed Maintenance Free Lead Acid Battery	6V / 7.0AH X 2	6V / 7.0AH X 4	12V / 7.0AH X 4	12V / 9.0AH X 4
Full Load Run Time (estimated)	3 minute	3 minute	6 minute	4 minute
Half Load Run Time (estimated)	12 minute	13 minute	18 minute	13 minute
Warning Diagnostics				
Indicators	power on, wiring fault, led display (using battery, AVR, load level, battery level)			
Audible Alarms	on battery, low battery, overload			
Environmental				
Operating Temperature	32F to 104F (0C to 40C)			
Operating Relative Humidity	0 to 95% non-condensing			
Communication				
Power Manager Software (TM)	WINDOWS 98/ME/NT/2000/XP/VISTA/WINDOWS 8			
Auto-Charger/Auto-Restart	yes			
Built-in USB Interface	yes			

Model#	Amperage Rating	Outlets	Power Cord	Output
UPS-S1500R	15A	NEMA5-15R	15A	1500VA
→ UPS-S2200R	20A	NEMA5-20R	20A	2000VA

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8-Port Fast Ethernet Layer 2 Managed Switches



NS2503-8P/2C
8-Port 10/100Mbps PoE-af/at (30w) Managed Switch with 2 Gigabit SFP Combo Uplink Ports



GE-DS-82
8-Port 10/100Mbps Managed Switch with 2 Gigabit SFP Combo Uplink Ports



GE-DS-82-PoE
8-Port 10/100Mbps PoE-af (15.4w) Managed Switch with 2 Gigabit SFP Combo Uplink Ports

OVERVIEW

For fast and efficient connectivity from the network edge to a backbone switch or server, the IFS 8-port Fast Ethernet Managed Switch Series features eight 10/100Mbps Fast Ethernet ports with 2 Gigabit TP/SFP combo ports. The 2 Gigabit TP/SFP combo ports can support either 10/100/1000Mbps (RJ45) or (1000Base-SX/LX/BX) through an SFP (Small Form-factor Pluggable) GBIC interface. This series is also available with PoE and PoE+ capabilities.

Robust Layer 2 Features

For efficient switch management, the IFS 8-port Fast Ethernet Managed Switch Series is easily programmable via a simple, yet powerful Web Interface, the switch can manage Port Speed Configuration, Port Link Aggregation, IEEE 802.1Q VLAN and Q-in-Q VLAN, Port Mirroring, Spanning Tree and ACL security. The switch includes advanced features such as Multicasting with IGMP snooping and query, QoS (Quality of Service), broadcast storm and bandwidth control to enhance bandwidth utilization.

These switches support standard Simple Network Management Protocol (SNMP) and include an advanced SNMP feature set to monitor the status of the switch and traffic per port. The switch can also be monitored via any standards-based SNMP management software.

Engineered for Real-time Performance

This switch series is designed with a high performance switch architecture that is capable of providing a non-blocking switch fabric and wire-speed throughput as high as 5.6 Gbps. To ensure optimum quality of service, the IFS 8-port Fast Ethernet Managed

Switch Series classifies and prioritizes Layer 2 802.1p or Layer 3 IP TOS/DSCP traffic into four hardware queues that support strict or Weighted Round Robin (WRR) queuing algorithms. This functionality provides maximum allocation of limited network resources and guarantees best performance for real-time applications.

Full Power, Isolated per Port PoE

The GE-DS-82-POE and NS2503-8P/2C models provide optimized deployment and safe power management of PoE edge devices such as IP Surveillance cameras, access control panels, wireless access points (WAP) and Voice over IP (VoIP). Full power PoE-af (15.4w) is provided to all 8-ports with no power sharing, and added port circuit protection isolates and prevents power interference between ports. In addition to standard IEEE 802.3af (15.4w), the NS2503-8P/2C provides support for up to 5 ports of IEEE 802.3at (30w) PoE.

Advanced Security

This switch also offers comprehensive Layer 3 and Layer 4 Access Control List (ACL) to filter out unwanted traffic. Its protection mechanisms are comprised of RADIUS and Port-Based 802.1x user and device authentication. In addition, the switch provides MAC filter, Static MAC, IP/MAC binding and Port Security for enforcing security policies to the edge. With IFS enterprise-class switches, a network administrator can now construct a highly secure network with considerably less time and effort.

STANDARD FEATURES

Physical Ports

- 8-Port 10/100Base-TX RJ-45 (GE-DS-82)
- 8-Port 10/100Base-TX RJ-45 with PoE (GE-DS-82-PoE and NS2503-8P/2C)
- 2-Uplink Gigabit TP/SFP combo ports
- 1 RS-232 male DB9 console port
- Auto-MDI/MDI-X detection
- Auto-negotiation
- Supports full-duplex/half-duplex modes

High-performance Switch Architecture

- Complies with the IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z standards
- High performance Store and Forward architecture and runt/CRC filtering eliminates erroneous packets to optimize the network bandwidth
- Broadcast/multicast/unicast storm control
- 5.6 Gbps non-blocking switch fabric
- 9K bytes Jumbo frame support
- 8K MAC address table, automatic source address learning and aging

Full Multicast Support for IP Video

- IGMP Snooping v1 and v2 fast leave
- IGMP Query mode support
- Up to 256 multicast groups

VLAN Support

- IEEE 802.1Q Tag-Based VLAN
- Up to 255 VLANs groups, out of 4041 VLAN IDs
- Port-Based VLAN
- Q-in-Q tunneling (Double Tag VLAN)

Spanning Tree Protocol

- STP, IEEE 802.1D (Spanning Tree Protocol)
- MSTP, IEEE 802.1s (Multiple Spanning Tree Protocol)

Quality of Service (QoS)

- 4 priority queues on all switch ports
- Traffic classification:
 - IEEE 802.1p Class of Service
 - IP TOS/DSCP code priority
 - Port Base priority
- Strict priority and weighted round robin (WRR) CoS policies
- Ingress/Egress Bandwidth Control on each port

Power over Ethernet (PoE) [GE-DS-82-PoE and NS2503-8P/2C Only]

- Complies with IEEE 802.3af Standard
- Complies with IEEE 802.3at Standard (NS2503-8P/2C only)
- Up to 180 Watt power budget
- Auto-detects PoE powered devices (PD)
- Provides full-power PoE on each port - no port sharing
- Circuit protection isolates and prevents power interference between ports
- End-Span (PSE) configuration supplies power up to 100m
- PoE Management Features
 - Total power budget control
 - Per port control (enable/disable, priority, power limit)
 - PD classification detection
 - Power Supply Over temperature Protection

Link Aggregation

- IEEE 802.3ad LACP (Link Aggregation Control Protocol)
- Up to 13 Trunk groups
- Up to 8 ports per trunk group with 1.6Gbps bandwidth (Full Duplex mode)
- Supports Cisco ether-Channel (Static Trunk)

Advanced Security

- IEEE 802.1x Port-based authentication
- RADIUS users access authentication
- Layer 3 and Layer 4 Access Control List (ACL)
- MAC Filtering and Source IP/MAC address port-binding
- Port Mirroring to monitor incoming or outgoing traffic on a particular port

Switch Management

- Local console or remote switch management via Web browser, Telnet CLI, SNMP v1, v2c , v3
- SNMP Trap for alarm notification of events
- Four RMON groups 1, 2, 3, 9 (history, statistics, alarms, and events)
- Built-in Trivial File Transfer Protocol (TFTP) client
- Configuration upload/download via TFTP or HTTP
- Firmware upgrade via TFTP or HTTP
- Supports Ping function
- Reset button for system management

Warranty

- 3-year Limited Warranty

ADDITIONAL FIRMWARE 1.5 FEATURES

Management

- 6 Levels of User Privilege Access Control • Improved Multicast Control • Configuration Backup Expect IP • Event Log/Alarms
- Remote IP Ping by Port • MAC Table Query by Port • Addition support for SNMP v3

Power over Ethernet (PoE) Management

- System PoE Enable/Disable • PoE Threshold and Event • Temperature Threshold and Event • PoE Scheduling

Specifications

	GE-DS-62	GE-DS-62-PoE	NS2502-8P/2C
Physical Ports			
10/100Base-TX Ports	RJ-45 (8)		
GigE Combo Uplink Ports	RJ-45 (Ports 9 and 10) 10/100/1000Mbps, SFP/Mini-GBIC Slots (Shared with Ports 9 and 10) 1000Base-SX/LX/EX (3-gigabit SFPs only)		
Port Configuration	Auto MDI/MDI-X		
Port Speed	Auto-negotiate		
Switch Performance			
Switch Architecture	Store-and-forward		
Switch Fabric	5.0Gbps (non-blocking)		
Switch Throughput	4.1Gpps @ 64Bytes		
MAC Address Table	8K entries		
Share Data Buffer	2 Mbytes		
Maximum Frame Size	9K Bytes		
Flow Control	Back pressure for Half-Duplex, IEEE 802.3x Pause Frame for Full-Duplex		
Layer 2 Functions			
Management Interface	Console, telnet, Web browser, SSL, SNMPv1 and v2c and v3c		
Port Configuration	Port enable/disable, Auto-negotiation, 10/100Mbps full-and-half duplex mode selection, Flow control enable/disable		
Port Status	Display each port's speed duplex mode, link status and flow control status.		
Port Mirroring	TX/RX/Both, 1 to 1 monitoring		
Bandwidth Control	Ingress/Egress rate control, configure per 128Kbps		
VLAN			
Link Aggregation	IEEE 802.1q tagged-based VLAN, up to 255 VLANs groups, out of 4041 VLAN IDs Port-based VLAN, Q-in-Q tunneling GVRP for VLAN management, up to 128 dynamic VLAN entries Private VLAN Edge (PVE) protected port with two protected port groups		
Quality of Service (QoS)	Static Port Trunk IEEE 802.3ad LACP (Link Aggregation Protocol) Supports 13 groups of 8-port trunk, IEEE 802.3ad LACP		
Multicasting/IGMP	4 priority queue Traffic classification based on: • Port priority • 802.1p priority • DSCP/TOS field in IP Packet		
Access Control List	IGMP Snooping (v1/v2), IGMP Query, Up to 256 multicast groups		
	IP-based Layer 3/Layer 4 ACL, Up to 220 ACL rule entries		
SNMP MIBs	RFC-1213 MIB-II RFC-2663 Interface MIB RFC-2665 EtherLike MIB RFC-1493 Bridge MIB RFC-2619 RMON MIB (Group 1, 2, 3,9) RFC-2737 Entity MIB	RFC-1213 MIB-II RFC-2663 Interface MIB RFC-2665 EtherLike MIB RFC-1493 Bridge MIB RFC-2619 RMON MIB (Group 1, 2, 3,9) RFC-2737 Entity MIB POWER-ETHERNET-MIB	RFC-1213 MIB-II RFC-2663 Interface MIB RFC-2665 EtherLike MIB RFC-1493 Bridge MIB RFC-2619 RMON MIB (Group 1, 2, 3,9) RFC-2737 Entity MIB POWER-ETHERNET-MIB
Power over Ethernet			
PoE Standard		IEEE 802.3af	IEEE 802.3af / IEEE 802.3at
PoE Power Supply Type		End-Span (PSE)	End-Span (PSE)
PoE Power Budget		180 Watts	150 Watts
Max. number of Class 2 PD		8	8
Max. number of Class 3 PD		8	8
Max. number of Class 4 PD			5
PoE Power Output Per Port		48VDC, 350mA, 15.4 watts max.	48VDC, 350mA, Max. 15.4 watts (IEEE 802.3af) 52VDC, 590mA, Max 30 watts (IEEE 802.3at)
Power Pin Assignment		1/2(+), 3/6(-)	1/2(+), 3/6(-)
LED Indicators & Switch			
Power	On/Green	On/Green	On/Green
10/100Base-TX/PoE Ports (8)	10/100 LNK/ACT - Green, 100Mbps - Amber	10/100 LNK/ACT - Green, PoE in Use - Amber	10/100 LNK/ACT - Green, PoE in Use - Amber
10/100/1000Base-T/SFP Ports	100 LNK/ACT - Amber, 1000 LNK/ACT - Green	100 LNK/ACT - Amber, 1000 LNK/ACT - Green	100 LNK/ACT - Amber, 1000 LNK/ACT - Green
Reset Button	System reboot: push and hold < 5 sec Factory default: push and hold > 5 sec.	System reboot: push and hold < 5 sec. Factory default: push and hold > 5 sec.	System reboot: push and hold < 5 sec. Factory default: push and hold > 5 sec.
Electrical and Mechanical			
AC Power Input Voltage	100-240VAC, 50/60Hz, Auto-sensing	100-240VAC, 50/60Hz, Auto-sensing	100-240VAC, 50/60Hz, Auto-sensing
Full Load Power Consumption	16 Watts	200 Watts	200 Watts
Dimensions (W x D x H)	13 x 6 x 1.7 in. - (330 x 153 x 44mm)		
Weight	2.6 lbs., 1.2kg	3.5 lbs., 1.6kg	3.5 lbs., 1.6kg
Environmental			
Operating Temperature	0 to +50°C	0 to +50°C	0 to +50°C
Storage Temperature	-20 to +70°C	-20 to +70°C	-20 to +70°C
Relative Humidity	0% to 95% (non-condensing)	0% to 95% (non-condensing)	0% to 95% (non-condensing)
Standards Compliance			
Regulatory Standards	FCC Part 15 Class A, CE, UL	FCC Part 15 Class A, CE, UL	FCC Part 15 Class A, CE, UL
IEEE/RFC Standards	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3z 1000Base-SX/LX IEEE 802.3ab 1000Base-T IEEE 802.3x Flow Control and Back pressure IEEE 802.3ad Port trunk with LACP IEEE 802.1d Spanning Tree Protocol IEEE 802.1s Multiple Spanning Tree Protocol IEEE 802.1p Class of service IEEE 802.1Q VLAN Tagging IEEE 802.1x Port Authentication Network Control RFC 768 UDP RFC 793 TFTP RFC 791 IP RFC 792 ICMP RFC 2068 HTTP RFC 1112 IGMP version 1 RFC 2296 IGMP version 2	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3z 1000Base-SX/LX IEEE 802.3ab 1000Base-T IEEE 802.3x Flow Control and Back pressure IEEE 802.3ad Port trunk with LACP IEEE 802.1d Spanning Tree Protocol IEEE 802.1s Multiple Spanning Tree Protocol IEEE 802.1p Class of service IEEE 802.1Q VLAN Tagging IEEE 802.1x Port Authentication Network Control IEEE 802.3af Power over Ethernet RFC 768 UDP RFC 793 TFTP RFC 791 IP RFC 792 ICMP RFC 2068 HTTP RFC 1112 IGMP version 1 RFC 2296 IGMP version 2	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3z 1000Base-SX/LX IEEE 802.3ab 1000Base-T IEEE 802.3x Flow Control and Back pressure IEEE 802.3ad Port trunk with LACP IEEE 802.1d Spanning Tree Protocol IEEE 802.1s Multiple Spanning Tree Protocol IEEE 802.1p Class of service IEEE 802.1Q VLAN Tagging IEEE 802.1x Port Authentication Network Control IEEE 802.3af and 802.3at Power over Ethernet RFC 768 UDP RFC 793 TFTP RFC 791 IP RFC 792 ICMP RFC 2068 HTTP RFC 1112 IGMP version 1 RFC 2296 IGMP version 2

8-Port Fast Ethernet Layer 2 Managed Switches

North America
T 855-286-8889

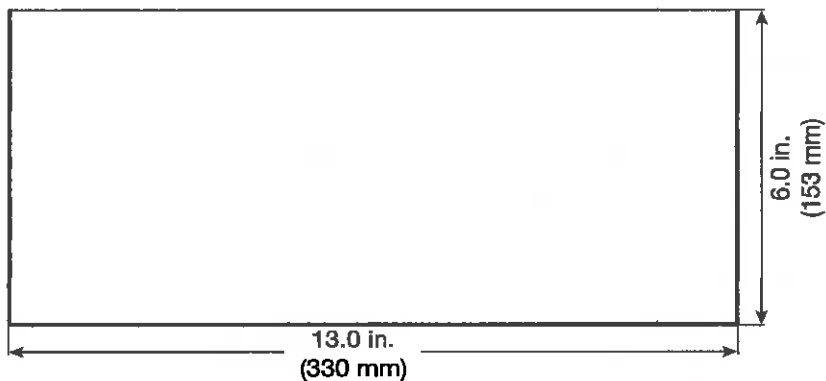
Asia
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Australia
T 61-3-9239-1200

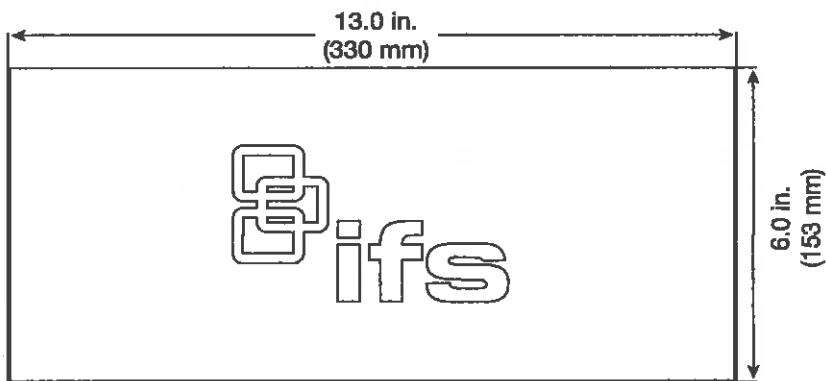
Europe
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Latin America
T 561-998-6114

Dimensional Diagrams



GE-DS-82



GE-DS-82-PoE and NS2503-8P/2C

Ordering Information

GE-DS-82	8-Port Fast Ethernet Managed Switch
GE-DS-82-PoE	8-Port Fast Ethernet PoE+ Managed Switch
NS2503-8P/2C	8-Port Fast Ethernet PoE+ Managed Switch
Included Accessories	User's Manual CD, Quick Installation Guide, AC Power Cord, RS-232 Cable, Rubber Feet, Rack Mount Ears with Screws

Note: These switches require a Small Form-factor Pluggable (SFP) for optical uplink use. IFS SFPs are available for multi-mode, single mode, and 1 or 2 fibers for various transmission distances over optical fiber. Please refer to the IFS SFP data sheet to select the appropriate SFP for your particular application needs. The mini-GBIC ports on these units accept Gigabit SFPs only. IFS S30 Series SFPs are recommended.

Accessories

SFP	S30 Series
SFP	S35 Series (wide-temp)



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Specifications subject to change without notice.

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