

ITB #18-015 PORT & MARINE SERVICES CCTV SURVEILLANCE SYSTEM MALLORY SQUARE & OUTER MOLE 1300 White Street, Key West, FL

1970 Dana Dr. Ft. Myers, Fl 33907 Voice: (239) 415-4374 Fax: (239) 415-4378 EC-0001085 **BID DOCUMENTS FOR:**



ITB #18-015

PORT & MARINE SERVICES CCTV SURVEILLANCE SYSTEM MALLORY SQUARE & OUTER MOLE

JANUARY 2018

CITY OF KEY WEST

MAYOR: CITY CRAIG CATES COMMISSIONERS:

JIMMY WEEKLEY

BILLY WARDLOW

MARGARET ROMERO

PREPARED BY: Port & Marine Services SAMUEL KAUFMAN

RICHARD G. PAYNE

CLAYTON LOPEZ

ITB DOCUMENTS

CITY OF KEY WEST

KEY WEST, FLORIDA

BID DOCUMENTS

for

CCTV SURVEILLANCE SYSTEM MALLORY SQUARE & OUTER MOLE

CONSISTING OF:

BIDDING REQUIREMENTS SUPPLEMENTAL INFORMATION DRAWINGS

PORT & MARINE SERVICES

JANUARY 2018

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PART 1

BIDDING REQUIREMENTS



INVITATION TO BID

Sealed Bids for City of Key West (CITY) Port & Marine Services "CCTV SURVEILLANCE SYSTEM – MALLORY SQUARE & OUTER MOLE," addressed to the City of Key West, will be received at the office of the City Clerk, 1300 White Street, Key West, Florida until 3:00 p.m., local time, on the 13th day of February 2018, and then will be publicly opened and read. Any bids received after the time and date specified will not be considered.

Please submit one (1) original bid package and two (2) electronic copies on USB drives with a single PDF file of the entire bid package. Bid package shall be enclosed in a sealed envelope, clearly marked on the outside "ITB #18-015 PORT & MARINE SERVICES -CCTV SURVEILLANCE SYSTEM – MALLORY SQUARE & OUTER MOLE" addressed and delivered to the City Clerk at the address noted above.

The project contemplated consists of providing design, equipment, labor and materials necessary to accomplish the following:

• Design and Installation of a CCTV Surveillance System at Mallory Square and Outer Mole check points for Port & Marine Services.

The full Invitation to Bid may be obtained from Demand Star by Onvia and The City of Key West website. Please contact Demand Star at www.demandstar.com or call 1-800-711-1712 or www.cityofkeywest-fl.gov

A Mandatory pre-bid meeting will be held in the conference room at the Key West Historic Seaport Port and Marine Services Offices, 201 William Street, Key West, Florida on February 7, 2018 at 2:30 p.m.

EACH BID MUST BE SUBMITTED ON THE PRESCRIBED FORM AND ACCOMPANIED BY BID SECURITY AS PRESCRIBED IN THE INSTRUCTIONS TO BIDDERS, PAYABLE TO THE CITY OF KEY WEST, FLORIDA, IN AN AMOUNT NOT LESS THAN FIVE (5) PERCENT OF THE AMOUNT BID.

For information please contact Karen Olson, Deputy Director Port and Marine Services by email at kolson@cityofkeywest-fl.gov. Verbal communications, per the City's "Cone of Silence" ordinance is not allowed.

The Bidder shall furnish documentation showing that he is in compliance with the licensing requirements of County, and City licenses as would be required within ten days of the award. The successful Bidder must also be able to satisfy the City Attorney as to such insurance coverage and legal requirements as may be demanded by the Proposal in question. The CITY may reject BID for any and/or all of the following reasons: (1) for budgetary reasons, (2) if the proposer misstates or conceals a material fact in its bid, (3) if the proposal does not strictly conform to the law or is non-responsive to the bid requirements, (4) if the proposal is conditional, or (5) if a change of circumstances occurs making the purpose of the proposal unnecessary to the CITY. (6) if such rejection is in the best interest of the CITY. The CITY may also waive any minor formalities or irregularities in any proposal.

The CITY retains the right to award bid to the bidder or bidders that best meet the needs of the City.

INSTRUCTIONS TO BIDDERS

1. <u>CONTRACT DOCUMENTS</u>

A. <u>FORMAT</u>

The Bid Documents are divided into parts, divisions, and sections for convenient organization and reference.

B. <u>DOCUMENT INTERPRETATION</u>

Should there be any doubt as to the meaning or intent of said Bid Documents, the Bidder should request of the Deputy Director Port and Marine Services, in writing (at least 4 calendar days prior to Bid opening) an interpretation thereof. Any interpretation or change in said Bid Documents will be made only in writing in the form of Addenda to the Documents, which will be furnished to all registered holders of Bid Documents. Bidders shall submit with their Bids, or indicate receipt of all Addenda. The Owner will not be responsible for any other explanation or interpretations of said Documents.

2. <u>SCOPE OF SERVICES</u>

Vendor shall provide necessary wiring, cabling, install, configure and test equipment and materials necessary to add security cameras, to include internet services and licenses to system. Cameras shall be installed in two locations as identified in the SUMMARY OF WORK

4. <u>REQUIRED QUALIFICATIONS</u>

The prospective Bidder must meet the statutorily prescribed requirements before award of Contract by the CITY. Bidders must hold or obtain all licenses and/or certificates as required by the State and Local Statutes in order to bid and provide the product specified herein. Additionally, all Bidders must meet the minimum qualifications as described in Required Qualifications section.

4. <u>TYPE OF BID</u>

UNIT PRICE BID

Bid unit prices stated in this proposal include all costs and expenses for labor, equipment, materials, disposal and contractor's overhead and profit. Unit prices for the various work items are intended to establish a total price for completing the project in its entirety. All work and incidental costs shall be included for payment under the several scheduled items of the overall contract, and no separate payment will be made therefore.

5. <u>PREPARATION OF BIDS</u>

A. <u>GENERAL</u>

All blank spaces in the BID form must be filled in for all schedules and associated parts, as required, preferably in BLACK INK. All price information shall be clearly shown in both words and figures where required. No changes shall be made in the phraseology of the forms. Written amounts shall govern in case of discrepancy between the amounts stated in

writing and the amounts stated in figures. In case of discrepancy between unit prices and extended totals, unit prices shall prevail.

Any BID shall be deemed informal which contains omissions, erasures, alterations, or additions of any kind, or prices uncalled for, or in which any of the prices are obviously unbalanced, or which in any manner shall fail to conform to the conditions of the published Invitation to BID.

Only one BID from any individual, firm, partnership, or corporation, under the same or different names, will be considered. Should it appear to the Owner that any Bidder is interested in more than one BID for work contemplated; all Bids in which such Bidder is interested will be rejected.

B. <u>SIGNATURE</u>

The Bidder shall sign his BID in the blank space provided therefor. If Bidder is a corporation, the legal name of the corporation shall be set forth above together with the signature of the officer or officers authorized to sign Contracts on behalf of the corporation. If Bidder is a partnership, the true name of the firm shall be set forth above together with the signature of the partner or partners authorized to sign Contracts in behalf of the partnership. If signature is by an agent, other than an officer of a corporation or a member of a partnership, a notarized power-of-attorney must be on file with the Owner prior to opening of Bids or submitted with the Bid otherwise the Bid will be regarded as not properly authorized.

C. <u>ATTACHMENTS</u>

Bidder shall complete and submit the following forms with his bid:

- Anti-Kickback Affidavit
- Sworn Statement under section 287.133(3)(a) Florida Statutes, on public entity crimes
- Indemnification Form
- Local Vendors Form
- City of Key West Business License Tax Receipt
- Domestic Partnership Affidavit
- Cone of Silence Affidavit
- A complete description of the proposed Wireless Surveillance System including layout
- Cut sheets on all equipment
- Warranty information/ proposal (The City requires Bidder to warranty all materials and labor for two (2) years). Warranty to begin once the City determines the system is operating as specified in the specifications for a period of thirty (30) days. Bidder shall submit a warranty proposal to be included as part of a contract.

• All requirements listed in SUMMARY OF WORK

6. MODIFICATION OR WITHDRAWAL OF BID

Prior to the time and date designated for receipt of Bids, any Bid submitted may be withdrawn by notice to the party receiving Bids at the place designated for receipt of Bids. Such notice shall be in writing over the signature of the Bidder or by telegram. If by telegram, written confirmation over the signature of the Bidder shall be mailed and postmarked on or before the date and time set for receipt of Bids. No Bid may be

withdrawn after the time scheduled for opening of Bids unless the time specified in paragraph AWARD OF CONTRACT of these Instructions to Bidders shall have elapsed.

7. <u>AWARD OF CONTRACT</u>

Within SIXTY (60) calendar days after the opening of Bids, the CITY will accept one of the Bids or will act in accordance with the following paragraphs. The acceptance of the Bid will be by written notice of award, mailed to the office designated in the Bid, or delivered to the Bidder's representative. In the event of failure of the lowest responsive, responsible Bidder to sign the Contract and provide an acceptable insurance certificate(s) and evidence of holding required licenses and certificates, the Owner may award the Contract to the next lowest responsive, responsible Bidder. Such award, if made, will be made within ninety (90) days after the opening of Proposals.

The CITY reserves the right to accept or reject any or all Bids and to waive any formalities and irregularities in said Bids.

8. BASIS OF AWARD

The award will be made by the Owner on the basis of the BID from the lowest, responsive, responsible BIDDER(s) which, in the Owner's sole and absolute judgment will best serve the interest of the Owner. Low bid(s) selection to be based on an hourly rate comparison.

9. <u>PUBLIC RECORDS REQUIREMENTS</u>

In addition to other contract requirements provided by law, each public agency contract for services must include a provision that requires the Vendor to comply with public records laws, specifically to (a) keep and maintain public records that ordinarily and necessarily would be required by the public agency in order to perform the service; (b) provide the public with access to public records on the same terms and conditions that the public agency would provide the records and at a cost that does not exceed the cost provided in this chapter or as otherwise provided by law; (c) ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law; and (d) meet all requirements for retaining public records and transfer, at no cost, to the public agency all public records in possession of the Vendor upon termination of the contract and destroy any duplicate public records that exempt or confidential and exempt from public records disclosure requirements. All records stored electronically must be provided to the public agency in a format that is compatible with the information technology systems of the public agency. If a Vendor does not comply with a public records request, the public agency shall enforce the contract provisions in accordance with the contract.

10. BIDDER'S DECLARATION AND UNDERSTANDING

The undersigned, hereinafter called the Bidder, declares that the only persons or parties interested in this Bid are those named herein, that this Bid is, in all respects, fair and without fraud, that it is made without collusion with any official of the Owner, and that the Bid is made without any connection or collusion with any person submitting another Bid on this Contract.

The Bidder further declares that he has carefully examined the Contract Documents and that this Bid is made according to the provisions and under the terms of the Contract Documents, which Documents are hereby made a part of this Bid.

11. INDEMNITY LANGUAGE

To the fullest extent permitted by law, the VENDOR expressly agrees to indemnify and hold harmless the City of Key West, their officers, directors, agents and employees *(herein called the "indemnitees") from liabilities, damages, losses and costs, including but not limited to, reasonable attorney's fees and court costs, such legal expenses to include costs incurred in establishing the indemnification and other rights agreed to in this Paragraph, to persons or property, to the extent caused by the negligence, recklessness, or intentional wrongful misconduct of the CONTRACTOR, its Subcontractors or persons employed or utilized by them in the performance of the Contract. Claims by indemnitees for indemnification shall be limited to the amount of CONTRACTOR's insurance or \$1 million per occurrence, whichever is greater. The parties acknowledge that the amount of the indemnity required hereunder bears a reasonable commercial relationship to the Contract and it is part of the project specifications or the bid documents, if any.

The indemnification obligations under the Contract shall not be restricted in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for the VENDOR under Workers' Compensation acts, disability benefits acts, or other employee benefits acts, and shall extend to and include any actions brought by or in the name of any employee of the VENDOR or of any third party to whom VENDOR may subcontract a part or all of the Work. This indemnification shall continue beyond the date of completion of the work.

12. <u>CERTIFICATES OF INSURANCE</u>

Bidder agrees to furnish the Owner, before commencing the work under this Contract, the certificates of insurance as specified below.

VENDOR is to secure, pay for, and file with the City of Key West, prior to commencing any work under the Contract, all certificates for workers' compensation, public liability, and property damage liability insurance, and such other insurance coverages as may be required by specifications and addenda thereto, in at least the following minimum amounts with specification amounts to prevail if greater than minimum amounts indicated. Notwithstanding any other provision of the Contract, the VENDOR shall provide the minimum limits of liability insurance coverage as follows:

Auto Liability	\$1,000,000	Combined Single Limit
General Liability	\$2,000,000	Aggregate (Per Project)
	\$2,000,000	Products Aggregate
	\$1,000,000	Any One Occurrence
	\$1,000,000	Personal Injury
	\$ 300,000	Fire Damage/Legal
Additional Umbrella Liability	\$1,000,000	Occurrence / Aggregate

VENDOR shall furnish an original Certificate of Insurance indicating, and such policy providing coverage to, City of Key West named as an additional insured on a PRIMARY and NON-CONTRIBUTORY basis utilizing an ISO standard endorsement at least as broad as CG 2010 (11/85) or its equivalent, (combination of CG 20 10 07 04 and CG 20 37 07 04, providing coverage for completed operations, is acceptable) including a waiver of subrogation clause in favor of City of Key West on all policies. VENDOR will maintain the General Liability and Umbrella Liability insurance coverages summarized above with coverage continuing in full force including the additional insured endorsement until at least 3 years beyond completion and delivery of the work contracted herein.

Notwithstanding any other provision of the Contract, the VENDOR shall maintain complete workers' compensation coverage for each and every employee, principal, officer, representative, or agent of the VENDOR who is performing any labor, services, or material under the Contract. Further, VENDOR shall additionally maintain the following minimum limits of coverage:

Bodily Injury Each Accident	\$1,000,000
Bodily Injury by Disease Each Employee	\$1,000,000
Bodily Injury by Disease Policy Limit	\$1,000,000

VENDOR shall provide the City of Key West with a Certificate of Insurance verifying compliance with the workman's compensation coverage as set forth herein and shall provide as often as required by the City of Key West such certification which shall also show the insurance company, policy number, effective and expiration date, and the limits of workman's compensation coverage under each policy.

CONTRACTOR's insurance policies shall be endorsed to give 30 days written notice to the City of Key West in the event of cancellation or material change, using form CG 02 24, or its equivalent.

Certificates of Insurance submitted to the City of Key West will not be accepted without copies of the endorsements being requested. This includes additional insured endorsements, cancellation/material change notice endorsements, and waivers of subrogation. Copies of USL&H Act and Jones Act endorsements will also be required if necessary. PLEASE ADVISE YOUR INSURANCE AGENT ACCORDINGLY.

VENDOR will comply with any and all safety regulations required by any agency or regulatory body including but not limited to OSHA. VENDOR will notify City of Key West immediately by telephone at (305) 809-3811 any accident or injury to anyone that occurs on the jobsite and is related to any of the work being performed by the CONTRACTOR.

SURETY AND INSURER QUALIFICATIONS

All bonds, insurance contracts, and certificates of insurance shall be either executed by or countersigned by a licensed resident agent of the Surety or insurance company, having his place of business in the State of Florida, and in all ways complying with the insurance laws of the State of Florida. Further, the said Surety or insurance company shall be duly licensed and qualified to do business in the State of Florida.

13. <u>TIME OF COMPLETION</u>

The time of completion of the work to be performed under this Contract is the essence of the Contract. When the Contractor receives a Notice to Proceed, he shall commence work as soon as possible and shall complete all work within the number of calendar days stipulated in this Proposal.

The term of this contract will be 30 days.

14. ADDENDA

15. <u>TRANSPORTATION WORKERS INDETIFICATION CREDENTIAL (TWIC) CARD</u> The Vendor, vendor's installer and vendor's subcontractor(s) must have or obtain TWIC cards or follow strict guidelines for escorting non-vetted personal.



PORT & MARINE SERVICES 201 William Street Key West, FL 33040

ADDENDUM NO. 1

CCTV SURVEILLANCE SYSTEM BIGHT MALLORY SQUARE & OUTER MOLE ITB #18-015

The information contained in this Addendum adds information to be included in the Bid and is hereby made a part of the Contract Documents. The referenced bid package is hereby addended in accordance with the following items:

QUESTIONS and CLARIFICATIONS

- 1. The bid opening date has changed to Tuesday February 20, 2018 at 3:00pm.
- 2. All requests for additional information or clarification must be received no later than Tuesday February 13, 2018 at 5:00pm.
- 3. The Coast Guard range marker tower, located on Navy property, may be used to mount equipment. See attached photo.
- 4. Mandatory Pre-Bid Sign-In sheet attached.

PROCUREMENT REQUIREMENTS

1. Non-Collusion Affidavit attached.

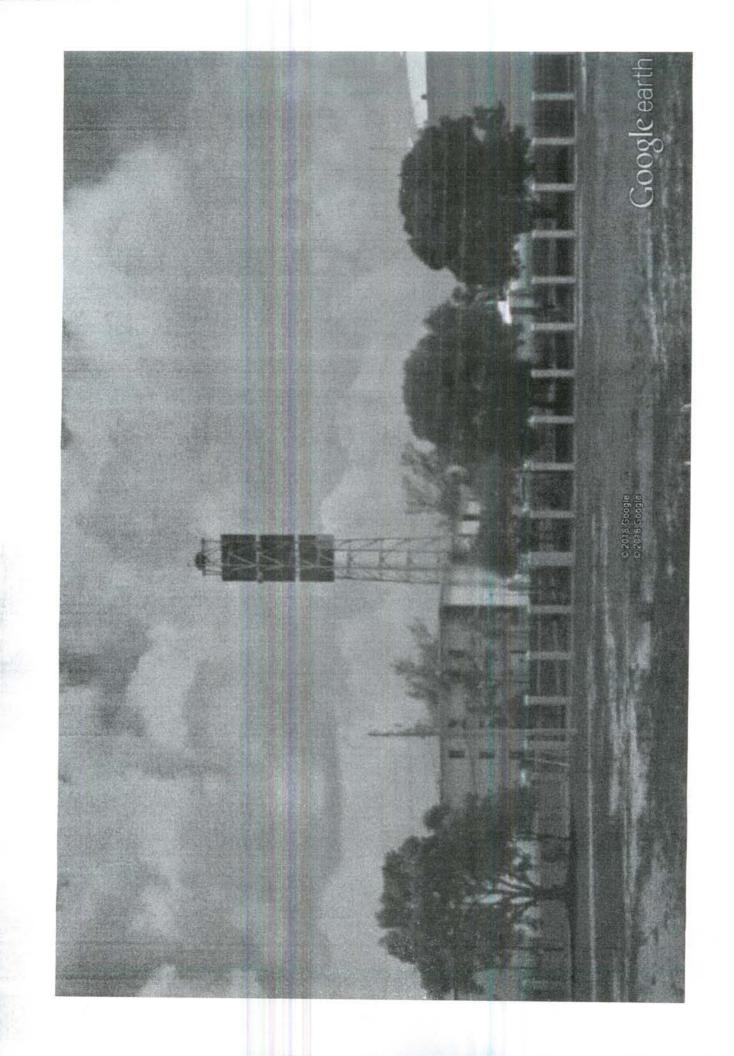
All other elements of the Contract and Bid documents, shall remain unchanged.

All Bidders shall acknowledge receipt and acceptance of this Addendum No. 1 by submitting the addendum with their proposal. Proposals submitted without acknowledgement or without this Addendum may be considered non-responsive.

Signatur

Integrated Fire & Security Solutions Inc

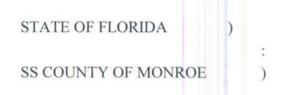
Name of Business



PORT & MARINE SERVICES CCTV SURVEILLANCE SYSTEM MALLORY SQUARE & OUTER MOLE ITB #18-015 Mandatory Pre-Bid Meeting SIGN-IN Sheet February 7, 2018 2:30 PM

NAME / COMPANY	CONTACT #		EMAIL	
KAPEN OLSON CKM Davis BRODSHOW	305-809-3803 305-809-3792	KOLSONO UTY DBEADSHANO	UPKENNEST-FL.GOV	/
JILL KRANTZ /ALEC	561.313.9325	JKRAVITZ @ais	SODNLINE.COM	
Mike QuolAS	210-607-1799	Mike Quolas @	outlook.com	
9		jdiscolohy tod		
. (.	5-296-5111 SSLO	NGHC HY-TECH SO	illitions. Lom	
	64 305. 484-6 291	Keime Keimbe	2.09	
Jesus (arias	/	Jcarias	e. ipssi.com	
Jonathan Phelps	(305)340-9243	JPhelpsa	STESSI. com	
J. MARTINO	561 616 9567	JMARTINO AI	SG-ONLINE, COM	
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		20		

NON-COLLUSION AFFIDAVIT



I, the undersigned hereby declares that the only persons or parties interested in this Proposal are those named herein, that this Proposal is, in all respects, fair and without fraud, that it is made without collusion with any official of the Owner, and that the Proposal is made without any connection or collusion with any person submitting another Proposal on this Contract.

Sworn and subscribed before me this

16th day of February , 2018. ESPERANZA TRUJILLO MY COMMISSION # GG 097709 EXPIRES: July 6, 2021 RY PUBLIC, State of Florida at Large Bonded Thru Notary Public Underw My Commission Expires:



201 William Street Key West, FL 33040

ADDENDUM NO. 2

CCTV SURVEILLANCE SYSTEM BIGHT MALLORY SQUARE & OUTER MOLE ITB #18-015

The information contained in this Addendum adds information to be included in the Bid and is hereby made a part of the Contract Documents. The referenced bid package is hereby addended in accordance with the following items:

QUESTIONS and CLARIFICATIONS

 The bid requires the system to have a battery back-up of 8 hr. Batteries are typically used for less than 30 minutes to maintain a system from power disruption during short outages, until a generator engages, or sufficient time to properly power off equipment. Is 8 hour absolutely necessary? If so can a generator be used in combination with a ups to meet this requirement? Note: batteries are typically replaced every 3-5 years based on use the long term expense would be greater vs a generator.

Vendor to provide 1-hour minimum battery back-up.

2. Page 29 under d. general:" System shall be capable of withstanding extreme heat." What temp defines extreme? Both antenna and camera specified are only rated to 131F.

It is the vendors responsibility to assure all equipment withstands the conditions found in the City's subtropical climate.

3. Page 28 under d. general: "Vendor shall also provide, install, configure, and test a recording server adequately sized to provide thirty (30) days of recording." The summary does not give adequate information to determine hard drive sizing to meet this requirement. Please provide in addition the required frames per second and resolution.

Revised Bid Form, Summary of Work and new location map attached.

4. Page 29 under d. general: "System shall have viewing in color." Does this requirement apply to recording at night? Most cameras will switch to B/W in low light environments. Is color during the day acceptable with B/W at night?

Yes

5. Based on the information provided in the summary of work it is unclear to the amount of cameras and/or the area of coverage requested at each location. Can a map with color coordination be provided to identify the coverage areas that are required?

Revised Bid Form, Summary of Work and new location maps attached.

6. Item 20 of the bid form "Wi-Fi Service (30/30MBPS bandwidth) and 24hr System Monitoring". There is no detail given to this item in the summary. Can you provide additional information to the expectation for this item? (example: Wifi within XXXft of the equipment location? Internet service provided? System monitoring for failures? System monitoring of camera feeds for identified actions?)

There is no internet service at either location. Vendor shall supply service to meet the viewing/ monitoring capabilities as required by the ITB.

7. The pricing guide items 1 & 11 address permits at a fixed amount. Is this amount agreed upon with the permits office or do standard permit fees apply?

Permit fees listed on the Bid Form are an allowance. Actual standard permit fees will be reimbursed to the vendor at cost.

8. Please confirm there would be adequate required space for 100volt UPS at each location required.

See answer to question #1 above. UPS shall be stored in the weatherproof/vandal proof enclosure provided at Mallory Square. There is adequate room for the UPS in the Security Trailer at the Outer Mole.

9. Please confirm days and hours allowed to work on this project.

Construction noise allowed 8:00 a.m. to 7:00 p.m., Monday through Friday, and 9:00 a.m. to 5:00 p.m. on Saturday.

All other elements of the Contract and Bid documents, including the bid date shall remain unchanged.

All Bidders shall acknowledge receipt and acceptance of this **Addendum No. 2** by submitting the addendum with their proposal. Proposals submitted without acknowledgement or without this Addendum may be considered non-responsive.

Signati

Integrated Fire & Security Solutions Inc.

Name of Business

BID FORM

Project Title: **CCTV SURVEILLANCE SYSTEM MALLORY SQUARE & OUTER MOLE** Project No.: ITB #18-015

UNIT PRICE BID

Bid unit prices stated in this proposal include all costs and expenses for labor, equipment, materials, disposal and contractor's overhead and profit. Unit prices for the various work items are intended to establish a total price for completing the project in its entirety. All work and incidental costs shall be included for payment under the several scheduled items of the overall contract, and no separate payment will be made therefore.

MALLORY SQUARE

1. Permit Fees (to be paid at cost)

1	LS			\$	1,000.00	
2. <u>180 Degree 4K</u>	2. 180 Degree 4K Camera (includes all material, equipment and labor)					
2	EA	Unit Price \$ <u>5,033.85</u>	TOTAL	\$	10,067.70	
3. <u>PZT 1080p Car</u>	<u>mera</u> (incl	udes all material, equipment and la	bor)			
1	EA	Unit Price \$_5,921.61	TOTAL	\$	5,921.61	
4. <u>Antenna / Radi</u>	<u>o</u> (include	es all material, equipment and labor)			
QTY.	3	Unit Price \$2,833.30	TOTAL	\$	8,499.89	
5. Base Station A	ntenna / R	tadio (includes all material, equipm	ent and lab	or)		
QTY.	_3	Unit Price \$2,833.30	TOTAL	\$	8,499.89	
6. POE Switch (in	cludes all	l material, equipment and labor)				
QTY.	2	Unit Price \$2,127.65	TOTAL	\$	4,255.30	
7. Network Video	Recorder	(includes all material, equipment a	und labor)			
1	LS			\$	27,307.53	
8. <u>4K Monitor</u> (in	8. <u>4K Monitor</u> (includes all material, equipment and labor)					
1	LS			\$	2,383.42	
9. Battery Back-u	p (include	s all material, equipment and labor)			
1	LS			\$	2,642.48	

10. Surge Protection (includes all material, equipment and labor)					
1 LS			\$	995.00	
11. Weather/Vandal Proof E	Enclosure (includes all material, ec	quipment ar	ıd lab	or)	
1 LS			\$	14,986.62	
SUB-TOTAL OF ALL EXTEN	NDED LINE ITEMS LISTED ABOVI	E:			
Total of Mallory Square line	e items 1 - 11	\$	8	36,559.44	
OUTER MOLE 12. Permit Fees (to be paid a	at cost)				
1 LS			\$	1,000.00	
13. 180 Degree 4K Camera	(includes all material, equipment	and labor)			
2 EA	Unit Price \$5,033.85	TOTAL	\$	10,067.70	
14. PZT 1080p Camera (incl	ludes all material, equipment and	labor)			
1 EA	Unit Price \$5,921.61	TOTAL	\$	5,921.61	
15. <u>Antenna / Radio</u> (include	es all material, equipment and lab	or)			
QTY. <u>2</u>	Unit Price \$2,833.30	TOTAL	\$	5,666.60	
16. Base Station Antenna / R	Radio (includes all material, equip	ment and la	bor)		
QTY. 2	Unit Price \$2,833.30	TOTAL	\$	5,666.60	
17. POE Switch (includes all	l material, equipment and labor)				
QTY. <u>2</u>	Unit Price \$2,127.65	TOTAL	\$	4,255.30	
18. <u>Network Video Recorder</u>	r (includes all material, equipment	t and labor)			
1 LS			\$	27,307.53	
19. <u>4K Monitor</u> (includes all material, equipment and labor)					
1 LS			\$	975.00	
120. Battery Back-up (includ	les all material, equipment and lab	oor)			
1 LS			\$	2,642.48	
	2				

21. Surge Protection (includes all material, equipment and labor)			
1 LS		\$	1,125.00
SUB-TOTAL OF ALL EXTENDED LINE ITEMS LISTED ABOVE:			
Total of Outer Mole line items 12 - 21	\$	6	64,627.82
 22. <u>Wi-Fi Service (30/30MBPS bandwidth) and 24hr System Mon</u> 24 MO Unit Price/Mo. \$<u>337.26</u> The second second	OTAL	\$	8,094.24
23. General Anowance (only to be used with Owner's written app	proval)		
1 LS		\$	5,000.00
TOTAL OF ALL EXTENDED LINE ITEMS LISTED ABOVE:			
Total of line items 1 - 23	\$	164,	281.50
One Hundred Sixty four Thousand Two Hundred Eighty One Dollars	&	50	Cents
(an assut switten is see al.)	5.0		

(amount written in words)

Cost of work to be all inclusive for a complete job including equipment, material, labor, permits, insurance, overhead and profit.

Alternate Bid #1

1. Security staff monitoring stations for both Mallory Square and Outer Mole to be shared and located at the Outer Mole checkpoint ((1) Monitor, (1) NVR).

Total of lump sum BID ALTERNATE #1 ADD (DEDUCT) (circle one) \$ 36,276.30

 Thirty Six Thousand Two Hundred Seventy Six Dollars & 30
 Cents

 (amount written in words)
 30

Additional Pricing

1. Monthly system maintenance cost after warranty expiration. Costs to include all material, equipment and labor.

1	MO
	1410

Unit Price/Mo. \$_1,034.64

SUMMARY OF WORK

WORK INCLUDED

- 1. The Contractor will design and furnish all CCTV Surveillance System material, equipment, machinery, and labor to accomplish the following minimum requirements for each site:
 - a. Mallory Square Security Checkpoint:
 - Axis Q3709-PVE 180 degree 4K camera and required mounts or Equal
 - Axis Q6115-E PZT 1080p camera and required mounts or Equal
 - Ignitenet: MetroLinq 2.5G 60-19 PTP/Client antenna/radio and required mounts or Equal
 - Ignitenet: MetroLinq 2.5G 60-30-18 Sector base station antenna/radio and required mounts or Equal
 - Netonix WS-12-250-AC POE switch or equal
 - NVR with 8 channels, 30 days storage @ 30fps with ability to expand storage
 - 19" Full-HD 4K Monitor
 - Wall mount weatherproof/vandal proof enclosure for NVR and monitor

b. Outer Mole Security Checkpoint:

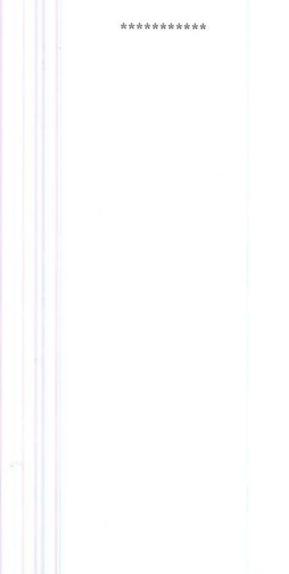
- Axis Q3709-PVE 180 degree 4K camera and required mounts or Equal
- Axis Q6115-E PZT 1080p camera and required mounts or Equal
- Ignitenet: MetroLinq 2.5G 60-19 PTP/Client antenna/radio and required mounts or Equal
- Ignitenet: MetroLinq 2.5G 60-30-18 Sector base station antenna/radio and required mounts or Equal
- Netonix WS-12-250-AC POE switch or equal
- NVR with 8 channels, 30 days storage @ 30fps with ability to expand storage
- 32" Full-HD 4K Monitor
- c. Alternate Bid:
 - Security staff monitoring stations for both Mallory Square and Outer Mole to be located at the Outer Mole checkpoint. This alternate eliminates the NVR and monitor from the Mallory square location and reduces the size of the enclosure.
- d. General:
 - System must have remote viewing capabilities and must be fully functional for employee's computers and iPhones and other hand-held devices
 - If a camera or lighting test is necessary to determine the operating parameters of the proposed camera(s), test shall be performed at the expense of the vendor.
 - Vendor responsible to provide necessary electrical wiring from City's existing infrastructure to all new equipment. This wiring shall be encased in conduit.
 - Vendor shall also provide, install, configure, and test a recording server adequately sized to provide thirty (30) days of recording.
 - System shall include all necessary software and licenses.
 - There shall not be re-occurring licensing fees.

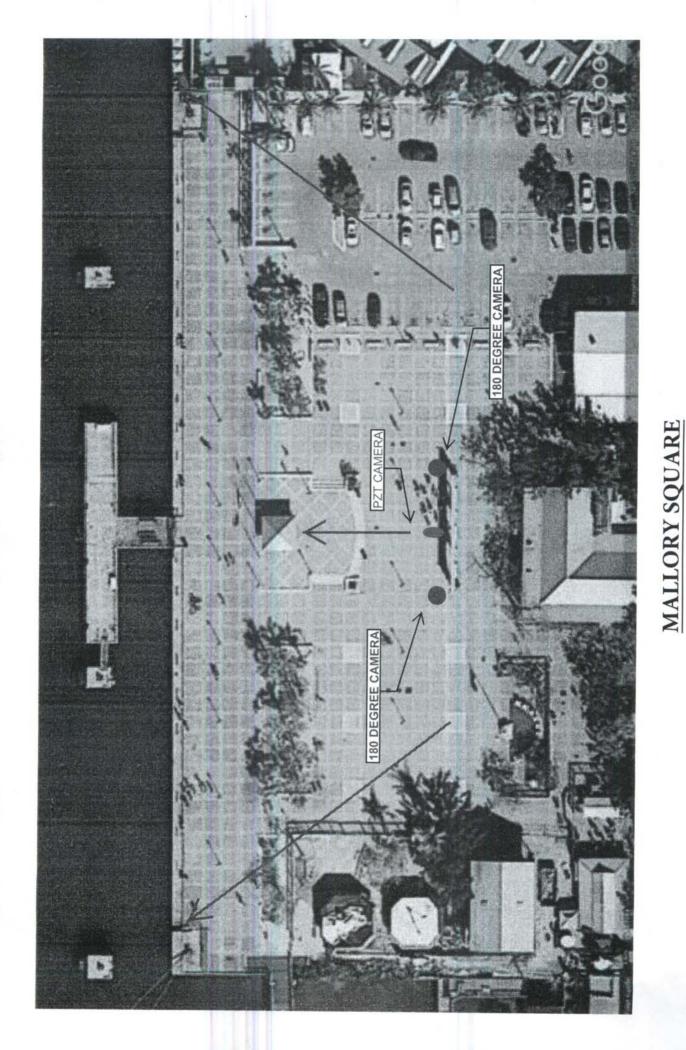
- System shall have constant coverage of areas.
- Entire system to have battery Back-up: 1-hr minimum battery life.
- Entire system to have surge protection: 600 joules minimum.
- System shall have viewing in color.
- System shall be capable of withstanding harsh environment including corrosive conditions caused by saltwater and hurricane winds and/or be in protective housing.
- System shall be capable of withstanding extreme heat
- Cables/ wiring shall be protected from vandalism by the use of conduit or other means.
- Cameras shall be vandal resistant.
- Vendor to remove, and dispose of, any existing abandoned CCTV equipment.
- Vendor will be responsible for identifying and verifying availability of locations for mounting cameras or equipment. If mounting locations are not available, Contractor will be responsible for installing mounting locations. Installation shall be included with Proposal.
- 3. Vendor to provide a complete written description including system capabilities, type of cameras including brand, capability of cameras, recording ability in quality and quantity and upgrade/ expansion capabilities.
- Vendor to provide a complete written description including type of system and brand of stand-alone monitoring / retrieval system. Description shall include playback capability, copying to DVD, print screen ability, etc...
- 5. Vendor to provide a complete system layout showing camera locations, wiring, antennas, etc.
- 6. Contractor to provide cut sheets on all equipment including cameras, computers, recording devices, wiring, etc.
- 7. The City is requiring the Bidder to warranty all materials and labor for two (2) years. Warranty will begin once the City determines the system is operating as specified in the technical specifications for a period of 30-days. Provide complete written description of warranty and what it covers.

During warranty period vendor shall identify and diagnose system/ equipment failures within 24 hours. All system repairs must be made within 72 hours.

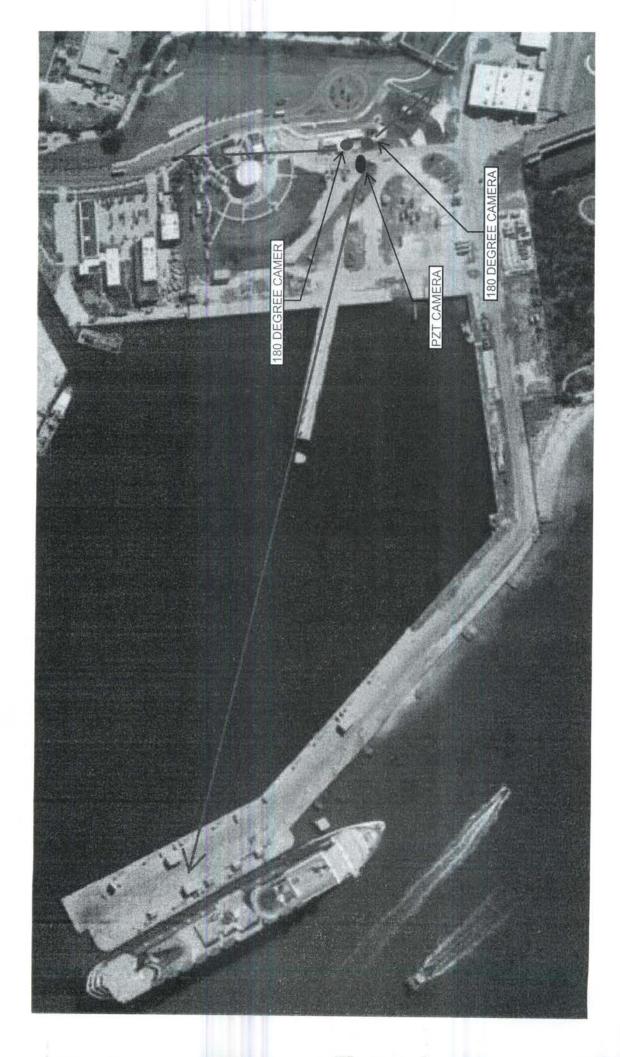
If repairs are not completed within the required 72 hours a fine of \$100/day will be imposed until repairs are made

- 8. Vendor to describe how the cameras, antennas, etc. will be protected in the harsh coastal environment including type of housing units.
- 9. Vendor to describe how the cameras, antennas, monitoring / recording equipment etc. will be protected against power surge.
- 10. Vendor to describe the type of training, if any, provided with the proposed system.
- 11. Vendor shall secure permits as necessary for proper execution and completion of the work and shall ensure that all Federal, State, and Local codes are followed.
- 12. Vendor shall take the necessary steps to secure the site including fencing, barricades, and/or security to prevent entry by unauthorized persons. The Port & Marine Services Director or designee shall approve security measures.
- 13. It shall be the Vendor's responsibility to request approval for entrance to certain areas of worksite for work on Saturdays, Sundays, holiday, and weekday hours other than 7:00 am until 5:00 pm.





(CAMERA LOCATION MAP)



OUTER MOLE (CAMERA LOCATION MAP)

CITY OF KEY WEST, FLORIDA Business Tax Receipt This Document is a business tax receipt

This Document is a business tax receipt Holder must meet all City zoning and use provisions. P.O. Box 1409, Key West, Florida 33040 (305) 809-3955

Business Name	INTEGRATED FIRE & SECURITY SOL CtlNbr:0020321
Location Addr	7857 DREW CIR 15
Lic NBR/Class	18-00025030 CONTRACTOR - CERT ELECTRICAL
Issue Date:	August 04, 2017 Expiration Date: September 30, 2018
License Fee	\$325.00
Add. Charges	\$0.00
Penalty	\$0.00
Total	\$325.00
Comments:	

This document must be prominently displayed. PETERSON, JOHN

INTEGRATED FIRE & SECURI 1970 DANA DR	TY SOL	Oper: KENUAB Type: 00 Tete: B/09/17.63 Receipt r	Brayer: 1 o: 2008
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		Trans date: 8/04/17 Time	8:13:25

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	TEGRATED FIRE AND SECUR 70 Dana Dr.	ITY SOLUTIONS,	INC.
FOF	RT MYERS, FL 33907		
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OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 01/31/2018

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CEF	RTIF	ICATE HOLDER		1		CANCELLATION			_		
City of Key West, FL						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 REPRESE	NTATIVE				
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					- I		88-2014 ACC	ORD CORPORATION.	All ri	ahts reserved	
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CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 01/31/18

BELOW. THIS CERTIFICATE OF INS REPRESENTATIVE OR PRODUCER, IMPORTANT: If the certificate hold	AND	NCE I	DOES N	OT CONSTITUT	TE A CO	NTRACT BE	TWEEN THE	ERAGE AFFORDED BY T E ISSUING INSURER(S), A	AUTHORIZED
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PRODUCER	t con	ier rig	nts to I	ne certificate no	CONTA	CT		2 miles	
Aon Risk Services, Inc of Florida 1001 Brickell Bay Drive, Suite #1100					PHONE		k Services, Inc	FAX	
Miami, FL 33131-4937					EMAIL	o, Ext): 800-743		(A/C, No): 800-5	22-7514
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Miami, FL 33173 ALTERNATE EMPLOYER					INSUR	RD:			
Integrated Fire & Security Solutions Inc. DBA IFSS 1970 Dana Drive					INSURI	ERE:			
Fort Myers, FL 33907		-			INSURI	RF:			1
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ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED?	N/A							E.L. EACH ACCIDENT	\$ 2,000,000
(Mandatory in NH) If yes, describe under								E.L. DISEASE - EA EMPLOYEE	\$ 2,000,000
DESCRIPTION OF OPERATIONS below								E.L. DISEASE - POLICY LIMIT	\$ 2,000,000
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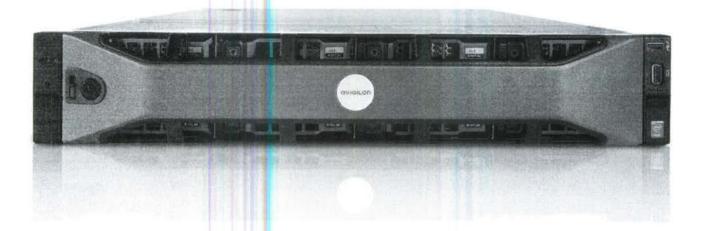
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HD NVR Standard

Avigilon HD Network Video Recorders (NVRs) provide secure, reliable and scalable platforms for high performance end-to-end security solutions. Our network security recorders have Avigilon Control Center (ACC) software preloaded and configured for plug-and-play network video recording and management of multi-megapixel IP cameras, up to our industry-leading 7K (30 megapixel) HD Pro.



The Avigilon HD NVR Standard is a 2U rack mountable recorder specifically manufactured for the Avigilon ecosystem. It leverages the full power of Avigilon Control Center (ACC) software to deliver high throughput and retention without sacrificing availability. The NVR Standard meets the requirements of IP video and video analytics metadata storage. It's backed by the Avigilon three-year warranty, which provides businesses with support and onsite parts delivery for continuous recording and retention of video while minimizing disruptions to security operations.

The HD NVR Standard is an out-of-the-box, readyto-deploy video recording platform for single site surveillance or to be distributed across multiple remote sites.

KEY FEATURES

Preloaded and configured with ACC™ video management software

High performance of up to 900 Mbps of total throughput – simultaneous recording, playback, and live streaming

Highly scalable capacity options — up to 36TB of recording for long-term video retention

Hot-swappable components maintain video recording and playback operations even in the event of multiple component failures

Separation of operating system and video storage volumes to enable independent, non-disruptive maintenance

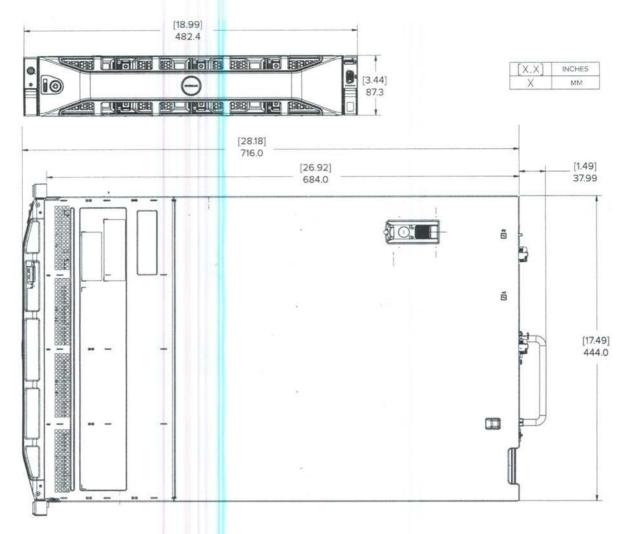
An easy to access and maintain 2U rack mount chassis — includes a sliding rail kit and cable management system

A three-year warranty with on-site parts delivery service

Specifications

SYSTEM	Video Management Software	Avigilon Control Center - compatible with Enterprise, Standar	d and Core editions				
	Network Network Connection Video	1 GbE - with multiple network connections					
	Streaming Recording Data Rate	Up to 450 Mbps					
	Performance" Playback and Live Streaming	Up to 450 Mbps (while simultaneously recording video)					
	Number of Cameras	Up to 128					
	Recording Storage Capacity	Up to 48 TB raw, 36 TB effective (RAID 6)					
	Hard Disk Drive Configuration	Video data — up to 8 x large form factor near-line SAS hard disk Operating system — 2 x small form factor SATA hard disk drives					
	Network Interface	4 x 1 GbE RJ-45 ports (1000Base-T) (Optional) 2 x 10 GbE SFP+ ports (transceivers not included)					
	Memory	16GB DDR4					
	Operating System	Microsoft Windows 10 Enterprise					
	Processor	Intel® Xeon® Processor E5-2609 v3, 1.9GHz, 15M Cache					
	Video Outputs	2 x VGA					
	Local Viewing	No					
	Remote Access	iDRAC8 Express					
	riese hauronning allmas die resea on variannen	esting by Avigitan. uning Avigitan Control Center software. For more information, contect Avig					
MECHANICAL	Form Factor	2U rack mount chassis					
	Dimensions with bezel	716 mm x 482.4 mm x 87.3 mm; 28.19" x 18.99" x 3.44"					
	(LxWxH) without bezel	684 mm x 444 mm x 87.3 mm; 27.64" x 17.49" x 3.44"					
	Weight	22.3 kg (49.2 lb)					
	Power Supply Power Consumption	750 W single - optional secondary power supply Average: 270 W (921.3 BTU/h) Maxmium: 750 W (2560.8 BTU/h)					
INVIRONMENTAL	Operating Temperature	10° C to 35° C (50° F to 95° F)					
	Storage Temperature	-40° C to 65° C (-40° F to 149° F)					
	Humidity	5% to 95% relative humidity with 33° C (91° F) maximum dew po	int (non-condensing)				
	Operating Vibration	0.26 Grms at 5 Hz to 350 Hz					
	Storage Vibration	1.88 Grms at 10 Hz to 500 Hz for 15 min					
	Operating Shock	Six consecutively executed shock pulses in the positive and neg	gative x, y, and z axes of 40 G for up to 2.3 ms				
	Storage Shock	for up to 2 ms	gative x, y, and z axes (one pulse on each side of the system) of $\overline{\imath}$				
	Operating Altitude	3,048 m (10,000 ft)					
	Storage Altitude	12,000 m (39,370 ft)					
LIDDI (ED)	Dank Dall Sustan	Sliding rail system with cable management and Connector					
	Rack Rail System	Sliding rail system with cable management arm. Supports: • Tool-less mounting in 19"-wide EIA-310-E compliant squar • Tooled mounting in threaded hole 4-post racks	e hole and unthreaded round-hole 4-post racks				
	Rack Rail System Bezel	 Tool-less mounting in 19"-wide EIA-310-E compliant squar 	e hole and unthreaded round-hole 4-post racks				
		Tool-less mounting in 19"-wide EIA-310-E compliant squar Tooled mounting in threaded hole 4-post racks	e hole and unthreaded round-hole 4-post racks				
CCESSORIES	Bezel	Tool-less mounting in 19"-wide EIA-310-E compliant squar Tooled mounting in threaded hole 4-post racks 1, front EN 60950-1:2006 / A11:2009 / A1:2010 / A12:2011 / A2:2013	te hole and unthreaded round-hole 4-post racks UL/CSA/IEC 60950-1, 2 Ed + Am 1: 2009 + Am 2: 2013				
CCESSORIES	Bezel Power Cords Safety	Tool-less mounting in 19"-wide EIA-310-E compliant squar Tooled mounting in threaded hole 4-post racks 1, front 1 EN 60950-1:2006 / A11:2009 / A1:2010 / A12:2011 / A2:2013 EN 62311:2008	UL/CSA/IEC 60950-1, 2 Ed + Am 1: 2009 + Am 2: 2013				
CCESSORIES	Bezel Power Cords Safety Power Efficiency	Tool-less mounting in 19"-wide EIA-310-E compliant squar Tooled mounting in threaded hole 4-post racks 1, front 1 EN 60950-1:2006 / A11:2009 / A1:2010 / A12:2011 / A2:2013 EN 62311:2008 80 PLUS Titanium	UL/CSA/IEC 60950-1, 2 Ed + Am 1: 2009 + Am 2: 2013 ENERGY STAR 2.0				
UPPLIED	Bezel Power Cords Safety	Tool-less mounting in 19"-wide EIA-310-E compliant squar Tooled mounting in threaded hole 4-post racks 1, front 1 EN 60950-1:2006 / A11:2009 / A1:2010 / A12:2011 / A2:2013 EN 62311:2008	UL/CSA/IEC 60950-1, 2 Ed + Am 1: 2009 + Am 2: 2013				
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Outline Dimensions



Ordering Information

 HD-NVR3-STD-24TB
 24 TB HD NVR Standard with Microsoft Windows 10 Enterprise Embedded and Avigilon Control Center

 HD-NVR3-STD-36TB
 36 TB HD NVR Standard with Microsoft Windows 10 Enterprise Embedded and Avigilon Control Center

 Avigilon Control Center licenses must be purchased separately
 36 TB HD NVR Standard with Microsoft Windows 10 Enterprise Embedded and Avigilon Control Center

HD-NVR3-ANK1-1	Analytics Kit for Aviglion Appearance Search" software	
HD-NVR3-STD-2NDCPU	2nd CPU kit	
HD-NVR3-STD-2NDPS-AU	Redundant, hot-swappable power supply, for AU	
HD-NVR3-STD-2NDPS-EU	Redundant, hot-swappable power supply, for EU	
HD-NVR3-STD-2NDPS-NA	Redundant, hot-swappable power supply, for NA	
HD-NVR3-STD-2NDPS-UK	Redundant, hot-swappable power supply, for UK	
HD-NVR3-STD-10GBE	Dual-port 10G-SFP+ Adapter	
HD-NVR3-SFPPLUS-DA	SFP+ 10GbE Twinax Direct Attach Cable 3m	
HD-NVR3-SFPPLUS-SR	SFP+ 10GBASE-SR Transceiver	

HD-NVR3-STD-xxTB-AU =

HD-NVR3-STD-xxTB-NA =

HD-NVR3-STD-xxTB-UK =

HD-NVR3-STD-xxTB-EU =

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HD-NVR3-STD-xxTB-DK =

HD-NVR3-STD-xxTB-CH=

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AXIS Q.61 PTZ Dome Network Camera Series High-end PTZ camera with Sharpdome technology and Lightfinder



- > Sharpdome technology
- > Speed Dry function
- > Lightfinder technology
- > HDTV 1080p at 50/60 fps
- > Pan performance 700° per second

The new Sharpdome technology included in AXIS Q61 Series provides full scene fidelity and sharp images in all directions- above as well as below the horizon. These compact PTZ cameras are suitable for indoor and outdoor installations, in low light and challenging conditions, making them ideal for a range of applications such as shopping malls, open parking areas and stadiums as well as city and perimeter surveillance.

Axis' Sharpdome technology with its innovative mechanics and unique dome design provides sharp images in all directions. It offers the unique possibility to identify objects as much as 20° above the camera horizon making these cameras suitable for uneven terrain. The Sharpdome technology includes Axis' unique Speed Dry function that will easily remove water drips from the dome glas and provide sharp images in rainy weather.

AXIS Q61 Series includes AXIS Q6115-E that provides resolution up to HDTV 1080p and AXIS Q6114-E with HDTV 720p. Both models feature 30x optical zoom with autofocus. The HDTV resolution provides wide area coverage as well as detailed zoomed-in views.

The cameras deliver smooth video with great detail at 50/60 frames per second that helps to identify incidents in scenes with fast moving objects.

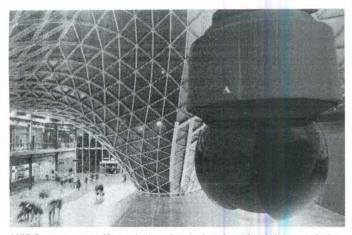
AXIS Q6114-E incorporates Lightfinder technology, allowing for extreme light sensitivity in low light conditions. The cameras offer Wide Dynamic Range – dynamic capture (130 dB) for challenging conditions where backlight or intense contrasts are an issue.

AXIS Q61 cameras are among the market's fastest PTZ dome cameras. The quick and precise pan performance of over 700° per second makes it easy to quickly change viewing position and follow fast moving objects.





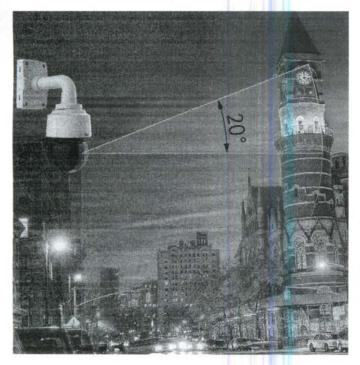
Highly innovative design



AXIS Q61 cameras offer an innovative design that blends into any indoor or outdoor environment and can easily be repainted to match the build-ings facade.

Axis' Sharpdome Technology

Axis' Sharpdome offers innovative mechanics that make the entire dome rotate, in contrast to a conventional dome where the camera rotates inside the dome. The mechanics together with the unique design of the outdoor dome enable the same optimal image sharpness and full scene fidelity in all pan and tilt positions. This enables clear identification of objects as much as 20° above the camera horizon making these cameras suitable for uneven terrain.



Axis' Speed Dry function



The Sharpdome technology includes Axis' unique Speed Dry function that helps to provide sharp images in rainy weather. It also simplify dome cleaning, allowing for more efficient methods such as high pressure cleaning. With the Speed Dry function activated, the dome vibrates at high speed. It breaks the surface tension of the water and removes the drips.

Dynamic Capture Capabilities

AXIS Q61 cameras support WDR (up to130 dB) with 'dynamic capture' which is ideal for surveillance in areas with strong variations in light. It enables easy and clear identification of people and objects in both bright and dark areas, for instance, in scenes such as large windows and entrances with strong backlight.

Lightfinder technology

AXIS Q6114-E also incorporates Axis' unique Lightfinder technology which provides exceptional performance, excellent image quality and amazing details in low light scenes. Lightfinder technology is a combination of Axis' expertise in image processing, in-house system-on-chip development and a selection of the best optical components.

Designed for reliable operation



The innovative camera design includes a set of smart features that allows the camera to operate reliably.

1. Slanting camera design that deflects water drops.

2. Non-stick heated silicon ring prevents ice formation to ensure reliable operation in extreme conditions.

Electronic Image Stabilization

AXIS Q61 cameras support Electronic Image Stabilization (EIS), which reduces the effects of camera vibration. In windy conditions, EIS provides clearer, more useful video and helps reduce the size of video files, which leads to lower bandwidth and storage use.

Weather and impact protection

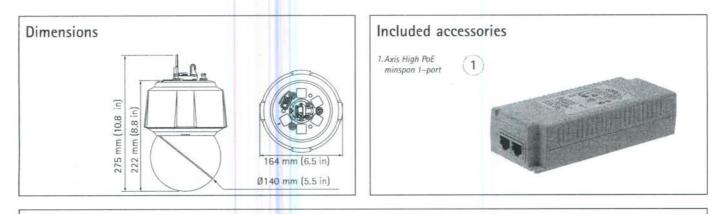
The outdoor-ready AXIS Q61 cameras are designed for reliable, weatherproof installation. The cameras are impact-resistant (IK08) and have protection against dust, rain, snow and sunlight (IP66- and NEMA 4X). In addition they offer shock detection that makes the camera send an alarm in case of attempted vandalism.

(1)

Quick and reliable installation

To save cost and installation time, AXIS Q61 cameras are out-of-thebox-ready for mounting outdoors. However, a wide range of indoor and outdoor mounting options, such as wall, pole or corner mounts are also available.





Optional accessories

1. AXIS T91A Mounting Accessories

- 2. Axis High PoE minspans RJ45 IP66-rated cables with premounted connector (CAT6)
- 3. AXIS T8310 Video Surveillance Control Board





AXIS Q.3709-PVE Network Camera Multi-sensor, multi-megapixel – 180° overview. One camera.

AXIS Q3709-PVE Network Camera is a fixed dome with multiple sensors that provides a broad overview with great detail. The camera's three sensors together give a 180° panoramic view with smooth capture of movements at up to 30 fps in 3 x 4K or 20 fps in 33 MP resolution. The factory-focused lenses eliminate the need for manual focusing. The camera is effectively installed indoors or outdoors with a wide operating temperature range powered by standard PoE+. AXIS Q3709-PVE is delivered with a repaintable weather shield that protects against sun, rain or snow. The camera is equipped with video motion detection as well as active tampering alarm.

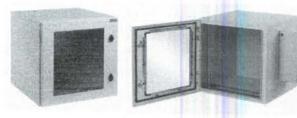
- > 180° panoramic overview provided by three sensors
- > Efficient one-camera installation
- > Factory-focused lenses
- > 3 x 4K at 30 fps or up to 33 MP resolution at 20 fps
- > Outdoor-ready with wide operating temperature range







PROTEK™ SINGLE-DOOR, UL AND NEMA TYPE 4, 12



INDUSTRY STANDARDS

UL 508A Listed; File Number E61997 cUL Listed per CSA C22.2 No. 94; File Number E61997 Solid Door: Type 4 and 12 Window Door: Type 12 Solid Door, Stainless Steel: Type 4, 4X and 12

NEMA / EEMAC: Type 4, 4X or 12 IEC 60529, IP66 or IP55

APPLICATION

PROTEK Single-Door cabinets are an excellent, off-the-shelf choice for mounting 19-in. rack, panel-mounted devices or other electronic equipment. The cabinets are designed to provide both front and rear access to 19-in. rack-mounted equipment. They provide protection against water, dirt, corrosive agents and other contaminants. PROTEK is an excellent choice for applications where space is at a premium and the only option is wall mounting. PROTEK comes in a broad range of sizes, materials and configurations to meet many demanding applications.

FEATURES

- Solid-door cabinet provides complete physical and visual protection
- Window door, made of scratch-resistant safety glass, provides visual monitoring of internal equipment while maintaining equipment protection
- All seams are fully welded and ground smooth
- Doors are provided with ground studs to facilitate proper bonding and grounding of the cabinet
- Premium seamless, foam-in-place gasket prevents contaminants from entering the cabinet
- Keylocking wing knob is included on painted steel offering, providing access control to the cabinet; two keys are included with each cabinet
- Stainless steel cabinet is provided with a quarter-turn slotted latch
- One set of plated, self-grounding, tapped 10-32 rack angles per EIA universal spacing standards, which can be adjusted frontto-back, is provided with each center section of the cabinet; additional tapped- or square-hole rack angles can be added to the cabinet to provide additional mounting
- Wall section welded panel studs which accommodate standard panels (steel and wood available), can be ordered separately

SPECIFICATIONS

- Doors and body made of 14 gauge steet
- Stainless steel enclosures made from Type 304 stainless steel
 Window made of .25-in. thick, scratch- and impact-resistant
- safety glass
- Rack angles made of plated 12 gauge steel
- M6 ground studs on the door and body are masked from paint
- Twenty 10-32 screws included with cabinet
- Foam-in-place gasket made of durable polyurethane

FINISH

- Pretreated steel coated with RAL 7035 light-gray, low-gloss, lightly textured polyester powder paint
- Stainless steel is provided with a smooth-grain finish

LOAD RATING

Height Maximum Load Rating

24 in. 200 lb./90.7 kg 36 in. 300 lb./136.1 kg 48 in. 400 lb./181.4 kg

ACCESSORIES

Locks and handles Panels (steel and wood) Grounding kits Power Distribution Units (PDUs) Rack angles BULLETIN: DWS12

Technical Operating Information AC Unit [T150116G100] Replacement Filter No. 10100091

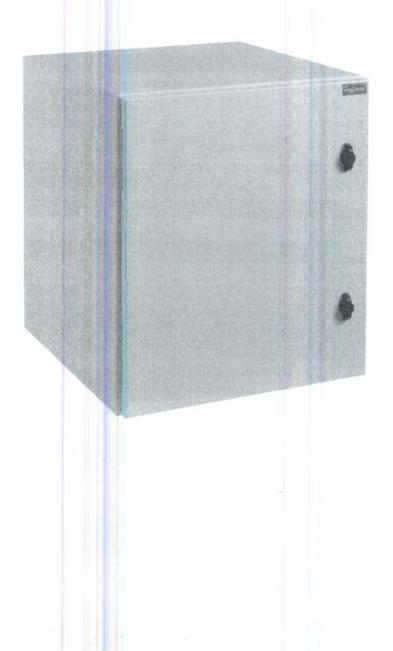
Hz Voltage VAC 60 (50) 115	Phase BTU/Hr Ri Max, Ambleni Temp, (watts) I 800 (325 watts)	Full Load Amp Max. Ambient Temp. (* 3.6 (3.8) 131 (126)	F) Max. Amblent Temp. (*C) 52 (52)	Cord and Plug 25-in. cord length 5-15 plug
1 NETWORKING	SUBJECT TO CH	ANGE WITHOUT NOTICE	EQUIPMEN	T PROTECTION SOLUTIONS Spec-00712 E

"Hoffman"

Standard Product Solid Door, NEMA Type 4, 12

Catalog Number	in./mm	Rack Units	F in./mm	P In./mm	G in./mm	S In./mm	Optional Steel Panel	Optional Wood Panel	Additional Rack Angles ^a
PTRS24241264	24.09 x 23.62 x 11.81 612 x 680 x 300	12	9.51 242			1.11 28	CP2020	CP2020W	PTRA24T or PTRA24S
PTRS24242464	24.09 x 23.62 x 24.02 612 x 600 x 610	12	21.72 552	***	····	1.11 28	CP2020	CP2020W	PTRA24T or PTRA24S
PTRS36241264	36.30 x 23.62 x 11.01 922 x 600 x 300	19	9.51 242			1.11 28	CP3220	CP322DW	PTRA36T or PTRA36S
PTR536242464	36.30 x 23.62 x 24.02 922 x 600 x 610	19	21.72 552			1.11 28	CP3220	CP3220W	PTRA36T or PTRA36S
PTRS482412G4	48.54 x 23.62 x 11.81 1233 x 600 x 300	26	9.51 242		12	1,11 28	CP4420	CP442DW	PTRA48T of PTRA48S
PTRS48242464	48.54 x 23.52 x 24.02 1233 x 600 x 610	26	21.72 552	***		1.11 28	CP4420	CP4420W	PTRA48T or PTRA48S

¹²T = tapped 10-32, S = square hole (.375 in. x .375 in.)



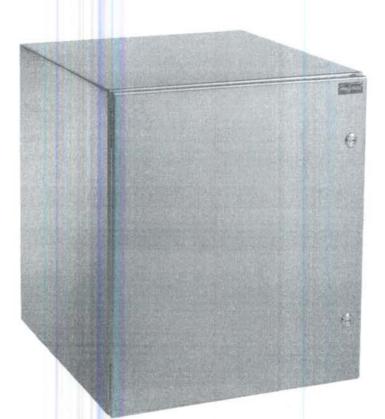
EQUIPMENT PROTECTION SOLUTIONS Spec-00712 E

"Hoffman"

Standard Product Solid Stainless Steel Door, NEMA Type 4, 4X, 12

Catalog Number	AxBxC in /mm	Rack Units	F in.fmm	P n./mm	0 in <i>J</i> mm	S in./mm	Q mm/io.	Optional Steel Panel	Optional Wood Panel	Additional Rack Angles ^a
PTRS242412X	24.09 x 23.62 x 11.81 612 x 600 x 300	12	9.51 242			.80 20		CP2020	CP2020W	PTRA241 or PTRA24S
PTRS242424X	24.09 x 23.62 x 24.02 612 x 600 x 610	12	21.72 552		·	.80 20	1227	CP2020	CP2020W	PTRA24T or PTRA24S
PTR\$362412X	36.30 x 23.62 x 11.81 922 x 600 x 300	19	9.51 242			.80 20	() H	CP3220	CP3220W	PTRA36T or PTRA36S
PTR\$362424X	36.30 x 23.62 x 24.02 922 x 600 x 610	19	21.72 552			.80 20		CP3220	CP3220W	PTRA36T or PTRA36S
PTR5482412X	48.62 x 23.62 x 11.81 1235 x 600 x 300	26	9.51 242	(.80 20		CP4420	CP442DW	PTRA48T or PTRA48S
PTRS482424X	48.62 x 23.62 x 24.02 1235 x 600 x 610	26	21.72 552		***	.80 20		CP4420	CP4420W	PTRA48T or PTRA48S

^aT = tapped 10-32, S = square hole (.375 in. x .375 in.)

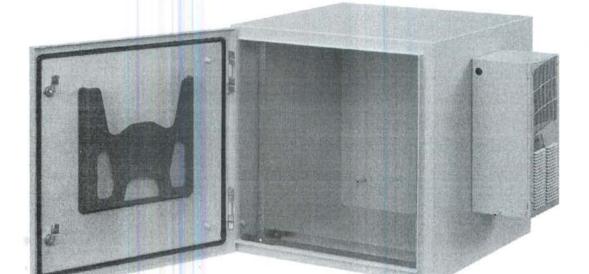




Standard Product Solid Door AC, NEMA Type 4, 12

Catalog Number	AxBxC in./mm	Rack Units	in./am	in./mm	u in./mm	s in./nm	Optional Steel Panel	Optional Wood Panel	Additional Rack Angles *
PTRS24242464A	24.09 x 23.62 x 24.02	12	21.72	***		1.11	CP2028	CP2020W	PTRA24T or PTRA24S
	.612 x 600 x 610		552	***		28			and the second s
PTRS362424G4A	48.54 x 23.62 x 24.02	19	21.72	140		1.11	CP3220	CP3220W	PTRA36T or PTRA36S
	1233 x 600 x 610		552	1212	1000	28			
PTRS48242464A	48.62 x 23.62 x 24.02	26	21.72			1.11	CP4420	CP4420W	PTRA48T or PTRA485
	1235 x 600 x 610		552			28			T HOWER OF THE HEAD

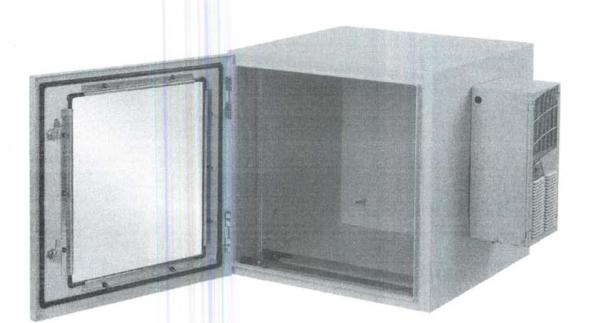
 11 T = tapped 10-32, S = square hole (.375 in. x .375 in.)



Standard Product Window Door AC, NEMA Type 12

Catalog Number	AxBxC In /mm	Rack Units	F in./on	P ia./mm	0 in /mm	S in Jmm	Optional Steel Panel	Optional Wood Panel	Additional Reck Angles ²
PTRW24242462A	24.09 x 23.62 x 2.40 612 x 600 x 61	12	21.72 552	18.25	15.38 391	1.11 28	CP2020	CP2020W	PTRA24T or PTRA24S
PTRW36242462A	36.30 x 23.62 x 24.02 922 x 600 x 610	19	21.72 552	30.75 781	15.38 391	1.11 28	CP3220	CP3220W	PTRA36T or PTRA36S
PTRW482424G2A	48.54 x 23.62 x 24.02 1233 x 600 x 610	26	21.72 552	42.70 1085	15.38 391	1.11	CP4420	CP4420W	PTRA48T or PTRA48S

^aT = tapped 10-32, S = square hole (.375 in. x .375 in.)



EQUIPMENT PROTECTION SOLUTIONS Spec-00712 E

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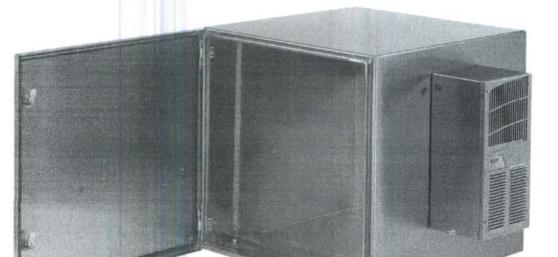
NETWORKING 6



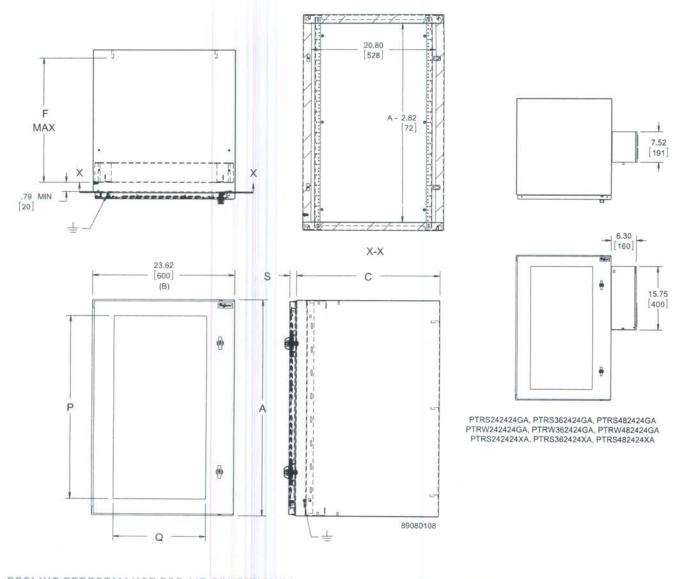
Standard Product Solid Door Stainless Steel AC, NEMA Type 4,4X, 12

							ALL AND	A CONTRACTOR	STATE OF STREET, STREE
Catalog Number	AxBxC in / mm	Rack Units	In./mm	in./mm	in./mm	in./mm	Optional Steel Panel	Optional Wood Panel	Additional Rack Angles *
PTRS242424XA	24.09 x 23.62 x 24.02	12	21.32	and the second	+++	.89	CP2020	CP2020W	PTRA24T or PTRA24S
	612 x 600 x 610		641	1.1.2.2		20			
PTRS362424XA	36.30 x 23.62 x 24.02	19	21.32	***	***	.80	CP3220	CP3220W	PTRA36T or PTRA36S
	922 x 600 x 610		541	222	244	20			
PTRS482424XA	48.62 x 23.62 x 24.02	26	21.32	***		.80	CP4420	CP4420W	PTRA48T or PTRA48S
	1235 x 600 x 610		561	1		20			

 ${}^{16}T$ = tapped 10-32, S = square hole (.375 in. x .375 in.)



"Hoffman"



COOLING PERFORMANCE FOR AIR CONDITIONER PACKAGES

PROTEK Air Conditioner calculated cooling performance AC Performance: 800 BTU/hour or 235 watts Voltage / Hertz: 115 VAC/60 Hz Max. Ambient Temperature: 131 F Min. Ambient Temperature: -40 F Max. Internal Temperature: 100 F (Allowable)

Cooling Performance PROTEK[™] Air Conditioner Packages

Ambient Temperature (°F)	Watts (Heat) Dissipated Cabinet Reight: 24 in.	Watts (Heat) Dissipated Cabinet Height: 36 in.	Watts (Heat) Dissipated Cabinet Height: 48 in.
130	15	N/A	NIA
120	88	73	59
110	161	154	146
100	234	234	234
90	308	315	322
80	381	396	410
70	454	478	498
60	527	557	586
50	601	637	674
40	674	718	762

N/A = Not applicable and not recommended in these applications

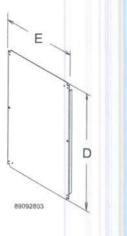
1 BTU = 3.413 watts



PROTEKTM WALL-MOUNT CABINET ACCESSORY PANELS

Where equipment mounting space is limited, Accessory Panels increase cabinet capacity by providing a mounting surface for 19-in. equipment and accessories at the back of the cabinet. The panels mount on collar studs provided in the cabinet. Available in painted mild steel or wood.

BULLETIN: CWP, DWDH2

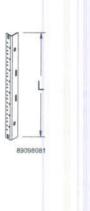


Standard Product

Catalog Number	Panel Type	Panel Size D x E in./mm	Gauge
CP2014	Painted Steel	18.20 x 12.20 462 x 310	14
CP2020	Painted Steel	18.20 x 18.20 462 x 462	12
CP2442	Painted Steel	22.20 x 40.20 564 x 1021	12
CP3220	Painted Steel	30.20 x 18.20 762 x 462	12
CP4420	Painted Steel	42.20 x 18.20 1072 x 462	12
CP5620	Painted Steel	53.20 x 18.20 1351 x 462	12

PROTEKTM RACK ANGLES

Square- and tapped-hole rack angles fit into PROTEK™ single-and double-hinged cabinets. BULLETIN: DWDH2



Standard Product

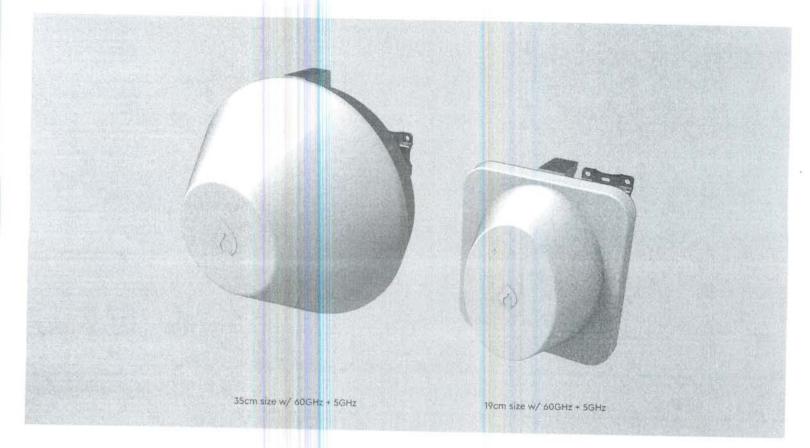
Catalog Number	A In./mm	L in./mm	Hole Type	Fits Cabinet Height in./mm	Rack Units
PTRA16T	0.00	16.12 409	Tapped	16.00	8
PTRA16S	0.00	16.12	Square	16.00	8
PTRAZAT	0.00	23.12 587	Tapped	24.00	12
PTRA24S	0.00	23.12 587	Square	24.00	12
PTRA36T	0.00	35.32 897	Tapped	36.00	19
PTRA36S	0.00	35.32 897	Square	36.00	19
PTRA48T	0.00	45.57 1157	Tapped	48.00	26
PTRA48S	0.00	45.57 1157	Square	48.00	26
PTRAGOT	0.00	59.07 1500	Tapped	60.00	32
PTRA60S	0.00	59.07 1500	Square	60.00	32

Notes

EQUIPMENT PROTECTION SOLUTIONS Spec-00712 E

IgnîteNet

MetroLing[™] 2.5G 60 Datasheet



MetroLinq™ 2.5G 60

Cloud-Enabled Outdoor 60GHz PTP + 5GHz

IgniteNetTM's MetroLinq™ 2.5 - 60 is the world's first cost-effective high capacity 60GHz PTP radio enabling high performance, interference-free connections worldwide. The MetroLinq™ 2.5 - 60 has an added advantage of being license-free in most markets globally, allowing ultra fast deployment and without the hassle of other frequency bands requiring a license. The MetroLinq™ also includes a second 5GHz radio which can be configured as PtP (backup) to provide integrated redundancy without and additional hardware or complexity.

Inteference-Free & Unlicensed Band

The IgniteNet™ MetroLinq™ 2.5 - 60 offers unprecedented performance - combining both the benefits of unlicensed band operation with no interference!

Dual Band 60GHz & 5GHz Operation

The MetroLinq[™] 2.5 - 60 includes a second 5GHz radio which can be configured as a backup to the 60GHz to provide automatic failover during adverse conditions. This allows links to be extended further without effecting link availability

Powerful, Flexible Configuration

The MetroLinq™ Base Station can operate either as a stand-alone device or as a coordinated, cloudmanaged device, easily meeting the requirements of any installation.

Robust Weather-Resistant Design

The MetroLinq[™] Base Station features a hybrid metal/plastic design built to withstand the harshest environments including precipitation, hot/cold weather and high/low humidities.



Product Variants

- > 35cm size w/ 60GHz + 5GHz
- > 19cm size w/ 60GHz + 5GHz

Features

HARDWARE FEATURES

- 1x 2.5 Gigabit Ethernet Port (PoE IN 24-48v)
- > 1x SFP Port
- 1x Screw Terminal Block (DC Power IN 24-48v)
- > 1x USB 3.0 Port
- > Dual flash image support

LEDs

> Power, Ethernet, Wireless, Health/Status

DIMENSIONS (L x W x H)

- > 350 x 350 x 200 mm/ 13.78 x 13.78 x 7.87 inch (ML-60-35)
- > 190 x 190 x 120 mm/ 7.48 x 7.48 x 4.72 inch (ML-60-19)

WEIGHT

- > 2.8 kg/ 6.17 lb without mount (ML-60-35)
- > 1.25 kg/ 2.76 lb without mount (ML-60-19)

POWER

> 24-48V/1.5A passive Gigabit PoE or DC

OPERATING ENVIRONMENT

- > Operating Temperature: -30C. to +55C.
- > Store Temperature: -30C. to 55C.
- Operating Humidity: 10 to 90% non-condensing (RH)

REGULATORY / STANDARDS COMPLIANCE

- > FCC/IC
- > CE

Ordering Information

RF PERFORMANCE (TX)

- > 60GHz: 14dBm @ 2.5Gbps
- > 5GHz:
 27dBm @ 6Mbps, 23dBm @ 866 Mbps

RF PERFORMANCE (RX)

- > 60GHz: -74dBm @MCS1; -60dBm @ MCS9
- > 5GHz:
 -94dBm @MCS0; -72dBm @ MCS15

KEY FEATURES

- 2.5+ Gbps Aggregate throughput; dynamically allocated (60GHz)
- > Management VLAN support and VLAN pass-through
- > Supports Service Provider and Enterprise type networks
- > Stand-alone or Cloud-controlled operating modes
- > Link failover/backup (60GHz + 5GHz) Per Client
- > 128bit AES Encryption (standard; 5GHz, and 60GHz)
- > SNMP Monitoring with Private MIB

APPLICATIONS

- > Fixed Wireless Access (broadband)
- > 3G/4G Backhaul
- > Metro WiFi
- Campus Interconnection
- Hybrid Fiber/Wireless Networks

Part Number	Description
ML2.5-60-35-XX	60GHz Outdoor + 5GHz w/ Int 42dBi (60GHz) & 22dBi (5GHz) antenna, 2500Mbps + SF
ML2.5-60-35-1-XX	60GHz Outdoor + 5GHz w/ Int 42dBi (60GHz) & External 5Ghz, 2500Mbps + SFP
ML2.5-60-19-XX	60GHz Outdoor + 5GHz w/ Int 36dBi (60GHz) & 16dBi (5GHz) antenna, 2500Mbps + SFP
ML2.5-60-19-1-XX	60GHz Outdoor + 5GHz w/ Int 36dBi (60GHz) & External 5GHz, 2500Mbps + SFP

**XX is used to denote localization (US, EU, AU, CN)



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IgnîteNet

Fusion[™] Sector - Dual-Band Concurrent

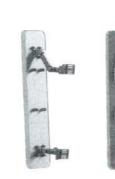
High Performance Dual-Polarity Sector Antenna

Features

RF PERFORMANCE

- ✓ Frequency Range 5.1 - 5.9GHz 2.4 - 2.5GHz ✓ Antenna Gain 17dBi (5GHz) 14dBi (2.4GHz) ✓ Polarization Dual Polarity H/V (both bands) ✓ 3dB Beamwidth 90 degrees √ VSWR 1.5:1 Typical ✓ Port to Port Isolation 25dB min. ✓ Front to Back Ratio >25dB ✓ Cross Polarization >30dB
- ✓ Impedance 50 ohm







FSD-1417N-90

-90 FSD-1417R-90



FSD-1417F-90

DIMENSIONS (L x W x H)

√ 700 x 150 mm

WEIGHT √ TBD

A IRD

WIND SURVIVABILITY

√ 201 kph

WIND LOADING

✓ 80 kg (53 kg with radome)

POLE MOUNT RANGE

√ 5.0 - 7.5 cm (2 - 3 in.)

REGULATORY / STANDARDS COMPLIANCE

- ✓ FCC/IC
- √ CE

OPERATING ENVIRONMENT

- ✓ Operating Temperature: -45C^o to +70C^o
- ✓ Store Temperature: -45C^o to +70C^o
- ✓ Operating Humidity: 10 to 90% non-condensing (RH)
- ✓ Meets IP65 Weather Rating

ANTENNA PATTERNS

√ TBD

Part Number	Description
FSD-1417N-90	2.4GHz 14dBi + 5GHz 17dBi, 90º, 4x Type-N Connectors
FSD-1417R-90	2.4GHz 14dBi + 5GHz 17dBi, 90º, 4x RPSMA Pigtails w/ Dual Weather Hoods
FSD-1417F-90	2.4GHz 14dBi + 5GHz 17dBi, 90º, EZ-Fusion™ Type Mating

Contact

IgnîteNet[™]

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Asia

No. 1 Creation Road III, Hsinchu Science Park, 30077, Taiwan, R.O.C. sales@ignitenet.com

IgnîteNet™

Fusion[™] Sector - 5GHz (Large)

High Performance Dual-Polarity Sector Antenna

Features

RF PERFORMANCE

- ✓ Frequency Range 5.1 - 5.9GHz
 ✓ Antenna Gain 20dBi (90°) 19dBi (120°)
- Polarization
 Dual Polarity H/V (both bands)
- ✓ 3dB Beamwidth 90 and 120 degrees
- √ VSWR
- 1.5:1 Typical ✓ Port to Port Isolation 25dB min.
- ✓ Front to Back Ratio >25dB
- ✓ Cross Polarization >30dB
- ✓ Impedance 50 ohm







All Models

Ordering Information

- FS5-19N-120 FS
 - 20 FS5-19R-120

F\$5-20F-90 F\$5-19F-120 DIMENSIONS (L x W x H)

√ 700 x 150 mm

WEIGHT

√ TBD

WIND SURVIVABILITY

√ 201 kph

WIND LOADING

✓ 80 kg (53 kg with radome)

POLE MOUNT RANGE

✓ 5.0 - 7.5 cm (2 - 3 in.)

REGULATORY / STANDARDS COMPLIANCE

- √ FCC/IC
- √ CE

OPERATING ENVIRONMENT

- ✓ Operating Temperature: -45C^Q to +70C^Q
- ✓ Store Temperature: -45C^o to +70C^o
- ✓ Operating Humidity: 10 to 90% non-condensing (RH)
- ✓ Meets IP65 Weather Rating

ANTENNA PATTERNS

√ TBD

Part Number	Description
FS5-20N-90	5GHz, 90 deg., 20dBi, Dual Type-N Connectors
FS5-20R-90	5GHz, 90 deg., 20dBi, Dual RPSMA Pigtails with Weather Hood
FS5-20F-90	5GHz, 90 deg., 20dBi, EZ Fusion™ Type Mating
FS5-19N-120	5GHz, 120 deg., 19dBi, Dual Type-N Connectors
FS5-19R-120	5GHz, 120 deg., 19dBi, Dual RPSMA Pigtails with Weather Hood
FS5-19F-120	5GHz, 120 deg., 19dBi, EZ Fusion™ Type Mating

IgnîteNet™

Worldwide 20 Mason^{*} Irvine, CA 92618 USA <u>sales@ignitenet.com</u>

Asia

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IgniteNet™

Fusion[™] Sector - 5GHz (Small)

High Performance Dual-Polarity Sector Antenna

Features

RF PERFORMANCE

- ✓ Frequency Range 5.1 - 5.9GHz
- ✓ Antenna Gain 17dBi (90º) 16dBi (120º)
- ✓ Polarization Dual Polarity H/V (both bands)
- ✓ 3dB Beamwidth 90 and 120 degrees
- ✓ VSWR
 - 1.5:1 Typical
- ✓ Port to Port Isolation 20dB min.
- ✓ Front to Back Ratio >25dB
- ✓ Cross Polarization >30dB
- ✓ Impedance 50 ohm







- FS5-17N-90 FS5-16N-120
 - - FS5-16R-120

FS5-17R-90 FS5-17F-90 FS5-16F-120

Ordering Information

DIMENSIONS (L x W x H) √ 300 x 120 mm

WEIGHT √ TBD

WIND SURVIVABILITY √ 201 kph

WIND LOADING

✓ 80 kg (53 kg with radome)

POLE MOUNT RANGE

√ 5.0 - 7.5 cm (2 - 3 in.)

REGULATORY / STANDARDS COMPLIANCE

- √ FCC/IC
- √ CE

OPERATING ENVIRONMENT

- ✓ Operating Temperature: -45C^o to +70C^o
- ✓ Store Temperature: -45C^o to +70C^o
- ✓ Operating Humidity: 10 to 90% non-condensing (RH)
- ✓ Meets IP65 Weather Rating

ANTENNA PATTERNS

✓ TBD

Part Number	Description
FS5-17N-90	5GHz, 90 deg., 17dBi, Dual Type-N Connectors
FS5-17R-90	5GHz, 90 deg., 17dBi, Dual RPSMA Pigtails with Weather Hood
FS5-17F-90	5GHz, 90 deg., 17dBi, EZ Fusion™ Type Mating
FS5-16N-120	5GHz, 120 deg., 16dBi, Dual Type-N Connectors
FS5-16R-120	5GHz, 120 deg., 16dBi, Dual RPSMA Pigtails with Weather Hood
FS5-16F-120	5GHz, 120 deg., 16dBi, EZ Fusion™ Type Mating
Contact	Jet mounts

IgnîteNet™

Worldwide 20 Mason Irvine, CA 92618 USA sales@ignitenet.com

Asia

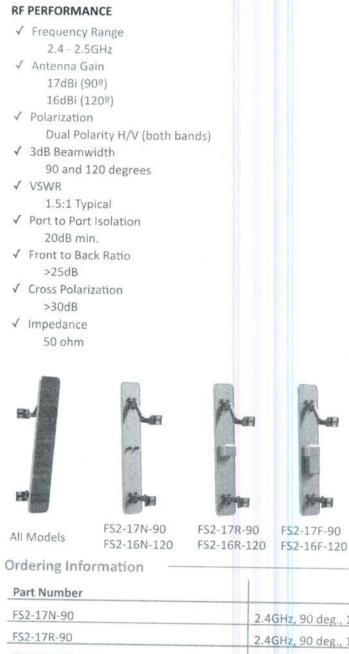
No. 1 Creation Road III. Hsinchu Science Park, 30077, Taiwan, R.O.C. sales@ignitenet.com

IgniteNet

Fusion[™] Sector - 2.4GHz

High Performance Dual-Polarity Sector Antenna





DIMENSIONS (L x W x H)

√ 700 x 150 mm

WEIGHT

√ TBD

WIND SURVIVABILITY

√ 201 kph

WIND LOADING

✓ 80 kg (53 kg with radome)

POLE MOUNT RANGE

√ 5.0 - 7.5 cm (2 - 3 in.)

REGULATORY / STANDARDS COMPLIANCE

- ✓ FCC/IC
- √ CE

OPERATING ENVIRONMENT

- ✓ Operating Temperature: -45C^o to +70C^o
- ✓ Store Temperature: -45C^o to +70C^o
- ✓ Operating Humidity: 10 to 90% non-condensing (RH)
- ✓ Meets IP65 Weather Rating

30077, Taiwan, R.O.C.

sales@ignitenet.com

ANTENNA PATTERNS

√ TBD

Part Number		Description		
FS2-17N-90	2.4GHz, 90 deg., 17	Bi, Dual Type-N Connectors		
FS2-17R-90	Less marries and a second second	Bi, Dual RPSMA Pigtails with Weather Hood		
FS2-17F-90		2.4GHz, 90 deg., 17dBi, EZ Fusion™ Type Mating		
FS2-16N-120		2.4GHz, 120 deg., 16dBi, Dual Type-N Connectors		
FS2-16R-120		2.4GHz, 120 deg., 16dBi, Dual RPSMA Pigtails with Weather Hood		
FS2-16F-120	The second se	2.4GHz, 120 deg., 16dBi, EZ Fusion™ Type Mating		
Contact				
IgnîteNet™	Worldwide 20 Mason Irvine, CA 92618 USA	Asia No. 1 Creation Road III, Hsinchu Science Park, 30077, Taiwan, B.O.C.		

sales@ignitenet.com

Specifications - WS-10-250-AC

Manufactured and Assembled	North America
Standard 19" rack mount / Desktop / Wall mount	YES
Dimensions	223mm x 181mm x 44mm
Weight	2 kg
Power Input	210-230 & 110-120 VAC
Chassis Earth Ground Lug	YES
Max. Power Consumption	250 Watts
Intelligent Forced Air Cooling With Fan RPM Monitoring	YES
Switch Core and PHYs	Vitesse
Processor	MIPS 24K 416 MHz
System Memory	128 MB
Flash Storage	16 MB
Total Non-Blocking Line Rate	10 Gbps
Certifications	CE, FCC, IC
Operating Temperature	-25 to 55°C (-13 to 131° F)
Operating Humidity	5 to 95% Non-Condensing
Console Port	RS-232
Ethernet Ports	(8) 10/100/1000 Ethernet Ports (2) SFP Ports
Passive PoE Configured Per Port via UI	24V .75A pins 4,5(+) 7,8(-) 48V .75A pins 4,5(+) 7,8(-) 24VH 1.5A pins 1,2,4,5(+) 3,6,7,8(-) 48VH 1.5A pins 1,2,4,5(+) 3,6,7,8(-)
PoE Out Voltage Range	48-50 VDC / 22-24 VDC
Passive PoE Current Sensors Per Port	YES
ESD Rating	24 kV Air / 24 kV Contact

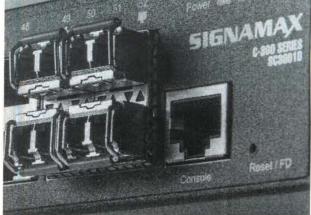
4V PoE Ports	48V PoE Ports	24VH PoE Ports	48VH PoE Ports
Pins 4,5 (+)	Pins 4,5 (+)	Pins 1,2,4,5 (+)	Pins 1,2,4,5 (+)
Pins 7,8 (-)	Pins 7,8 (-)	Pins 3,6,7,8 (-)	Pins 3,6,7,8 (-)
.75A	.75A	1.5A	1.5A
Ports 01-08	Ports 01-08	Ports 01-02	Ports 01-02

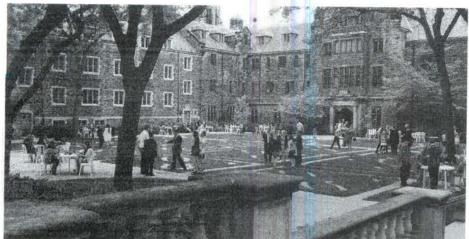


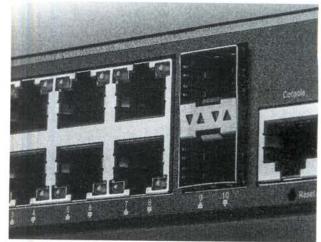
WISP Switch

11









C-300 SERIES Managed Ethernet Switches

SOLUTIONS

C-300 SERIES Managed Ethernet Switches

The Signamax C-300 series of fully managed switches delivers full Layer 2 capabilities with enhanced access security, ACLs, traffic prioritization, and IPv6 support. The security & reliability provided by this series is ideal for branch and campus implementations.

The C-300 Series switches are built from the ground up for easy deployment and management without compromising any of the power and flexibility traditionally found in enterprise-class switches.

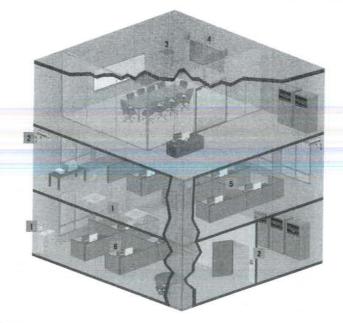


•	Cost-effective, reliable, and secure Layer 2 switches	 Integrated mounting brackets for rack installation 	
	Non-blocking switches with up to 104 Gbps bandwidth support	SFP uplink interfaces on all models	
	Fanless design on selected models for silent operation	Static IP routing & RIP support	
×	Up to 740 watts PoE budget with PoE+ support and dynamic power allocation for powering APs, phones, cameras, and other PoE- enabled devices	 Low power consumption, quiet acoustic design, and shallo depth options, enabling flexible deployment in wiring clos well as offices and classrooms 	
×	8 dedicated QoS queues for converged voice, video, and data applications	- 5 year hardware warranty & support at no additional cost	

The C-300 Series Capabilities

The C 300's reliable architecture and simplified management is ideal for use in critical networks such as Physical Security and Building Automation like shown below in the illustration of a typical enterprise in a multi-level building. Powerful packet handling with the comprehensive suite of security and Quality of Service functionality is optimal for any enterprise data network.

The security and QoS segmentation capabilities enable a network convergence of data. VolP, physical security, and building automation. When the solution leads to separate networks, those networks can be easily deployed and managed through the simplified management system.



 Next generation building automation systems include multiple sensors, controllers, and autput devices such as variable air volume units (VMV) that are all connected to the network and need a reliable and secure infrastructure that's easy to install and monitor.

- Security cameras and access control systems require flexible PoE options and unlike traditional enterprise network devices, they often are placed in unsecured locations which is why the C-300 Series includes enhanced security features such as Port Security, MAC Authentication, ACLs, and 802.1X port-based access control.
- The C-300 PoE+ models supply connectivity and power to wireless APs with 30 watts of PoE+ per port and non-blocking, high performance packet forwarding.
- 4 Audid/ideo is the latest industry to migrate to standard LAN for connectivity, but it's extremely sensitive to bandwidth and latency which is why the C-300 Series supports a comprehensive suite of Quality of Service features as well as powerful packet forwarding capabilities.
- Enterprise networks are being used for more and more devices, but traditional data is still business-critical and requires security, resiliency, and flexibility in the network.
- 6 Deploying VoIP networks with the C-300 Series is simplified by using Auto Voice VLANs for security and Quality of Service.

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Features for deployment in any solution.

INTELLIGENT POE:

The C-300 series includes several PoE options, all of which support PoE+ up to 30W on all ports. The SC30050 is a full-PoE fanless design which can provide a total of 125W while the SC30020 delivers a default 370W but can be extended up to 740W using a AP50010 power chassis. The innovative PoE scheduling allows the administrator complete control and flexibility regarding the power provided. The C-300 series supports dynamic power allocation and PoE ports can be individually configured for prioritization, scheduling, and consumption.



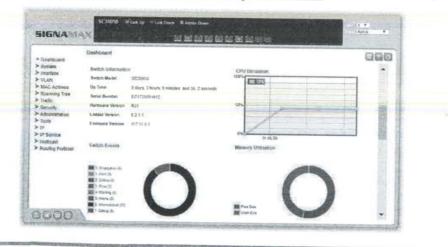
ENTERPRISE GRADE:

The C-300 Series runs a sophisticated operating system that provides a variety of advanced features including:

 Static Routing and RIP - Dynamic VLAN assignment and Auto Voice VLAN Link Aggregation (LACP) IGMP and MLD snooping · 802.3az and Green-Ethernet

SIMPLIFIED MANAGEMENT:

The easy to use C-300 Graphical User Interface includes an intuitive dashboard that provides a unified view of event logs, traffic statistics, and monitoring which simplifies managing and growing network deployments. The C-300 Series switches can be fully deployed in minutes, and there is no need for a console cable or any command line configuration to get started or even recover from misconfiguration. The auto firmware upgrade feature ensures the network is kept up-to date with bug fixes, security updates, and new features without overburdening the network administrator.



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DIAGNOSTICS:

1235

The C-300 includes several powerful diagnostic capabilities including realtime cable testing, automatic Power On Self Test, a diagnostics LED, dual firmware and configuration files, and Digital Diagnostic Monitoring (DDM). Port Mirroring and sFlow can be used for gaining visibility into network activity from the edge to the core. The C-300 also includes network utilities for connectivity testing.



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FIBER CONNECTIVITY:

All C-300 Series switches include fiber connectivity options for your growing networks. The 24 and 48 port models include four SFP ports while the 8 port models include two SFP ports, each providing up to 1 Gbps uplinks.

QUALITY OF SERVICE (QoS):

Traffic prioritization (IEEE 8021p) allows real-time traffic classification with eight egress queues and uses weighted round robin (WRR), strict priority or Hybrid QoS. The C-300 Series simplifies QoS configuration by allowing prioritization by port or VLAN. Class of Service (CoS) sets the IEEE 802.1p priority tag based on IP address, IP Type of Service (ToS), Layer 3 protocol, TCP/UDP port number, source port, and DiffServ. Rate limiting establishes per-port ingress/egress maximums for all traffic or for broadcast, multicast, or unknown destination traffic, and flow control helps deliver reliable communication during full-duplex operation.

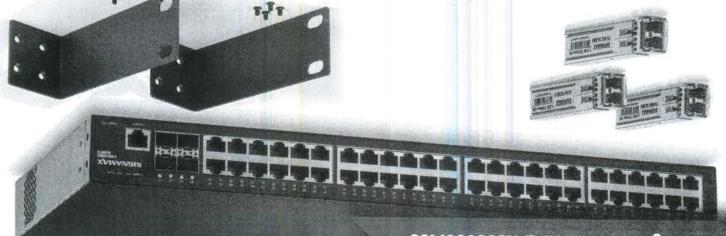
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ENHANCED SECURITY:

The C-300 series includes sophisticated security features such as DDOS protection, Port Security, MAC authentication, ACLs and 802.1X port-based access control. SSH and SSL/HTTPS encryption provide secure network management.

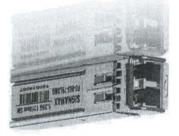
ordering Information & Accessories



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and the second	No. STANKS
SC30060 Kack Mount Kit	0E00EMA
SC30020 Back Mount Kit	0200EMA
C-300 54 sud 48 Port Switches Rack Mount Kit	0100EMA
the Mountain Prite	Replacemen
C-300 Series Console Cable	AC30010
	Cables
460W Extended Power Supply (for use in AP50010 Power Chassis)	020029A
C-300 Power Chassis	010029A
(Vino 020020 sis	Power Chas
S.	ACCESSORIE
8 Port Gigablt Managed Switch	0900EDS
8 Port Gigabit PoE+ Managed Switch	0500EDS
24 Port Gigabit Managed Switch	SC30040
24 Port Gigabit PoE+ Managed Switch	020030
24 Port Gigabit PoE+ Full Power Managed Switch	SC30050
48 Port Gigabit Managed Switch	0T00EDS
DESCRIPTION	ON TRAS
L SWITCHES	ЕТНЕВИЕ

	SEP MODULES
DESCRIPTION	ON TRA9
10002X Writi-Mode SFP Module 850nm up to 550m	9WXS62-590
1000LX Single-Mode SFP module 1310nm up to 10km	9WX762-590
1000ZX Single-Mode SFP Module 1550nm up to 80km	9WXZ62-590
100FX / OC-3 / STM-1 Multi-Mode SFP Module 1300nm up to 5km	DWSWWXJEL-590
100FX / OC-3 / STM-1 Single-Mode SFP Module 1300nm up to 20km	065-73FXSM20MG
10/100/10001X SEP Module 100m span	9WXLL000T62-S90
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T: 305-944-7710/800 446 2377 E: sales@signamax.com T: 305-944-7710/800 446 2377 E: sales@signamax.com



ESMGS8-P4-B Series

Industrial Managed Gigabit Ethernet Switch with PoE+ 12 ports: 8 PoE+ ports and 4 SFP ports



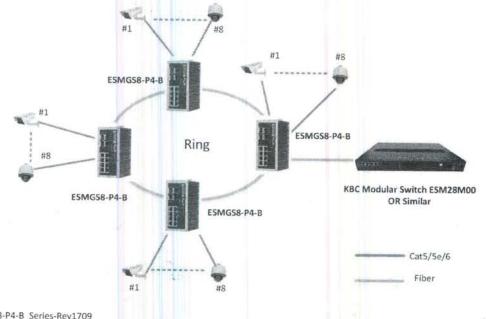
Product Description

The KBC ESMGS8-P4-B Series is a high performance, 12 port, industrial, managed Gigabit switch with eight 10/100/1000M PoE ports and four gigabit SFP ports. The eight PoE ports support IEEE802.3af/at standard. The switch supports Ethernet Ring Protection Switching (ERPS) as well as STP/RSTP/MSTP. It also supports Web-based network management, VLAN, QoS, SNMP, IGMP snooping and other network functions. LED indicators provide the connection status when using SFP option. Rugged design with IP40 enclosure and industrial level 3 ESD protection makes it suitable for applications such as Intelligent Transportation Systems, IP surveillance and industrial networks. The product is available in either DIN rail or wall-mount configurations.



- 8* 10/100/1000Base-T Ethernet ports (PoE)
- 4* 1000BASE-X SFP ports
- EPRS (typical recovery time < 30ms over 250 units of connection)
- Different redundancy protocols and standards STP/RSTP/MSTP
- SNMPv1/v2c/v3 & RMON & Port base/802.1Q VLAN network management
- WEB, Telnet, SSH, Console(CLI)
- Open and close port, binding MAC and port
- 802.1x network access control
- 802.1Q protocol, Isolate network flow
- Radius Centralized password management
- IGMP Snooping multicast function
- IEEE802.3af/at standard
- Overload current protection and reverse polarity protection
- LED displays connection status when using SFP
- IP40 enclosure protection
- Unique DIN mount design makes mounting and removal simple
- Both PoE and Non-PoE models are available

Typical System Configuration



Specifications

Standards		PoE Management	Total Power Consumption Control;
IEEE Ethernet Standa	rds IEEE802.3, IEEE802.3u, IEEE 802.1ab,		PoE ON/OFF; Port Output Priority
	IEEE802.3z, IEEE 802.3x, IEEE 802.3ad		· · · · · · · · · · · · · · · · · · ·
	IEEE 802.1d, IEEE 802.1p, IEEE 802.1q,	Security Feature	Enable/disable ports
	IEEE 802.1w, IEEE 802.1s, IEEE 802.1x		MAC based port security
	IEEE 802.1ab		Port based network access control (802.1x)
Ports			VLAN (802.1Q)
10/100/1000MBase-			Radius centralized password management
1000MBase-X SFP (1)	4		SNMP v1/v2c/v3 encrypted authentication
Switch Performance			and access security
Architecture	Store-and-forward	Destaural	
Bandwidth	24Gbps	Protocols	ERPS/STP/RSTP/MSTP, SNTP, 1588 PTP Client
Buffer	4M		DHCP Server/Client, MVR, IGMP v1/v2 GMRP, GVRP, SNMP v1/v2c/v3, TFTP, SMTP
Mac Address Table	8192		RMON, RARP, HTTP, HTTPS, Telnet, SSH,
			Syslog, LLDP, IPv6, NTP Server/Client
PoE			system, and the server element
Standard	IEEE802.3af/at	Warning & Monitoring	Relay output for fault event alarming
PSE Type	End-span		Syslog to record and view events
Power Pin Assignmen			Event warning notification via email
Power Output (2)	Each port up to 30W		Event selection support
Management		Relay Output	1A@24VDC NC or NO
Port configuration	Port enable/disable; Port rate		
	settings; Full durates modes Flows and a		
VLAN	Full-duplex mode; Flow control 4K VLAN; Port-based VLAN;	Power ⁽³⁾	
0.000350	802.1Q VLAN protocol	Redundant Power Input Power Consumption	46 ~ 57Vdc
Multicasting	SNMP V1/V2/V3 protocols;	POE budget	< 10W (without PoE output) 240W
9	IGMP Snooping;	Overload Current Protection	Yes
	IGMP multicast group:1024	Reverse polarity protection	Yes
	3	increase polarity protection	165
Console Port	USB(115200-8-N-1)	Environmental	
		Operating Temperature	-40° ~ +75°C
Mechanical		Storage Temperature	-40° ~ +85°C
Enclosure	IP40	Operating Humidity	5% to 95% non-condensing
Dimension (W×D×H) Weight	68mm × 102.5mm × 146mm		
weight	0.9kg		
		1-	102.5 ÷
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Order Information	ation		
ESMGS8 – P4 – B:	Managed, 8*10/100/1000 Base-T POE/POE	+, 4 Gigabit SFP	
ESMGN8 - P4 - B:	Managed, 8*10/100/1000 Base-T, 4 Gigabit	t SFP	
		ta sakukat	

- 1. SFP module sold separately.
- 2. Each port supports maximum 30W output. Output can be managed via Web software.
- 3. Power supply sold separately.

Due to ongoing technological improvements, product specifications are subject to change without notice. KBC is not liable for any errors, omissions or changes of any description of the goods contained herein. This information is for the sole purpose of identifying the products and KBC makes no warranty that the products conform to any description contained herein. Do not rely solely on any representations, statements, or assertions concerning these Products contained herein.





DRP-240-48 & SDR-240-48 Series

240W, 48Vdc Single Output Industrial DIN Rail Power Supply

Product Description

The DRP-240-48 & SDR-240-48 series are power supply units for use with the KBC PoE series industrial Ethernet edge switches. They are designed for use in a wide range of operating temperatures in hon-environmentally conditioned, industrial applications. Both the DRP-240-48 and SDR-240-48 units provide 240W at 48Vdc.

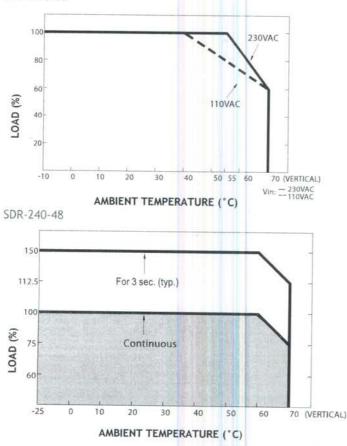
The series is available in DIN rail configurations.

Product Features

- Protections: short circuit, overload, overvoltage & over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- UL 508 (industrial control equipment) approved
- 100% full load burn-in test
- 3 year warranty

De-rating Curve

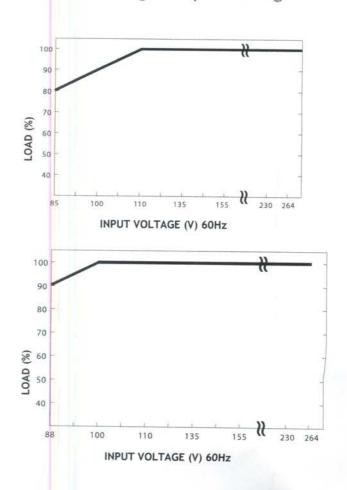
DRP-240-48







Output De-rating vs Input Voltage



Specifications

specifications		
Output	DRP-240-48	SDR-240-48
DC Voltage		
Rated Current	48Vdc	48Vdc
	5A	5A
Current Range	0-54	0-5A
Rated Power	240W	240W
Peak Current		7.5A
Peak Power		360W (3 secs max)
Ripple & Noise (max) ⁽¹⁾	150mVp-p	120mVp-p
Voltage Adj. Range	48-53Vdc	48-55Vdc
Voltage Tolerance ⁽²⁾	±1.0%	±1.0%
Line Regulation	±0.5%	±0.5%
Load Regulation	±1.0%	±1.0%
Setup, Rise Time	800ms, 40ms/230Vac	1500ms, 60ms/230Vac
	800ms, 40ms/115Vac at full load	3000ms, 60ms/115Vac at full load
Hold Up Time	24ms/230Vac	20ms/230Vac
	24ms/115Vac at full load	20ms/115Vac at full load
Input		and the first total
Voltage Range ⁽³⁾	88 - 264Vac	00 0/ 0/
Torrige Harige		88 - 264Vac
Frequency Range	120 - 370Vdc	124 - 370Vdc
Efficiency (typ) ^[4]	47 - 63Hz	47 - 63 Hz
	85%	94%
AC Current (typ)	2.8A/115Vac	2.6A/115Vac
	1.4A/230Vac	1.3A/230Vac
Inrush Current (typ)	cold start 27A/115Vac	33A/115Vac
100000000000000000000000000000000000000	45A/230Vac	65A/230Vac
Leakage Current	<3.5mA/240Vac	<1mA/240Vac
Protection		
Overload	105 - 150% rated output power	Nermally works while 110 (100)
	Protection type: constant current limiting.	Normally works within 110 - 150% rated output power for more than 3 secs & then
	auto-recovery after fault condition removed	shut down output voltage with auto-recovery. >150% rated power, constant current
Over Voltage		limiting with auto-recovery within 2 secs & may shut down after 2 secs.
over voltage	54 - 60V	56 - 65V
	Protection type: shut down output voltage,	Protection type: shut down output voltage, with auto-recovery
O	repower on to recover	
Over Temperature	100 C±5 C (TSW1) detect on power transisto	r 95°C ±5°C (TSW: detect on power switch heatsink). Protection type: shut down
	heat-sink. Protection type: shut down output	output voltage, auto-recovery after temp goes down.
	voltage, auto-recovery after temp goes down	A CONTRACTOR OF
Mechanical		
Dimensions	126mm × 126mm × 100mm	63mm x 126mm x 114mm
	(4.96" x 4.96" x 3.94")	
Weight		2.48" × 4.96" × 4.49"
reight	1.2kg (2lb 11oz)	1.03kg (2lb 5oz)
P		
Environmental		
Operating Temperature ¹⁰¹	-10 - +70 °C /14 - 158 F	-25" - +70 °C /-13" - 158 F
Operating Humidity	20 to 90% RH non-condensing	20 to 95% RH non-condensing
Storage Temperature	-20" - +85"C / 4" - 185"F	-40° - +85°C / -40° - 185°F
Temp Coefficient	±0.03%/*C(0 - 50*C)	±0.03%/`C(0 - 50'C)
	10 - 500Hz, 2G 10 min/1 cycle	
	60 min each along X, Y. Z axis	Component: 10 - 500Hz, 2G 10min/1cycle
	Mounting: IEC60068-2-6	60 min each along X, Y Z axes
Mean Time Between		Mounting: IEC60068-2-6
	289.9khrs min	169.3khrs min
Failure (MBTF)	MIL-HDBK-217F (25°C)	MJL-HDBK-217F (25°C)
2		
Approvals		
	UL508	UL508
	UL60950-1	TUV EN60950-1
	TUV EN60950-1	
	EN55011	EN55022 (CISPR22) Class B
		EN61000-3-2,3
	EN55022 (CISPR22) Class B	EN61000-4-2.3,4,5.6,8,11
	EN61000-3-2.3	EN55024
	EN61000-4-2,3.4,5,6.8,11	EN61000-6-2
	EN55024	EN61204-3
	EN61000-6-2	SEMI F47, GL
Doub Munches		
Part Numbers	DDD 240 40	
	DRP-240-48	Standard power supply unit
		search bower supply line
	SDR-240-48	
	South TO TO	Extended temperature range power supply unit
-		
For use with the ESUL8P-PC	2, ESML8P-PC2 & ESUG4P-PG2 PoE switches	5 - see separate specification sheets for further information

All parameters not specifically mentioned are measured at 2000/ac input rated load and 25 °C ambient temperature. The power supply is considered a component which will be installed with the final equipment. The final equipment must be re-confirmed so that it still meets the EMC directives.

 Pipple 5: noise are measured at 20MHz of bandwidth by using 12" related pair where reminated with a 0, full & 47aJ parallel capacitor
 Tolerance: includes set up tolerance, line regulation and load regulation
 Deriviting may be needed under low input voltages. Plane check the de-huling cutter for more details
 SDR 240-48: after 30 mins of burn-in
 SDR 240-48: initialization clearances. Alther balavis. Smar either side are recommended when roaded permonently with full power. If the adjacent device is a heat source then 15mm clearance is recommended. Due to argoning technological importanements, product specify atom are subject to the specific and netice. R8C in set hable for any articles and another set and any descention of the galant contained beyon. This information to fair the sub-strate of beneficing the products, and x3C mines to warrance of the products accelerant to one descent to any descent and any descent to any descent and any descent any descent any descent any descent and any descent and any descent a

(11.)

Cyber Power

OR2200LCDRTXL2U Smart App LCD UPS

Cost-effective feature-rich power protection for networking, servers and telecommunications equipment.

The CyberPower Smart App Intelligent LCD OR2200LCDRTXL2U uninterruptible power supply (UPS) is designed to protect office servers, corporate and departmental networks, and networkbased appliances such as internetworking hardware, telecom equipment and highend workstations

Its automatic voltage regulation (AVR) technology delivers a consistent and clean AC power, protecting connected equipment and preventing costly business interruptions.

This UPS system is ENERGY STAR® qualified with patented GreenPower UPS™ Bypass circuitry to save on energy costs by reducing energy consumption and heat buildup.

A Three-Year Warranty ensures that this UPS has passed our highest quality standards in design, assembly, material or workmanship and further protection is offered by a \$300,000 Connected Equipment Guarantee.

Typical Applications

- Servers
- Workstations
- Network Devices
- Telecom Equipment

Features

- · 2190VA / 1650W
- Line Interactive Topology
- Full AVR Buck/Boost
- GreenPower UPS™
- 2U Rack Mount/Tower Convertible
- Multifunction Rotatable LCD
- SNMP/HTTP Remote Management
- · 8 Outlets / USB, Serial, and EPO Ports
- EMI/RFI Filters
- PowerPanel[®] Business Software
- 3-Year Warranty

OR2200LCDRTXL2U Smart App LCD UPS Cost-effective feature-rich power protection for networking, servers and telecommunications equipment,

UPS Topology	Line Interactive
	Line Interactive
Energy Saving ENERGY STAR* Qualified	GreenPower UPS™ Bypass
INPUT	Yes
Voltage	90 - 140 VAC
Frequency Range	47 - 63 Hz
Plug Type	NEMA 5-20P
Plug Style	Straight
Cord Length	10 ft
OUTPUT	
VA	2,190 VA
Watts	1,650 W
Automatic Voltage Regulation	Yes
On Battery Voltage	120 VAC ± 5%
On Battery Frequency	60 Hz ± 1%
On Battery Waveform	Simulated Sine Wave
Outlet Type	NEMA 5-20R
Outlets - Battery & Surge Protected	8
Overload Protection	Internal circuitry limiting / circuit breaker
Transfer Time	4 ms
BATTERY	
Runtime at Half Load (min)	15
Runtime at Full Load (min)	6
Battery Type	Sealed Lead-Acid
Battery Size	12V/9Ah
Battery Quantity	4
Hot-Swappable	Yes
Jser Replaceable	Yes
Replacement Battery Cartridge	RB1290X4B
Replacement Battery Cartridge Quantity	1
ypical Recharge Time	8 hours
xtended Battery Option	BP48V75ART2U
URGE PROTECTION & FILTERING	
urge Suppression	2,060 J
hone RJ11 / Ethernet RJ45	1-In, 1-Out (Combo)
oax Protection RG6	1-In, 1-Out

MANAGEMENT & COMMUNICATION	
Multifunction LCD Panel	Displays: Load/Current Level, Runtime, Battery Level, Temperature (F & C), Battery In Use, Input Voltage Output Voltage, Output Frequency, Overload, Wiring Fault, Battery Shutdown Voltage, Static Frequency Tolerance, Slew Rate, Silent Mode, Normal Mode
HID Compliant USB Port	Yes
Serial Port	Yes (2x)
Management Cable	USB Cable, Serial Cable (2)
LED Indicators	Power On, Wiring Fault
Audible Alarms	On Battery, Low Battery, Overload
Software	PowerPanel* Business Edition
SNMP / HTTP Remote Monitoring	Yes, with optional RMCARD205
PHYSICAL	
Rack Size	2U
Form Factor	Rack/Tower
Dimensions – W×H×D (in)	17 × 3.5 × 18.8 inches
Weight (lbs)	66.1 lbs
ENVIRONMENTAL	
Operating Temperature	32 - 104 °F (0 - 40 °C)
Operating Humidity	0 - 90% (non-condensing)
CERTIFICATIONS	代表の変換する
Safety	UL1778, cUL 107.3, FCC DOC Class B
Environmental	RoHS Compliant
WARRANTY	
Product Warranty	3 Years Limited
Connected Equipment Guarantee	Lifetime
CEG Amount	\$300,000

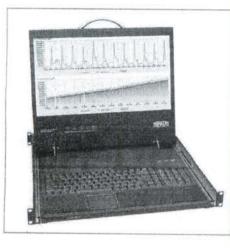
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1111 W. 35th Street Chicago, IL 60609 USA Telephone: 773.869.1234 www.tripplite.com

1U Rack-Mount Console with 19-in. LCD, Short-Depth

MODEL NUMBER: B021-000-19-SH





Description

Tripp Lite's B021-000-19-SH 1U Rackmount Console is the ideal solution for specialized vehicle projects, including rescue services and military specific applications. It can be mounted in as little as a 19" deep rack and features an integrated 19" LCD display, (max native resolution of 1366 x 768), full 104-key keyboard and touch pad, all in a 1U rackmountable housing. It also features a USB 2.0 pass-through port for connection of a USB peripheral, such as a flash drive, CAC card reader, etc.. Your peripheral device connects to the USB type A port on the front of the unit, and your computer connects to the USB type A port on the front of the unit, and your computer connects to the USB type A port on the SIZ or USB console connectors. Constructed of heavy-duty steel housing.

Features

- Mounts in 19" to 30" deep cabinets
- Full 19" LCD display screen, 104-key keyboard, touchpad
- Max native resolution of 1366 x 768
- Auto Sensing External AC Adapter, 6-ft. (Input: 100-240V, 50/60Hz, 1.5A)
- Includes 6-ft. PS/2 cable kit for use with PS/2 KVMs or Servers
- PS/2 to USB adapter included for use with USB KVMs or servers
- Features a USB 2.0 pass-through port for connection of a USB peripheral, such as a flash drive, CAC card reader, etc.
- · Single rail, ball bearing slides
- Constructed of heavy-duty steel housing

Specifications

Highlights

- Short-depth console mounts in cabinets with a minimum depth of 19"
- Designed for use with KVMs or Servers that have PS/2 or USB connectors
- 19" LCD Screen with max native 1366 x 768 resolution
- Auto Sensing External Power Supply (Input: 100-240V, 50/60Hz, 1.5A)

Package Includes

- 1U 19" KVM Console Short-Body
- External AC Power Adapter with C14 Socket (Input: 100-240V, 50/60Hz, 1.5A)
- C13 to 5-15P Power Cord 6-ft.
- · PS/2 Cable Kit 6-ft.
- PS/2 to USB Adapter
- Owner's Manual



Tripp Lite 1111 W. 35th Street Chicago, IL 60609 USA Telephone: 773.869.1234 www.tripplite.com

OVERVIEW	
Users	1
AC Adapter	Input: 100-240V, 50/60Hz, 1.5A
PRODUCT OVERVIEW	
Product Overview	1U 19" KVM Console Short-Body
INPUT	
Voltage Compatibility (VAC)	100; 110; 120; 127; 200; 208; 220; 230; 240
External Power Supply Input Specs (V / Hz / A)	100-240V / 50/60Hz / 1.5A
External Power Supply Output Specs (V / A)	12V / 2.5 A
External Power Supply Cord Length (ft.)	5
External Power Supply DC Barrel Connector Specs	OD: 5.5 x 2.5 x 16.5mm, Positive Pin, Negative Sleeve
External Power Supply Plug(s)	IEC-320-C14
External Power Supply Certifications	CE; FCC; UL; cUL; TUV; CCC; GS; BSMI; RoHS
USER INTERFACE, ALERTS & CON	ITROLS
LED Indicators	Green (CAPS LOCK, SCROLL LOCK, NUM LOCK)
PHYSICAL	
Shipping Dimensions (hwd / in.)	5.900 x 23.100 x 24.170
Shipping Dimensions (hwd / cm)	14.99 x 58.67 x 61.39
Shipping Weight (Ibs.)	34.3000
Shipping Weight (kg)	15.56
Unit Packaging Type	Box
Unit Dimensions (hwd / in.)	1.73 x 18.8 x 27.2
Unit Weight (Ibs.)	27.00
Unit Weight (kg)	12.25
Material of Construction	SECC (Steel, Electrogalvanized, Cold Rolled, Coil)
Color	Black
Rackmountable	Yes
ENVIRONMENTAL Operating Temperature Range	32 to 104 F (0 to 40 C)



Tripp Lite Telephone: 773.869.1234 www.tripplite.com

Relative Humidity	0% to 80% RH, Non-Condensing	
BTUs	(Line Mode) 102 BTU/Hr / (Standby Mode) 17.1 BTU/Hr	
Power Consumption (Watts)	(Line Mode) 30W / (Standby Mode) 5W	_
COMMUNICATIONS		
IP Remote Access	No	AND
CONNECTIONS		
Ports	1	and the second second
PC/Server Connections	PS/2; USB; VGA	
Side A - Connector 1	HD15 (FEMALE)	
Side A - Connector 2	USB A (FEMALE)	
Side B - Connector 1	USB A (FEMALE)	
Computer Keyboard and Mouse Interface	PS/2; USB	
Computer Monitor Interface	VGA	
SPECIAL FEATURES		
Cat5 KVM Switch	No	
FEATURES & SPECIFICATIONS		
Max Supported Video Resolution	1366 x 768 @ 60Hz	
USB Specification	USB 2.0 (up to 480 Mbps)	
Driver Required	No	
CERTIFICATIONS		A Next
Certifications	FCC Part 15 Class A, CE, EN 60950-1, RoHS, REACH	
WARRANTY		
Product Warranty Period Worldwide)	1-year limited warranty	
ENG) Built-in Console		
Console Screen Size (inches)	19	and a second of
Console Screen Aspect Ratio	16:9	

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BUSINESS SERVICE ORDER AGREEMENT

BUSINESS

Account Name: Integrated Fire & Security Solutions

ID#: 18881093

		_	-						
	(CUSTO	OME	R INFORM	MATION (Servic	e Location)			
Add	dress 1 19 QUA	Y RD				City	KEY WEST		
	dress 2 UNIT GL		HACK	<i>(</i>		State FL			
			- 72 E)						
•	Name Jonatha	1	5			ZIP Code	33040		
Business	Phone (305) 34	0-9243				County			
Cell	Phone					Email Address	phelps@ifssi.cor	n	
Pager N	lumber				P	rim <mark>a</mark> ry Fax Number			
Technical Contact	Name				Tec	h Contact On-Site?	No		
Technical Contact Business	Phone					nical Contact Email			
Property Manager Contact	A. (20,80,237)		-						
	Iname					rop <mark>e</mark> rty Mgr. Phone			
			CON	ICAST BL	JSINESS SERV	CES			
				Se	lection (X)				
Business Voice									
Business Internet				Х	-				
Business TV			111		-	st of open state			
		-			Serv	ice Term (Month	s)	3	6
		COM	CAS	T BUSINE	SS SERVICES	DETAILS			
Business Voice*					Comcast B	usiness Packages	3		
					Package Nam	e: CEN_SP_\$139	.95D150 3yr		
VOICE SELECTIONS	Quantity	Unit	Cost	Total Cos	st		E DESCRIPTION	N	_
Full Feature Voice Lines	0				\$110 MRC Dis	count off Deluxe 150			nted rate of
4+ Lines Basic Lines	0	-			\$139.95. MRC	Discount rolls to rate	card in month 37	7. 3 year ter	m required.
Toll Free Numbers	0	-			Taxes, Usage,	Fees, and Equipmen	t are extra.		
Fax Lines		-	-						
Equipment Fee			3						
VOICE OPTIONS	Selection(X)	-	Tot	al Cost		-			
Voicemail	0		100	aroost	1ro	des			
		-		-	- idlan -	See 100 fee			
Enhanced Listings			11						
Auto-Attendant					_				
* Voice offers & options not available in all mai									
VoiceEdge Select Selections	;*								
Voice Selections VoiceEdge Select Seats				Quantity	Unit Price(MRC)	Total Price(MRC)	Unit Price(NR	C) Total	Price(NRC)
Cordless Handset		-		0	\$0.00	\$0.00	\$0.00		\$0.00
Cordless Deskphone		-	-	0	\$0.00	\$0.00	\$0.00		\$0.00
*Bundle include : Auto attendant, Hunt Group a	and Base station.				\$0.00 Business TV	\$0.00	\$0.00		\$0.00
INTERNET SELECTIONS	Selection(X)		Tota	l Cost	1	V SELECTIONS	_	Selection	Total Cost
Speed - Deluxe 150	X		\$2	49.95	Basic				
Equipment Fee	X		\$1	14.95	Select				
Business Internet speed tier selections not available	ailable in all markets.				Information & E	Entertainment			
Internet selections & options not available in al			1		Variety				
INTERNET OPTIONS	Select	ion(X)	T	otal Cost	Standard				
Static IP V4/V6 - 1	2	<		\$19.95	Preferred				
Wi-Fi - Business Wifi Standard		<		\$0.00	TV C	OPTIONS	S	Selection	Total Cost
		1112			Sports Pack**		_		
					Canales Selecto)			

Music Choice W/Comcast Business TV

Otho

CONNECTION PRO	Selection(X)	Total Cost

BUSINESS SERVICE ORDER AGREEMENT

Account Name: Integrated Fire & Security Solutions

ID#: 18881093

COMCAST BUSINESS TOTAL SERVICE CHARGES

Comcast Business	Selection(X)	Quantity	Unit Cost T	otal Cost	Total Monthly Service Charge	\$324.80
Business Internet/TV/Voice Installation Fee	X		\$199.00	\$199.00	Promotional Code	
Connection Pro Activation Fee	X			\$99.95	(if applicable)	
Voice Activation Fee*					Discount On Internet	
Auto-Attendant Setup Fee					(if applicable)	
Toll Free Activation Fee					Discount On Video	
Directory Listing Suppression Fee	1 24		1115	m ph	(if applicable)	
VoiceEdge Select Seat Activation Fee**	3				Discount On Voice	
* Per line activation fee, up to four (4) line maximum charge					(if applicable)	
** Bundle includes: Auto attendant, Hunt Group and Base S	itation.				Discount On VoiceEdge Select Seats (if applicable)	
					Total Discount	•
					Total Recurring Monthly Bill:* \$ 324	.80
Total Installatio	n Charges:	* [\$298.95		
		L			 Applicable federal, state, and local taxes and fees may 	apply.
* Does not include Cus	tom Installation Fees	5.				
	× 91					
	GE	NERAL	SPECIAL	INSTRUC	TIONS	

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BUSINESS SERVICE ORDER AGREEMENT

BUSINESS Account Name: Integrated Fire & Security Solutions

ID#: 18881093

COMCAST BUSINESS INTERNET CONFIGURATION DETAILS

Transfer Existing Comcast.net Email	No	Equipment Selection	Business Wireless
Number of Static IPs*	1	Business Web Hosting	No

COMCAST BUSINESS TV CONFIGURATION DETAILS

Outlet Details	Location	Outlet Type
Outlet 1 - Primary		
Outlet 2 - Additional		
Outlet 3 - Additional		
Outlet 4 - Additional		
Outlet 5 - Additional		
Outlet 6 - Additional		-
Outlet 7 - Additional		
Outlet 8 - Additional		

OUTLETS 9 & UP	QUANTITY
Digital	
HDTV	
DTA	
HD-DTA	

Additional Comments:

COMCAST BUSINESS VOICEEDGE SELECT CONFIGURATION DETAILS

Phone #	Туре	
	Contract	
		Dronada
	see an alla men	TLOUCOD

Phone #	Туре	Voicemail	Customer Equipment
			Phone System Type (Key System, PBX, Othe
			Phone System Manufacturer
			-
			Fax Machine Manufacturer
			_
			Alarm System Vendor
			Point of Sale Device
			Telco Closet Location
	2 		Hunt Group Configuration Details
			Hunt Group Features Requested (Yes/No)
	4		
			Hunt Group Configuration Type
			Hunt Group Pilot Number

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BUSINESS SERVICE ORDER AGREEMENT

BUSINESS Account Name:

Integrated Fire & Security Solutions

ID#: 18881093

Calling Origination Area	Associated T
	Calling Origination Area

Directory Listing Details

Directory Listing (Published, Non-Published, Unlisted)	Additional Voice Details	Additional Voice Details			
Directory Listing Phone Number	Caller ID (Yes/No)				
Directory Listing Display Name	Caller ID Display Name (max 15 char.)				
DA/DL Header Text Information	International Dialing (Yes/No)	No			
DA/DL Header Code Information	Call Blocking (Yes/No)				
Standard Industry Code Information	Auto-Attendant (Yes/No)	No	_		

COMCAST BUSINESS VOICE EDGE CONFIGURATION DETAILS

ess

	8 mg/m			
 in the second	and the second	V		-
		n Pr	n Pro	n Proc

Voice Edge Additional Voice Details

Caller ID (Yes/No)	
International Dialing (Yes/No)	
Caller ID Display Name (max 15 characters)	
Call Blocking (Yes/No)	

Enterprise Extension Dialing?

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BUSINESS SERVICE ORDER AGREEMENT

BUSINESS Account Name:

Integrated Fire & Security Solutions

ID#: 18881093

	CUSTOMER BILLING I	FORMATION	
Billing Account Name	Integrated Fire & Security Solutions	City	KEY WEST
Billing Name (3rd Party Accounts)		State	FL
Address 1	19 QUAY RDUNIT GUARD SHACK	ZIP Code	33040
Address 2		Billing Contact Email	jphelps@ifssi.com
Billing Contact Name	Jonathan Phelps	Billing Contact Phone	(305) 340-9243
Tax Exempt?*	No	Billing Fax Number	
* If yes, pleas	e provide and attach tax exemption certificate.		

AGREEMENT

1. This Comcast Business Service Order Agreement sets forth the terms and conditions under which Comcast Cable Communications Management, LLC and its operating affiliates ("Comcast") will provide the Services to Customer. This Comcast Business Service Order Agreement consists of this document ("SOA"), the standard Comcast Business Terms and Conditions ("Terms and Conditions"), and any jointly executed amendments ("Amendments") entered under the Agreement. In the event of inconsistency among these documents, precedence will be as follows: (1) Amendments, (2) Terms and Conditions, and (3) this SOA. This Agreement shall commence and become a legally binding agreement upon Customer's execution of the SOA. The Agreement shall terminate as set forth in the Terms and Conditions (http://business.comcast.com/terms-conditions/index.aspx). All capitalized terms not defined in this SOA shall reflect the definitions given to them in the Terms and Conditions. Use of the Services is also subject to the then current High-Speed Internet for Business Acceptable Use Policy located at http://business.comcast.com/terms-conditions/index.aspx (or any successor URL), and the then current High-Speed Internet for Business Comcast nay update from time to time.

2. Comcast Business Voice, Internet, TV, and Comcast Business SmartOffice[™] Services ("Service") carry a 30 day* money back guarantee^{**}. If, within the first 30 days following Service installation, Customer is not completely satisfied, Customer may cancel Service and Comcast will issue a refund for the monthly recurring fee paid for the first 30 days of service, excluding installation charges, fees, taxes and voice usage charges, however, Customer will be charged any remaining payments owed for non-refundable fees (including installation) and other charges. In order to be eligible for the refund, Customer must cancel Service within 30 days after installation and return any Comcast-provided equipment in good working order. In no event shall the refund exceed \$500.00.

*Comcast Business Trunks and Comcast Business VoiceEdge™ carry a 60 day money back guarantee, subject to the above terms.

**The money back guarantee does not apply to Hospitality Video or Ethernet Services.

3. To complete a Voice order, Customer must execute a Comcast Letter or Authorization ("LOA") and submit it to Comcast, or Comcast's third party order entry integrator, as directed by Comcast.

4. New telephone numbers are subject to change prior to the install. Customers should not print their new number on stationery or cards until after the install is complete.

5. Modifications: All modifications to the Agreement, if any, must be captured in a written Amendment, executed by an authorized Comcast Senior Vice President and the Customer. All other attempts to modify the Agreement shall be void and non-binding on Comcast. Customer by signing below, agrees and accepts the Terms and Conditions of this Agreement.

6. IF CUSTOMER IS SUBSCRIBING TO COMCAST'S BUSINESS DIGITAL VOICE SERVICE, CUSTOMER, BY SIGNING BELOW, ACKNOWLEDGES RECEIPT AND UNDERSTANDING OF THE FOLLOWING 911 NOTICE:

911 NOTICE

Comcast Business Digital Voice service ("Voice Service") may have the 911 limitations specified below:

• In order for 911 calls to be properly directed to emergency services using Voice Service, Comcast must have the correct service address for the telephone number used by the Company. If the Voice Service or any Voice Service device is moved to a different location without Company providing an updated service address, 911 calls may be directed to the wrong emergency authority, may transmit the wrong address, and/or Voice Service (including 911) may fail altogether. Customer's use of a telephone number not associated with its geographic location may also increase these risks.

• The Voice Service uses electrical power in the Company's premises. If there is an electrical power outage, 911 calling may be interrupted if a battery back-up is not installed in the voice modem, fails, or is exhausted.

• Calls using the Voice Service, including calls to 911; may not be completed if there is a problem with network facilities, including network congestion, network/equipment/power failure, a broadband connection failure, or another technical problem.

• Customer should call Comcast at 1-888-824-8104 if it has any questions or needs to update a service address in the 911 system. Delays in updating the service address may also impact 911.

 BY SIGNING BELOW, CUSTOMER ACKNOWLEDGES THAT IT HAS READ AND UNDERSTANDS THE FOREGOING 911 NOTICE AND THE 911 LIMITATIONS OF THE VOICE SERVICE. NOTE: THE TOTAL BID WILL BE THE BASIS OF EVALUATING LOW BIDDER AND BASIS OF AWARD

BIDDER'S INFORMATION

Company Name:	Integrated Fire & Security Solutions Inc	
Address:	5680 1st Avenue, Suite #3	
	Key West, FL 33040	
Contact Name:	Jesus Carias	
Email:	jcarias@ifssi.com	
Telephone:	1-888-955-0007	
Fax:	239-415-4378	
Signature:		Date: 2 16 18
SUBCONTRACT	ORS	

The Bidder further proposes that the following subcontracting firms or businesses will be awarded subcontracts for the following portions of the work in the event that the Bidder is awarded the Contract:

Portion of Work			
Name			
Street	,,,,,	,State	Zip
Portion of Work			
Name			
Street	,,,,,,	State	Zip
	.11		

SURETY

Westchester Fire Insurance Company			whose a	ddress is
436 Walnut Street P.O. Box 1000	Philadelphia,	PA	3	19106
Street	,, _,, _		State	Zip
	olo Millio of Elorido Inc. Pr		hich	
(813) 281-2095	c/o Willis of Florida Inc. Br			
Phone	Resident Ag	ent		
<u>BIDDER</u>	Lie Did is lategrated Fire 8	Security St	olutions Inc.	
The name of the Bidder submitting t	his Bid is integrated Fire &	Security So		
				doing business
at				5
5680 1st Avenue, Suite #3	Key West	FL	,	33040
Street	City		State	Zip
jcarias@ifssi.com				
email address				
which is the address to which all cor shall be sent.	nmunications concerned v	with this l	Bid and with t	he Contract
The names of the principal officers of all persons interested in this Bid a			id, or of the p	artnership, or
Name			Title	
John Peterson	C00	(Chief Ope	erating Officer)	
Justin Peterson	Pres	sident		
Jesus Carias	Vice	President		

FLORIDA BID BOND

BOND NO. N/A - Bid Bond

AMOUNT: \$ 5% of total bid amount

KNOW ALL MEN BY THESE PRESENTS, that Integrated Fire & Security Solutions, Inc.

hereinafter called the PRINCIPAL, and Westchester Fire Insurance Company

a corporation duly organized under the laws of the State of PA

4.11

having its principal place of business at _____436 Walnut Street, P.O.Box 1000, Philadelphia, PA 19106

	in the State ofPA,
and authorized to do business in	the State of Florida, as SURETY, are held and firmly bound unto
City of Key West	
hereinafter CITY OF KEY WES	T called the OBLIGEE, in the sum of Five Percent of Total Bid
Amount	DOLLARS (\$5%) for

the payment for which we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these present.

THE CONDITION OF THIS BOND IS SUCH THAT:

WHEREAS, the PRINCIPAL is herewith submitting his or its Bid Proposal for **PORT & MARINE SERVICES - CCTV SURVEILLANCE SYSTEM – MALLORY SQUARE & OUTER MOLE**, said Bid Proposal, by reference thereto, being hereby made a part hereof. WHEREAS, the PRINCIPAL contemplates submitting or has submitted a bid to the OBLIGEE for the furnishing of all labor, materials (except those to be specifically furnished by the CITY), equipment, machinery, tools, apparatus, means of transportation for, and the performance of the work covered in the Proposal and the detailed Specifications, entitled:

×

2 ~

ITB #18-015

PORT & MARINE SERVICES CCTV SURVEILLANCE SYSTEM

MALLORY SQUARE & OUTER MOLE

WHEREAS, it was a condition precedent to the submission of said bid that a cashier's check, certified check, or bid bond in the amount of 5 percent of the base bid be submitted with said bid as a guarantee that the Bidder would, if awarded the Contract, enter into a written Contract with the CITY for the performance of said Contract, within 10 working days after written notice having been given of the award of the Contract.

NOW, THEREFORE, the conditions of this obligation are such that if the PRINCIPAL within 10 consecutive calendar days after written notice of such acceptance, enters into a written Contract with the OBLIGEE and furnishes the Performance and Payment Bonds, each in an amount equal to 100 percent of the base bid, satisfactory to the CITY, then this obligation shall be void; otherwise the sum herein stated shall be due and payable to the OBLIGEE and the Surety herein agrees to pay said sum immediately upon demand of the OBLIGEE in good and lawful money of the United States of America, as liquidated damages for failure thereof of said PRINCIPAL.

			A CTIS
Signed and sealed this	9th	day of	February , 20 ¹⁸
			Integrated Fire & Security Solutions, Inc.
			By John Welersen COO
			PRINCIPAL
			1111 - K 20 = - 1111
			Westchester Fire Insurance Company
			SURETY
			Brands LBC
			By
			Brandy L. Baich, Attorney-In-Fact
			& FL Licensed Resident Agent
			c/o Willis of Florida, Inc.
			4211 W. Boy Scout Blvd., Ste. 1000
			15 Tampa, FL 33607 Inquiries: (813) 281-2095
			inquites. (015) 201-2035
		21	

Power of Attorney

WESTCHESTER FIRE INSURANCE COMPANY

Know all men by these presents: That WESTCHESTER FIRE INSURANCE COMPANY, a corporation of the Commonwealth of Pennsylvania pursuant to the following Resolution, adopted by the Board of Directors of the said Company on December 11, 2006, to wit:

"RESOLVED, that the following authorizations relate to the execution, for and on behalf of the Company, of bonds, undertakings, recognizances, contracts and other written commitments of the Company entered into the ordinary course of business (each a "Written Commitment")

- Each of the Chairman, the President and the Vice Presidents of the Company is hereby authorized to execute any Written Commitment for and on behalf of the Company, under the seal of the Company or otherwise.
- (2) Each duly appointed attorney-in-fact of the Company is hereby authorized to execute any Written Commitment for and on behalf of the Company, under the seal of the Company or otherwise, to the extent that such action is authorized by the grant of powers provided for in such persons written appointment as such attorney-in-fact.
- (3) Each of the Chairman, the President and the Vice Presidents of the Company is hereby authorized, for and on behalf of the Company, to appoint in writing any person the attorney-in-fact of the Company with full power and authority to execute, for and on behalf of the Company, under the seal of the Company or otherwise, such Written Commitments of the Company as may be specified in such written appointment, which specification may be by general type or class of Written Commitments or by specification of one or more particular Written Commitments
- (4) Each of the Chairman, the President and Vice Presidents of the Company in hereby authorized, for and on behalf of the Company, to delegate in writing any other officer of the Company the authority to execute, for and on behalf of the Company, under the Company's seal or otherwise, such Written Commitments of the Company as are specified in such written delegation, which specification may be by general type or class of Written Commitments or by specification of one or more particular Written Commitments.
- (5) The signature of any officer or other person executing any Written Commitment or appointment or delegation pursuant to this Resolution, and the seal of the Company, may be affixed by facsimile on such Written Commitment or written appointment or delegation.

FURTHER RESOLVED, that the foregoing Resolution shall not be deemed to be an exclusive statement of the powers and authority of officers, employees and other persons to act for and on behalf of the Company, and such Resolution shall not limit or otherwise affect the exercise of any such power or authority otherwise validly granted or vested.

Does hereby nominate, constitute and appoint Anett Cardinale, Brandy L Baich, David H Carr, Eileen C Heard, Margaret A Ginem, all of the City of TAMPA, Florida, each individually if there be more than one named, its true and lawful attorney-in-fact, to make, execute, seal and deliver on its behalf, and as its act and deed any and all bonds, undertakings, recognizances, contracts and other writings in the nature thereof in penalties not exceeding Twenty Five million dollars & zero cents (\$25,000,000.00) and the execution of such writings in pursuance of these presents shall be as binding upon said Company, as fully and amply as if they had been duly executed and acknowledged by the regularly elected officers of the Company at its principal office,

IN WITNESS WHEREOF, the said Stephen M. Haney, Vice-President, has hereunto subscribed his name and affixed the Corporate seal of the said WESTCHESTER FIRE INSURANCE COMPANY this 11 day of October 2016.

WESTCHESTER FIRE INSURANCE COMPANY

Steph M

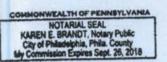
Stephen M. Haney , Vice President

COMMONWEALTH OF PENNSYLVANIA COUNTY OF PHILADELPHIA ss.

On this 11 day of October, AD. 2016 before me, a Notary Public of the Commonwealth of Pennsylvania in and for the County of Philadelphia came Stephen M. Haney, Vice-President of the WESTCHESTER FIRE INSURANCE COMPANY to me personally known to be the individual and officer who executed the preceding instrument, and he acknowledged that he executed the same, and that the seal affixed to the preceding instrument is the corporate seal of said Company; that the said corporate seal and his signature were duly affixed by the authority and direction of the said corporation, and that Resolution, adopted by the Board of Directors of said Company, referred to in the preceding instrument, is now in force.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal at the City of Philadelphia the day and year first above written.





Kuen Ebrandt

I, the undersigned Assistant Secretary of the WESTCHESTER FIRE INSURANCE COMPANY, do hereby certify that the original POWER OF ATTORNEY, of which the foregoing is a substantially true and correct copy, is in full force and effect.

In witness whereof, I have hereunto subscribed my name as Assistant Secretary, and affixed the corporate seal of the Corporation, this Thay of February 2018



William L. Kell

THIS POWER OF ATTORNEY MAY NOT BE USED TO EXECUTE ANY BOND WITH AN INCEPTION DATE AFTER October 11, 2018.



SWORN STATEMENT UNDER SECTION 287.133(3)(A) FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES

THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICER AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement is submitted with Bid or Proposal for ___ ITB #18-015 PORT & MARINE SERVICES

CCTV SURVEILLANCE SYSTEM MALLORY SQUARE & OUTER MOLE

2. This sworn statement is submitted by Integrated Fire & Security Solutions Inc (name of entity submitting sworn statement)

whose business address is 1970 Dana Dr Ft. Myers, FL 33907

and (if applicable) its Federal Employer Identification Number (FEIN) is 75-3213855

(If the entity has no FEIN, include the Social Security Number of the individual

signing this sworn statement ____

My name is ____ Jesus Carias

3.

(please print name of individual signing)

and my relationship to the entity named above is Vice President

4. I understand that a "public entity crime" as defined in Paragraph 287.133(1)(g), <u>Florida Statutes</u>, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or with the United States, including but not limited to, any bid or contract for goods or services to be provided to any public or an agency or political subdivision of any other states and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, material misrepresentation.

5. I understand that "convicted" or "conviction" as defined in Paragraph 287.133(1)(b), <u>Florida Statutes</u>, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication guilt, in any federal or state trial court of record relating to charges brought by indictment information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.

6. I understand that an "affiliate" as defined in Paragraph 287.133(1)(a), Florida Statutes, means

- 1. A predecessor or successor of a person convicted of a public entity crime; or
- 2. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.

ANTI-KICKBACK AFFIDAVIT

STATE OF Florida

: SS

COUNTY OF _____Miami Dade

I, the undersigned hereby duly sworn, depose and say that no portion of the sum herein bid will be paid to any employees of the City of Key West as a commission, kickback, reward or gift, directly or indirectly by me or any member of my firm or by an officer of the corporation.

Jesus Carias v.p By:

Sworn and subscribed before me this <u>16th</u> day of February

refacio

NOTARY PUBLIC, State of Florida at Large



20 18.

My Commission Expires: July 6, 2021

I understand that a "person" as defined in Paragraph 287.133(1)(8), Florida Statutes, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and which bids or applies to bid on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement. (Please indicate which statement applies).

 $\frac{N/A}{N}$ Neither the entity submitting this sworn statement, nor any officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, nor any affiliate of the entity have been charged with and convicted of a public entity crime subsequent to July 1, 1989, AND (Please indicate which additional statement applies.)

 $\frac{N/A}{F}$ There has been a proceeding concerning the conviction before a hearing of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer did not place the person or affiliate on the convicted vendor list. (Please attach a copy of the final order.)

 $\underline{N/A}$ The person or affiliate was placed on the convicted vendor list. There has been a subsequent proceeding before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer determined that it was in the public interest to remove the person or

affiliate from the convicted wendor list. (Please attach a copy of the final order.)

 $\frac{N/A}{A}$ The person or affiliate has not been put on the convicted vendor list. (Please describe any action taken by or pending with the Department of General Services.)

Y.P (signature) 2018 (date)

STATE OF FL

7.

8.

COUNTY OF Miami Dade

PERSONALLY APPEARED BEFORE ME, the undersigned authority,

Jesus Carias Who, after first being sworn by me, affixed his/her (name of individual signing)

signature in the space provided above on this 16th _day of _February 20 18. 6,2021 My commission expires: ESPERANZA TRU. MY COMMISSION # GO EXPIRES: July 6, 200 Bonded Thru Notary Public Underwrite

CITY OF KEY WEST INDEMNIFICATION FORM

To the fullest extent permitted by law, the VENDOR expressly agrees to indemnify and hold harmless the City of Key West, their officers, directors, agents and employees (herein called the "indemnitees") from any and all liability for damages, including, if allowed by law, reasonable attorney's fees and court costs, such legal expenses to include costs incurred in establishing the indemnification and other rights agreed to in this Paragraph, to persons or property, caused in whole or in part by any act, omission, or default by VENDOR or its subcontractors, material men, or agents of any tier or their employees, arising out of this agreement or its performance, including any such damages caused in whole or in part by any act, omission or default of any indemnitee, but specifically excluding any claims of, or damages against an indemnitee resulting from such indemnitee's gross negligence, or the willful, wanton or intentional misconduct of such indemnitee or for statutory violation or punitive damages except and to the extent the statutory violation or punitive damages are caused by or result from the acts or omissions of the VENDOR or its subcontractors, material men or agents of any tier or their employees.

Indemnification by VENDOR for Professional Acts. VENDOR hereby agrees to indemnify the City of Key West and each of its parent and subsidiary companies and the directors, officers and employees of each of them (collectively, the "indemnitees"), and hold each of the indemnitees harmless, against all losses, liabilities, penalties (civil or criminal), fines and expenses (including reasonable attorneys' fees and expenses) (collectively, "Claims") to the extent resulting from the performance of VENDOR's negligent acts, errors or omissions or intentional acts in the performance of VENDOR's services, or any of their respective affiliates, under this Agreement. If claims, losses, damages, and judgments are found to be caused by the joint or concurrent negligence of the City of Key West and VENDOR, they shall be borne by each party in proportion to its negligence.

VENDOR:	Integrated Fire & Security Solutions Inc	SEAL:
	1970 Dana Dr	
	Address Ft. Myers FL 3390X	
	Signature ACT V.P.	
	Print Name Jesus Carias v.p.	
	Title	
DATE:	Vice President	
Esper		
NOTARY PUE	BLIC, State of Florida at Large	
My Commissio	on Expires: Auly 6, 2021	ESPERANZA T MY COMMISSION
		EXPIRES: July Bonded Thru Notary Public Underwriters
	* * * * *	
	19	

EQUAL BENEFITS FOR DOMESTIC PARTNERS AFFIDAVIT

STATE OF _____) : SS

COUNTY OF Miami Dade

I, the undersigned hereby duly sworn, depose and say that the firm of <u>Integrated Fire & Security</u>

Solutions Inc.

provides benefits to domestic partners of its employees on the same basis as it provides benefits to employees' spouses, per City of Key West Code of Ordinances Sec. 2-799.

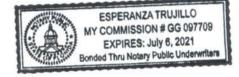
By: Jesus Carias

Sworn and subscribed before me this <u>16th</u> day of <u>February</u> 20 18.

Thulu Esperaum

NOTARY PUBLIC, State of Florida at Large

July 6,2021 My Commission Expires:



* * *

CONE OF SILENCE AFFIDAVIT

STATE OF	Florida)
		: SS
COUNTY OF	Miami Dade)

I, the undersigned hereby duly sworn, depose and say that all owner(s), partners, officers, directors, employees and agents representing the firm of <u>Integrated Fire & Security Solutions Inc</u> have read and understand the limitations and procedures regarding communications concerning City of Key West Code of Ordinances Sec. 2-773 Cone of Silence.

FIP. By: Jesus Carlas

Sworn and subscribed before me this

16th	day of	February		2018		
Espe	iraun	Thefe	1			
NOTARY P	UBLIC, Stat	e of <u>Fle</u>	prida	a	t Large	ESUS R CARIAS
My Commis	ssion Expires	: July	06,202	21		MMISSION # H Co
			* * * * * *			
			21			

BIDDER'S CHECKLIST

(Note: The purpose of this checklist is to serve as a reminder of major items to be addressed in submitting a bid and is not intended to be all inclusive. It does not alleviate the Bidder from the responsibility of becoming familiar with all aspects of the Contract Documents and Proper completion and submission of his bid.)

1.	All Bid Documents thoroughly read and understood	X
2.	All blank spaces in Bid filled in black ink.	X
3.	Total and unit Prices added correctly.	X
4.	Addenda acknowledged.	X
5.	Bid signed by authorized officer.	X
6.	Bidder familiar with federal, state, and local laws, ordinances, rules and regulations affecting the proposed purchase.	X
7.	Bidder, if successful, able to obtain and/or demonstrate possession of required licenses and certificates within (10) ten days after receiving a Notice of Award.	X
8.	Bid submitted intact with the volume containing the Bidding Requirements, Contract Forms and Conditions of the Contract, one (1) original, two (2) USB drives.	X
9.	Bid Documents submitted in sealed envelope and addressed and labeled in conformance with the instructions in the Invitation to Bid.	X
10.	Anti-kickback Affidavit; Public Entity Crime Form; City of Key West Indemnification Equal Benefits for Domestic Partners Affidavit; Local Vendors Form. Cone of Silence, and Proof of Insurance	X
11.	Description of proposed work including layout; Equipment Cut Sheets: Warranty	

11. Description of proposed work including layout; Equipment Cut Sheets; Warranty Information/Proposal; SUMMARY OF WORK Requirements

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PART 2

CONTRACT FORMS

CONTRACT

This Contract, made and entered into this _____ day of _____ 2018,

by and between the City of Key West, hereinafter called the "Owner", and

hereinafter called the "Vendor";

WITNESSETH:

The Vendor, in consideration of the sum to be paid him by the Owner and of the covenants and agreements herein contained, hereby agrees at his own proper cost and expense to do all the work and furnish all the materials, tools, labor, and all appliances, machinery, and appurtenances for ITB #18-015 PORT & MARINE SERVICES - CCTV SURVEILLANCE SYSTEM – MALLORY SQUARE & OUTER MOLE, Key West, Florida to the extent of the Bid made by the Vendor, dated the ______ day of ______ 2018, all in full compliance with the Contract Documents referred to herein.

The CONTRACT DOCUMENTS, including the signed copy of the BID, BIDDING REQUIREMENTS, SPECIFICATIONS and DRAWINGS are hereby referred to and by reference made a part of this Contract as fully and completely as if the same were fully set forth herein and are mutually cooperative therewith.

In consideration of the performance of the work as set forth in these Contract Documents, the Owner agrees to pay to the Vendor the amount BID as adjusted in accordance with the Contract Documents, or as otherwise herein provided, and to make such payments in the manner and at the times provided in the Contract Documents.

The Vendor agrees to complete the work within **thirty (30)** days and to accept as full payment hereunder the amounts computed as determined by the Contract Documents and based on the said BID.

The Vendor agrees to remedy all defects appearing in the work or developing in the materials furnished and the workmanship performed under this Contract during the warranty period after the date of final acceptance of the work by the Owner, and further agrees to indemnify and hold the Owner harmless from any costs encountered in remedying such defects.

It is agreed that the Contract, based upon the BID, shall be fully complete within the stated number of consecutive calendar days from the date the Notice to Proceed is issued.

In the event the Vendor fails to complete the work within the time limit or extended time limit agreed upon, as more particularly set forth in the Contract Documents, **liquidated damages** shall be paid at a rate of **\$250 per day**. Sundays and legal holidays shall be included in determining days in default.

This contract will automatically expire upon completion of the project. Vendor warranty obligations remain in effect.

IN WITNESS WHEREOF, we, the parties hereto, each herewith subscribe the same this

Day of	, 2018.
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CITY OF KEY WEST

By

James K. Scholl, City Manager

VENDOR

By_____

Printed_____

Title

APPROVED AS TO FORM

Attorney for Owner

* * * * * *

LICENSE REQUIREMENT AND COST

License required for this Project. Vendor must have a general contractor license or registration.

Cost Not To Exceed \$410.00.

CITY OF KEY WEST BUSINESS LICENSE TAX RECEIPT

A City of Key West Business License Tax Receipt is required for this project. Vendor must have a general contractor license or registration.Cost not to exceed \$410.00.

City of Key West Business License Tax Receipt may be found on the city website.

http://www.keywestcity.com/egov/docs/1162843921181.htm

PART 3

SPECIFICATIONS AND PHOTOGRAPHS

SUMMARY OF WORK

WORK INCLUDED

1. The Contractor will design and furnish all CCTV Surveillance System material, equipment, machinery, and labor to accomplish the following minimum requirements for each site:

a. Mallory Square Security Checkpoint:

- Axis Q3709-PVE 180 degree 4K camera and required mounts or Equal
- Ignitenet: MetroLinq 2.5G 60-19 PTP/Client antenna/radio and required mounts or Equal
- Ignitenet: MetroLinq 2.5G 60-30-18 Sector base station antenna/radio and required mounts or Equal
- Netonix WS-12-250-AC POE switch or equal
- Aimetis AIM-R1016-32 rack mount NVR and required mounts or equal
- 19" Full-HD 4K Monitor
- Wall mount weatherproof/vandal proof enclosure for NVR and monitor

b. Outer Mole Security Checkpoint:

- Axis Q3709-PVE 180 degree 4K camera and required mounts or Equal
- Ignitenet: MetroLinq 2.5G 60-19 PTP/Client antenna/radio and required mounts or Equal
- Ignitenet: MetroLinq 2.5G 60-30-18 Sector base station antenna/radio and required mounts or Equal
- Netonix WS-12-250-AC POE switch or equal
- Aimetis AIM-R1016-32 rack mount NVR and required mounts or equal
- 32" Full-HD 4K Monitor

c. Alternate Bid:

• Security staff monitoring stations for both Mallory Square and Outer Mole to be located at the Outer Mole checkpoint. This alternate eliminates the NVR and monitor from the Mallory square location and reduces the size of the enclosure.

d. General:

- System must have remote viewing capabilities and must be fully functional for employee's computers and iPhones and other hand-held devices
- If a camera or lighting test is necessary to determine the operating parameters of the proposed camera(s), test shall be performed at the expense of the vendor.
- Vendor responsible to provide necessary electrical wiring from City's existing infrastructure to all new equipment. This wiring shall be encased in conduit.
- Vendor shall also provide, install, configure, and test a recording server adequately sized to provide thirty (30) days of recording.
- System shall include all necessary software and licenses.
- There shall not be re-occurring licensing fees.
- System shall have constant coverage of areas.

- Entire system to have battery Back-up: 8hr minimum battery life.
- Entire system to have surge protection: 600 joules minimum.
- System shall have viewing in color.
- System shall be capable of withstanding harsh environment including corrosive conditions caused by saltwater and hurricane winds and/or be in protective housing.
- System shall be capable of withstanding extreme heat
- Cables/ wiring shall be protected from vandalism by the use of conduit or other means.
- Cameras shall be vandal resistant.
- Vendor to remove, and dispose of, any existing abandoned CCTV equipment.
- 2. Vendor will be responsible for identifying and verifying availability of locations for mounting cameras or equipment. If mounting locations are not available, Contractor will be responsible for installing mounting locations. Installation shall be included with Proposal.
- 3. Vendor to provide a complete written description including system capabilities, type of cameras including brand, capability of cameras, recording ability in quality and quantity and upgrade/ expansion capabilities.
- 4. Vendor to provide a complete written description including type of system and brand of stand-alone monitoring / retrieval system. Description shall include playback capability, copying to DVD, print screen ability, etc...
- 5. Vendor to provide a complete system layout showing camera locations, wiring, antennas, etc.
- 6. Contractor to provide cut sheets on all equipment including cameras, computers, recording devices, wiring, etc.
- 7. The City is requiring the Bidder to warranty all materials and labor for two (2) years. Warranty will begin once the City determines the system is operating as specified in the technical specifications for a period of 30-days. Provide complete written description of warranty and what it covers.

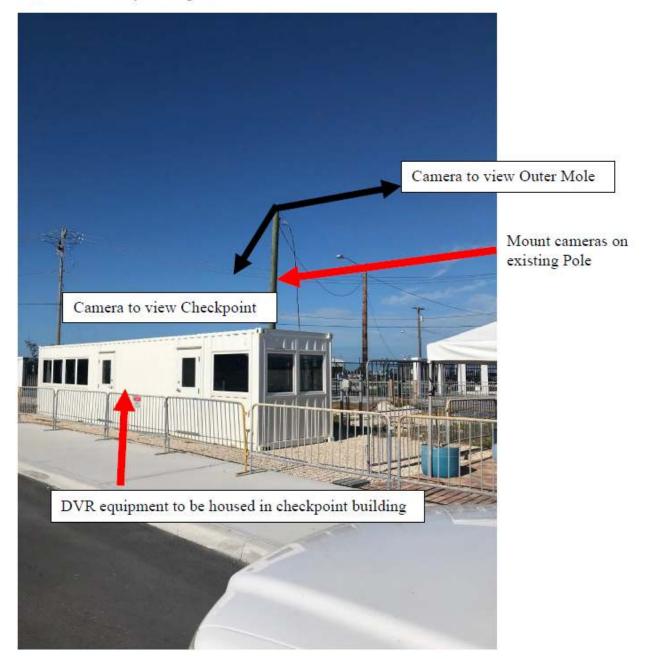
During warranty period vendor shall identify and diagnose system/ equipment failures within 24 hours. All system repairs must be made within 72 hours.

If repairs are not completed within the required 72 hours a fine of \$100/day will be imposed until repairs are made

8. Vendor to describe how the cameras, antennas, etc. will be protected in the harsh coastal environment including type of housing units.

- 9. Vendor to describe how the cameras, antennas, monitoring / recording equipment etc. will be protected against power surge.
- 10. Vendor to describe the type of training, if any, provided with the proposed system.
- 11. Vendor shall secure permits as necessary for proper execution and completion of the work and shall ensure that all Federal, State, and Local codes are followed.
- 12. Vendor shall take the necessary steps to secure the site including fencing, barricades, and/or security to prevent entry by unauthorized persons. The Port & Marine Services Director or designee shall approve security measures.
- 13. It shall be the Vendor's responsibility to request approval for entrance to certain areas of worksite for work on Saturdays, Sundays, holiday, and weekday hours other than 7:00 am until 5:00 pm.

Mole Pier Security Checkpoint





Old cameras/antennas on arches at Mallory



Mallory security checkpoint- cameras need to cover this area as well as Cruise Ship



Mallory Square Arches





If Sole Proprietor or Partnership

IN WITNESS hereto the undersigned has set his (its) hand this _____ day of

Signature of Bidder

əltiT

If Corporation

IN WITNESS WHEREOF the undersigned corporation has caused this instrument to be executed and its seal affixed by its duly authorized officers this 16th day of February 20.18.

(JAJZ)

Integrated Fire & Security Solutions Inc Name of Corporation

Title President By Justic Relation

Secretary, J2911A

Sworn and subscribed before me this 19 day of Ferrurary

NOTARY PUBLIC, State of Flocido, at Large

My Commission Expires:

EXPIRES September 08, 2020 MY COMMISSION # GG028040 KYLIE BERRY

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