



The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at ***wvOASIS.gov***. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at ***WVPurchasing.gov*** with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

Header 13

General Information

Contact

Default Values

Discount

Document Information

Procurement Folder: 361319

SO Doc Code: CRFQ

Procurement Type: Central Purchase Order

SO Dept: 0613

Vendor ID: 000000210657

SO Doc ID: VNF1800000003

Legal Name: EASTERN ELECTRIC LLC

Published Date: 9/7/17

Alias/DBA:

Close Date: 9/19/17

Total Bid: \$297,876.73

Close Time: 13:30

Response Date: 09/19/2017

Status: Closed

Response Time: 10:02

Solicitation Description: ADDENDUM 2 CLOSED
CIRCUIT TELEVISION SYSTEM

Total of Header Attachments: 13

Total of All Attachments: 13



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

State of West Virginia
Solicitation Response

Proc Folder : 361319

Solicitation Description : ADDENDUM 2 CLOSED CIRCUIT TELEVISION SYSTEM (CCTV)

Proc Type : Central Purchase Order

Date issued	Solicitation Closes	Solicitation Response	Version
	2017-09-19 13:30:00	SR 0613 ESR09191700000001093	1

VENDOR

000000210657

EASTERN ELECTRIC LLC

Solicitation Number: CRFQ 0613 VNF1800000003

Total Bid : \$297,876.73

Response Date: 2017-09-19

Response Time: 10:02:58

Comments:

FOR INFORMATION CONTACT THE BUYER

Crystal Rink
(304) 558-2402
crystal.g.rink@wv.gov

Signature on File

FEIN #

DATE

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

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	DOME CAMERA INDIGO VISION OR EQUAL/INTERNAL	29.00000	EA	\$2,423.910000	\$70,293.39

Comm Code	Manufacturer	Specification	Model #
46171610			

Extended Description :	PLEASE SEE ATTACHED SPECS FOR MORE DETAILS

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	DOME CAMERA INDIGO VISION OR EQUAL EXTERNAL	6.00000	EA	\$2,464.680000	\$14,788.08

Comm Code	Manufacturer	Specification	Model #
46171610			

Extended Description :	PLEASE SEE ATTACHED SPECS FOR MORE DETAILS

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
3	DOME CAMERA INDIGO VISION OR EQUAL INTERNAL	18.00000	EA	\$2,505.460000	\$45,098.28

Comm Code	Manufacturer	Specification	Model #
46171610			

Extended Description :	DOME CAMERA INDIGO VISION OR EQUAL INTERNAL

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
4	DOME CAMERA INDIGO VISION OR EQUAL EXTERNAL	2.00000	EA	\$2,546.220000	\$5,092.44

Comm Code	Manufacturer	Specification	Model #
46171610			

Extended Description :	DOME CAMERA INDIGO VISION OR EQUAL EXTERNAL

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
5	DOME CAMERA INDIGO VISION OR EQUAL EXTERNAL	12.00000	EA	\$3,280.070000	\$39,360.84

Comm Code	Manufacturer	Specification	Model #
46171610			

Extended Description :	DOME CAMERA INDIGO VISION OR EQUAL EXTERNAL

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
6	360 DEGREE FISH EYE CAMERA FOR INTERNAL USE	3.00000	EA	\$2,668.530000	\$8,005.59

Comm Code	Manufacturer	Specification	Model #
46171610			

Extended Description :	PLEASE SEE ATTACHED SPECS FOR MORE DETAILS

Comments: Fish-eye Internal

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
7	360 DEGREE FISH EYE CAMERA FOR EXTERNAL USE	4.00000	EA	\$2,668.510000	\$10,674.04

Comm Code	Manufacturer	Specification	Model #
46171610			

Extended Description :	PLEASE SEE ATTACHED SPECS FOR MORE DETAILS

Comments: Fish-eye External

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
8	DOME CAMERA INDIGO VISION OR EQUAL EXTERNAL	8.00000	EA	\$2,785.050000	\$22,280.40

Comm Code	Manufacturer	Specification	Model #
46171610			

Extended Description :	PLEASE SEE ATTACHED SPECS FOR MORE DETAILS

Comments: Dome Camera External

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
9	PTZ DOME CAMERA INDIGO VISION OR EQUAL/ EXTERNAL	1.00000	EA	\$3,567.080000	\$3,567.08

Comm Code	Manufacturer	Specification	Model #
46171610			

Extended Description : PLEASE SEE ATTACHED SPECS FOR MORE DETAILS

Comments: PTZ Dome Camera

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
10	NETWORK VIDEO RECORDERS	2.00000	EA	\$19,331.360000	\$38,662.72

Comm Code	Manufacturer	Specification	Model #
46171610			

Extended Description : PLEASE SEE ATTACHED SPECS FOR MORE DETAILS

Comments: Network Video Recorder

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
11	VIDEO MANAGEMENT SYSTEM	1.00000	EA	\$40,053.870000	\$40,053.87

Comm Code	Manufacturer	Specification	Model #
46171610			

Extended Description : PLEASE SEE ATTACHED SPECS FOR MORE DETAILS

Comments: Video Management System

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
12	MOUNTING ARMS	4.00000	EA	\$0.000000	\$0.00

Comm Code	Manufacturer	Specification	Model #
46171610			

Extended Description :	PLEASE SEE ATTACHED SPECS FOR MORE DETAILS
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Comments: Revised Pricing Sheet Exhibit A removed this item. (Addendum 2)

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
13	LABOR FEE FOR INSTALLATION (TO INCLUDE CABLE)	1.00000	LS	\$0.000000	\$0.00

Comm Code	Manufacturer	Specification	Model #
46171610			

Extended Description :	LABOR FEE FOR INSTALLATION (TO INCLUDE CABLE)
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Comments: Revised Pricing Sheet Exhibit A removed this item. (Addendum 2)

BID BOND

KNOW ALL MEN BY THESE PRESENTS, That we, the undersigned, Eastern Electric, LLC
of Mount Nebo, WV, as Principal, and Travelers Casualty and Surety Company of America
of Hartford, CT, a corporation organized and existing under the laws of the State of
CT with its principal office in the City of Hartford, as Surety, are held and firmly bound unto the State
of West Virginia, as Oblige, in the penal sum of Five Percent of Amount Bid (\$ 5%) for the payment of which,
well and truly to be made, we jointly and severally bind ourselves, our heirs, administrators, executors, successors and assigns.

The Condition of the above obligation is such that whereas the Principal has submitted to the Purchasing Section of the
Department of Administration a certain bid or proposal, attached hereto and made a part hereof, to enter into a contract in writing for
VNF1800000003 Closed Circuit Television System Install at the Veterans Nursing Home located in Clarksburg, WV -
According to Plans and Specifications

NOW THEREFORE,

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

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

WITNESS, the following signatures and seals of Principal and Surety, executed and sealed by a proper officer of Principal and
Surety, or by Principal individually if Principal is an individual, this 19th day of September, 2017.

Principal Seal



Eastern Electric, LLC

(Name of Principal)

By Michael C. Pitt
(Must be President, Vice President, or
Duly Authorized Agent)

President
(Title)

Surety Seal



Travelers Casualty and Surety Company of America
(Name of Surety)

By: Kimberly J. Wilkinson
Kimberly J. Wilkinson, WV Resident Agent Attorney-in-Fact

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



POWER OF ATTORNEY

Farmington Casualty Company
 Fidelity and Guaranty Insurance Company
 Fidelity and Guaranty Insurance Underwriters, Inc.
 St. Paul Fire and Marine Insurance Company
 St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company
 Travelers Casualty and Surety Company
 Travelers Casualty and Surety Company of America
 United States Fidelity and Guaranty Company

Attorney-In Fact No. 231936

Certificate No. 007215747

KNOW ALL MEN BY THESE PRESENTS: That Farmington Casualty Company, St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company are corporations duly organized under the laws of the State of Connecticut, that Fidelity and Guaranty Insurance Company is a corporation duly organized under the laws of the State of Iowa, and that Fidelity and Guaranty Insurance Underwriters, Inc., is a corporation duly organized under the laws of the State of Wisconsin (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint

Gregory T. Gordon, Patricia A. Moye, and Kimberly J. Wilkinson

of the City of Charleston, State of West Virginia, their true and lawful Attorney(s)-in-Fact, each in their separate capacity if more than one is named above, to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed and their corporate seals to be hereto affixed, this 3rd day of May, 2017.

Farmington Casualty Company
 Fidelity and Guaranty Insurance Company
 Fidelity and Guaranty Insurance Underwriters, Inc.
 St. Paul Fire and Marine Insurance Company
 St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company
 Travelers Casualty and Surety Company
 Travelers Casualty and Surety Company of America
 United States Fidelity and Guaranty Company



State of Connecticut
 City of Hartford ss.

By: _____

Robert L. Raney, Senior Vice President

On this the 3rd day of May, 2017, before me personally appeared Robert L. Raney, who acknowledged himself to be the Senior Vice President of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

In Witness Whereof, I hereunto set my hand and official seal.
 My Commission expires the 30th day of June, 2021.



Marie C. Tetreault
 Marie C. Tetreault, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal, bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, Kevin E. Hughes, the undersigned, Assistant Secretary, of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 19th day of September, 20 17.


Kevin E. Hughes, Assistant Secretary



To verify the authenticity of this Power of Attorney, call 1-800-421-3880 or contact us at www.travelersbond.com. Please refer to the Attorney-In-Fact number, the above-named individuals and the details of the bond to which the power is attached.

Exhibit A - FOR SECURITY CAMERA

Revision Date: 09072017

Item #	Specs	Description	Unit of Measure	Unit Cost	Quantity	Extended Cost
1	13.1.1	Dome Camera Indigo Vision or Equal/Internal (to include installation hardware, fiber cable, mounts)	each	2423.91	29	70293.39
2	13.1.1	Dome Camera Indigo Vision or Equal/External (to include installation hardware, fiber cable, mounts)	each	2464.68	6	14788.08
3	13.1.2	Dome Camera Indigo Vision or Equal/Internal (to include installation hardware, fiber cable, mounts)	each	2505.46	18	45098.28
4	13.1.2	Dome Camera Indigo Vision or Equal/External (to include installation hardware, fiber cable, mounts)	each	2546.22	2	5092.44
5	13.1.3	Dome Camera Indigo Vision or Equal/External (to include installation hardware, fiber cable, mounts)	each	3280.07	12	39360.84
6	13.1.4	360 degree Fish Eye Cameras/Internal (to include installation hardware, fiber cable, mounts)	each	2668.53	3	8005.59
7	13.1.4	360 degree Fish eye Cameras/External (to include installation hardware, fiber cable, mounts)	each	2668.51	4	10674.04
8	13.1.5	Dome Camera Indigo Vision or Equal/External (to include installation hardware, fiber cable, mounts)	each	2785.05	8	22280.40
9	13.1.6	PTZ Dome Camera Indigo Vision or Equal/Ext (to include installation hardware, fiber cable, mounts)	each	3567.08	1	3567.08
10	13.1.7	Network Video Recorders	each	19331.36	2	38662.72
11	13.1.9	Video Management System	each	40053.87	1	40053.87
				Total Bid Amount:		297876.73

Company: Eastern Electric, LLC

Salesperson: John Kuhn

Address: PO Box 92, 330 Riviera Road, Mount Nebo WV 26679

Phone: 304.872.4868

Email: jkuhn@easternelectricllc.com



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

State of West Virginia
Request for Quotation
04 — Audio/Video

Proc Folder: 361319

Doc Description: ADDENDUM 2 CLOSED CIRCUIT TELEVISION SYSTEM (CCTV)

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2017-09-07	2017-09-19 13:30:00	CRFQ 0613 VNF1800000003	3

BID RECEIVING LOCATION

BID CLERK

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION

2019 WASHINGTON ST E

CHARLESTON

WV 25305

US

VENDOR

Vendor Name, Address and Telephone Number:

Eastern Electric, LLC

PO Box 92

330 Riviera Road

Mount Nebo WV 26679

304.872.4868

FOR INFORMATION CONTACT THE BUYER

Crystal Rink

(304) 558-2402

crystal.g.rink@wv.gov

Signature X

FEIN # 55-0775642

DATE 09/19/2017

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

ADDITIONAL INFORMATION:

THE STATE OF WEST VIRGINIA PURCHASING DIVISION FOR THE AGENCY, WEST VIRGINIA VETERANS NURSING FACILITY, IS SOLICITING BIDS FOR THE ONE-TIME PURCHASE OF CLOSED CIRCUIT TELEVISION SYSTEM (CCTV) PER THE ATTACHED.

INVOICE TO		SHIP TO	
DIVISION OF VETERANS AFFAIRS 1 FREEDOMS WAY		DIVISION OF VETERANS AFFAIRS 1 FREEDOMS WAY	
CLARKSBURG	WV26301	CLARKSBURG	WV 26301
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	DOME CAMERA INDIGO VISION OR EQUAL/INTERNAL	29.00000	EA	\$2424.91	\$70293.39

Comm Code	Manufacturer	Specification	Model #
46171610	IndigoVision		610440

Extended Description :

PLEASE SEE ATTACHED SPECS FOR MORE DETAILS

INVOICE TO		SHIP TO	
DIVISION OF VETERANS AFFAIRS 1 FREEDOMS WAY		DIVISION OF VETERANS AFFAIRS 1 FREEDOMS WAY	
CLARKSBURG	WV26301	CLARKSBURG	WV 26301
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
2	DOME CAMERA INDIGO VISION OR EQUAL EXTERNAL	6.00000	EA	\$2464.68	\$14788.08

Comm Code	Manufacturer	Specification	Model #
46171610	IndigoVision		610460

Extended Description :

PLEASE SEE ATTACHED SPECS FOR MORE DETAILS

INVOICE TO		SHIP TO	
DIVISION OF VETERANS AFFAIRS 1 FREEDOMS WAY		DIVISION OF VETERANS AFFAIRS 1 FREEDOMS WAY	
CLARKSBURG	WV26301	CLARKSBURG	WV 26301
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
3	DOME CAMERA INDIGO VISION OR EQUAL INTERNAL	18.00000	EA	\$2505.46	\$45098.28

Comm Code	Manufacturer	Specification	Model #
46171610	IndigoVision		611440

Extended Description :

DOME CAMERA INDIGO VISION OR EQUAL INTERNAL

INVOICE TO		SHIP TO	
DIVISION OF VETERANS AFFAIRS 1 FREEDOMS WAY		DIVISION OF VETERANS AFFAIRS 1 FREEDOMS WAY	
CLARKSBURG	WV26301	CLARKSBURG	WV 26301
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
4	DOME CAMERA INDIGO VISION OR EQUAL EXTERNAL	2.00000	EA	\$2546.22	\$5092.44

Comm Code	Manufacturer	Specification	Model #
46171610	IndigoVision		611460

Extended Description :

DOME CAMERA INDIGO VISION OR EQUAL EXTERNAL

INVOICE TO		SHIP TO	
DIVISION OF VETERANS AFFAIRS 1 FREEDOMS WAY		DIVISION OF VETERANS AFFAIRS 1 FREEDOMS WAY	
CLARKSBURG	WV26301	CLARKSBURG	WV 26301
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
5	DOME CAMERA INDIGO VISION OR EQUAL EXTERNAL	12.00000	EA	\$3280.07	\$39360.84

Comm Code	Manufacturer	Specification	Model #
46171610	IndigoVision		512448

Extended Description :

DOME CAMERA INDIGO VISION OR EQUAL EXTERNAL

INVOICE TO		SHIP TO	
DIVISION OF VETERANS AFFAIRS 1 FREEDOMS WAY		DIVISION OF VETERANS AFFAIRS 1 FREEDOMS WAY	
CLARKSBURG	WV26301	CLARKSBURG	WV 26301
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
6	360 DEGREE FISH EYE CAMERA FOR INTERNAL USE	3.00000	EA	\$2668.53	\$8005.59

Comm Code	Manufacturer	Specification	Model #
46171610	IndigoVision		612740

Extended Description :

PLEASE SEE ATTACHED SPECS FOR MORE DETAILS

INVOICE TO		SHIP TO	
DIVISION OF VETERANS AFFAIRS 1 FREEDOMS WAY		DIVISION OF VETERANS AFFAIRS 1 FREEDOMS WAY	
CLARKSBURG	WV26301	CLARKSBURG	WV 26301
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
7	360 DEGREE FISH EYE CAMERA FOR EXTERNAL USE	4.00000	EA	\$2668.51	\$10674.04

Comm Code	Manufacturer	Specification	Model #
46171610	IndigoVision		612740

Extended Description :

PLEASE SEE ATTACHED SPECS FOR MORE DETAILS

INVOICE TO		SHIP TO	
DIVISION OF VETERANS AFFAIRS 1 FREEDOMS WAY		DIVISION OF VETERANS AFFAIRS 1 FREEDOMS WAY	
CLARKSBURG	WV26301	CLARKSBURG	WV 26301
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
8	DOME CAMERA INDIGO VISION OR EQUAL EXTERNAL	8.00000	EA	\$2785.05	\$22280.40

Comm Code	Manufacturer	Specification	Model #
46171610	IndigoVision		611460

Extended Description :

PLEASE SEE ATTACHED SPECS FOR MORE DETAILS

INVOICE TO		SHIP TO	
DIVISION OF VETERANS AFFAIRS 1 FREEDOMS WAY		DIVISION OF VETERANS AFFAIRS 1 FREEDOMS WAY	
CLARKSBURG	WV26301	CLARKSBURG	WV 26301
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
9	PTZ DOME CAMERA INDIGO VISION OR EQUAL/ EXTERNAL	1.00000	EA	\$3567.08	\$3567.08

Comm Code	Manufacturer	Specification	Model #
46171610	IndigoVision		611560

Extended Description :

PLEASE SEE ATTACHED SPECS FOR MORE DETAILS

INVOICE TO		SHIP TO	
DIVISION OF VETERANS AFFAIRS 1 FREEDOMS WAY		DIVISION OF VETERANS AFFAIRS 1 FREEDOMS WAY	
CLARKSBURG	WV26301	CLARKSBURG	WV 26301
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
10	NETWORK VIDEO RECORDERS	2.00000	EA	\$19331.36	\$38662.72

Comm Code	Manufacturer	Specification	Model #
46171610	IndigoVision		980578

Extended Description :

PLEASE SEE ATTACHED SPECS FOR MORE DETAILS

INVOICE TO		SHIP TO	
DIVISION OF VETERANS AFFAIRS 1 FREEDOMS WAY		DIVISION OF VETERANS AFFAIRS 1 FREEDOMS WAY	
CLARKSBURG	WV26301	CLARKSBURG	WV 26301
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
11	VIDEO MANAGEMENT SYSTEM	1.00000	EA	\$40053.87	\$40053.87

Comm Code	Manufacturer	Specification	Model #
46171610	IndigoVision/Dell		340003 340000-U 110078 440010-U

Extended Description :
PLEASE SEE ATTACHED SPECS FOR MORE DETAILS

INVOICE TO		SHIP TO	
DIVISION OF VETERANS AFFAIRS 1 FREEDOMS WAY		DIVISION OF VETERANS AFFAIRS 1 FREEDOMS WAY	
CLARKSBURG	WV26301	CLARKSBURG	WV 26301
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
12	MOUNTING ARMS	4.00000	EA	Revised Pricing Sheet "Exhibit A" Removed This Item	

Comm Code	Manufacturer	Specification	Model #
46171610			

Extended Description :
PLEASE SEE ATTACHED SPECS FOR MORE DETAILS

INVOICE TO		SHIP TO	
DIVISION OF VETERANS AFFAIRS 1 FREEDOMS WAY		DIVISION OF VETERANS AFFAIRS 1 FREEDOMS WAY	
CLARKSBURG	WV26301	CLARKSBURG	WV 26301
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
13	LABOR FEE FOR INSTALLATION (TO INCLUDE CABLE)	1.00000	LS	Revised Pricing Sheet "Exhibit A" Removed This Item	

Comm Code	Manufacturer	Specification	Model #
46171610			

Extended Description :

LABOR FEE FOR INSTALLATION (TO INCLUDE CABLE)

SCHEDULE OF EVENTS

<u>Line</u>	<u>Event</u>	<u>Event Date</u>
1	MANDATORY PRE-BID MEETING	2017-08-29
2	VENDOR QUESTION DEADLINE	2017-09-01

INSTRUCTIONS TO VENDORS SUBMITTING BIDS

1. REVIEW DOCUMENTS THOROUGHLY: The attached documents contain a solicitation for bids. Please read these instructions and all documents attached in their entirety. These instructions provide critical information about requirements that if overlooked could lead to disqualification of a Vendor's bid. All bids must be submitted in accordance with the provisions contained in these instructions and the Solicitation. Failure to do so may result in disqualification of Vendor's bid.

2. MANDATORY TERMS: The Solicitation may contain mandatory provisions identified by the use of the words "must," "will," and "shall." Failure to comply with a mandatory term in the Solicitation will result in bid disqualification.

3. PREBID MEETING: The item identified below shall apply to this Solicitation.

☐ A pre-bid meeting will not be held prior to bid opening

☐ A NON-MANDATORY PRE-BID meeting will be held at the following place and time:

☒ A MANDATORY PRE-BID meeting will be held at the following place and time:

August 29, 2017 at 10:00 AM EST

West Virginia Veterans Nursing Facility
1 Freedom Way
Clarksburg, WV 26301

All Vendors submitting a bid must attend the mandatory pre-bid meeting. Failure to attend the mandatory pre-bid meeting shall result in disqualification of the Vendor's bid. No one person attending the pre-bid meeting may represent more than one Vendor.

An attendance sheet provided at the pre-bid meeting shall serve as the official document verifying attendance. The State will not accept any other form of proof or documentation to verify attendance. Any person attending the pre-bid meeting on behalf of a Vendor must list on the attendance sheet his or her name and the name of the Vendor he or she is representing.

Additionally, the person attending the pre-bid meeting should include the Vendor's E-Mail address, phone number, and Fax number on the attendance sheet. It is the Vendor's responsibility to locate the attendance sheet and provide the required information. Failure to complete the attendance sheet as required may result in disqualification of Vendor's bid.

All Vendors should arrive prior to the starting time for the pre-bid. Vendors who arrive after the starting time but prior to the end of the pre-bid will be permitted to sign in, but are charged with knowing all matters discussed at the pre-bid.

Questions submitted at least five business days prior to a scheduled pre-bid will be discussed at the pre-bid meeting if possible. Any discussions or answers to questions at the pre-bid meeting are preliminary in nature and are non-binding. Official and binding answers to questions will be published in a written addendum to the Solicitation prior to bid opening.

4. VENDOR QUESTION DEADLINE: Vendors may submit questions relating to this Solicitation to the Purchasing Division. Questions must be submitted in writing. All questions must be submitted on or before the date listed below and to the address listed below in order to be considered. A written response will be published in a Solicitation addendum if a response is possible and appropriate. Non-written discussions, conversations, or questions and answers regarding this Solicitation are preliminary in nature and are nonbinding.

Submitted e-mails should have solicitation number in the subject line.

Question Submission Deadline: September 1, 2017 at 10:00 AM EST

Submit Questions to: Crystal Rink

2019 Washington Street, East

Charleston, WV 25305

Fax: (304) 558-4115 (Vendors should not use this fax number for bid submission)

Email: Crystal.G.Rink@wv.gov

5. VERBAL COMMUNICATION: Any verbal communication between the Vendor and any State personnel is not binding, including verbal communication at the mandatory pre-bid conference. Only information issued in writing and added to the Solicitation by an official written addendum by the Purchasing Division is binding.

6. BID SUBMISSION: All bids must be submitted electronically through wvOASIS or signed and delivered by the Vendor to the Purchasing Division at the address listed below on or before the date and time of the bid opening. Any bid received by the Purchasing Division staff is considered to be in the possession of the Purchasing Division and will not be returned for any reason. The Purchasing Division will not accept bids, modification of bids, or addendum acknowledgment forms via e-mail. Acceptable delivery methods include electronic submission via wvOASIS, hand delivery, delivery by courier, or facsimile.

The bid delivery address is:
Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

A bid that is not submitted electronically through wvOASIS should contain the information listed below on the face of the envelope or the bid may be rejected by the Purchasing Division.:

SEALED BID:

BUYER: Crystal Rink

SOLICITATION NO.:

BID OPENING DATE: September 19, 2017

BID OPENING TIME: 1:30 PM EST

FAX NUMBER: 304-558-3970

The Purchasing Division may prohibit the submission of bids electronically through wvOASIS at its sole discretion. Such a prohibition will be contained and communicated in the wvOASIS system resulting in the Vendor's inability to submit bids through wvOASIS. Submission of a response to an Expression of Interest or Request for Proposal is not permitted in wvOASIS.

For Request For Proposal ("RFP") Responses Only: In the event that Vendor is responding to a request for proposal, the Vendor shall submit one original technical and one original cost proposal plus n/a convenience copies of each to the Purchasing Division at the address shown above. Additionally, the Vendor should identify the bid type as either a technical or cost proposal on the face of each bid envelope submitted in response to a request for proposal as follows:

BID TYPE: (This only applies to CRFP)

☐ Technical

☐ Cost

7. BID OPENING: Bids submitted in response to this Solicitation will be opened at the location identified below on the date and time listed below. Delivery of a bid after the bid opening date and time will result in bid disqualification. For purposes of this Solicitation, a bid is considered delivered when confirmation of delivery is provided by wvOASIS (in the case of electronic submission) or when the bid is time stamped by the official Purchasing Division time clock (in the case of hand delivery).

Bid Opening Date and Time: September 19, 2017 at 1:30 PM EST

Bid Opening Location: Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

8. ADDENDUM ACKNOWLEDGEMENT: Changes or revisions to this Solicitation will be made by an official written addendum issued by the Purchasing Division. Vendor should acknowledge receipt of all addenda issued with this Solicitation by completing an Addendum Acknowledgment Form, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

9. BID FORMATTING: Vendor should type or electronically enter the information onto its bid to prevent errors in the evaluation. Failure to type or electronically enter the information may result in bid disqualification.

10. ALTERNATES: Any model, brand, or specification listed in this Solicitation establishes the acceptable level of quality only and is not intended to reflect a preference for, or in any way favor, a particular brand or vendor. Vendors may bid alternates to a listed model or brand provided that the alternate is at least equal to the model or brand and complies with the required specifications. The equality of any alternate being bid shall be determined by the State at its sole discretion. Any Vendor bidding an alternate model or brand should clearly identify the alternate items in its bid and should include manufacturer's specifications, industry literature, and/or any other relevant documentation demonstrating the equality of the alternate items. Failure to provide information for alternate items may be grounds for rejection of a Vendor's bid.

11. EXCEPTIONS AND CLARIFICATIONS: The Solicitation contains the specifications that shall form the basis of a contractual agreement. Vendor shall clearly mark any exceptions, clarifications, or other proposed modifications in its bid. Exceptions to, clarifications of, or modifications of a requirement or term and condition of the Solicitation may result in bid disqualification.

12. COMMUNICATION LIMITATIONS: In accordance with West Virginia Code of State Rules §148-1-6.6, communication with the State of West Virginia or any of its employees regarding this Solicitation during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited without prior Purchasing Division approval. Purchasing Division approval for such communication is implied for all agency delegated and exempt purchases.

13. REGISTRATION: Prior to Contract award, the apparent successful Vendor must be properly registered with the West Virginia Purchasing Division and must have paid the \$125 fee, if applicable.

14. UNIT PRICE: Unit prices shall prevail in cases of a discrepancy in the Vendor's bid.

15. PREFERENCE: Vendor Preference may only be granted upon written request and only in accordance with the West Virginia Code § 5A-3-37 and the West Virginia Code of State Rules. A Vendor Preference Certificate form has been attached hereto to allow Vendor to apply for the preference. Vendor's failure to submit the Vendor Preference Certificate form with its bid will result in denial of Vendor Preference. Vendor Preference does not apply to construction projects.

16. SMALL, WOMEN-OWNED, OR MINORITY-OWNED BUSINESSES: For any solicitations publicly advertised for bid, in accordance with West Virginia Code §5A-3-37(a)(7) and W. Va. CSR § 148-22-9, any non-resident vendor certified as a small, women-owned, or minority-owned business under W. Va. CSR § 148-22-9 shall be provided the same preference made available to any resident vendor. Any non-resident small, women-owned, or minority-owned business must identify itself as such in writing, must submit that writing to the Purchasing Division with its bid, and must be properly certified under W. Va. CSR § 148-22-9 prior to contract award to receive the preferences made available to resident vendors. Preference for a non-resident small, women-owned, or minority owned business shall be applied in accordance with W. Va. CSR § 148-22-9.

17. WAIVER OF MINOR IRREGULARITIES: The Director reserves the right to waive minor irregularities in bids or specifications in accordance with West Virginia Code of State Rules § 148-1-4.6.

18. ELECTRONIC FILE ACCESS RESTRICTIONS: Vendor must ensure that its submission in wvOASIS can be accessed and viewed by the Purchasing Division staff immediately upon bid opening. The Purchasing Division will consider any file that cannot be immediately accessed and viewed at the time of the bid opening (such as, encrypted files, password protected files, or incompatible files) to be blank or incomplete as context requires, and are therefore unacceptable. A vendor will not be permitted to unencrypt files, remove password protections, or resubmit documents after bid opening to make a file viewable if those documents are required with the bid. A Vendor may be required to provide document passwords or remove access restrictions to allow the Purchasing Division to print or electronically save documents provided that those documents are viewable by the Purchasing Division prior to obtaining the password or removing the access restriction.

19. NON-RESPONSIBLE: The Purchasing Division Director reserves the right to reject the bid of any vendor as Non-Responsible in accordance with W. Va. Code of State Rules § 148-1-5.3, when the Director determines that the vendor submitting the bid does not have the capability to fully perform, or lacks the integrity and reliability to assure good-faith performance."

20. ACCEPTANCE/REJECTION: The State may accept or reject any bid in whole, or in part in accordance with W. Va. Code of State Rules § 148-1-4.5. and § 148-1-6.4.b."

21. YOUR SUBMISSION IS A PUBLIC DOCUMENT: Vendor's entire response to the Solicitation and the resulting Contract are public documents. As public documents, they will be disclosed to the public following the bid/proposal opening or award of the contract, as required by the competitive bidding laws of West Virginia Code §§ 5A-3-1 et seq., 5-22-1 et seq., and 5G-1-1 et seq. and the Freedom of Information Act West Virginia Code §§ 29B-1-1 et seq.

DO NOT SUBMIT MATERIAL YOU CONSIDER TO BE CONFIDENTIAL, A TRADE SECRET, OR OTHERWISE NOT SUBJECT TO PUBLIC DISCLOSURE.

Submission of any bid, proposal, or other document to the Purchasing Division constitutes your explicit consent to the subsequent public disclosure of the bid, proposal, or document. The Purchasing Division will disclose any document labeled "confidential," "proprietary," "trade secret," "private," or labeled with any other claim against public disclosure of the documents, to include any "trade secrets" as defined by West Virginia Code § 47-22-1 et seq. All submissions are subject to public disclosure without notice.

22. INTERESTED PARTY DISCLOSURE: W. Va. Code § 6D-1-2 requires that for contracts with an actual or estimated value of at least \$100,000, the vendor must submit to the Purchasing Division a disclosure of interested parties to the contract, prior to contract award. That disclosure must occur on the form prescribed and approved by the WV Ethics Commission. A copy of that form is included with this solicitation or can be obtained from the WV Ethics Commission. "Interested parties" means: (1) A business entity performing work or service pursuant to, or in furtherance of, the applicable contract, including specifically sub-contractors; (2) the person(s) who have an ownership interest equal to or greater than 25% in the business entity performing work or service pursuant to, or in furtherance of, the applicable contract; and (3) the person or business entity, if any, that served as a compensated broker or intermediary to actively facilitate the applicable contract or negotiated the terms of the applicable contract with the state agency: Provided, That subdivision (2) shall be inapplicable if a business entity is a publicly traded company: Provided, however, That subdivision (3) shall not include persons or business entities performing legal services related to the negotiation or drafting of the applicable contract.

GENERAL TERMS AND CONDITIONS:

1. CONTRACTUAL AGREEMENT: Issuance of a Award Document signed by the Purchasing Division Director, or his designee, and approved as to form by the Attorney General's office constitutes acceptance of this Contract made by and between the State of West Virginia and the Vendor. Vendor's signature on its bid signifies Vendor's agreement to be bound by and accept the terms and conditions contained in this Contract.

2. DEFINITIONS: As used in this Solicitation/Contract, the following terms shall have the meanings attributed to them below. Additional definitions may be found in the specifications included with this Solicitation/Contract.

2.1. "Agency" or "Agencies" means the agency, board, commission, or other entity of the State of West Virginia that is identified on the first page of the Solicitation or any other public entity seeking to procure goods or services under this Contract.

2.2. "Bid" or "Proposal" means the vendors submitted response to this solicitation.

2.3. "Contract" means the binding agreement that is entered into between the State and the Vendor to provide the goods or services requested in the Solicitation.

2.4. "Director" means the Director of the West Virginia Department of Administration, Purchasing Division.

2.5. "Purchasing Division" means the West Virginia Department of Administration, Purchasing Division.

2.6. "Award Document" means the document signed by the Agency and the Purchasing Division, and approved as to form by the Attorney General, that identifies the Vendor as the contract holder.

2.7. "Solicitation" means the official notice of an opportunity to supply the State with goods or services that is published by the Purchasing Division.

2.8. "State" means the State of West Virginia and/or any of its agencies, commissions, boards, etc. as context requires.

2.9. "Vendor" or "Vendors" means any entity submitting a bid in response to the Solicitation, the entity that has been selected as the lowest responsible bidder, or the entity that has been awarded the Contract as context requires.

3. CONTRACT TERM; RENEWAL; EXTENSION: The term of this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below:

☐ **Term Contract**

Initial Contract Term: This Contract becomes effective on _____ and extends for a period of _____ year(s).

Renewal Term: This Contract may be renewed upon the mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). Any request for renewal should be submitted to the Purchasing Division thirty (30) days prior to the expiration date of the initial contract term or appropriate renewal term. A Contract renewal shall be in accordance with the terms and conditions of the original contract. Renewal of this Contract is limited to _____ successive one (1) year periods or multiple renewal periods of less than one year, provided that the multiple renewal periods do not exceed _____ months in total. Automatic renewal of this Contract is prohibited. Notwithstanding the foregoing, Purchasing Division approval is not required on agency delegated or exempt purchases. Attorney General approval may be required for vendor terms and conditions.

Delivery Order Limitations: In the event that this contract permits delivery orders, a delivery order may only be issued during the time this Contract is in effect. Any delivery order issued within one year of the expiration of this Contract shall be effective for one year from the date the delivery order is issued. No delivery order may be extended beyond one year after this Contract has expired.

☒ **Fixed Period Contract:** This Contract becomes effective upon Vendor's receipt of the notice to proceed and must be completed within _____ ninety (90) calendar _____ days.

☐ **Fixed Period Contract with Renewals:** This Contract becomes effective upon Vendor's receipt of the notice to proceed and part of the Contract more fully described in the attached specifications must be completed within _____ days.

Upon completion, the vendor agrees that maintenance, monitoring, or warranty services will be provided for one year thereafter with an additional _____ successive one year renewal periods or multiple renewal periods of less than one year provided that the multiple renewal periods do not exceed _____ months in total. Automatic renewal of this Contract is prohibited.

☐ **One Time Purchase:** The term of this Contract shall run from the issuance of the Award Document until all of the goods contracted for have been delivered, but in no event will this Contract extend for more than one fiscal year.

☐ **Other:** See attached.

4. NOTICE TO PROCEED: Vendor shall begin performance of this Contract immediately upon receiving notice to proceed unless otherwise instructed by the Agency. Unless otherwise specified, the fully executed Award Document will be considered notice to proceed.

5. QUANTITIES: The quantities required under this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below.

☐ **Open End Contract:** Quantities listed in this Solicitation are approximations only, based on estimates supplied by the Agency. It is understood and agreed that the Contract shall cover the quantities actually ordered for delivery during the term of the Contract, whether more or less than the quantities shown.

☐ **Service:** The scope of the service to be provided will be more clearly defined in the specifications included herewith.

☒ **Combined Service and Goods:** The scope of the service and deliverable goods to be provided will be more clearly defined in the specifications included herewith.

☐ **One Time Purchase:** This Contract is for the purchase of a set quantity of goods that are identified in the specifications included herewith. Once those items have been delivered, no additional goods may be procured under this Contract without an appropriate change order approved by the Vendor, Agency, Purchasing Division, and Attorney General's office.

6. EMERGENCY PURCHASES: The Purchasing Division Director may authorize the Agency to purchase goods or services in the open market that Vendor would otherwise provide under this Contract if those goods or services are for immediate or expedited delivery in an emergency. Emergencies shall include, but are not limited to, delays in transportation or an unanticipated increase in the volume of work. An emergency purchase in the open market, approved by the Purchasing Division Director, shall not constitute a breach of this Contract and shall not entitle the Vendor to any form of compensation or damages. This provision does not excuse the State from fulfilling its obligations under a One Time Purchase contract.

7. REQUIRED DOCUMENTS: All of the items checked below must be provided to the Purchasing Division by the Vendor as specified below.

☒ **BID BOND (Construction Only):** Pursuant to the requirements contained in W. Va. Code § 5-22-1(c), All Vendors submitting a bid on a construction project shall furnish a valid bid bond in the amount of five percent (5%) of the total amount of the bid protecting the State of West Virginia. The bid bond must be submitted with the bid.

☒ **PERFORMANCE BOND:** The apparent successful Vendor shall provide a performance bond in the amount of 100% of contract value. The performance bond must be received by the Purchasing Division prior to Contract award. On construction contracts, the performance bond must be 100% of the Contract value.

☒ **LABOR/MATERIAL PAYMENT BOND:** The apparent successful Vendor shall provide a labor/material payment bond in the amount of 100% of the Contract value. The labor/material payment bond must be delivered to the Purchasing Division prior to Contract award.

In lieu of the Bid Bond, Performance Bond, and Labor/Material Payment Bond, the Vendor may provide certified checks, cashier's checks, or irrevocable letters of credit. Any certified check, cashier's check, or irrevocable letter of credit provided in lieu of a bond must be of the same amount and delivered on the same schedule as the bond it replaces. A letter of credit submitted in lieu of a performance and labor/material payment bond will only be allowed for projects under \$100,000. Personal or business checks are not acceptable. Notwithstanding the foregoing, West Virginia Code § 5-22-1 (d) mandates that a vendor provide a performance and labor/material payment bond for construction projects. Accordingly, substitutions for the performance and labor/material payment bonds for construction projects is not permitted.

☐ **MAINTENANCE BOND:** The apparent successful Vendor shall provide a two (2) year maintenance bond covering the roofing system. The maintenance bond must be issued and delivered to the Purchasing Division prior to Contract award.

☒ **LICENSE(S) / CERTIFICATIONS / PERMITS:** In addition to anything required under the Section entitled Licensing, of the General Terms and Conditions, the apparent successful Vendor shall furnish proof of the following licenses, certifications, and/or permits prior to Contract award, in a form acceptable to the Purchasing Division.

☒ Valid West Virginia Contractors License

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The apparent successful Vendor shall also furnish proof of any additional licenses or certifications contained in the specifications prior to Contract award regardless of whether or not that requirement is listed above.

8. INSURANCE: The apparent successful Vendor shall furnish proof of the insurance identified by a checkmark below prior to Contract award. Subsequent to contract award, and prior to the insurance expiration date, Vendor shall provide the Agency with proof that the insurance mandated herein has been continued. Vendor must also provide Agency with immediate notice of any changes in its insurance policies mandated herein, including but not limited to, policy cancelation, policy reduction, or change in insurers. The insurance coverages identified below must be maintained throughout the life of this contract. The apparent successful Vendor shall also furnish proof of any additional insurance requirements contained in the specifications prior to Contract award regardless of whether or not that insurance requirement is listed in this section.

Vendor must maintain:

☒ **Commercial General Liability Insurance** in at least an amount of:

\$1,000,000.00 or more. Please make Certificate Holder: WV VNF 1 Freedom Way, Clarksburg, WV 26301

☐ **Automobile Liability Insurance** in at least an amount of: _____

☐ **Professional/Malpractice/Errors and Omission Insurance** in at least an amount of: _____

☐ **Commercial Crime and Third Party Fidelity Insurance** in an amount of: _____

☐ **Cyber Liability Insurance** in an amount of: _____

☐ **Builders Risk Insurance** in an amount equal to 100% of the amount of the Contract.

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9. WORKERS' COMPENSATION INSURANCE: The apparent successful Vendor shall comply with laws relating to workers compensation, shall maintain workers' compensation insurance when required, and shall furnish proof of workers' compensation insurance upon request.

10. LITIGATION BOND: The Director reserves the right to require any Vendor that files a protest of an award to submit a litigation bond in the amount equal to one percent of the lowest bid submitted or \$5,000, whichever is greater. The entire amount of the bond shall be forfeited if the hearing officer determines that the protest was filed for frivolous or improper purpose, including but not limited to, the purpose of harassing, causing unnecessary delay, or needless expense for the Agency. All litigation bonds shall be made payable to the Purchasing Division. In lieu of a bond, the protester may submit a cashier's check or certified check payable to the Purchasing Division. Cashier's or certified checks will be deposited with and held by the State Treasurer's office. If it is determined that the protest has not been filed for frivolous or improper purpose, the bond or deposit shall be returned in its entirety.

11. LIQUIDATED DAMAGES: Vendor shall pay liquidated damages in the amount of
n/a

for n/a

This clause shall in no way be considered exclusive and shall not limit the State or Agency's right to pursue any other available remedy.

12. ACCEPTANCE: Vendor's signature on its bid, or on the certification and signature page, constitutes an offer to the State that cannot be unilaterally withdrawn, signifies that the product or service proposed by vendor meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise indicated, and signifies acceptance of the terms and conditions contained in the Solicitation unless otherwise indicated.

13. PRICING: The pricing set forth herein is firm for the life of the Contract, unless specified elsewhere within this Solicitation/Contract by the State. A Vendor's inclusion of price adjustment provisions in its bid, without an express authorization from the State in the Solicitation to do so, may result in bid disqualification.

14. PAYMENT: Payment in advance is prohibited under this Contract. Payment may only be made after the delivery and acceptance of goods or services. The Vendor shall submit invoices, in arrears.

15. PURCHASING CARD ACCEPTANCE: The State of West Virginia currently utilizes a Purchasing Card program, administered under contract by a banking institution, to process payment for goods and services. The Vendor must accept the State of West Virginia's Purchasing Card for payment of all orders under this Contract unless the box below is checked.

☐ Vendor is not required to accept the State of West Virginia's Purchasing Card as payment for all goods and services.

16. TAXES: The Vendor shall pay any applicable sales, use, personal property or any other taxes arising out of this Contract and the transactions contemplated thereby. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.

17. ADDITIONAL FEES: Vendor is not permitted to charge additional fees or assess additional charges that were not either expressly provided for in the solicitation published by the State of West Virginia or included in the unit price or lump sum bid amount that Vendor is required by the solicitation to provide. Including such fees or charges as notes to the solicitation may result in rejection of vendor's bid. Requesting such fees or charges be paid after the contract has been awarded may result in cancellation of the contract.

18. FUNDING: This Contract shall continue for the term stated herein, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise made available, this Contract becomes void and of no effect beginning on July 1 of the fiscal year for which funding has not been appropriated or otherwise made available.

19. CANCELLATION: The Purchasing Division Director reserves the right to cancel this Contract immediately upon written notice to the vendor if the materials or workmanship supplied do not conform to the specifications contained in the Contract. The Purchasing Division Director may also cancel any purchase or Contract upon 30 days written notice to the Vendor in accordance with West Virginia Code of State Rules § 148-1-6.1.e.

20. TIME: Time is of the essence with regard to all matters of time and performance in this Contract.

21. APPLICABLE LAW: This Contract is governed by and interpreted under West Virginia law without giving effect to its choice of law principles. Any information provided in specification manuals, or any other source, verbal or written, which contradicts or violates the West Virginia Constitution, West Virginia Code or West Virginia Code of State Rules is void and of no effect.

22. COMPLIANCE WITH LAWS: Vendor shall comply with all applicable federal, state, and local laws, regulations and ordinances. By submitting a bid, Vendor acknowledges that it has reviewed, understands, and will comply with all applicable laws, regulations, and ordinances.

23. ARBITRATION: Any references made to arbitration contained in this Contract, Vendor's bid, or in any American Institute of Architects documents pertaining to this Contract are hereby deleted, void, and of no effect.

24. MODIFICATIONS: This writing is the parties' final expression of intent. Notwithstanding anything contained in this Contract to the contrary no modification of this Contract shall be binding without mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). Any change to existing contracts that adds work or changes contract cost, and were not included in the original contract, must be approved by the Purchasing Division and the Attorney General's Office (as to form) prior to the implementation of the change or commencement of work affected by the change.

25. WAIVER: The failure of either party to insist upon a strict performance of any of the terms or provision of this Contract, or to exercise any option, right, or remedy herein contained, shall not be construed as a waiver or a relinquishment for the future of such term, provision, option, right, or remedy, but the same shall continue in full force and effect. Any waiver must be expressly stated in writing and signed by the waiving party.

26. SUBSEQUENT FORMS: The terms and conditions contained in this Contract shall supersede any and all subsequent terms and conditions which may appear on any form documents submitted by Vendor to the Agency or Purchasing Division such as price lists, order forms, invoices, sales agreements, or maintenance agreements, and includes internet websites or other electronic documents. Acceptance or use of Vendor's forms does not constitute acceptance of the terms and conditions contained thereon.

27. ASSIGNMENT: Neither this Contract nor any monies due, or to become due hereunder, may be assigned by the Vendor without the express written consent of the Agency, the Purchasing Division, the Attorney General's office (as to form only), and any other government agency or office that may be required to approve such assignments. Notwithstanding the foregoing, Purchasing Division approval may or may not be required on certain agency delegated or exempt purchases.

28. WARRANTY: The Vendor expressly warrants that the goods and/or services covered by this Contract will: (a) conform to the specifications, drawings, samples, or other description furnished or specified by the Agency; (b) be merchantable and fit for the purpose intended; and (c) be free from defect in material and workmanship.

29. STATE EMPLOYEES: State employees are not permitted to utilize this Contract for personal use and the Vendor is prohibited from permitting or facilitating the same.

30. BANKRUPTCY: In the event the Vendor files for bankruptcy protection, the State of West Virginia may deem this Contract null and void, and terminate this Contract without notice.

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

32. YOUR SUBMISSION IS A PUBLIC DOCUMENT: Vendor's entire response to the Solicitation and the resulting Contract are public documents. As public documents, they will be disclosed to the public following the bid/proposal opening or award of the contract, as required by the competitive bidding laws of West Virginia Code §§ 5A-3-1 et seq., 5-22-1 et seq., and 5G-1-1 et seq. and the Freedom of Information Act West Virginia Code §§ 29B-1-1 et seq.

DO NOT SUBMIT MATERIAL YOU CONSIDER TO BE CONFIDENTIAL, A TRADE SECRET, OR OTHERWISE NOT SUBJECT TO PUBLIC DISCLOSURE.

Submission of any bid, proposal, or other document to the Purchasing Division constitutes your explicit consent to the subsequent public disclosure of the bid, proposal, or document. The Purchasing Division will disclose any document labeled "confidential," "proprietary," "trade secret," "private," or labeled with any other claim against public disclosure of the documents, to include any "trade secrets" as defined by West Virginia Code § 47-22-1 et seq. All submissions are subject to public disclosure without notice.

33. LICENSING: In accordance with West Virginia Code of State Rules § 148-1-6.1.e, Vendor must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agency or political subdivision. Upon request, the Vendor must provide all necessary releases to obtain information to enable the Purchasing Division Director or the Agency to verify that the Vendor is licensed and in good standing with the above entities.

34. ANTITRUST: In submitting a bid to, signing a contract with, or accepting a Award Document from any agency of the State of West Virginia, the Vendor agrees to convey, sell, assign, or transfer to the State of West Virginia all rights, title, and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to Vendor.

35. VENDOR CERTIFICATIONS: By signing its bid or entering into this Contract, Vendor certifies (1) that its bid or offer was made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, person or entity submitting a bid or offer for the same material, supplies, equipment or services; (2) that its bid or offer is in all respects fair and without collusion or fraud; (3) that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; and (4) that it has reviewed this Solicitation in its entirety; understands the requirements, terms and conditions, and other information contained herein.

Vendor's signature on its bid or offer also affirms that neither it nor its representatives have any interest, nor shall acquire any interest, direct or indirect, which would compromise the performance of its services hereunder. Any such interests shall be promptly presented in detail to the Agency. The individual signing this bid or offer on behalf of Vendor certifies that he or she is authorized by the Vendor to execute this bid or offer or any documents related thereto on Vendor's behalf; that he or she is authorized to bind the Vendor in a contractual relationship; and that, to the best of his or her knowledge, the Vendor has properly registered with any State agency that may require registration.

36. VENDOR RELATIONSHIP: The relationship of the Vendor to the State shall be that of an independent contractor and no principal-agent relationship or employer-employee relationship is contemplated or created by this Contract. The Vendor as an independent contractor is solely liable for the acts and omissions of its employees and agents. Vendor shall be responsible for selecting, supervising, and compensating any and all individuals employed pursuant to the terms of this Solicitation and resulting contract. Neither the Vendor, nor any employees or subcontractors of the Vendor, shall be deemed to be employees of the State for any purpose whatsoever. Vendor shall be exclusively responsible for payment of employees and contractors for all wages and salaries, taxes, withholding payments, penalties, fees, fringe benefits, professional liability insurance premiums, contributions to insurance and pension, or other deferred compensation plans, including but not limited to, Workers' Compensation and Social Security obligations, licensing fees, etc. and the filing of all necessary documents, forms, and returns pertinent to all of the foregoing.

Vendor shall hold harmless the State, and shall provide the State and Agency with a defense against any and all claims including, but not limited to, the foregoing payments, withholdings, contributions, taxes, Social Security taxes, and employer income tax returns.

37. INDEMNIFICATION: The Vendor agrees to indemnify, defend, and hold harmless the State and the Agency, their officers, and employees from and against: (1) Any claims or losses for services rendered by any subcontractor, person, or firm performing or supplying services, materials, or supplies in connection with the performance of the Contract; (2) Any claims or losses resulting to any person or entity injured or damaged by the Vendor, its officers, employees, or subcontractors by the publication, translation, reproduction, delivery, performance, use, or disposition of any data used under the Contract in a manner not authorized by the Contract, or by Federal or State statutes or regulations; and (3) Any failure of the Vendor, its officers, employees, or subcontractors to observe State and Federal laws including, but not limited to, labor and wage and hour laws.

38. PURCHASING AFFIDAVIT: In accordance with West Virginia Code § 5-22-1(i), the contracting public entity shall not award a contract for a construction project to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees. Accordingly, prior to contract award, Vendors are required to sign, notarize, and submit the Purchasing Affidavit to the Purchasing Division affirming under oath that it is not in default on any monetary obligation owed to the state or a political subdivision of the state.

39. ADDITIONAL AGENCY AND LOCAL GOVERNMENT USE: This Contract may be utilized by other agencies, spending units, and political subdivisions of the State of West Virginia; county, municipal, and other local government bodies; and school districts ("Other Government Entities"). Any extension of this Contract to the aforementioned Other Government Entities must be on the same prices, terms, and conditions as those offered and agreed to in this Contract, provided that such extension is in compliance with the applicable laws, rules, and ordinances of the Other Government Entity. If the Vendor does not wish to extend the prices, terms, and conditions of its bid and subsequent contract to the Other Government Entities, the Vendor must clearly indicate such refusal in its bid. A refusal to extend this Contract to the Other Government Entities shall not impact or influence the award of this Contract in any manner.

40. CONFLICT OF INTEREST: Vendor, its officers or members or employees, shall not presently have or acquire an interest, direct or indirect, which would conflict with or compromise the performance of its obligations hereunder. Vendor shall periodically inquire of its officers, members and employees to ensure that a conflict of interest does not arise. Any conflict of interest discovered shall be promptly presented in detail to the Agency.

41. REPORTS: Vendor shall provide the Agency and/or the Purchasing Division with the following reports identified by a checked box below:

☒ Such reports as the Agency and/or the Purchasing Division may request. Requested reports may include, but are not limited to, quantities purchased, agencies utilizing the contract, total contract expenditures by agency, etc.

☐ Quarterly reports detailing the total quantity of purchases in units and dollars, along with a listing of purchases by agency. Quarterly reports should be delivered to the Purchasing Division via email at purchasing.requisitions@wv.gov.

42. BACKGROUND CHECK: In accordance with W. Va. Code § 15-2D-3, the Director of the Division of Protective Services shall require any service provider whose employees are regularly employed on the grounds or in the buildings of the Capitol complex or who have access to sensitive or critical information to submit to a fingerprint-based state and federal background inquiry through the state repository. The service provider is responsible for any costs associated with the fingerprint-based state and federal background inquiry.

After the contract for such services has been approved, but before any such employees are permitted to be on the grounds or in the buildings of the Capitol complex or have access to sensitive or critical information, the service provider shall submit a list of all persons who will be physically present and working at the Capitol complex to the Director of the Division of Protective Services for purposes of verifying compliance with this provision. The State reserves the right to prohibit a service provider's employees from accessing sensitive or critical information or to be present at the Capitol complex based upon results addressed from a criminal background check.

Service providers should contact the West Virginia Division of Protective Services by phone at (304) 558-9911 for more information.

43. PREFERENCE FOR USE OF DOMESTIC STEEL PRODUCTS: Except when authorized by the Director of the Purchasing Division pursuant to W. Va. Code § 5A-3-56, no contractor may use or supply steel products for a State Contract Project other than those steel products made in the United States. A contractor who uses steel products in violation of this section may be subject to civil penalties pursuant to W. Va. Code § 5A-3-56. As used in this section:

- a. "State Contract Project" means any erection or construction of, or any addition to, alteration of or other improvement to any building or structure, including, but not limited to, roads or highways, or the installation of any heating or cooling or ventilating plants or other equipment, or the supply of and materials for such projects, pursuant to a contract with the State of West Virginia for which bids were solicited on or after June 6, 2001.
- b. "Steel Products" means products rolled, formed, shaped, drawn, extruded, forged, cast, fabricated or otherwise similarly processed, or processed by a combination of two or more or such operations, from steel made by the open hearth, basic oxygen, electric furnace, Bessemer or other steel making process. The Purchasing Division Director may, in writing, authorize the use of foreign steel products if:
- c. The cost for each contract item used does not exceed one tenth of one percent (.1%) of the total contract cost or two thousand five hundred dollars (\$2,500.00), whichever is greater. For the purposes of this section, the cost is the value of the steel product as delivered to the project; or
- d. The Director of the Purchasing Division determines that specified steel materials are not produced in the United States in sufficient quantity or otherwise are not reasonably available to meet contract requirements.

44. PREFERENCE FOR USE OF DOMESTIC ALUMINUM, GLASS, AND STEEL: In Accordance with W. Va. Code § 5-19-1 et seq., and W. Va. CSR § 148-10-1 et seq., for every contract or subcontract, subject to the limitations contained herein, for the construction, reconstruction, alteration, repair, improvement or maintenance of public works or for the purchase of any item of machinery or equipment to be used at sites of public works, only domestic aluminum, glass or steel products shall be supplied unless the spending officer determines, in writing, after the receipt of offers or bids, (1) that the cost of domestic aluminum, glass or steel products is unreasonable or inconsistent with the public interest of the State of West Virginia, (2) that domestic aluminum, glass or steel products are not produced in sufficient quantities to meet the contract requirements, or (3) the available domestic aluminum, glass, or steel do not meet the contract specifications. This provision only applies to public works contracts awarded in an amount more than fifty thousand dollars (\$50,000) or public works contracts that require more than ten thousand pounds of steel products.

The cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than twenty percent (20%) of the bid or offered price for foreign made aluminum, glass, or steel products. If the domestic aluminum, glass or steel products to be supplied or produced in a "substantial labor surplus area", as defined by the United States Department of Labor, the cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than thirty percent (30%) of the bid or offered price for foreign made aluminum, glass, or steel products. This preference shall be applied to an item of machinery or equipment, as indicated above, when the item is a single unit of equipment or machinery manufactured primarily of aluminum, glass or steel, is part of a public works contract and has the sole purpose or of being a permanent part of a single public works project. This provision does not apply to equipment or machinery purchased by a spending unit for use by that spending unit and not as part of a single public works project.

All bids and offers including domestic aluminum, glass or steel products that exceed bid or offer prices including foreign aluminum, glass or steel products after application of the preferences provided in this provision may be reduced to a price equal to or lower than the lowest bid or offer price for foreign aluminum, glass or steel products plus the applicable preference. If the reduced bid or offer prices are made in writing and supersede the prior bid or offer prices, all bids or offers, including the reduced bid or offer prices, will be reevaluated in accordance with this rule.

45. INTERESTED PARTY SUPPLEMENTAL DISCLOSURE: W. Va. Code § 6D-1-2 requires that for contracts with an actual or estimated value of at least \$100,000, the vendor must submit to the Agency a supplemental disclosure of interested parties reflecting any new or differing interested parties to the contract, which were not included in the original pre-award interested party disclosure, within 30 days following the completion or termination of the contract. A copy of that form is included with this solicitation or can be obtained from the WV Ethics Commission. "Interested parties" means: (1) A business entity performing work or service pursuant to, or in furtherance of, the applicable contract, including specifically sub-contractors; (2) the person(s) who have an ownership interest equal to or greater than 25% in the business entity performing work or service pursuant to, or in furtherance of, the applicable contract; and (3) the person or business entity, if any, that served as a compensated broker or intermediary to actively facilitate the applicable contract or negotiated the terms of the applicable contract with the state agency: Provided, That subdivision (2) shall be inapplicable if a business entity is a publicly traded company: Provided, however, That subdivision (3) shall not include persons or business entities performing legal services related to the negotiation or drafting of the applicable contract. The Agency shall submit a copy of the disclosure to the Ethics Commission within 15 days after receiving the supplemental disclosure of interested parties.

ADDITIONAL TERMS AND CONDITIONS (Construction Contracts Only)

1. CONTRACTOR'S LICENSE: West Virginia Code § 21-11-2 requires that all persons desiring to perform contracting work in this state be licensed. The West Virginia Contractors Licensing Board is empowered to issue the contractor's license. Applications for a contractor's license may be made by contacting the West Virginia Division of Labor. West Virginia Code § 21-11-11 requires any prospective Vendor to include the contractor's license number on its bid. If an apparent low bidder fails to submit a license number in accordance with this section, the Purchasing Division will promptly request by telephone and electronic mail that the low bidder and the second low bidder provide the license number within one business day of the request. Failure of the bidder to provide the license number within one business day of receiving the request shall result in disqualification of the bid. Vendors should include a contractor's license number in the space provided below.

Contractor's Name: Eastern Electric, LLC

Contractor's License No.: WV- 031621

The apparent successful Vendor must furnish a copy of its contractor's license prior to the issuance of a contract award document.

2. DRUG-FREE WORKPLACE AFFIDAVIT: W. Va. Code § 21-1D-5 provides that any solicitation for a public improvement contract requires each Vendor that submits a bid for the work to submit an affidavit that the Vendor has a written plan for a drug-free workplace policy. If the affidavit is not submitted with the bid submission, the Purchasing Division shall promptly request by telephone and electronic mail that the low bidder and second low bidder provide the affidavit within one business day of the request. Failure to submit the affidavit within one business day of receiving the request shall result in disqualification of the bid. To comply with this law, Vendor should complete the enclosed drug-free workplace affidavit and submit the same with its bid. Failure to submit the signed and notarized drugfree workplace affidavit or a similar affidavit that fully complies with the requirements of the applicable code, within one business day of being requested to do so shall result in disqualification of Vendor's bid. Pursuant to W. Va. Code 21-1D-2(b) and (k), this provision does not apply to public improvement contracts the value of which is \$100,000 or less or temporary or emergency repairs.

2.1. DRUG-FREE WORKPLACE POLICY: Pursuant to W. Va. Code § 21-1D-4, Vendor and its subcontractors must implement and maintain a written drug-free workplace policy that complies with said article. The awarding public authority shall cancel this contract if: (1) Vendor fails to implement and maintain a written drug-free workplace policy described in the preceding paragraph, (2) Vendor fails to provide information regarding implementation of its drug-free workplace policy at the request of the public authority; or (3) Vendor provides to the public authority false information regarding the contractor's drug-free workplace policy.

Pursuant to W. Va. Code 21-1D-2(b) and (k), this provision does not apply to public improvement contracts the value of which is \$100,000 or less or temporary or emergency repairs.

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

- (1) Information to show that the education and training service to the requirements of West Virginia Code § 21-1D-5 was provided;
- (2) The name of the laboratory certified by the United States Department of Health and Human Services or its successor that performs the drug tests;
- (3) The average number of employees in connection with the construction on the public improvement;
- (4) Drug test results for the following categories including the number of positive tests and the number of negative tests: (A) Pre-employment and new hires; (B) Reasonable suspicion; (C) Post-accident; and (D) Random.

Vendor should utilize the attached Certified Drug Free Workplace Report Coversheet when submitting the report required hereunder. Pursuant to W. Va. Code 21-1D-2(b) and (k), this provision does not apply to public improvement contracts the value of which is \$100,000 or less or temporary or emergency repairs.

4. AIA DOCUMENTS: All construction contracts that will be completed in conjunction with architectural services procured under Chapter 5G of the West Virginia Code will be governed by the AIA A101-2007 and A201-2007 or the A107-2007 documents, as amended by the Supplementary Conditions for the State of West Virginia, in addition to the terms and conditions contained herein.

5. GREEN BUILDINGS MINIMUM ENERGY STANDARDS: In accordance with § 22-29-4, all new building construction projects of public agencies that have not entered the schematic design phase prior to July 1, 2012, or any building construction project receiving state grant funds and appropriations, including public schools, that have not entered the schematic design phase prior to July 1, 2012, shall be designed and constructed complying with the ICC International Energy Conservation Code, adopted by the State Fire Commission, and the ANSI/ASHRAE/IESNA Standard 90.1-2007: Provided, That if any construction project has a commitment of federal funds to pay for a portion of such project, this provision shall only apply to the extent such standards are consistent with the federal standards.

6. LOCAL LABOR MARKET HIRING REQUIREMENT: Pursuant to West Virginia Code §21-1C-1 et seq., Employers shall hire at least seventy-five percent of employees for public improvement construction projects from the local labor market, to be rounded off, with at least two employees from outside the local labor market permissible for each employer per project.

Any employer unable to employ the minimum number of employees from the local labor market shall inform the nearest office of the bureau of employment programs' division of employment services of the number of qualified employees needed and provide a job description of the positions to be filled.

If, within three business days following the placing of a job order, the division is unable to refer any qualified job applicants to the employer or refers less qualified job applicants than the number requested, then the division shall issue a waiver to the employer stating the unavailability of applicant and shall permit the employer to fill any positions covered by the waiver from outside the local labor market. The waiver shall be either oral or in writing and shall be issued within the prescribed three days. A waiver certificate shall be sent to both the employer for its permanent project records and to the public authority.

Any employer who violates any provision of this article is subject to a civil penalty of one hundred dollars per day of violation. The West Virginia Division of Labor is responsible for establishing procedures for the collection of civil penalties.

The following terms used in this section have the meaning shown below.

(1) The term "construction project" means any construction, reconstruction, improvement, enlargement, painting, decorating or repair of any public improvement let to contract in an amount equal to or greater than \$500,000. The term "construction project" does not include temporary or emergency repairs;

(2) The term "employee" means any person hired or permitted to perform hourly work for wages by a person, firm or corporation in the construction industry; The term "employee" does not include:(i) Bona fide employees of a public authority or individuals engaged in making temporary or emergency repairs;(ii) Bona fide independent contractors; or(iii) Salaried supervisory personnel necessary to assure efficient execution of the employee's work;

(3) The term "employer" means any person, firm or corporation employing one or more employees on any public improvement and includes all contractors and subcontractors;

(4) The term "local labor market" means every county in West Virginia and any county outside of West Virginia if any portion of that county is within fifty miles of the border of West Virginia;

(5) The term "public improvement" includes the construction of all buildings, roads, highways, bridges, streets, alleys, sewers, ditches, sewage disposal plants, waterworks, airports and all other structures that may be let to contract by a public authority, excluding improvements funded, in whole or in part, by federal funds.

7. DAVIS-BACON AND RELATED ACT WAGE RATES:

- ☐ The work performed under this contract is federally funded in whole, or in part. Pursuant to _____, Vendors are required to pay applicable Davis-Bacon wage rates.
- ☐ The work performed under this contract is not subject to Davis-Bacon wage rates.

8. SUBCONTRACTOR LIST SUBMISSION: In accordance with W. Va. Code § 5-22-1, the apparent low bidder on a contract valued at more than \$250,000.00 for the construction, alteration, decoration, painting or improvement of a new or existing building or structure shall submit a list of all subcontractors who will perform more than \$25,000.00 of work on the project including labor and materials. (This section does not apply to any other construction projects, such as highway, mine reclamation, water or sewer projects.) The subcontractor list shall be provided to the Purchasing Division within one business day of the opening of bids for review. If the apparent low bidder fails to submit the subcontractor list, the Purchasing Division shall promptly request by telephone and electronic mail that the low bidder and second low bidder provide the subcontractor list within one business day of the request. Failure to submit the subcontractor list within one business day of receiving the request shall result in disqualification of the bid.

If no subcontractors who will perform more than \$25,000.00 of work are to be used to complete the project, the apparent low bidder must make this clear on the subcontractor list, in the bid itself, or in response to the Purchasing Division's request for the subcontractor list.

a. Required Information. The subcontractor list must contain the following information:

- i. Bidder's name
- ii. Name of each subcontractor performing more than \$25,000 of work on the project.
- iii. The license number of each subcontractor, as required by W. Va. Code § 21-11-1 et. seq.
- iv. If applicable, a notation that no subcontractor will be used to perform more than \$25,000.00 of work. (This item iv. is not required if the vendor makes this clear in the bid itself or in documentation following the request for the subcontractor list.)

b. Subcontractor List Submission Form: The subcontractor list may be submitted in any form, including the attached form, as long as the required information noted above is included. If any information is missing from the bidder's subcontractor list submission, it may be obtained from other documents such as bids, emails, letters, etc. that accompany the subcontractor list submission.

c. Substitution of Subcontractor. Written approval must be obtained from the State Spending Unit before any subcontractor substitution is permitted. Substitutions are not permitted unless:

- i. The subcontractor listed in the original bid has filed for bankruptcy;
- ii. The subcontractor in the original bid has been debarred or suspended; or
- iii. The contractor certifies in writing that the subcontractor listed in the original bid fails, is unable, or refuses to perform his subcontract.

Subcontractor List Submission (Construction Contracts Only)

Bidder's Name: Eastern Electric, LLC



Check this box if no subcontractors will perform more than \$25,000.00 of work to complete the project.

[illegible]

Attach additional pages if necessary

Revised 07/07/2017

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

John Kuhn Project Manager
(Name, Title)
John Kuhn, Project Manager
PO Box 92 , 330 Riviera Road Mount Nebo WV 26679
(Printed Name and Title)
304.872.4868 304.872.3634
(Address)
304.872.4868 304.872.3634
(Phone Number) / (Fax Number)
jkuhn@easternelectricllc.com
(email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

Eastern Electric, LLC
(Company)
Michael C Pritt President
(Authorized Signature) (Representative Name, Title)
Michael C. Pritt, President
(Printed Name and Title of Authorized Representative)
9/19/2017
(Date)
304.872.4868 304.872.3634
(Phone Number) (Fax Number)

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CRFQ VNF1800000003

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

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

Addendum Numbers Received:

(Check the box next to each addendum received)

- ☒ Addendum No. 1
- ☒ Addendum No. 2
- ☐ Addendum No. 3
- ☐ Addendum No. 4
- ☐ Addendum No. 5

- ☐ Addendum No. 6
- ☐ Addendum No. 7
- ☐ Addendum No. 8
- ☐ Addendum No. 9
- ☐ Addendum No. 10

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Eastern Electric, LLC

Company

Michael C. P. J.

Authorized Signature

9/19/2017

Date

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

REQUEST FOR QUOTATION
CRFQ VNF1800000003
Closed Circuit Television System

GENERAL CONSTRUCTION SPECIFICATIONS (No AIA Documents)

- 1. PURPOSE AND SCOPE:** The West Virginia Purchasing Division is soliciting bids on behalf of the West Virginia Division of Veterans Assistance to establish a contract for the one-time purchase and complete installation of a closed-circuit television (CCTV) system for the West Virginia Veterans Nursing Facility located in Clarksburg, WV.

The Vendor shall furnish all materials, labor, and equipment necessary to complete all Construction Services. The Vendor shall furnish any incidental work, materials, labor, and equipment that are necessary to complete the Construction Services, even if such incidental work is not explicitly included in the Project Plans.

- 2. DEFINITIONS:** The terms listed below shall have the meanings assigned to them below. Additional definitions can be found in section 2 of the General Terms and Conditions.

2.1 "Construction Services" means to provide all labor, material, equipment and related incidentals needed for the provision and complete installation of a closed-circuit television system at the West Virginia Veterans Nursing Facility as more fully described in these specifications as more fully described in the Project Plans.

2.2 "Project Plans" means documents developed by an architect, an engineer, the Agency, or another design professional, which are attached hereto as Exhibit B, that provide detailed instructions on how the Construction Services are to be performed. In the event that Project Plans contain drawings or other documents too large to attach in Exhibit B, Vendors can obtain copies in accordance with Section 9 of these Specifications.

2.3 "VSS" represents Vendor Self Service meaning the item upon which the Vendor should list their proposed price for the contract services.

2.4 "CCTV" Close Circuit Television is a TV system in which signals are not publicly distributed but monitored, primarily for surveillance and security purposes.

2.5 "Pricing Page" means the pages, contained wvOASIS or attached hereto as Exhibit A, upon which Vendor should list its proposed price for the Contract Services.

2.6 "Solicitation" means the official notice of an opportunity to supply the State with goods or services that is published by the Purchasing Division.

2.7 "ISO 9001 Quality Standard" means "International Organization for Standardization" This worldwide federation of 110 national standards bodies works to promote the growth of manufacturing, trade and communication among business operations worldwide, through the development of generic quality standards.

REQUEST FOR QUOTATION
CRFQ VNF1800000003
Closed Circuit Television System

2.8 "DSP" means Digital Signal Processing.

2.9 "NTP" means Notice To Proceed

2.10 "ONVIF" means Industry Standard for Camera to Server compression and communication Protocol.

2.11 H.264 compression algorithm is an Industry Standard

2.12 G.711 Compression Algorithm is an Industry Standard

3. ORDER OF PRECEDENCE: This General Construction Specifications document will have priority over, and supersede, anything contained in the Project Plans.

4. QUALIFICATIONS: Vendor, or Vendor's staff if requirements are inherently limited to individuals rather than corporate entities, shall have the following minimum qualifications:

4.1 Experience: Vendor, or Vendor's supervisory staff assigned to this project, must have successfully completed at least **10 (ten)** projects that involved work similar to that described in these specifications or the Project Plans. Compliance with this experience requirement will be determined prior to contract award by the State through references provided by the Vendor upon request, through knowledge or documentation of the Vendor's past projects, through confirmation of experience requirements from the architect assisting the State in this project, or some other method that the State determines to be acceptable. Vendor must provide any documentation requested by the State to assist in confirmation of compliance with this provision. References, documentation, or other information to confirm compliance with this experience requirement may be requested after bid opening and prior to contract award.

4.2 The Contractor shall be a firm normally employed in the low voltage and video cabling industry.

REQUEST FOR QUOTATION
CRFQ VNF1800000003
Closed Circuit Television System

- 4.3 The Vendor must be certified by the manufacturer of the products, adhere to the engineering, installation and testing procedures and utilize the authorized manufacturer components and distribution channels for the equipment being installed.
- 4.4 All CCTV system components including but not limited to cameras, recorders, computers, servers, workstations, network equipment, power equipment, and accessories shall be installed, configured, and commissioned by personnel fully certified and authorized by the CCTV system manufacturer.
- 4.5 The CCTV system manufacturer should use a quality control system registered to the ISO 9001 Quality Standard. (define in Section 2)

5. CONTRACT AWARD: The Contract is intended to provide Agency with a purchase price for the Construction Services. The Contract will be awarded to the lowest qualified responsible bidder meeting the required specifications. If the Pricing Pages contain alternates/add-ons, the Contract will be awarded based on the grand total of the base bid and any alternates/add-ons selected.

6. SELECTION OF ALTERNATES: If the Pricing Pages contain alternates/add-ons, the alternates/add-ons will be selected as follows. The alternate/add-on will be selected in the order of priority listed on the Pricing Pages. The first alternate/add-on must be selected before the second alternate/add-on can be selected and so on.

7. PERFORMANCE: Vendor shall perform the Construction Services in accordance with this document and the Project Plans.

8. SUBSTITUTIONS: Any substitution requests must be submitted in accordance with the official question and answer period described in the INSTRUCTIONS TO VENDORS SUBMITTING BIDS, Paragraph 4. Vendor Question Deadline. Vendors submitting substitution requests should submit product brochures and product specifications during the official question and answer period.

9. PROJECT PLANS: The checked box will apply to Project Plans for this solicitation.

☒ **No Additional Project Plan Documents:** There are no additional Project Plans other than those attached hereto as Exhibit B or any subsequent addenda modifying Exhibit B.

☐ **Additional Project Plan Documents:** There are additional Project Plan documents other than those attached as Exhibit B. Copies of the additional Project Plan documents not attached as Exhibit B can be obtained by contacting the entity identified below.

10. CONDITIONS OF THE WORK

REQUEST FOR QUOTATION
CRFQ VNF1800000003
Closed Circuit Television System

10.1 Permits: The Vendor shall procure all necessary permits and licenses to comply with all applicable Federal, State, or Local laws, regulations and ordinances of any regulating body.

10.2 Existing Conditions: If discrepancies are discovered between the existing conditions and those noted in the specifications, Vendor must immediately notify the Agency's representative. Vendor must also immediately notify the Agency if suspected hazardous materials are encountered.

10.3 Standard Work Hours: The standard hours of work for this Contract will be Monday – Friday 8:00 am to 4:00 pm EST. excluding holidays recognized by the State of West Virginia. Any work outside of the standard hours of work must be approved in advance at the Agency's sole discretion. Authorization of work outside of the standard hours of work will not entitle Vendor to additional compensation.

10.4 Project Closeout: Project Closeout shall include the following:

10.4.1 Final Cleanup: Vendor shall perform the final cleanup activities listed below, along with any other final cleanup activities normally associated with the work performed under this Contract, prior to final inspection:

10.4.1.1 All wiring shall meet state and federal guidelines.

10.4.1.2 Software shall meet guidelines set forth in Specification.

10.4.1.3 All equipment in operable condition in accordance with this contract

10.4.2 Final Inspection: Vendor shall participate in a final inspection with the Agency's project manager. The purpose of the final inspection will be to identify deficiencies that need to be remedied prior to Agency's final acceptance of the work. Vendor shall at all times be obligated to perform in accordance with the Contract and must take all actions necessary to ensure that work complies with requirements of Contract prior to final acceptance. Final acceptance does not waive or release Vendor from its obligation to ensure that work complies with the Contract requirements. Vendor shall submit any warranty documents to the Agency project manager at final inspection.

REQUEST FOR QUOTATION
CRFQ VNF1800000003
Closed Circuit Television System

11. FACILITIES ACCESS: Performance of Contract Services may require access cards and/or keys to gain entrance to Agency's facilities. In the event that access cards and/or keys are required:

11.1 Vendor must identify principal service personnel which will be issued access cards and/or keys to perform service.

11.2 Vendor will be responsible for controlling cards and keys and will pay replacement fee, if the cards or keys become lost or stolen.

11.3 Vendor shall notify Agency immediately of any lost, stolen, or missing card or key.

11.4 Anyone performing under this Contract will be subject to Agency's security protocol and procedures.

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

12. MISCELLANEOUS:

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

Contract Manager: John Kuhn

Telephone Number: 304.872.4868

Fax Number: 304.872.3634

Email Address: jkuhn@easterelectricllc.com

RFQ No. VFN1800000003

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

MANDATE: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

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

DEFINITIONS:

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

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

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

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

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: Eastern Electric, LLC
Authorized Signature: Michael C. Poth Date: 9/19/17

State of WV

County of Nicholas, to-wit:

Taken, subscribed, and sworn to before me this 19th day of September, 2017.

My Commission expires April 9, 2019, 20 .

AFFIX SEAL HERE



OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC

Kristin Moores
Eastern Electric
PO Box 92
Mount Nebo, WV 26679
My Commission Expires April 9, 2019

NOTARY PUBLIC

Kristin Moores

Purchasing Affidavit (Revised 07/01/2012)



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

STATE OF WEST VIRGINIA,

COUNTY OF Nicholas, TO-WIT:

I, Michael Pratt, after being first duly sworn, depose and state as follows:

1. I am an employee of Eastern Electric, LLC; and,
(Company Name)
2. I do hereby attest that Eastern Electric, LLC
(Company Name)

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

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

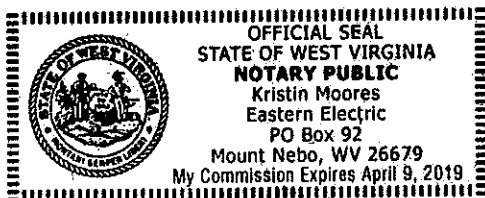
Printed Name: Michael Pratt
Signature: Michael C Pratt
Title: President
Company Name: Eastern Electric, LLC
Date: 9/19/17

Taken, subscribed and sworn to before me this 19th day of September, 2017.

By Commission expires April 9, 2019

(Seal)

Kristin Moores
(Notary Public)





IndigoVision

BX RANGE

30x
Optical



4MP PTZ Dome Camera

High-end: performance, not price tag.

With BX 4MP PTZ Dome Cameras you get supreme connectivity and flexibility, combined with great video and audio. You also get maximum reliability, and the other significant benefits of IndigoVision's Distributed Network Architecture. BX 4MP PTZ Dome Cameras deliver a different dimension of safety when combined with IndigoVision's Control Center.

Key Features

SENSOR



COMPRESSION



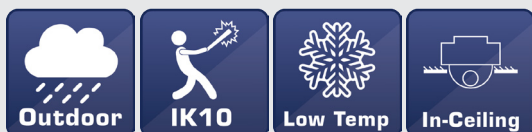
INTELLIGENCE



OTHER



PHYSICAL

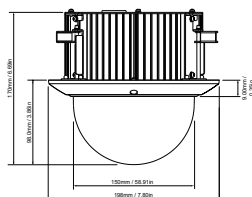


Product Codes

BX520 4MP PTZ Dome Camera	Camera
In-Ceiling 4MP PTZ Dome	611500
Environmental Pendant 4MP PTZ Dome	611560

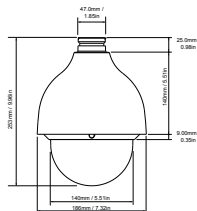
Product Code 66xxxx also available to order consisting of 61xxxx Product Code plus Enhanced Management Software License.

Dimensions - In-Ceiling PTZ Dome



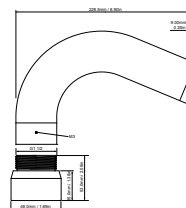
View on Side Face

Dimensions - Environmental Pendant PTZ Dome

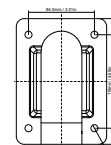


View on Side Face

Dimensions - Wall Mount



View on Side Face



View on Front Face

Specification

Camera Features	
Sensor	1/2.8" Progressive CMOS
Active Pixels (HxV)	4MP (2560 x 1440)
Horizontal Resolution	> 900 TVL
Minimum Sensitivity	Day: 0.05 Lux (colour). Night: 0.01 Lux (mono). 30 IRE, F1.6, 1/10s shutter
Dynamic Range	WDR 100dB Max
Gain Control	Auto/Manual setting
Back Light Compensation	On/Off
White Balance Mode	Auto/Manual
Day/Night	True Day/Night with Mechanical IR Cut Filter
Video Resolution	2560 x 1440 pixels (4MP); 1920x1080 pixels (1080p); 1280x720 pixels (720p); 720x576 pixels (D1); 352x288 pixels (SIF)
Signal/Noise Level	> 50dB
Lens Options	4.3mm - 129mm Horizontal view angle 66.5°(W) 3.25° (T), F1.6 to F4.4, Auto focus with manual override
Zoom	30x optical + 10x digital
Iris Control	Auto with manual override
Shutter	Rolling; Auto from 1 - 1/10000 sec
Exposure Control	Auto/Manual/Slow AE/Shutter-priority/Iris-priority
Video Compression	Full frame rate, full colour: H.264/MJPEG ; up to 60fps (ISO 14496-10)
Video Bit Rate	User-configurable bit rates from 64Kbps up to 8Mbps
Video Multi-Streaming	Up to 32Mbps total video output; Unlimited multicast connections. Up to four 8Mbps unicast connections; Up to sixteen 1Mbps unicast connections
Video Multi-Encoder	Up to three simultaneous resolutions including: 4MP (30fps), 1080p (60fps), 720p (30fps), D1 (30fps), SIF (30fps)
Video Analytics	Motion Detection, Hooded, Tripwire, Intrusion
Audio Compression	G.711
Audio Bit Rate	32Kbps per channel
Audio Resolution	Full Duplex 8kHz sample rate. Mono Input, Mono Output
Audio Input	Line in
Audio Output	Line out
Binary Input/Output	2 Pull up inputs for non powered contacts; 1 solid state opto-isolated relay output, Max 24V, 500mA
Network Interface	IEEE802.3 and IETF standards: 10/100 Base-T Ethernet, TCP, UDP, RTP, RTSP, ICMP, IGMP, SNMP, HTTP, HTTPS, PPPoE, uPnP, QoS, DHCP
Network Security	HTTPS / IP Filter / IEEE 802.1x
Time	Embedded real-time clock, NTP client
SD Storage	microSDHC 128GB support (card not included)*
Regulatory	EN 55022 Class A, EN 61000-3-2, EN 61000-3-3, AS/NZS CISPR 22, FCC Part 15 Subpart B Class A, EN 50130-4, UL 60950-1, UL 60950-22, AS/NZS CISPR 24, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11
IndigoVision Software Requirements	Control Center v13.2 or later
ONVIF	Profile S

PTZ Control			
Preset	300	Pan Range	360° Continuous Rotation
Preset Tours	8	Tilt Range	180°
Pattern/Mimic Tours	5	Pan/Tilt Speed	Pan Speed - 0.5-350°/s. Tilt Speed - 0.5-250°/s
Privacy Zones	24 User Defined	Pan/Tilt Warranty	Moving part warranty limited to 2 million Pan and Tilt Operations

Camera Features	In-Ceiling	Environmental Pendant
Dimensions/Weight	198mm (dia) x 170mm (h) and 2.2Kg / 7.80in (dia) x 6.69in (h) and 4.850lb	186mm (dia) x 253mm (h) and 2.5Kg / 7.32in (dia) x 9.25in (h) and 5.512lb
Housing	Vandal resistant aluminium alloy and Polycarbonate/ABS housing and clear polycarbonate dome including 400mm cable bundle	Vandal resistant aluminium alloy housing and clear polycarbonate dome including 500mm cable bundle
Protection Rating	IK10 (IEC62262)	IP67/IK10 (IEC 62262)
Electrical	PoE + (802.3at Class 4) or 24V AC, 13W. Power supply ordered separately (Product code: 130176)	Camera Only: PoE + (802.3at Class 4) or 24V AC, 13W. Power supply ordered separately (Product code: 130176) Camera with Heater: PoE + (802.3at Class 4) or 24V AC, 23W. Power supply ordered separately (Product code: 130176)
Operating Temperature	-10°C to 60°C (14°F to 140°F)	-20°C to 60°C (-4°F to 140°F) (PoE+ Power); -40°C to 60°C (-40°F to 140°F) (24V AC Power)
Cold Start	-10°C (14°F)	-20°C (-4°F)
Supplied Accessories	N/A	Wall Mount bracket

* SD Card Storage independent of IndigoVision's NVRs.



IndigoVision

BX RANGE



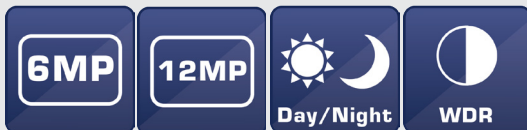
Fisheye Camera

Amazing Megapixel video that delivers detail from every angle

Part of IndigoVision's professional BX Range, the Fisheye Camera delivers 360° visibility with pin-sharp detail. When used as part of IndigoVision's end-to-end system, any single point of failure is removed through IndigoVision's Distributed Network Architecture (DNA) technology.

Key Features

SENSOR



COMPRESSION



INTELLIGENCE



OTHER



PHYSICAL

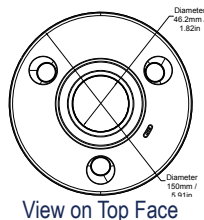


Product Codes

Fisheye Camera	Camera
6MP Fisheye Camera with Built-In IR Illuminator	612740
12MP Fisheye Camera with Built-In IR Illuminator	614740

Product Code 66xxxx also available to order consisting of 61xxxx Product Code plus Enhanced Management Software License.

Dimensions



View on Top Face



View on Side Face

Specification

Camera Features	6MP	12MP
Sensor	1/1.8" Progressive CMOS	1/2.3" Progressive CMOS
Active Pixels (HxV)	6 MP (3072x2048)	12 MP (4000x3000)
Horizontal Resolution	> 800 TVL	> 1000 TVL
Minimum Sensitivity	Day: 0.01 lux (color). Night: 0.005 lux (mono). 30 IRE, F2.0, 1/30s shutter	Day: 0.01 lux (color). Night: 0.005 lux (mono). 30 IRE, F2.2, 1/30s shutter
Lens Options	1.55mm, Horizontal view angle 185°x185°, F2.0, Fixed Iris	1.57mm, Horizontal view angle 185°x185°, F2.2, Fixed Iris
Dynamic Range	WDR 100dB Max	
Gain Control	Auto/Manual setting	
Back Light Compensation	On/Off	
White Balance Mode	Auto/Manual	
Day/Night	True Day/Night with Mechanical IR Cut Filter	
IR Illuminator	Built-in IR Illuminator 850nm wavelength, effective distance >10m	
Video Resolution	4000x3000 pixels (12MP)*; 2880x2880 pixels (8MP)*; 2880x2160 pixels (6MP); 2048x1536 pixels (3MP); 704x576 pixels (D1); 704x480 pixels (D1) 352x288 pixels (SIF); 352x240 pixels (SIF)	
Signal/Noise Level	> 50dB	
Shutter	Rolling: Auto from 1/3 - 1/10,000 sec	
Exposure Control	Auto/Low Noise/Low Motion Blur/Manual	
Video Compression	Full frame rate, full color: H.264/MJPEG ; up to 30fps (ISO 14496-10)	
Privacy Zones	4 User Defined	
Video Bit Rate	User-configurable bit rates from 40Kbps up to 10Mbps	
Video Multi-Streaming	Up to 32Mbps total video output; Unlimited multicast connections. Up to four 8Mbps unicast connections; Up to sixteen 1Mbps unicast connections	
Video Multi-Encoder	Edge Dewarping: Dual Streaming 3MP (2048 x 1536) @ 30fps + D1/SIF @ 30fps Native: Dual Streaming 12MP (4000x3000)* @ 15fps + D1/SIF @ 30fps or 3MP 2048x1536 pixels + or 6MP (3072 x 2048) @ 30fps + 720P @ 30fps	
Video Analytics	Motion Detection, Hooded, Tripwire, Intrusion	
Audio Compression	G.711	
Audio Bit Rate	32Kbps per channel	
Audio Resolution	Full Duplex, 8kHz or 16KHz sample rate. Mono Input, Mono Output	
Audio Analytics	Audio Detection	
Audio Input	Built-in microphone or Line in, RCA connector	
Audio Output	Line out, RCA connector	
Binary Input/Output	2 Pull up inputs for non powered contacts; 1 solid state opto-isolated relay output, Max 24V, 500mA	
Network Interface	IEEE802.3 and IETF standards: 100/1000 Base-T Ethernet, IPv4/IPv6, TCP, UDP, RTP, RTSP, ICMP, IGMP, SNMP, HTTP, HTTPS, SSH, PPPoE, uPnP, QoS, DHCP	
Network Security	HTTPS / IP Filter / IEEE 802.1x	
Time	Embedded real-time clock, NTP client	
SD Storage	microSDHC 128GB support (card not included)**	
Dimension/Weight	150mm (dia) x 47.7mm (h) and 0.58Kg / 5.91in (dia) x 1.88in (h) and 1.28lb	
Regulatory	EN 55022 Class A, EN 61000-3-2, EN 61000-3-3, FCC Part 15 Subpart B Class A, EN 50130-4, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11, IEC60068-2-27 (Shock), IEC60068-2-6 (Sine Vibration), UL60950-1	
Housing	White vandal resistant aluminium alloy including 500mm cable bundle	
Protection Rating	IP67, IK10 (IEC 62262)	
Electrical	Camera only: PoE (802.3af Class 0) or 12V DC @ 1.1A; 13W Power supply ordered separately (Product code: 110064; 130176)	
Operating Temperature	-30°C to 60°C (-22°F to 140°F)	
Cold Start	-30°C (-22°F)	
IndigoVision Software Requirements	Control Center v13.2 or later	
ONVIF	Profile S	

* 12MP and 8MP resolution only available on 12MP variant. **SDCard Storage independent of IndigoVision's NVRs.



IndigoVision



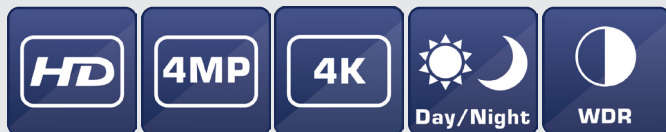
Minidome Cameras

High-end: performance, not price tag.

With BX HD, 4MP and 4K Minidome Cameras you get supreme connectivity and flexibility, combined with great video and audio. You also get maximum reliability, and the other significant benefits of IndigoVision's Distributed Network Architecture. BX HD, 4MP and 4K Minidome Cameras deliver a different dimension of safety when combined with IndigoVision's Control Center.

Key Features

SENSOR



COMPRESSION



INTELLIGENCE



OTHER



PHYSICAL

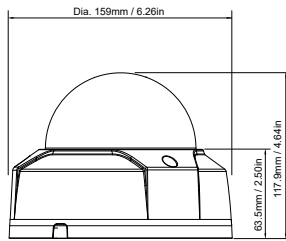


Product Codes

Minidome Camera	Camera
Vandal Resistant HD Minidome Camera	610440
Environmental Vandal Resistant HD Minidome Camera	610460
Vandal Resistant 4MP Minidome Camera	611440
Environmental Vandal Resistant 4MP Minidome Camera	611460
Environmental Vandal Resistant 4K Minidome Camera	614460

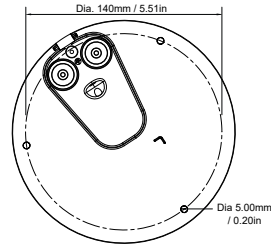
Product Code 66xxxx also available to order consisting of 61xxxx Product Code plus Enhanced Management Software License.

Dimensions - Minidome Camera



View on Side Face

Dimensions - Hole Mounting Pattern



View on Bottom Face

Specification

Camera Features	HD	4MP	4K
Sensor	1/3" Progressive CMOS	1/3" Progressive CMOS	1/1.7" Progressive CMOS
Active Pixels	HD (1920x1080)	4 MP (2560x1440)	12 MP (4000 x 3000)
Horizontal Resolution	> 800 TVL	> 1000 TVL	> 1200 TVL
Minimum Sensitivity	Day: 0.01 Lux (colour). Night: 0.001 Lux (mono). 30 IRE, F1.4, 1/30s shutter	Day: 0.01 Lux (colour). Night: 0.001 Lux (mono). 30 IRE, F1.4, 1/15s shutter	Day: 0.05 Lux (color). Night: 0.005 Lux (mono). 30 IRE, F1.4, 1/15s shutter
Dynamic Range	WDR > 120dB		WDR > 100dB
Gain Control	Auto/Manual setting		
Back Light Compensation	On/Off		
White Balance Mode	Auto/Manual		
Day/Night	True Day/Night with Mechanical IR Cut Filter		
IR Illuminator	Built-in IR Illuminator 850nm wavelength, effective distance >50m		
Video Resolution	4000x3000 pixels (12MP)**; 4096x2160 pixels (8MP)**; 3840x2160 pixels (8MP)**; 3072x2048 pixels (6MP)**; 2560x1440 pixels (4MP)*; 2304x1296 pixels (3MP)*; 1920x1080 pixels (HD); 1280x960 pixels (1.3MP); 1280x720 pixels (720p); 704x576 pixels (D1); 704x480 pixels (D1) 352x288 pixels (SIF); 352x240 pixels (SIF)		
Signal/Noise Level	> 50dB		
Lens Options	HD & 4MP: 2.7mm - 12mm, Horizontal view angle 100° (W) 33° (T), F1.4, Vari-focal, M14 mount with Remote Zoom/Focus 4K: 4.1mm - 16.4mm, Horizontal view angle 106° (W) 32° (T), F1.4, Vari-focal, M14 mount with Remote Zoom/Focus		
Shutter	Rolling: Auto from 1/3 - 1/10,000 sec		
Exposure Control	Auto/Low Noise/Low Motion Blur/Manual		
Video Compression	Full frame rate, full colour: H.264/MJPEG ; up to 30fps (ISO 14496-10)		
Privacy Zones	4 User Defined		
Video Bit Rate	User-configurable bit rates from 64Kbps up to 10Mbps		
Video Multi-Streaming	Up to 32Mbps total video output; Unlimited multicast connections. Up to four 8Mbps unicast connections; Up to sixteen 1Mbps unicast connections		
Video Multi-Encoder	Up to two simultaneous resolutions including: 12MP (20fps)**; 4K(30fps)**; 4MP(30fps)**; 4MP (20fps)*; 3MP (30fps)*; 1080p (30fps), 720p (30fps), D1 (30fps), SIF (30fps)		
Video Analytics	Motion Detection, Hooded, Tripwire, Intrusion, Abandoned, Missing		
Audio Compression	G.711		
Audio Bit Rate	32Kbps per channel		
Audio Resolution	Full Duplex, 8kHz or 16kHz sample rate. Mono Input, Mono Output		
Audio Analytics	Audio Detection		
Audio Input	Line in, terminal block connector		
Audio Output	Line out, terminal block connector		
Binary Input/Output	1 Pull up input for non powered contacts; 1 Solid state open collector output, Max 5.0V, 30mA		
Network Interface	IEEE802.3 and IETF standards: 10/100 Base-T Ethernet, IPv4/IPv6, TCP, UDP, RTP, RTSP, ICMP, IGMP, SNMP, HTTP, HTTPS, SSH, PPPoE, uPnP, QoS, DHCP		IEEE802.3 and IETF standards: 100/1000 Base-T Ethernet, IPv4/IPv6, TCP, UDP, RTP, RTSP, ICMP, IGMP, SNMP, HTTP, HTTPS, SSH, PPPoE, uPnP, QoS, DHCP
Network Security	HTTPS / IP Filter / IEEE 802.1x		
Time	Embedded real-time clock, NTP client		
SD Storage	microSDHC 128GB support (card not included)***		
Dimension/Weight	159mm (dia) x 117.9mm (h) and 0.8Kg / 6.26in (dia) x 4.64in (h) and 1.764lb		
Regulatory	EN 55022 Class A, EN 61000-3-2, EN 61000-3-3, FCC Part 15 Subpart B Class A, EN 50130-4, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11, IEC60068-2-27 (Shock), IEC60068-2-6 (Sine Vibration), UL60950		
Housing	White vandal resistant aluminium alloy with clear polycarbonate dome		
Protection Rating	IP67, IK10 (IEC 62262)		
IndigoVision Software Requirements	Control Center v14.1 or later (4K); Control Center v13.2 or later (HD & 4MP)		
ONVIF	Profile S		
Camera Features	HD & 4MP Vandal Resistant	HD & 4MP Environmental Vandal Resistant	4K Environmental Vandal Resistant
Operating Temperature	-20°C to 60°C (-4°F to 140°F)	-40°C to 60°C (-40°F to 140°F)	-40°C to 60°C (-40°F to 140°F)
Cold Start	-20°C (-4°F)	-30°C (-22°F)	-30°C (-22°F)
Electrical	Camera only: PoE (802.3af Class 0) or 12V DC @ 0.33A; 4W. Power supply ordered separately (Product code: 110064; 130176)	Camera only: PoE (802.3af Class 0) or 12V DC @ 0.33A; 4W. Camera including heater: PoE (802.3af Class 0) or 12V DC @ 1.0A; 12W. Power supply ordered separately (Product code: 110064; 130176)	Camera only PoE+ (802.3af Class 4) or 12V DC/24V AC, 9W Camera including heater: PoE+ (802.3af Class 4) or 12V DC/24V AC, 19W. Power supply ordered separately (Product code: 110064; 130176)

* 4MP and 3MP resolution only available on 4MP variant. ** 12MP, 4K and 4MP (30fps) resolution only available on 4K variant *** SDCard Storage independent of IndigoVision's NVRs.



IndigoVision



Control Center IndigoUltra®


Your security solution of choice.

Control Center IndigoUltra® merges your choice of products, allowing a custom-tailored integrated system design. Performing reliably on any scale IndigoUltra® allows for quickest response times and accurate incident management.

With IndigoVision's Distributed Network Architecture, IndigoUltra® supports an unlimited number of client workstation installs and NVRs connected to the system; supporting continuous system growth whatever the future might bring.

Control Center is IndigoVision's effective, scalable and robust security management solution. It has an intuitive interface that provides easy system setup and efficient administration which save you both time and money. Relentless testing and quality control 365 days a year ensure strong foundations for a robust, trusted security management offering.

IndigoUltra® delivers:

-  Unlimited Device Connections
-  Unlimited Client Workstations
-  Unlimited NVR Connections

Product Codes

Control Center	
IndigoVision Product CD - Control Center Software	340003
IndigoUltra® Single Device Connection License	340000-U
IndigoPro® to IndigoUltra® - Upgrade Single Device Connection License	345000-PU
IndigoLite® to IndigoUltra® - Upgrade Single Device Connection License	345000-LU
IndigoUltra® - Migration with active SUP - Single Device Connection License	341003-U
IndigoUltra® - Migration - Single Device Connection License	341000-U
IndigoUltra® - Demo - Single Device Connection License	346003-U

INDIGO **ULTRA®**

Specification

General Specification	
Number of Device Connections	Unlimited
Number of Client Workstations	Unlimited
Number of NVR-AS Connections	Unlimited
Live Video	100 video streams (25 per screen)
PTZ Control	✓
Audio	Receive / Record / Transmit*
Video Resolutions	up to 20MP*
Video Compression Formats	MPEG-4* / H.264* / MJPEG* / JPEG2000*
Audio Compression Formats	AAC* / G.711*
Snapshots	BMP / JPEG
Privacy Zones	✓
Sequences, Salvos and Guard Tours	✓
Pursuit Mode	✓
Video Wall	✓
Playback	25 streams
Synchronised Playback	✓
Reverse Playback	✓
Thumbnail Overview	Time / Alarm / Bookmark / Motion* / Audio*
Incident Export	Incident Player / 3rd Party Player (.mp4)*
Recording Schedules	✓
Failover / Redundancy	✓
Automatic NVR Switching	✓
Watermarking	Digital watermarking on recording and export
Maps	Multi-layered maps (BMP / JPEG / PNG / DWG), Tile Server
Webpages	✓
Zones	Group multiple inputs into a single alarm
Event Inputs	Binary* / Analytics* / Network Loss / Video Loss* / Motion Detection*
Alarm Video	Live and looped replay / Pre-alarm video / Alarm Groups
Actions on Event	Record / Email / Snapshot* / Move to Preset / Relay Output* / Audio*
Alarm Schedules	✓
Alarm Reports	✓
Bookmarking	✓
Motion and Audio Search	✓
Alarm and Bookmark Search	✓
Third Party Inputs	Through IndigoVision Integration Modules or IndigoVision Binding Kit
Integrated Data	Manage millions of data records from LPR, EPOS and other integrations
Alarm Escalation	✓
Alarm Procedure Documents	HTML / Text / URL
System Alerts	✓
Audit Log	✓
Architecture	DNA (Distributed Network Architecture)
Segmented Databases	✓
User Groups	✓
Access Permissions	Object and function based permissions
User Authentication	Windows authentication / Basic password
PC Monitors	4
Keyboard Support	IndigoVision / Pelco / American Dynamics / Panasonic
Multiple Languages	10+ languages including: English, Chinese, French, German, Spanish
Matrix Numbering	1 - 9,999,999
Network Connection Types	TCP / UDP Unicast / UDP Multicast
Device Discovery	✓
Timezones	✓
Supported Cameras and Encoders	IndigoVision Ultra, BX and GX camera ranges, 9000 Range Encoders, FrontLine, Camera Gateway and 3rd Party Cameras**
Industry Open Standards	ONVIF Profile S
License Mechanism	Software License Key
Control Center Supported Operating Systems	Windows 10 ® 64-bit, Windows 8.1 ® 64-bit, Windows 8 ® 64-bit, Windows 7 ® 64-bit
Windows NVR-AS Supported Operating Systems	Windows Server 2012 R2 ®, Windows Server 2012 ®, Windows Server 2008 R2 ®, Windows 10 ® 64-bit, Windows 7 ® 64-bit
License Server Supported Operating Systems	Windows Server 2012 R2 ®, Windows Server 2012 ®, Windows Server 2008 R2 ®, Windows 10 ® 64-bit, Windows 7 ® 64-bit. The License Server is also available as part of the IndigoVision NVR-AS 4000 Linux appliances.

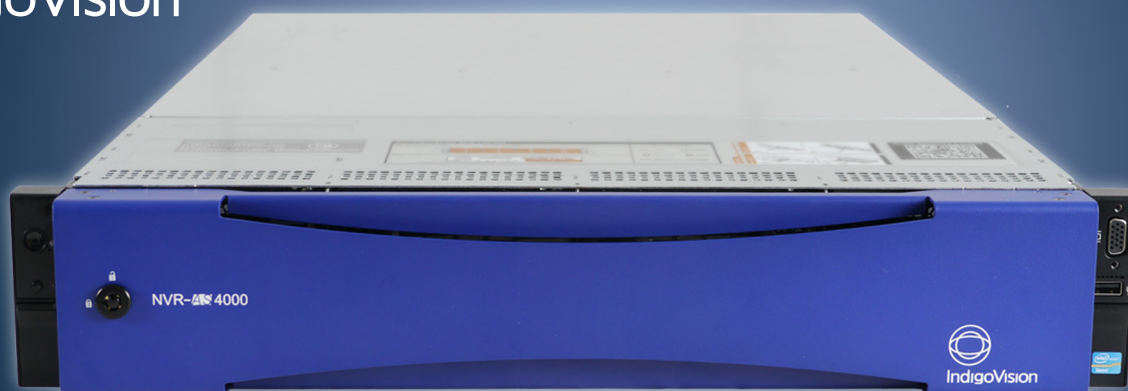
* Features may vary based on capabilities of the camera or encoder model. Please refer to the relevant product datasheets for details.

** Please see our Control Center Supported 3rd Party Cameras list for full details.



IndigoVision

NVR-AS 4000 RANGE



Enterprise NVR-AS

Enterprise Recording. Intelligently Designed.

With double the performance of the nearest alternative, the IndigoVision Enterprise NVR-AS can record up to 200 cameras, has data throughput of 2 Gbps and up to 112TB usable storage. Guaranteed tamper free evidence, automatic failover and integrated backup. Available with Windows or Linux, the Enterprise NVR-AS can also integrate other security systems for complete alarm management and has recording support for multiple camera manufacturers.

Key Features

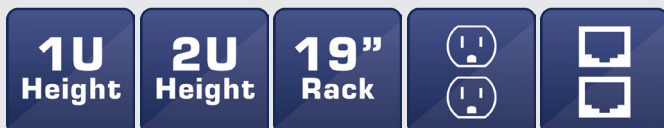
COMPRESSION



OTHER



PHYSICAL



STORAGE



Product Codes

100 Channel	Windows	Linux
Enterprise NVR-AS RA6TB	980455	980555
Enterprise NVR-AS RA12TB	980456	980556
Enterprise NVR-AS RA24TB	980458	980558
200 Channel	Windows	Linux
Enterprise NVR-AS RA40TB	980450	N/A
Enterprise NVR-AS RA60TB	980451	980578
Enterprise NVR-AS RA112TB	980453	980553

Specification

General Specification		100 Channel			200 Channel		
Form Factor		1U	1U	1U	2U	2U	2U
Disk Space (TB)		6	12	24	40	60	112
Recording Hard Drive Bays		4 (Hot-swappable)			12 (Hot-swappable)		16 (Hot-swappable)^
Operating System Hard Drive Bays		On recording hard drives			Dual redundant separate mirrored drives configured as RAID1		
RAID Controller		Hardware RAID Controller configured as RAID5			Hardware RAID Controller with Flash Backed Cache configured as RAID6		
Performance (Streams)		100 Recording plus simultaneous playback of 25 streams^			200 Recording plus simultaneous playback of 25 streams^		
Performance (Throughput)		128 Mbps in; 200 Mbps out; 328 Mbps total^			100/1000 Mbps Ethernet: 500 Mbps in; 200 Mbps out; 700 Mbps total^ 10 Gbps Ethernet: 1.6 Gbps in; 400 Mbps out; 2.0 Gbps total^		
Network Interface		Dual Port Redundant 100/1000 BaseT RJ-45 Connections, configured as an 802.1ax LACP aggregated group			Windows: Dual Port Redundant 10GB DA/SFP+ and Dual Port Redundant 100/1000 BaseT RJ-45 Connections, configured as an 802.1ax LACP aggregated group Linux: Quad Port Redundant 100/1000 BaseT RJ-45 configured as an 802.1ax LACP aggregated group		
Dimensions/Weight		497mm (d) x 434mm (w) x 43.0mm (h) and 9.51Kg / 19.57in (d) x 17.09in (w) x 1.69in (h) and 20.966lb			719.5mm (d) x 444mm (w) x 87.5mm (h) and 36.5Kg / 28.33in (d) x 17.48in (w) x 3.44in (h) and 80.469lb		
Electrical		250W, 100-240VAC, 50/60 Hz, Auto Switching, Single PSU, Secondary Dual-Redundant Hot Swap PSU not supported			750W, 100-240VAC, 50/60 Hz, Auto Switching, Single Hot Swappable PSU, Secondary Dual-Redundant Hot Swap PSU support		
Processor		100 Channel - Intel Xeon E3 200 Channel - Intel Xeon E5					
Windows				Linux			
Operating System		Windows Server® 2012 R2 for Embedded Systems Essentials			IndigoVision NVR Appliance Operating System		
System Management		100 Channel - iDRAC8 Basic 200 Channel - iDRAC8 Express					
Memory		Windows 100 Channel - 8GB RAM DDR4, 200 Channel - 16GB RAM DDR4			8GB RAM DDR4		
Automatic Storage Management		Policy based management options for automatic deletion or protection of old footage					
Recording Hard Drive		3.5in Nearline SATA					
Network Security		Enhanced Windows Server 2012 Firewall, Network Access Protection (NAP)			SSH, SFTP, Embedded Linux Firewall		
Regulatory		EN 60950-1, IEC 60950-1, EN 55022, CISPR 22, EN 61000-3-2, EN 55024, IEC 61000-3-2 (Class D), EN 61000-3-3, IEC 61000-3-3, CISPR 24					
Housing		Mild Steel Chassis and Fascia					
Operating Temperature		10°C to 35°C (50°F to 95°F)					
Supplied Accessories		Rack Mount Kit (brackets, static rails and mounting hardware), removable lockable fascia, PDU power cord and USB restore media^					
Onboard Diagnostics		Fault alarm notification within Control Center for RAID degradation, fans, redundant power supplies and redundant network faults. Additionally, embedded monitoring tools provide detailed fault diagnosis for RAID arrays, controllers, enclosures and temperature faults.					
Control Center Licensed Features							
The availability of the following NVR features varies based on the Control Center software product the NVR is connected to**							
Licensing		IndigoVision NVR appliances do not need a separate license. Video from any connected camera or encoder to the system can be recorded					
Video		Simultaneously record and playback full frame rate, full resolution video streams from any connected IndigoVision IP Camera or Encoder. Record and playback from other devices including ONVIF Profile S conformant cameras and encoders as well as devices integrated via Camera Gateway™					
Audio		Recording and playback of AAC and G.711 audio*					
Thumbnails		Indexed recordings for rapid display of time-based, alarm-based or motion-based thumbnails					
Alarms		Recording and logging of alarms and events					
Bookmarks		Recording and logging of bookmarks in association with recordings					
Integrated Data		Recording and logging of millions of data records from LPR, EPOS and other integrations					
Analytics		Recording and playback of motion analysis data from cameras*					
Redundancy and Failover		Full DNA support, sophisticated failover and mirroring strategies amongst multiple NVRs for increased resilience and redundancy					
Digital Watermarking		Digital signing at point of recording and at export					

* Features may vary based on capabilities of camera model. ** Please check the Control Center datasheets for more information. ^ With or without Digital Watermarking enabled.

^^ 16 Bay Chassis has 12 Hard Drive Bays accessible from front of chassis and 4 Internal Hard Drive Bays accessible from the top panel of chassis.

*** 16 Bay Chassis Rack Mount Kit includes sliding rail system with cable management.

Accessories

Accessories	Product Code
Enterprise NVR-AS 2TB SATA Hard Disk Caddy & Disk	110302
Enterprise NVR-AS 3TB SATA Hard Disk Caddy & Disk	110303
Enterprise NVR-AS 4TB SATA Hard Disk Caddy & Disk	110304
Enterprise NVR-AS 6TB SATA Hard Disk Caddy & Disk	110306
Enterprise NVR-AS 8TB SATA Hard Disk Caddy & Disk	110308
Enterprise NVR-AS 8TB SATA Hard Disk Caddy & Disk (Internal Bay)	110328
Enterprise NVR-AS 200 Channel Redundant PSU	110016
Direct Attach twinax cable kit with SFP+ connectors - 1m	110351
Direct Attach twinax cable kit with SFP+ connectors - 3m	110352
Direct Attach twinax cable kit with SFP+ connectors - 5m	110353
10GBASE-SR fibre optic SFP+ transceiver	110361
Sliding rack rails with cable management arm	110300



IndigoVision

Dome Camera Mount & Accessory Matrix

	GX Range, GX420 HD Minidome	GX Range, GX420 HD Pan/Tilt Minidome	BX Range, BX420 Minidome Cameras	Ultra Range, Ultra 2K Fixed Dome		
						
Mount/Accessory	Vandal Resistant	Vandal Resistant	Vandal Resistant	Environmental Vandal Resistant	Internal	Vandal Resistant
In-Ceiling	130013	130013	130180, 130074	-	-	
Exit Collar	130011	130011	130072	-	-	
Wall Mount	130012	130018	-	-	-	
Bracket Wall Mount	-	-	-	-	110160	
Pendant Wall Mount*	-	-	-	-	110020	
Pendant Swan-Neck Mount*	-	-	-	-	110022	
Pendant Vertical Pole Mount*	-	-	130073	-	110024	
1.5" NPT Pendant Mount (Male)*	-	-	130075	-	110027	
1.5" NPT Pendant Mount (Female)*	-	-	-	-	110028	
Corner Mount Adaptor**	130184	130184	130184	-	110082	
Pole Mount Adaptor**	130083, 130183	130083, 130183	130083, 130183	-	110096 (Black)^ 110196 (Grey)^	
Power Supply	110064; 130176	110064; 130176	110064; 130176	110004; 110062; 130176	110060	
Cable	-	-	-	-	6m - 110171	

* Adaptors are compatible with the Pendant Wall Mount. + All Dome Pendant Mounts include a Pendant Sun Shroud as standard. ^ The Pole Mount Adaptor can take a 0.5in strap.

** Multiple poles can be connected to create lengths in multiples of 250mm

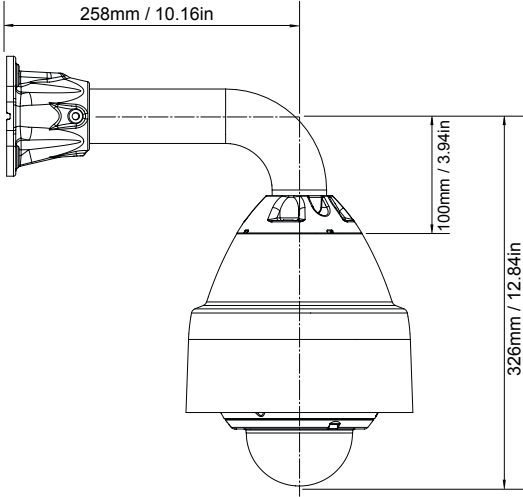
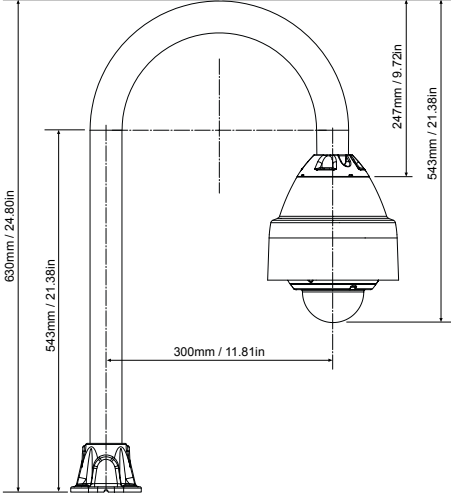
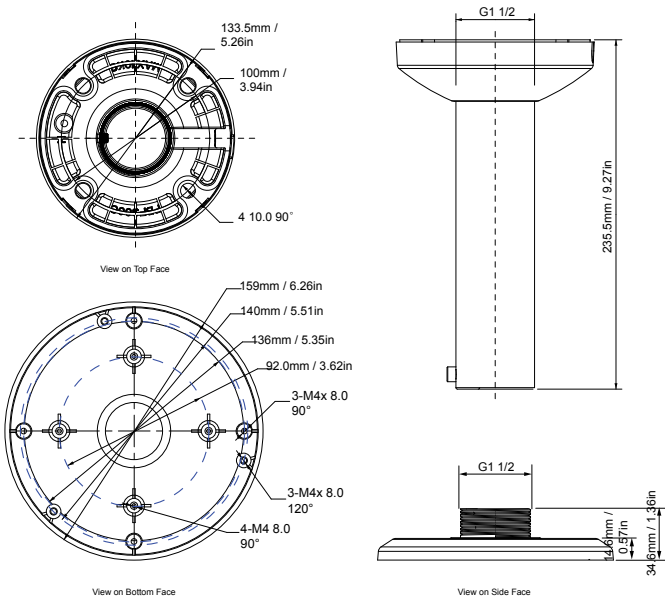
IndigoVision Dome Camera Mount & Accessory Matrix Appendix - Page 1

Mount Name	Camera Range	Dimensional Drawing	Product Codes
In-Ceiling Mount	GX Range		GX Range GX420 V.R - 130013
In-Ceiling Mount	BX Range		BX Range BX420 V.R - 130180 E.V.R - 130074
Exit Collar	GX Range		GX Range GX420 V.R - 130011
Exit Collar	BX Range		BX Range BX420 V.R - 130072 E.V.R - 130072

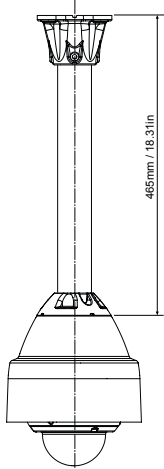
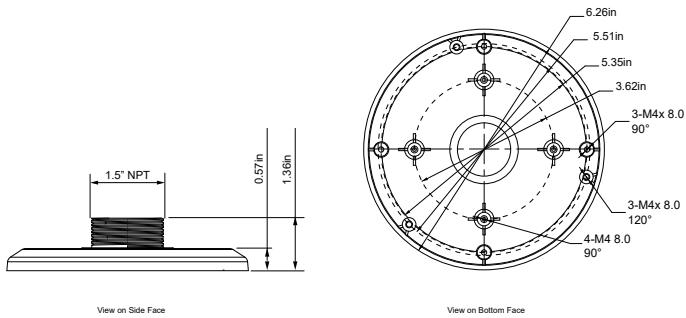
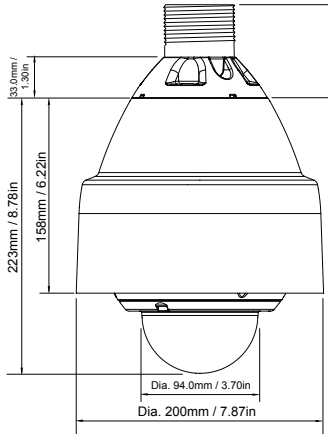
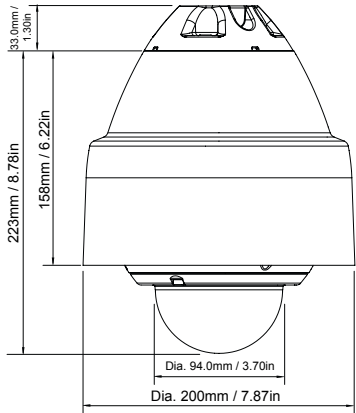
IndigoVision Dome Camera Mount & Accessory Matrix Appendix - Page 2

Mount Name	Camera Range	Dimensional Drawing	Product Codes
Wall Mount	GX Range		GX Range GX420 Minidome V.R - 130012
Wall Mount	GX Range		GX Range GX420 Pan/Tilt Minidome V.R - 130018
Wall Mount	BX Range		BX Range BX420 V.R - 130072 E.V.R - 130072
Bracket Wall Mount	Ultra Range		Ultra Range (Ultra 2K) V.R - 110160

IndigoVision Dome Camera Mount & Accessory Matrix Appendix - Page 3

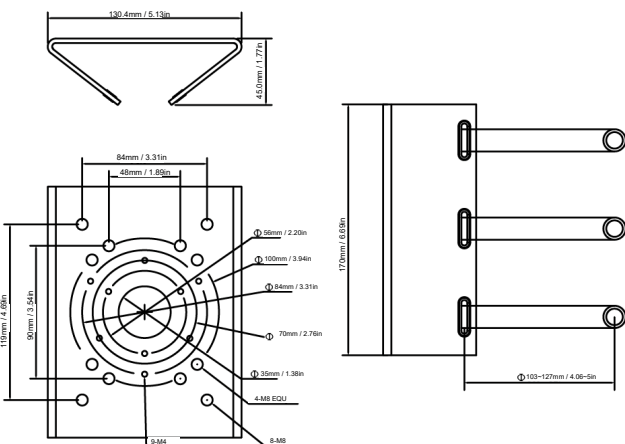
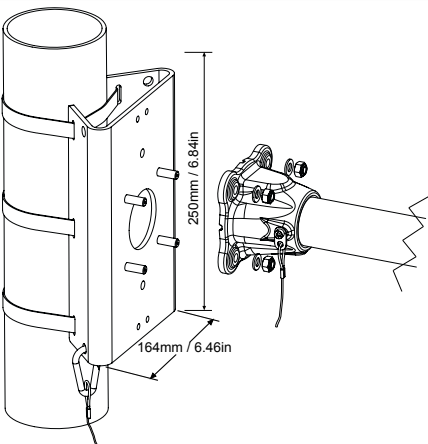
Mount Name	Camera Range	Dimensional Drawing	Product Codes
Pendant Wall Mount	Ultra Range		Ultra Range (Ultra 2K) V.R - 110020
Pendant Swan-Neck Mount	Ultra Range		Ultra Range (Ultra 2K) V.R - 110022
Pendant Vertical Pole Mount	BX Range		BX Range BX420 V.R - 130073 E.V.R - 130073

IndigoVision Dome Camera Mount & Accessory Matrix Appendix - Page 4

Mount Name	Camera Range	Dimensional Drawing	Product Codes
Pendant Vertical Pole Mount	Ultra Range		Ultra Range (Ultra 2K) V.R - 110024
1.5" NPT Pendant Mount (Male)	BX Range		BX Range BX420 V.R - 130075 E.V.R - 130075
1.5" NPT Pendant Mount (Male)	Ultra Range		Ultra Range (Ultra 2K) V.R - 110027
1.5" NPT Pendant Mount (Female)	Ultra Range		Ultra Range (Ultra 2K) V.R - 110028

IndigoVision Dome Camera Mount & Accessory Matrix Appendix - Page 5

Mount Name	Camera Range	Dimensional Drawing	Product Codes
Corner Mount Adaptor	GX Range, BX Range	<p>View on Front Face</p> <p>View on Side Face</p> <p>View on Top Face</p>	<p>GX Range GX420 V.R - 130184</p> <p>BX Range BX420 V.R - 130184 E.V.R - 130184</p>
Corner Mount Adaptor	Ultra Range		<p>Ultra Range (Ultra 2K) V.R - 110082</p>
Pole Mount Adaptor	GX Range, BX Range	<p>View on Front Face</p> <p>View on Side Face</p> <p>View on Top Face</p>	<p>GX Range GX420 V.R - 130083</p> <p>BX Range BX420 V.R - 130083 E.V.R - 130083</p>

Mount Name	Camera Range	Dimensional Drawing	Product Codes
Pole Mount Adaptor	GX Range		GX Range GX420 V.R - 130183
Pole Mount Adaptor	Ultra Range		Ultra Range (Ultra 2K) E.V.R - 110096 (Black) E.V.R - 110196 (Grey)

Power Supplies

Product Code	Input Voltage	Input Current (Max)	Input Connector	Output Voltage	Output Current (Max)	Output Connector	Operating Temperature Range	Dimensions (D x W x H)
110004	100-240VAC	0.5A	IEC320-C14	24V DC	0.625A	Bare Wires	0°C to 50°C	100mm x 59.0mm x 33.0mm
110060	100-240VAC	1.9A	IEC320-C14	24V DC	3.33A	Bare Wires	0°C to 50°C	168mm x 78.0mm x 45.0mm
110062	100-240VAC	0.4A	IEC320-C14	24V DC	0.62A	Bare Wires	-30°C to 65°C	91.0mm x 38.0mm x 36.0mm
110064	100-240VAC	0.8A	IEC320-C14	12V DC	2.50A	2 Pin Female Connector	0°C to 50°C	118mm x 52.0mm x 35.0mm
130176	100-240VAC	2.0A	IEC320-C14	56V DC	0.67A	RJ45 Female Connector	-20°C to 40°C	166mm x 80.0mm x 44.0mm

Cables

Camera Range	Product Code	Description
Ultra Range (Ultra 2K)	110171	Cable assembly and gland (6m)



IndigoVision

Dome Camera Mount & Accessory Matrix

	GX Range, GX420 HD Minidome	GX Range, GX420 HD Pan/Tilt Minidome	BX Range, BX420 Minidome Cameras	Ultra Range, Ultra 2K Fixed Dome		
						
Mount/Accessory	Vandal Resistant	Vandal Resistant	Vandal Resistant	Environmental Vandal Resistant	Internal	Vandal Resistant
In-Ceiling	130013	130013	130180, 130074	-	-	
Exit Collar	130011	130011	130072	-	-	
Wall Mount	130012	130018	-	-	-	
Bracket Wall Mount	-	-	-	-	110160	
Pendant Wall Mount*	-	-	-	-	110020	
Pendant Swan-Neck Mount*	-	-	-	-	110022	
Pendant Vertical Pole Mount*	-	-	130073	-	110024	
1.5" NPT Pendant Mount (Male)*	-	-	130075	-	110027	
1.5" NPT Pendant Mount (Female)*	-	-	-	-	110028	
Corner Mount Adaptor**	130184	130184	130184	-	110082	
Pole Mount Adaptor**	130083, 130183	130083, 130183	130083, 130183	-	110096 (Black)^ 110196 (Grey)^	
Power Supply	110064; 130176	110064; 130176	110064; 130176	110004; 110062; 130176	110060	
Cable	-	-	-	-	6m - 110171	

* Adaptors are compatible with the Pendant Wall Mount. + All Dome Pendant Mounts include a Pendant Sun Shroud as standard. ^ The Pole Mount Adaptor can take a 0.5in strap.

** Multiple poles can be connected to create lengths in multiples of 250mm

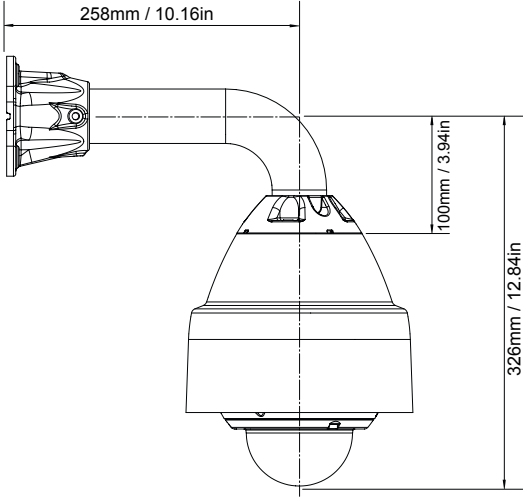
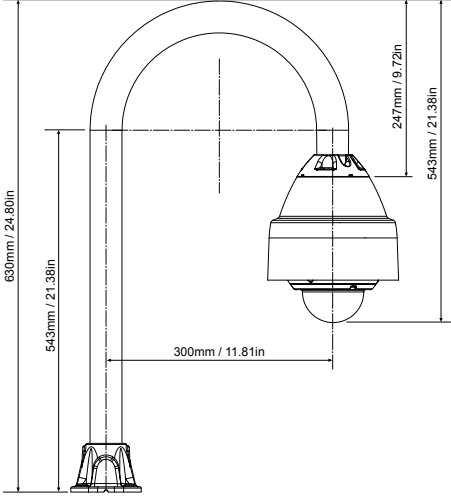
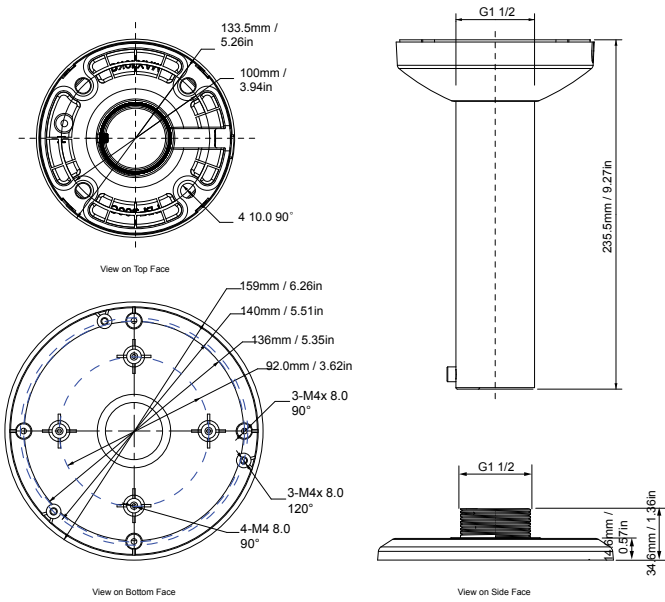
IndigoVision Dome Camera Mount & Accessory Matrix Appendix - Page 1

Mount Name	Camera Range	Dimensional Drawing	Product Codes
In-Ceiling Mount	GX Range		GX Range GX420 V.R - 130013
In-Ceiling Mount	BX Range		BX Range BX420 V.R - 130180 E.V.R - 130074
Exit Collar	GX Range		GX Range GX420 V.R - 130011
Exit Collar	BX Range		BX Range BX420 V.R - 130072 E.V.R - 130072

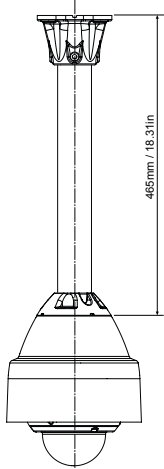
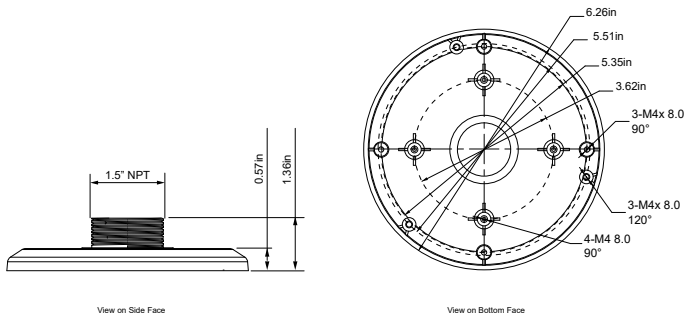
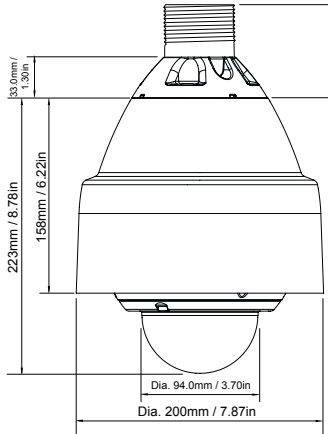
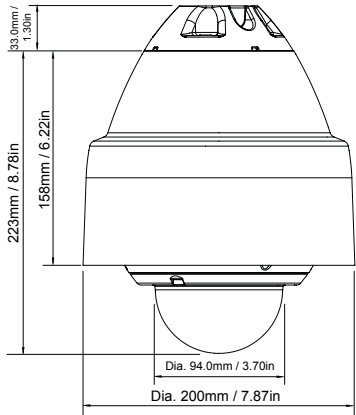
IndigoVision Dome Camera Mount & Accessory Matrix Appendix - Page 2

Mount Name	Camera Range	Dimensional Drawing	Product Codes
Wall Mount	GX Range		GX Range GX420 Minidome V.R - 130012
Wall Mount	GX Range		GX Range GX420 Pan/Tilt Minidome V.R - 130018
Wall Mount	BX Range		BX Range BX420 V.R - 130072 E.V.R - 130072
Bracket Wall Mount	Ultra Range		Ultra Range (Ultra 2K) V.R - 110160

IndigoVision Dome Camera Mount & Accessory Matrix Appendix - Page 3

Mount Name	Camera Range	Dimensional Drawing	Product Codes
Pendant Wall Mount	Ultra Range		Ultra Range (Ultra 2K) V.R - 110020
Pendant Swan-Neck Mount	Ultra Range		Ultra Range (Ultra 2K) V.R - 110022
Pendant Vertical Pole Mount	BX Range		BX Range BX420 V.R - 130073 E.V.R - 130073

IndigoVision Dome Camera Mount & Accessory Matrix Appendix - Page 4

Mount Name	Camera Range	Dimensional Drawing	Product Codes
Pendant Vertical Pole Mount	Ultra Range		Ultra Range (Ultra 2K) V.R - 110024
1.5" NPT Pendant Mount (Male)	BX Range		BX Range BX420 V.R - 130075 E.V.R - 130075
1.5" NPT Pendant Mount (Male)	Ultra Range		Ultra Range (Ultra 2K) V.R - 110027
1.5" NPT Pendant Mount (Female)	Ultra Range		Ultra Range (Ultra 2K) V.R - 110028

IndigoVision Dome Camera Mount & Accessory Matrix Appendix - Page 5

Mount Name	Camera Range	Dimensional Drawing	Product Codes
Corner Mount Adaptor	GX Range, BX Range		<p>GX Range GX420 V.R - 130184</p> <p>BX Range BX420 V.R - 130184 E.V.R - 130184</p>
Corner Mount Adaptor	Ultra Range		<p>Ultra Range (Ultra 2K) V.R - 110082</p>
Pole Mount Adaptor	GX Range, BX Range		<p>GX Range GX420 V.R - 130083</p> <p>BX Range BX420 V.R - 130083 E.V.R - 130083</p>

Mount Name	Camera Range	Dimensional Drawing	Product Codes
Pole Mount Adaptor	GX Range		GX Range GX420 V.R - 130183
Pole Mount Adaptor	Ultra Range		Ultra Range (Ultra 2K) E.V.R - 110096 (Black) E.V.R - 110196 (Grey)

Power Supplies

Product Code	Input Voltage	Input Current (Max)	Input Connector	Output Voltage	Output Current (Max)	Output Connector	Operating Temperature Range	Dimensions (D x W x H)
110004	100-240VAC	0.5A	IEC320-C14	24V DC	0.625A	Bare Wires	0°C to 50°C	100mm x 59.0mm x 33.0mm
110060	100-240VAC	1.9A	IEC320-C14	24V DC	3.33A	Bare Wires	0°C to 50°C	168mm x 78.0mm x 45.0mm
110062	100-240VAC	0.4A	IEC320-C14	24V DC	0.62A	Bare Wires	-30°C to 65°C	91.0mm x 38.0mm x 36.0mm
110064	100-240VAC	0.8A	IEC320-C14	12V DC	2.50A	2 Pin Female Connector	0°C to 50°C	118mm x 52.0mm x 35.0mm
130176	100-240VAC	2.0A	IEC320-C14	56V DC	0.67A	RJ45 Female Connector	-20°C to 40°C	166mm x 80.0mm x 44.0mm

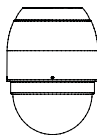
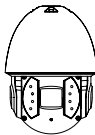
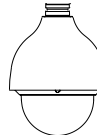

Cables

Camera Range	Product Code	Description
Ultra Range (Ultra 2K)	110171	Cable assembly and gland (6m)



IndigoVision

PTZ Camera Mount & Accessory Matrix

	BX Range, BX510 HD PTZ Dome		BX Range, BX520 HD Adap- tive IR PTZ Dome	BX Range, BX520 4MP PTZ Dome		Ultra Range, Ultra 2K PTZ Dome	
							
Mount/Accessory	Internal	External	Standard	In-Ceiling	Pendant	In-Ceiling	Pendant
In-Ceiling Mount	110245	-	-	-	-	-	-
Wall Mount	-	110084	130181*	-	130173	-	110084
Pendant Swan-Neck Mount	-	110085	-	-	-	-	110085
Vertical Pole Mount	-	110086	130182	-	130174	-	110086
1.5" NPT Adaptor (Male)	-	110087	130175	-	130185	-	110087
1.5" NPT Adaptor (Female)	-	110088	-	-	-	-	110088
Corner Mount Adaptor^	-	110082	130184	-	130184	-	110082
Pole Mount Adaptor^	-	110096 (Black)^ 110196 (Grey)^	130183	-	130183	-	110096 (Black)^ 110196 (Grey)^
Junction Box	-	-	130171	-	130171	-	-
Power Junction Box	-	-	130172	-	130172	-	-
Power Supplies	120006; 130176	120006; 130176	130176	130176	130176	110060; 130176	110060; 130176
Cables	-	0.6m - 110172 3m - 110173 9m - 110174	-	-	-	-	0.6m - 110172 3m - 110173 9m - 110174

* Included with camera purchase. [^] Adaptors are compatible with the Wall Mount. ^{^^} The Pole Mount Adaptor can take a 0.5in strap.

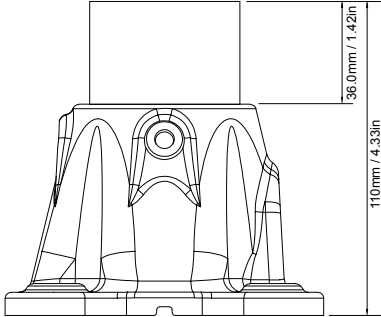
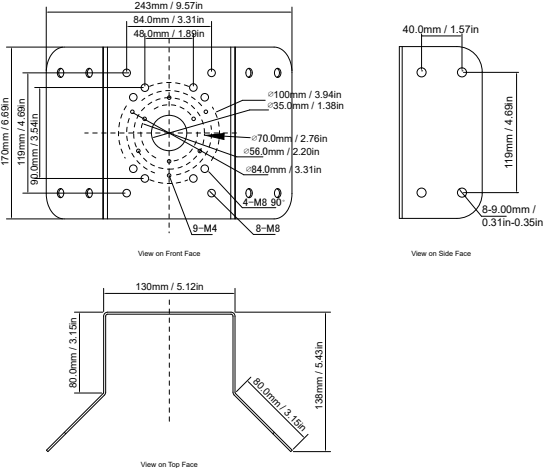
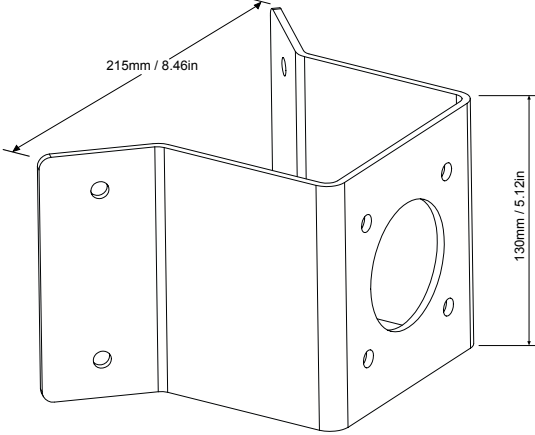
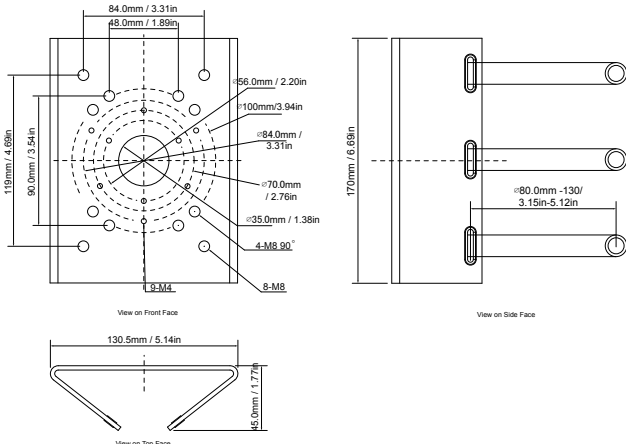
IndigoVision PTZ Camera Mount & Accessory Matrix Appendix - Page 1

Mount Name	Camera Range	Dimensional Drawing	Product Codes
Wall Mount	BX Range		BX Range BX520 Std - 130181
Wall Mount	BX Range		BX Range BX520 Pen - 130173
Pendant Wall Mount	Ultra Range BX Range		Ultra Range Pen - 110084 BX Range BX510 Ext - 11084
Pendant Swan-Neck Mount	Ultra Range BX Range		Ultra Range Pen - 110085 BX Range BX510 Ext - 110085

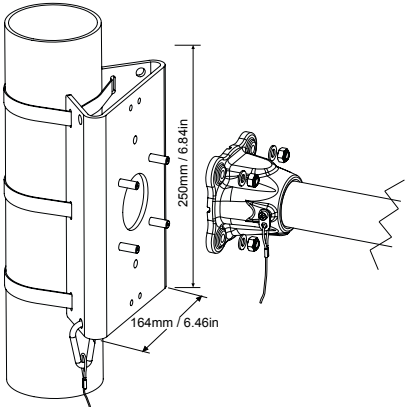
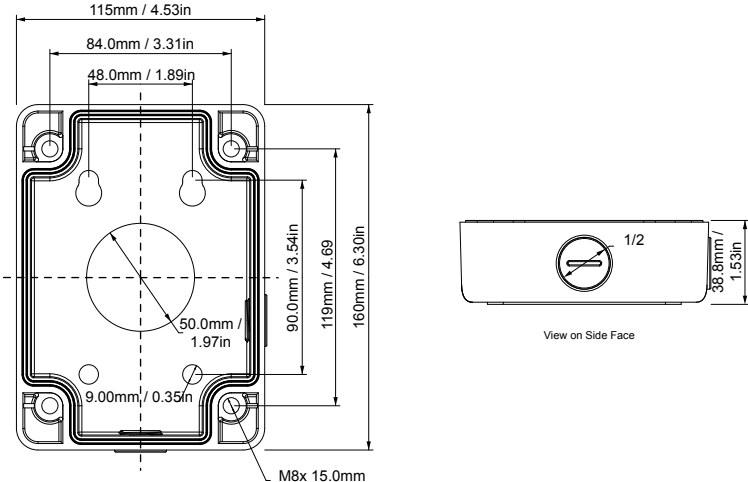
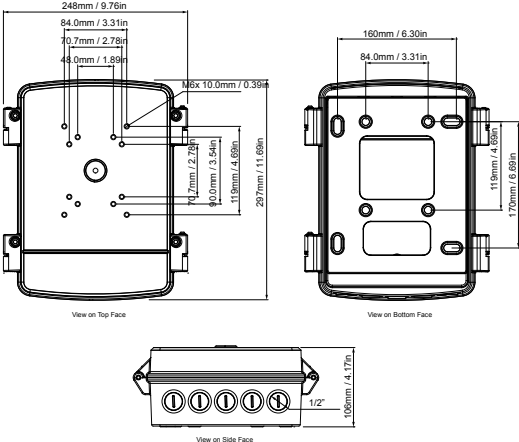
IndigoVision PTZ Camera Mount & Accessory Matrix Appendix - Page 2

Mount Name	Camera Range	Dimensional Drawing	Product Codes
Pendant Vertical Pole Mount	BX Range	<p>View on Top Face</p> <p>View on Side Face</p> <p>View on Side Face</p>	BX Range BX520 Std - 130182 Pen - 130174
Pendant Vertical Pole Mount	Ultra Range BX Range		Ultra Range Pen - 110086 BX Range BX510 Ext - 110086
1.5" NPT Adaptor (Male)	BX Range	<p>View on Top Face</p> <p>View on Side Face</p> <p>View on Side Face (Sectioned)</p>	BX Range BX520 Std - 130175
1.5" NPT Adaptor (Male)	BX Range	<p>View on Top Face</p> <p>View on Side Face</p>	BX Range BX520 Pen - 130185
1.5" NPT Adaptor (Male)	Ultra Range BX Range		Ultra Range Pen - 110087 BX Range BX510 Ext - 110087

IndigoVision PTZ Camera Mount & Accessory Matrix Appendix - Page 3

Mount Name	Camera Range	Dimensional Drawing	Product Codes
1.5" NPT Adaptor (Female)	Ultra Range BX Range		Ultra Range Pen - 110088 BX Range BX510 Ext - 110088
Corner Mount Adaptor	BX Range		BX Range BX520 Std - 130184 Pen - 130184
Corner Mount Adaptor	Ultra Range BX Range		Ultra Range Pen - 110082 BX Range BX510 Ext - 110082
Pole Mount Adaptor	BX Range		BX Range BX520 Std - 130183 Pen - 130183

IndigoVision PTZ Camera Mount & Accessory Matrix Appendix - Page 4

Mount Name	Camera Range	Dimensional Drawing	Product Codes
Pole Mount Adaptor	Ultra Range BX Range		Ultra Range Pen - 110096 (Black) Pen - 110196 (Grey) BX Range BX510 Ext - 110096 (Black) Ext - 110196 (Grey)
Junction Box	BX Range		BX Range BX520 Std - 130171 Pen - 130171
Power Junction Box	BX Range		BX Range BX520 Std - 130172 Pen - 130172

Power Supplies

Product Code	Input Voltage	Input Current (Max)	Input Connector	Output Voltage	Output Current (Max)	Output Connector	Operating Temperature Range	Dimensions (D x W x H)
110060	100-240VAC	1.9A	IEC320-C14	24V DC	3.33A	Bare Wires	32°F to 122°F	168mm x 78.0mm x 45.0mm / 6.61in x 3.07in x 1.77in
130176	100-240VAC	2.0A	IEC320-C14	56V DC	0.67A	RJ45 Female Connector	-4°F to 104°F	166mm x 80.0mm x 44.0mm / 6.54in x 3.15in x 1.73in
120006	100-240VAC	2.0A	IEC320-C14	30V DC	4.0A	Bare Wires	32°F to 104°F	148mm x 59mm x 32mm

Cables

Camera Range	Product Code	Description
Ultra Range + BX510	110172	Cable assembly and gland (0.6m)
	110173	Cable assembly and gland (3m)
	110174	Cable assembly and gland (9m)









IndigoVision



Surveillance Keyboard

Who needs a mouse?

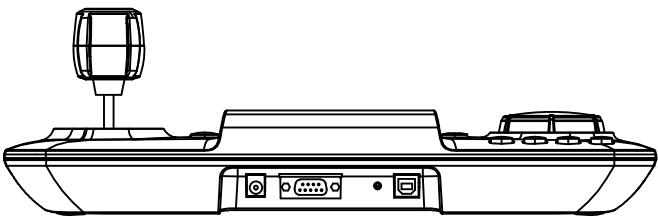
IndigoVision's Surveillance Keyboard is used to access Control Center's Virtual Matrix and IP Video Wall. The Control Center Virtual Matrix allows the Surveillance Keyboard to control IndigoVision and most third party PTZ cameras including Pelco and Panasonic.

-  Seamless control of live and recorded video
-  Desktop keyboard with 3-axis joystick (pan/tilt/zoom)
-  Full variable PTZ control of speed domes
-  Full control of Control Center virtual matrix
-  Multi-function keys
-  LCD graphic display

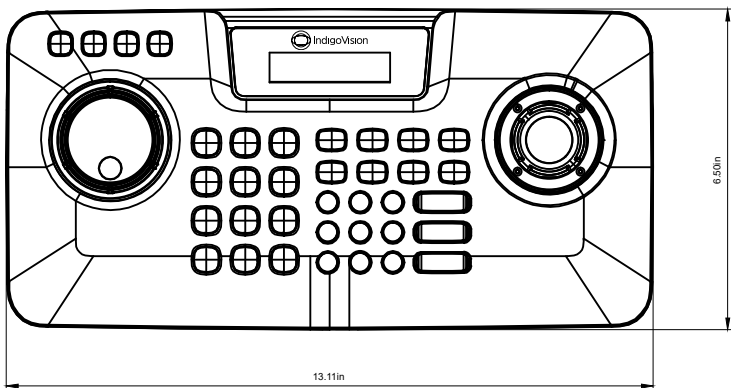
Product Code

Surveillance Keyboard	
Surveillance Keyboard	110078

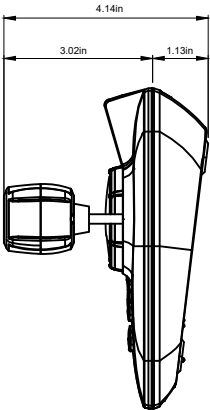
Dimensions



View on Behind



View on Top Face



View on Right Side

Specification

General Specification	
Control	Proportional 3 axis joystick plus jog / shuttle dial
Numeric Keypad	12 Keys
Multi-function Keypad	24 Keys
LCD Graphic Display	16x2 LCD Screen
LCD Backlit	Yes
Keyboard Power Supply	5v DC USB / 12V DC Power supply (included)
Power Consumption	1.1W
Operating Temperature	32°F to +104°F
Dimensions/Weight	6.50in (d) x 13.11in (w) x 4.14in (h) x and 1.76lb
RS232 connections	1 Serial Line (COM) Female DB9 Connector (Included)
Regulatory	CE, FCC

Specifications are correct at the datasheet date of issue and are subject to change without prior notice.



IndigoVision

ULTRARANGE



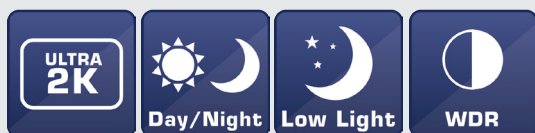
Ultra 2K Fixed Dome Camera

Capture every detail with ultra-high resolution

With best in class performance, the IndigoVision Ultra 2K Fixed Dome Camera delivers rich, Full HD video and image clarity, in all lighting conditions. IndigoVision's SMART.core technology gives highly optimised H.264 compression and ACF+, reducing storage costs by up to 95%.

Key Features

SENSOR



COMPRESSION



INTELLIGENCE



OTHER



PHYSICAL

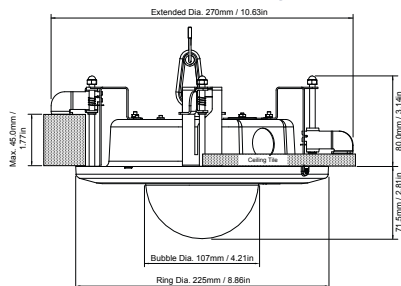


Product Codes

Ultra 2K Fixed Dome Camera (NTSC)	Camera
Ultra 2K In-Ceiling Fixed Dome, 3-9mm Lens	512426
Ultra 2K In-Ceiling Fixed Dome, 10-23mm Lens	512428
Ultra 2K Internal Fixed Dome, 3-9mm Lens	512416
Ultra 2K Internal Fixed Dome, 10-23mm Lens	512418
Ultra 2K Environmental Vandal Resistant Fixed Dome, 3-9mm Lens	512446
Ultra 2K Environmental Vandal Resistant Fixed Dome, 10-23mm Lens	512448

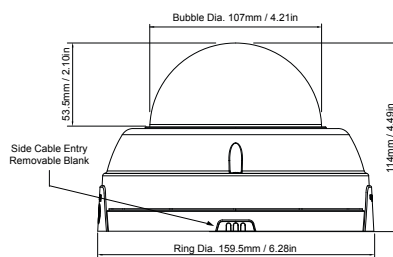
Product Code 56xxxx also available to order consisting of 51xxxx Product Code plus Enhanced Management Software License.

Dimensions: In-Ceiling



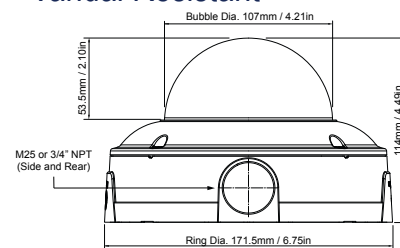
View on Side Face

Dimensions: Internal



View on Side Face

Dimensions: Environmental Vandal Resistant



View on Side Face

Specification

Camera Features			
Sensor	1/3" Progressive CMOS		
Active Pixels (HxV)	2MP (1920 x 1080)		
Horizontal Resolution	> 850 TVL		
Minimum Sensitivity	Day: 0.05 lux (color). Night: 0.005 lux (mono). 30 IRE, F1.2, 1/15s shutter. Day: 0.3 lux (color). Night: 0.03 lux (mono). 50 IRE, F1.2, 1/30s shutter		
Dynamic Range	WDR 120dB Max		
Gain Control	Auto setting across a 42dB range		
Back Light Compensation	On/Off		
White Balance Mode	Auto/Indoor/Outdoor/Manual/Auto One Push		
Day/Night	True Day/Night with Mechanical IR Cut Filter		
Video Resolution	HD 1080p: 1920 x 1080 pixels, 720p: 1280 x 720 pixels; SD: 960 x 540 pixels, 640 x 360 pixels; 16:9 ratio		
Signal/Noise Level	> 39dB		
Lens Options	Standard 3 to 9mm, Horizontal view angle 108.6° (W) 34.8° (T), F1.2, P-iris, Remote Zoom/Focus Telephoto 10-23mm Horizontal view angle 30.8° (W) 13.6° (T), F1.6, P-iris, Remote Zoom/Focus		
Zoom	3x optical standard; 2.3x optical telephoto		
Iris Control	Automatic P-Iris with Manual override		
Shutter	Rolling: Auto from 1/1 to 1/50,000 sec		
Exposure Control	Auto Iris/Auto Shutter/Slow AE		
Gimbal Adjustment	3 axis adjustment		
Video Compression	Full frame rate, full color: H.264 (ISO 14496-10); 30fps guaranteed		
Video Bit Rate	User-configurable from 32Kbps up to 8Mbps		
Video Multi-Streaming	Up to 32Mbps total video output; Unlimited multicast connections. Up to seven 4Mbps unicast connections; Up to sixteen 1Mbps unicast connections		
Video Multi-Encoder	Up to two simultaneous resolutions with guaranteed frame rate including: 1080p (30fps), SD (30fps)		
Video Analytics	Standard: ACF, ACF+, Motion Detection, Hooded. Advanced: Dual Tripwire, Congestion, Counterflow, Museum ^A		
Audio Compression	AAC-LC (ISO 14496-3)		
Audio Bit Rate	User-configurable bit rates from 32Kbps to 160Kbps per channel		
Audio Protocol	RTP (RFC 3640)		
Audio Dual Encoder	Encoder A: 1 Stream Configuration plus Encoder B: 1 Stream Configuration		
Audio Resolution	Full Duplex 16kHz, 16 Bit Mono/Stereo Input, Mono Output		
Audio Input	Stereo / Mono line in terminal block connector. Nominal voltage: 1V p-p, Mic 30mV p-p. Mic type: dynamic or electret		
Audio Output	Mono line out terminal block connector. 1V p-p, Minimum load impedance: 16 Ohms		
Binary Input/Output	2 Pull up inputs for non powered contacts; 1 solid state opto-isolated relay output @500mA, LED output @20mA		
Data Input/Output	1 Console port: RS232 up to 115.2 Kbps*		
Privacy Zones	8 User Defined		
Network Interface	IEEE802.3 and IETF standards: 10/100 Base-T Ethernet, TCP, UDP, RTP, ICMP, IGMP, SNMP, DHCP, NTP, DNS, HTTP, HTTPS, SSH		
Network Security	HTTPS / Embedded Linux Firewall. Salted passwords, with MD5 encryption / IEEE 802.1x		
Time	Embedded real-time clock, NTP client with battery backup		
Regulatory	EN 55022 - Class A, EN 55024, EN 60068-2-29, EN 60068-2-1 & 2, EN 60068-2-30, EN 60068-2-6 & 64, CFR47 Part 15 subpart B -Class A, UL60950-1*, UL2043**, UL60950-22***, UL2802		
IndigoVision Software Requirements	Control Center v11.0 or later		
ONVIF	Profile S ^{AA}		
Camera Features	In-Ceiling	Internal	Environmental Vandal Resistant
Dimension/Weight	225mm (ring dia.) x 151.5mm (h) (71.5mm below ceiling) and 1.1Kg / 8.85in (dia.) x 5.96in (h) (2.82in below ceiling) and 2.425lb	159.5mm (dia.) x 114mm (h) and 0.85Kg / 6.28in (dia.) x 4.49in (h) and 1.873lb	171.5mm (dia.) x 114mm (h) and 1.1Kg / 6.75in (dia.) x 4.49in (h) and 2.425lb
Housing	Aluminium with polycarbonate dome	Polycarbonate/ABS with polycarbonate dome	Diecast aluminium alloy with polycarbonate dome
Protection Rating	N/A	N/A	IP66, IK10 (IEC 62262), NEMA 250 4X
Electrical	PoE (802.3af Class 0) or 24V AC/DC @ 0.4A; 9.6W max. Power supply ordered separately (Product code: 110004; 110061; 110062)	PoE (802.3af Class 0) or 24V AC/DC @ 0.4A; 9.6W max. Power supply ordered separately (Product code: 110004; 110061; 110062)	Camera only: PoE (802.3af Class 0) or 24V AC/DC @ 0.4A; 9.6W. Camera including heater: 24V AC/DC @ 1.33A; 32W. Power supply ordered separately (Product code: 110060)
Operating Temperature	-10°C to 50°C (14°F to 122°F)	-10°C to 50°C (14°F to 122°F)	PoE powered: -10°C to 55°C (14°F to 131°F) External PSU: -40°C to 55°C (-40°F to 131°F)
Cold Start	0°C (32°F)	0°C (32°F)	-30°C (-22°F)

* Internal and In-Ceiling Dome only. ** In-Ceiling Dome only. ***Environmental Vandal Resistant Dome only. ^A Advanced Video Analytics require a licence. ^{AA} Firmware upgrade is required for ONVIF Conformance.