



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.



Jump to: FORMS



Personalize



App Help

About



Welcome, Lu Anne Cottrill

Procurement

Budgeting

Accounts Receivable

Accounts Payable

Solicitation Response(SR)

Dept: 0612

ID: ESR08161600000000694

Ver.: 1

Function: New

Phase: Final

Modified by batch , 08/16/2016

Header

List View

General Information

Contact

Default Values

Discount

Document Information

Procurement Folder: 167130

SO Doc Code: CRFQ

Procurement Type: Central Master Agreement

SO Dept: 0612

Vendor ID: 000000200562

SO Doc ID: DPS1600000009

Legal Name: STATE ELECTRIC SUPPLY COMPANY

Published Date: 8/9/16

Alias/DBA:

Close Date: 8/16/16

Total Bid: \$403,198.20

Close Time: 13:30

Response Date: 08/16/2016

Status: Closed

Response Time: 9:21

Solicitation Description: Addendum No.8- Video Recorders and Cameras

Total of Header Attachments: 0

Total of All Attachments: 0



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

State of West Virginia
Solicitation Response

Proc Folder : 167130

Solicitation Description : Addendum No.8- Video Recorders and Cameras

Proc Type : Central Master Agreement

Date issued	Solicitation Closes	Solicitation Response	Version
	2016-08-16 13:30:00	SR 0612 ESR08161600000000694	1

VENDOR

000000200562

STATE ELECTRIC SUPPLY COMPANY

Solicitation Number: CRFQ 0612 DPS1600000009

Total Bid : \$403,198.20

Response Date: 2016-08-16

Response Time: 09:21:20

Comments:

FOR INFORMATION CONTACT THE BUYER

Tara Lyle
(304) 558-2544
tara.l.lyle@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	Network video recorders (NVR) and IP cameras	1.00000	LS	\$403,198.200000	\$403,198.20

Comm Code	Manufacturer	Specification	Model #
43222619			

Extended Description :	See attached pricing page
------------------------	---------------------------

CRFQ DPS160000009

Pricing Page

Revised by Addendum No. 8 – 8/9/16

Item #	Description	Estimated Quantity	Unit Price	Extended Price
3.1.1.	Network Video Recorders – 4 Channel Analog	70	\$ 402.72	\$ 28,190.40
3.1.2.	Network Video Recorders – 8 Channel Analog	70	\$ 494.27	\$ 34,598.90
3.1.3.	Network Video Recorders – 16 Channel Analog	70	\$ 653.18	\$ 45,722.60
3.1.4.	Network Video Recorders – 4 Channel IP	70	\$ 708.49	\$ 49,594.30
3.1.5.	Network Video Recorders – 8 Channel IP	70	\$ 708.49	\$ 49,594.30
3.1.6.	Network Video Recorders – 16 Channel IP	70	\$ 901.91	\$ 63,133.70
3.1.7.	Network Video Recorders – 32 Channel IP	70	\$ 1,128.50	\$ 78,995.00
3.1.8.	Camera – Fixed Lens Turret Matrix IR Camera	100	\$ 107.05	\$ 10,705.00
3.1.9.	Camera – Fixed Lens Bullet Camera	100	\$ 120.35	\$ 12,035.00
3.1.10.	Camera – Fixed Lens Dome Camera 3 MP with a built in microphone	100	\$ 128.83	\$ 12,883.00
3.1.11.	Camera – HD IP Pinhole Camera	100	\$ 177.46	\$ 17,746.00
			Overall Total Cost:	\$ 403,198.20
<p>Failure to use this form may result in disqualification.</p> <p>Bidder / Vendor Information:</p> <p>Name: <u>State Electric Supply Co.</u></p> <p>Address: <u>405 12th St. Dunbar, WV 25064</u></p> <p>Phone #: <u>304-768-3600</u></p> <p>Email Address: _____</p>				
<p>Contact Coordinator Information:</p> <p>Name: <u>Josh Phillips</u></p> <p>Address: <u>405 12th St. Dunbar, WV 25064</u></p> <p>Phone #: <u>304-768-3600</u></p> <p>Email Address: <u>josh.phillips@stateelectric.com</u></p>				
<p><small>*Quantities are estimated annual usage for bidding purposes and bidder's information.</small></p>				



STATE ELECTRIC SUPPLY CO.

CUSTOMER FOCUSED, QUALITY DRIVEN

405 12TH STREET
DUNBAR, WV 25064
P:304-768-3600
TF:1-800-344-5202
F:304-768-3698

E: josh.phillips@stateelectric.com

Job Name:
WV State Police CCTV

**Voice, Data, &
Video
Division**

Customer: WV State Police

Phone:

Fax:

E-Mail:

Quoted By:
Josh Phillips

Freight will be prepaid and add unless noted differently.

Bid Date:

DATE: August 15, 2016

SALES QUOTE

ATTN:

QUOTE#

JP277

LINE#	PART NUMBER	DESCRIPTION	QUANTITY	PRICE	EXT PRICE
1	CRECDRA-5104-4T	4 Channel 1080p AHD/960H DVR 4TB	70	\$ 402.72	\$ 28,190.400
2	CRECDRA-5108-4T	8 Channel 1080p AHD/960H DVR 4TB	70	\$ 494.27	\$ 34,598.900
3	CRECDRA-5216-4T	16 Channel 1080p AHD/960H DVR 4TB	70	\$ 653.18	\$ 45,722.600
4	CRECNR-2408P-4T	8 Channel NVR POE 160Mbps (For 4 Channel)	70	\$ 708.49	\$ 49,594.300
5	CRECNR-2408P-4T	8 Channel NVR POE 160Mbps 4TB	70	\$ 708.49	\$ 49,594.300
6	CRECNR-2416P-4T	16 Channel NVR POE 160Mbps 4TB	70	\$ 901.91	\$ 63,133.700
7	CRECNR-2432P-4T	32 Channel NVR POE 160Mbps 4TB	70	\$ 1,128.50	\$ 78,995.000
8	CRECCN-2840F-20	4MP IP IR Turret, 3.6mm POE	100	\$ 107.05	\$ 10,705.000
9	CRECCN-7940F-20	4MP IP IR Bullet, 3.6mm POE	100	\$ 120.35	\$ 12,035.000
10	CRECCN-2840F-20A	4MP IP IR Ind Dome, 3.6mm POE w/ Audio	100	\$ 128.83	\$ 12,883.000
11	CRECJ-3512C	1.3MP/960P Pin-Hole Camera	100	\$ 177.46	\$ 17,746.000
12		Includes: CRECIP-200TM IP Encoder	100		\$ -
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41					\$ -
42					\$ -
43					\$ -
44					\$ -
45					\$ -

Note-1 All copper and fiber cable at +/- 5%.

Note-2 Terms and Conditions of Sale attached. See 2nd tab on worksheet.

Note-3 All customers/contractors are responsible for all final counts.

Note-4 Connectivity pricing valid for 30 days; all copper pricing valid day of quote only.

Sub Total \$ 403,198.200

TOTAL \$ 403,198.200

Plus Frt.

CDRA-5104

4-Channel Embedded DVR



1080p AHD/TVI/960H

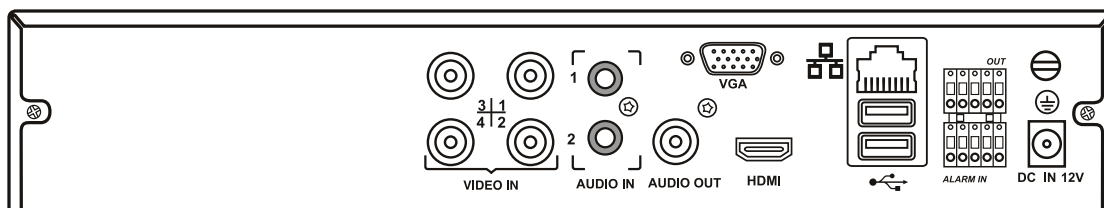
- Supports live display, as well as recorded playback of full 1080p (1920 x 1080) for all channels
- Auto-detects between AHD, HD-TVI and standard 960H cameras
- Camera set up for frame rate and resolution can be set individually or together
- Real time display and recording rates
- AVI and proprietary backup with watermark via USB port
- Supports mobile phone surveillance applications for both Android and iPhone
- Network connectivity utilizing remote client software with support for multi-site viewing and network backup
- HDMI, VGA and BNC video outputs
- RS-485 PTZ control
- 4 alarm inputs / 1 alarm output
- 2 audio channels



Contact your Crest Representative today to learn more about this product!



Product Data: CDRA-5104 4-Channel Embedded DVR



Rear Panel

Model Number	CDRA-5104
Performance	AHD / TVI / 960H, Pentaplex
Video Compression	H.264
Video Inputs	4 (BNC)
Video Output	1 HDMI, 1 VGA, 1 BNC
Audio Inputs	2 (RCA)
Audio Output	1 (RCA)
Display	60 fps
Recording Frame Rate	60 fps @ 1080p
Recording Resolution	Up to 1920 x 1080 (1080p)
Recording Modes	Manual, Motion, Schedule
Recording Schedule	By Hour / Day & Channel
Display Screens	1 & 4
HDD Capacity	1 HDD / Up to 8TB
Backup Media	USB
Alarm / Relay	4 / 1
PTZ Control	RS-485 Support
Network Supported Type	TCP/IP (Dynamic IP Support), DHCP, DDNS
Network Software	Remote Client, Smart Phone App
Network Audio	Live, Playback, Two Way Network Audio
System Control	USB Mouse / Front Panel
System	Watchdog System Auto Recovery
Dimensions	12 3/4" (W) x 1 3/4" (H) x 10" (D)
Power	12vDC, 2 Amp

Specifications subject to change



CDRA-5108

8-Channel Embedded DVR



1080p AHD/TVI/960H

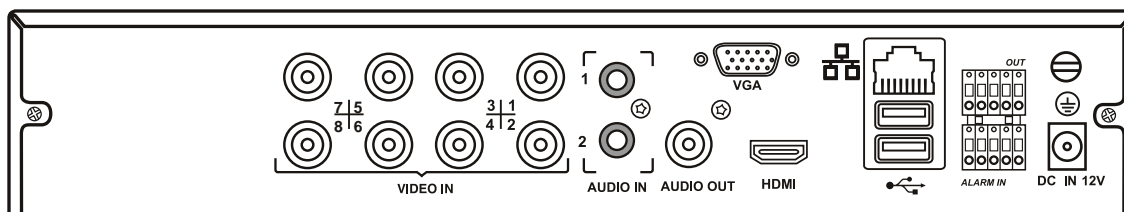
- Supports live display, as well as recorded playback of full 1080p (1920 x 1080) for all channels
- Auto-detects between AHD and standard 960H cameras
- Camera set up for frame rate and resolution can be set individually or together
- Real time display and recording rates
- AVI and proprietary backup with watermark via USB port
- Supports mobile phone surveillance applications for both Android and iPhone
- Network connectivity utilizing remote client software with support for multi-site viewing and network backup
- HDMI, VGA and BNC video outputs
- RS-485 PTZ control
- 4 alarm inputs / 1 alarm output
- 2 audio channels



Contact your Crest Representative today
to learn more about this product!



Product Data: CDRA-5108 8-Channel Embedded DVR



Rear Panel

	CDRA-5108
Model Number	CDRA-5108
Performance	AHD / TVI / 960H, Pentaplex
Video Compression	H.264
Video Inputs	8 (BNC)
Video Output	1 HDMI, 1 VGA, 1 BNC
Audio Inputs	2 (RCA)
Audio Output	1 (RCA)
Display	120 fps
Recording Frame Rate	120 fps @ 1080p
Recording Resolution	Up to 1920 x 1080 (1080p)
Recording Modes	Manual, Motion, Schedule
Recording Schedule	By Hour / Day & Channel
Display Screens	1, 4 & 8
HDD Capacity	1 HDD / Up to 8TB
Backup Media	USB
Alarm / Relay	4 / 1
PTZ Control	RS-485 Support
Network Supported Type	TCP/IP (Dynamic IP Support), DHCP, DDNS
Network Software	Remote Client, Smart Phone App
Network Audio	Live, Playback, Two Way Network Audio
System Control	USB Mouse / Front Panel
System	Watchdog System Auto Recovery
Dimensions	12 3/4" (W) x 1 3/4" (H) x 10" (D)
Power	12vDC, 2 Amp

Specifications subject to change



CDRA-5216

16-Channel Embedded DVR



1080p AHD/TVI/960H

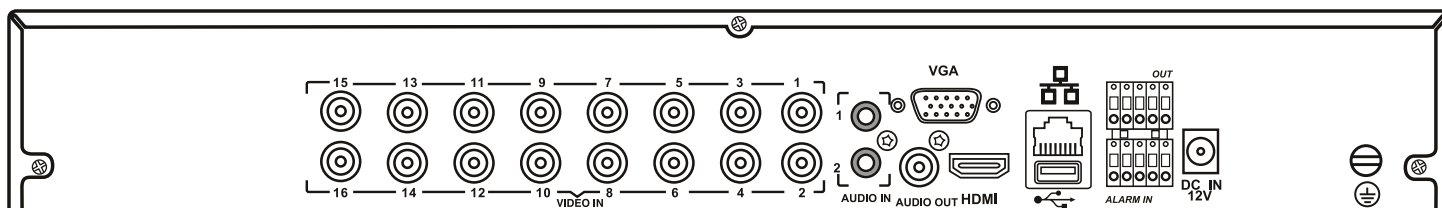
- Supports live display, as well as recorded playback of full 1080p (1920 x 1080) for all channels
- Auto-detects between AHD, HD-TVI and standard 960H cameras
- Real time display and recording rates
- AVI and proprietary backup with watermark via USB port
- Supports mobile phone surveillance applications for both Android and iPhone
- Network connectivity utilizing remote client software with support for multi-site viewing and network backup
- HDMI, VGA and BNC video outputs
- RS-485 PTZ control
- 4 alarm inputs / 1 alarm output
- 2 audio channels
- Rack-mountable / 1.5U



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to learn more about this product!



Product Data: CDRA-5216 16-Channel Embedded DVR



Rear Panel

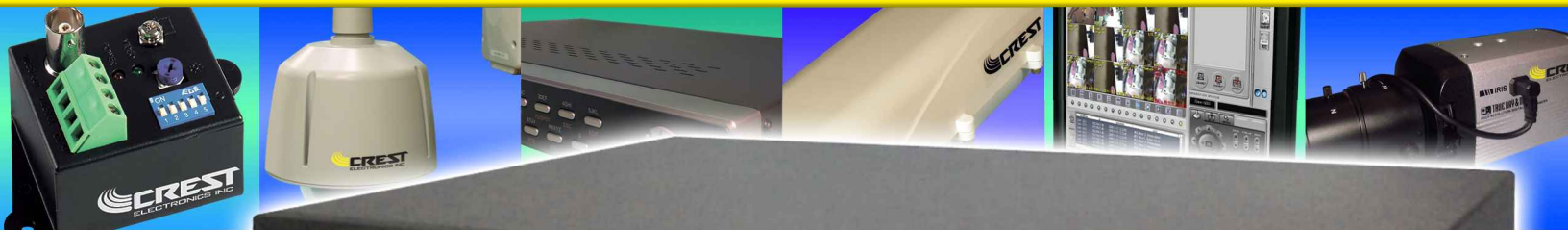
Model Number	CDRA-5216
Performance	AHD / TVI / 960H, Pentaplex
Video Compression	H.264
Video Inputs	16 (BNC)
Video Output	1 HDMI, 1 VGA, 1 BNC
Audio Inputs	2 (RCA)
Audio Output	1 (RCA)
Display	240 fps
Recording Frame Rate	240 fps @ 1080p
Recording Resolution	Up to 1920 x 1080 (1080p)
Recording Modes	Manual, Motion, Schedule
Recording Schedule	By Hour / Day & Channel
Display Screens	1, 4, 8, 9, 13 & 16
HDD Capacity	2 HDD / Up to 16TB
Backup Media	USB
Alarm / Relay	4 / 1
PTZ Control	RS-485 Support
Network Supported Type	TCP/IP (Dynamic IP Support), DHCP, DDNS
Network Software	Remote Client, Smart Phone App
Network Audio	Live, Playback, Two Way Network Audio
System Control	USB Mouse / Front Panel
System	Watchdog System Auto Recovery
Dimensions	17 1/4" (W) x 2 1/4" (H) x 12" (D)
Power	12vDC, 3.33 Amp

Specifications subject to change



CNR-2408P

8-Channel Embedded NVR



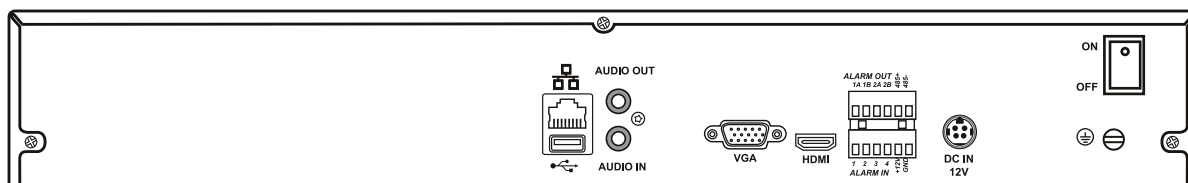
- Supports live display, as well as playback of full 1080p resolution at 60fps per camera
- 8 IP camera licenses with no recurring fees
- Utilizes H.265 and H.264 compressions
- Real time display and frame rates at full 1080p
- AVI and proprietary backup with watermark via USB port
- Multiple recording modes – manual, schedule, motion and alarm
- Supports mobile phone surveillance applications for both Android and iPhone
- Network connectivity utilizing remote client software with support for multi-site viewing and network backup
- PTZ operation via RS-485 or through the network
- 1 physical audio port, but will record audio on all 8 channels via network
- 160Mbps throughput
- Supports Onvif 2.3 and HB3.0
- 1.5U rack mount chassis



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to learn more about this product!



Product Data: CNR-2408P 8-Channel Embedded NVR



Rear Panel

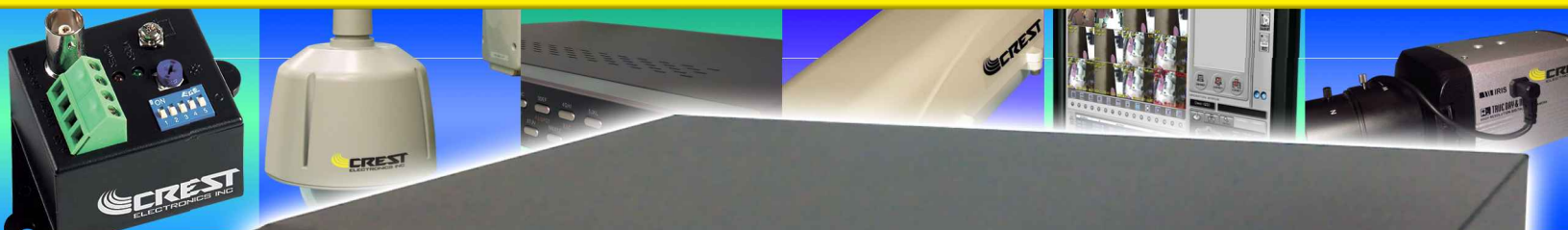
Model Number	CNR-2408P
Performance	Pentaplex, 8 Channel 1080p @ 160Mbps
Compression	H.265 & H.264
Video Inputs	8 Ch; up to 12MP on first 2; up to 8MP for all 8
Video Output	1 HDMI, 1 VGA
Audio Input	8 via Network, 1 RCA
Audio Output	1 RCA
Display	Up to 60fps per camera
Recording Frame Rate	Up to 60 fps per camera @ 1080p
Recording Modes	Manual, Schedule, Motion & Alarm
Playback	8 Cameras at 1080p 60fps
Display Screens	1, 4, 6 & 8
HDD Capacity	2
Max HDD Storage	16TB
Backup Media	USB / 2 (rear panel)
RJ45	1000M
Alarm In / Out	4 / 2
PTZ Control	1 RS485 / 8 via Network
Network Supported Type	TCP/IP (Dynamic IP Support), DHCP, DDNS
Network Software	Remote Client, Smart Phone App
Network Audio	Live, Playback, Two Way Network Audio
System Control	USB Mouse
System	Watchdog System Auto Recovery
Dimensions	12" (W) x 2 3/4" (H) x 17 1/2" (D) / 1.5U
Protocol Support	Onvif 2.3 & HB3.0
Power	12vDC / 24W / 8 PoE

RAID Support, eSATA, PoE and UPnP not available. Specifications subject to change.



CNR-2416P

16-Channel Embedded NVR



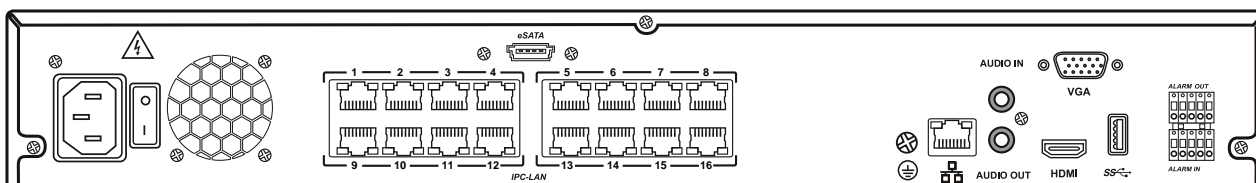
- Supports live display, as well as playback of full 1080p resolution at 60fps per camera
- 16 IP camera licenses with no recurring fees
- Built-in 16 port PoE switch
- Utilizes H.265 and H.264 compressions
- Real time display and frame rates at full 1080p
- Multiple recording modes – manual, schedule, motion and alarm
- Supports mobile phone surveillance applications for both Android and iPhone
- Network connectivity utilizing remote client software with support for multi-site viewing and network backup
- PTZ operation via RS-485 or through the network
- 1 physical audio port, but will record audio on all 16 channels via network
- 160Mbps throughput
- eSATA port allows for scheduled backups of up to 1 month in size
- 1.5U rack mount chassis



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to learn more about this product!



Product Data: CNR-2416P 16-Channel Embedded NVR



Rear Panel

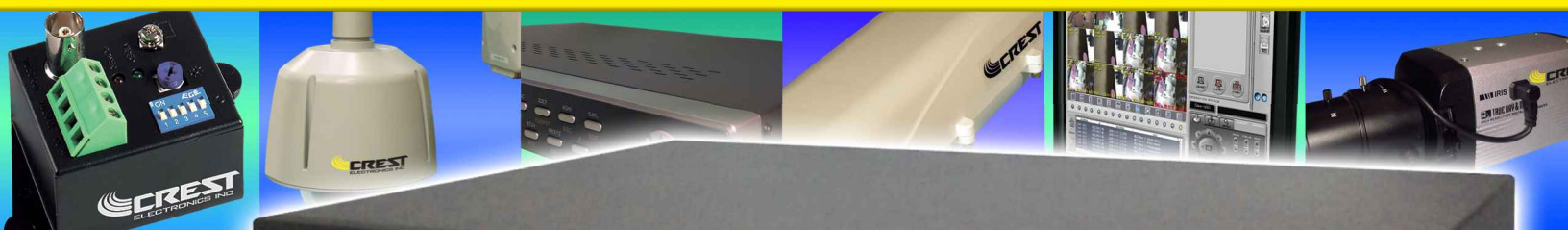
Model Number	CNR-2416P
Performance	16 Ch; up to 12MP on first 2; up to 8MP for all 16
Compression	H.265 & H.264
Video Inputs	16 via Network; 16 RJ45 connectors with PoE
Video Output	1 HDMI, 1 VGA
Audio Input	16 via Network, 1 RCA
Audio Output	1 RCA
Display	Up to 60fps per camera
Recording Frame Rate	Up to 60 fps per camera @ 1080p
Recording Modes	Manual, Schedule, Motion & Alarm
Playback	8 Cameras at 1080p 60fps
Display Screens	1, 4, 6, 9 & 16
HDD Capacity	2
Max HDD Storage	16TB
Backup Media	2 USB / 1 eSATA
RJ45	1000M
PoE	16 Ports
Alarm In / Out	4 / 2
PTZ Control	1 RS485 / 16 via Network
Network Supported Type	TCP/IP (Dynamic IP Support), DHCP, DDNS
Network Software	Remote Client, Smart Phone App
Network Audio	Live, Playback, Two Way Network Audio
System	Watchdog System Auto Recovery
Dimensions	12" (W) x 2 3/4" (H) x 17 1/2" (D) / 1.5U
Protocol Support	Onvif 2.3 & HB3.0
Power	12vDC / 90W; 12vDC / 80W for PoE

RAID Support and UPnP not available. Specifications subject to change.



CNR-2432P

32-Channel Embedded NVR



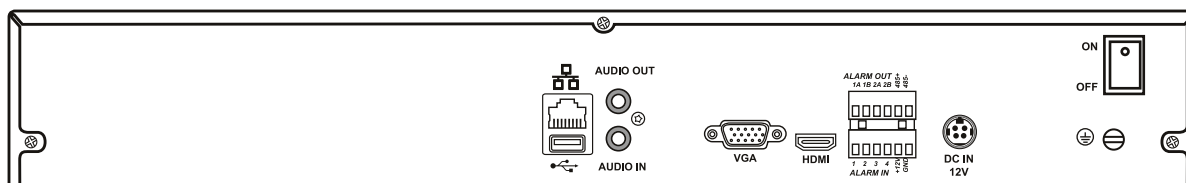
- Supports live display, as well as playback of full 1080p resolution at 60fps per camera
- 32 IP camera licenses with no recurring fees
- Utilizes H.265 and H.264 compressions
- Real time display and frame rates at full 1080p
- AVI and proprietary backup with watermark via USB port
- Multiple recording modes – manual, schedule, motion and alarm
- Supports mobile phone surveillance applications for both Android and iPhone
- Network connectivity utilizing remote client software with support for multi-site viewing and network backup
- PTZ operation via RS-485 or through the network
- 1 physical audio port, but will record audio on all 32 channels via network
- 320Mbps throughput
- Supports Onvif 2.3 and HB3.0
- 1.5U rack mount chassis



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to learn more about this product!



Product Data: CNR-2432P 32-Channel Embedded NVR



Rear Panel

Model Number	CNR-2432P
Performance	Pentaplex, 32 Channel 1080p @ 320Mbps
Compression	H.265 & H.264
Video Inputs	32 Ch.; Up to 12MP for first 2 Ch.; Up to 8MP for all 32
Video Output	1 HDMI, 1 VGA
Audio Input	32 via Network, 1 RCA
Audio Output	1 RCA
Display	Up to 60fps per camera
Recording Frame Rate	Up to 60 fps per camera @ 1080p
Recording Modes	Manual, Schedule, Motion & Alarm
Playback	8 Cameras at 1080p 60fps
Display Screens	1, 4, 6, 9, 16 & 32
HDD Capacity	4
Max HDD Storage	32TB
Backup Media	USB / 2 (rear panel)
RJ45	1000M
Alarm In / Out	4 / 2
PTZ Control	1 RS485 / 32 via Network
Network Supported Type	TCP/IP (Dynamic IP Support), DHCP, DDNS
Network Software	Remote Client, Smart Phone App
Network Audio	Live, Playback, Two Way Network Audio
System Control	USB Mouse
System	Watchdog System Auto Recovery
Dimensions	12" (W) x 2 3/4" (H) x 17 1/2" (D) / 1.5U
Protocol Support	Onvif 2.3 & HB3.0
Power	12vDC / 7A; 16 PoE Ports / 240W

RAID Support, eSATA, PoE and UPnP not available. Specifications subject to change.



CCN-2840F-20

Megapixel HD Turret IP Dome



4 Megapixel with IR and 3.6mm Fixed Lens

- Support WEB configuration, and IE network monitoring
- Support dual-stream
- True day/night performance, utilizing a motorized IR cut filter
- 0 lux with IR LEDs on
- 24 IR LED built-in array with smart IR LED control for IR projection up to 65 feet
- Support OSD, color, brightness, saturation and digital zoom
- Ultra-low illumination and high-performance real-time screen, support ABLC image effect
- 12vDC +/-5%, PoE 802.3af
- 3 3/4" (diameter) x 2 3/4" (height)
- Support protocols: TCP/IP, HTTP, DHCP, FTP, DNS, DDNS, RTSP, NTP, SMTP



Contact your Crest Representative today to learn more about this product!



Product Data: CCN-2840F-20 Megapixel HD Turret IP Dome

	CCN-2840F-20
Model Number	CCN-2840F-20
Product Description	4MP IP Turret Dome Camera with IR
Image Pick-Up Device	1/3" 4 Megapixel CMOS Image Sensor
Video Compression	H.264 / JPEG
Minimum Illumination	0 Lux with IR On
S/N Ratio	More than 52dB
Auto Electronic Shutter	NTSC: 1-1/10,000s (adjustable)
Bit Rate	64-12,000Kbps
Max Image Size	2560 x 1440
Back Light Compensation	Support
Frame Rate	60Hz 20FPS @ 4MP / 25FPS @ 1080p
Lens Interface Type	C / CS Mount
Lens Furnished	3.6mm Fixed Lens
Storage Function	FTP, Local, NVR, SMTP
Onvif	Onvif 2.4
Infrared Luminary	24 pieces Smart IR LED
Wave Length	850nm
Projection Distance	Up to 65 feet
Day/Night Activation	User Selectable
Communication Interface	RJ45 (10M / 100M) Adaptive Ethernet Port
Power Supply	12vDC +/-5%, PoE (802.3af)
Power Consumption	500mA with IR LED On
Operating Temperature	14 ~ 122°F
Dimensions	3 3/4" (Dia) x 2 3/4" (H)

Specifications subject to change



CCN-7940F-20

Megapixel HD IR Bullet Camera



4 Megapixel with IR and 3.6mm Fixed Lens

- Support WEB configuration, and IE network monitoring
- Support dual-stream
- True day/night performance, utilizing a motorized IR cut filter
- 0 lux with IR LEDs on
- 21 IR LED built-in array with smart IR LED control for IR projection up to 65 feet
- Support OSD, color, brightness, saturation and digital zoom
- Ultra-low illumination and high-performance real-time screen, support ABLC image effect
- 12vDC +/-5%, PoE 802.3af
- 2 3/4" (width) x 2 1/2" (height) x 6 5/8" (length)
- Support protocols: TCP/IP, HTTP, DHCP, FTP, DNS, DDNS, RTSP, NTP, SMTP

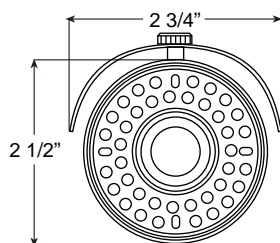


Contact your Crest Representative today to learn more about this product!

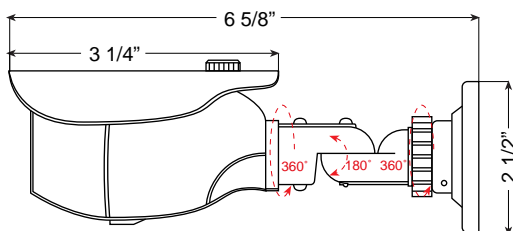


Product Data: CCN-7940F-20 Megapixel HD IR Bullet Camera

Front View



Side View



Model Number	CCN-7940F-20
Product Description	HD 4MP IP Bullet Camera
Image Pick-Up Device	1/3" 4.0MP OmniVision CMOS
Video Compression	H.264 / JPEG
Minimum Illumination	0 Lux with IR On
S/N Ratio	More than 52dB
Auto Electronic Shutter	NTSC: 1-1/10,000s (adjustable)
Bit Rate	64-12,000Kbps
Max Image Size	2560 x 1440
Back Light Compensation	Support
Frame Rate	60Hz 20FPS @ 4MP / 25FPS @ 1080p
Lens Interface Type	C / CS Mount
Lens Furnished	3.6mm Fixed Lens
Storage Function	FTP, Local, NVR, SMTP
Onvif	Onvif 2.4
Infrared Luminary	21 pieces Smart IR LED
Wave Length	850nm
Projection Distance	Up to 65 feet
Day/Night Activation	User Selectable
Communication Interface	RJ45 (10M / 100M) Adaptive Ethernet Port
Power Supply	12vDC +/-5%, PoE (802.3af)
Power Consumption	500mA with IR LED On
Operating Temperature	14 ~ 122°F
Dimensions	2 3/4" (W) x 2 1/2" (H) x 6 5/8" (L)

CCN-7940F-20	
Model Number	CCN-7940F-20
Product Description	HD 4MP IP Bullet Camera
Image Pick-Up Device	1/3" 4.0MP OmniVision CMOS
Video Compression	H.264 / JPEG
Minimum Illumination	0 Lux with IR On
S/N Ratio	More than 52dB
Auto Electronic Shutter	NTSC: 1-1/10,000s (adjustable)
Bit Rate	64-12,000Kbps
Max Image Size	2560 x 1440
Back Light Compensation	Support
Frame Rate	60Hz 20FPS @ 4MP / 25FPS @ 1080p
Lens Interface Type	C / CS Mount
Lens Furnished	3.6mm Fixed Lens
Storage Function	FTP, Local, NVR, SMTP
Onvif	Onvif 2.4
Infrared Luminary	21 pieces Smart IR LED
Wave Length	850nm
Projection Distance	Up to 65 feet
Day/Night Activation	User Selectable
Communication Interface	RJ45 (10M / 100M) Adaptive Ethernet Port
Power Supply	12vDC +/-5%, PoE (802.3af)
Power Consumption	500mA with IR LED On
Operating Temperature	14 ~ 122°F
Dimensions	2 3/4" (W) x 2 1/2" (H) x 6 5/8" (L)

Specifications subject to change



CCN-2840F-20A

Megapixel HD Turret IP Dome



4 Megapixel with IR and 3.6mm Fixed Lens

- Support WEB configuration, and IE network monitoring
- Support dual-stream
- True day/night performance, utilizing a motorized IR cut filter
- 0 lux with IR LEDs on
- 24 IR LED built-in array with smart IR LED control for IR projection up to 65 feet
- Built-in microphone for audio recording
- Support OSD, color, brightness, saturation and digital zoom
- Ultra-low illumination and high-performance real-time screen, support ABLC image effect
- 12vDC +/-5%, PoE 802.3af
- 3 3/4" (diameter) x 2 3/4" (height)
- Support protocols: TCP/IP, HTTP, DHCP, FTP, DNS, DDNS, RTSP, NTP, SMTP



Contact your Crest Representative today to learn more about this product!



Product Data: CCN-2840F-20A Megapixel HD Turret IP Dome

	CCN-2840F-20A
Model Number	CCN-2840F-20A
Product Description	4MP IP Turret Dome Camera with IR
Image Pick-Up Device	1/3" 4 Megapixel CMOS Image Sensor
Video Compression	H.264 / JPEG
Minimum Illumination	0 Lux with IR On
S/N Ratio	More than 52dB
Auto Electronic Shutter	NTSC: 1-1/10,000s (adjustable)
Bit Rate	64-12,000Kbps
Max Image Size	2560 x 1440
Back Light Compensation	Support
Frame Rate	60Hz 20FPS @ 4MP / 25FPS @ 1080p
Lens Interface Type	C / CS Mount
Lens Furnished	3.6mm Fixed Lens
Audio	Built-in, Transmits over Network
Storage Function	FTP, Local, NVR, SMTp
Onvif	Onvif 2.4
Infrared Luminary	24 pieces Smart IR LED
Wave Length	850nm
Projection Distance	Up to 65 feet
Day/Night Activation	User Selectable
Communication Interface	RJ45 (10M / 100M) Adaptive Ethernet Port
Power Supply	12vDC +/-5%, PoE (802.3af)
Power Consumption	500mA with IR LED On
Operating Temperature	14 ~ 122°F
Dimensions	3 3/4" (Dia) x 2 3/4" (H)

Specifications subject to change



CJ-3512C

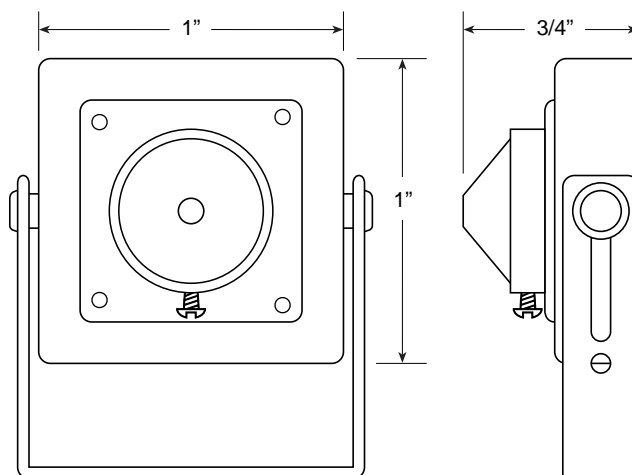
Board Camera with Pinhole Lens



960p/960H with 3.7mm Pinhole Lens

Model Number	CJ-3512C
Product Description	Color Board Camera with Pinhole Lens
Image Pick-Up Device	Sony 1/3" Super HAD CCD
Effective Resolution	1.3MP, 1280 x 960
Minimum Illumination	0.01 Lux
S/N Ratio	More than 50dB
Auto Electronic Shutter	NTSC: 1/60-1/100,000s
Auto White Balance	Yes
Auto Gain Control	Yes
Backlight Compensation	Auto
Gamma Characteristic	0.45
Synchronous System	Internal
Lens Furnished	3.7mm Pinhole
Video Output	Composite Signal (1.0 Vp-p / 75 ohms)
Power Supply	12vDC
Power Consumption	150mA
Operating Temperature	-4 ~ 122°F
Dimensions	1"W x 1"H x 1/4"D

Specifications subject to change



Front View

Side View

Contact your Crest Representative today
to learn more about this product!



CIP-200™

IP Encoder Transmitter Module



Model Number	CIP-200™
Video Compression	H.264, JPEG, Motion JPEG
Max Frame Rate	30fps/25fps for D1 (NTSC/PAL) in max resolution
Video Bit Rate	16 Kbps - 2 Mbps
Video Input	BNC (voltage 1.0Vp-p, resistance 75 ohm)
Audio Input	3.5mm, Microphone IN
Audio/Video Output	3.5mm, AV cable to TV Audio & Video Input
Alarm Input	Digital input port, Normal open (low), Current (DC) <50mA, Voltage <45V to activate
Alarm Output	Digital output port, Normal open, Voltage <80V, Current <50mA
Audio Compression	G.711a/u
Serial Ports	RS485 (PTZ control)
Embedded Analytics	Motion detection (up to 16 target areas)
Pre/Post Alarm Buffer	24MB
Snapshots	Triggered upon events, send via email/FTP
Multi Streaming Rate	Yes, for preview and recording
Security	Video watermark, HTTPS, User Password
Network Ports	10M/100M auto-sensing, RJ45
Protocol	TCP/UDP/IP, RTP/RTCP, RTSP, DHCP, DDNS, HTTP, HTTPS, SMTP, FTP, NTP
PoE	IEEE 802.3af, Class 0
SIP/VoIP Support	Yes, Voice & Video-over-I
Dimensions	2 5/8" x 1 3/8" x 3 3/4"
Weight	4.3 oz
Temperature/Humidity	32~113°F, Humidity 10-90% RH (non-condensing)
Power Adapter	Output 12vDC/0.5A; Input 100-240vAC, 50/60Hz
Compliance	FCC, CE, C-Tick

Specifications subject to change



Maximum Video Resolution: Encoding	
NTSC:	PAL:
704 x 480 @ 30fps (4CIF)	704 x 576 @ 25fps (4CIF)
640 x 480 @ 30fps (VGA)	640 x 480 @ 25fps (VGA)
352 x 240 @ 30fps (CIF)	352 x 288 @ 25fps (CIF)
320 x 240 @ 30fps (QVGA)	320 x 240 @ 25fps (QVGA)
176 x 112 @ 30fps (QCIF)	176 x 144 @ 25fps (QCIF)
Maximum Video Resolution: Decoding	
NTSC:	PAL:
704 x 480 @ 30fps (4CIF)	704 x 576 @ 25fps (4CIF)
640 x 480 @ 30fps (VGA)	640 x 480 @ 25fps (VGA)
352 x 240 @ 30fps (CIF)	352 x 288 @ 25fps (CIF)
320 x 240 @ 30fps (QVGA)	320 x 240 @ 25fps (QVGA)
176 x 112 @ 30fps (QCIF)	176 x 144 @ 25fps (QCIF)

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