



**Architectural Interior Products**  
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# CRFI VNF1700000001

**Date:** February 28, 2017

**Attn:** Crystal Rink  
WV Purchasing Div.  
Charleston, WV  
(304) 558-2402

**Subject:** VA Nursing Facility - CRFI VNF1700000001

Architectural Interior Products is West Virginia's leading supplier of commercial building products. We have accomplished this by providing superior service, first class materials, the most diversified product offering, while representing the most established, innovative manufacturers in the industry. If it's quality you're looking for, you've come to the right place. With branch locations in Parkersburg, Fairmont and Charleston our professional staff will quickly service your needs on time, every time.

In regards to the VA Nursing Facility in Clarksburg, WV, we submit this RFI.

It is our recommendation that you consider an IndigoVision Video Surveillance System. With IndigoVision's unique system design platform, you eliminate a signal point of failure. The NVR Server's sole purpose is to record and store video. There are many other reasons to choose IndigoVision, but they are too numerous to list. Please see the attached documents. Should you be interested in this system, we would love to schedule a product demonstration for you and your team.

Thank you for your consideration, should any questions arise, please contact me via email or phone, at the information listed below. Product specifications and system designs are available upon request.

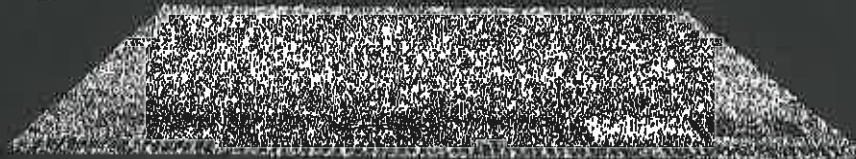
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WV Purchasing Division



CRFI VNF1700000001

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 500 Mbps and up to 40TB usable storage. Guaranteed tamper free evidence, automatic failover and integrated backup. 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	H.264	H.264	JPEG 2000	MJPEG	MPEG-4
	25fps	AAC	G.711		
OTHER	DNA	Firewall	Onvif	IPSEC	Windows
	1U Height	2U Height	19" Rack		
PHYSICAL					
STORAGE	RAID5	RAID6	SATA		

### Product Codes

SKU (Device)	SKU (Hardware #)	SKU (Management Software)
Enterprise NVR-AS RA6TB Windows	980465	980460
Enterprise NVR-AS RA8TB Windows	980466	980461
Enterprise NVR-AS RA12TB Windows	980467	980462
200 Channel	SKU (Hardware #)	SKU (Management Software)
Enterprise NVR-AS RA24TB Windows	980476	980473
Enterprise NVR-AS RA40TB Windows	980477	980472

### Enhanced Management Software Licenses

SKU (Device)	SKU (Hardware #)	SKU (Management Software)
ONVIF or Camera Gateway™ license per device	314001	314071

For more information:



# RFI - VA Nursing

**Project:**

CRFI VNF1700000001

**Video Surveillance System**



**IndigoVision**

**Supplied by:**

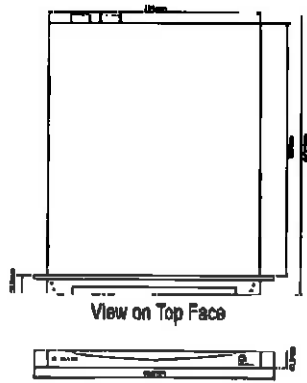


Access Control & Security Solutions

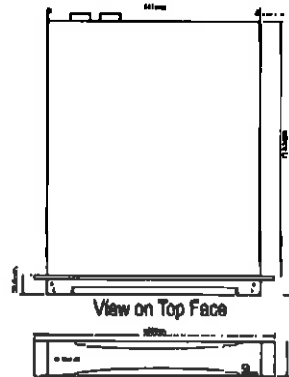
**Prepared By:**

Ed Randolph, jr.  
Security Consultant  
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Dimensions - 1U Chassis



Dimensions - 2U Chassis



CRFI VNF170000001

Specification

	10U Channel			20U Channel	
Form Factor	1U	1U	1U	2U	2U
Disk Bays (TB)	0	3	12	24	40
Recording Hard Drive Bays		4 (Hot-swappable)		12 (Hot-swappable)	
Operating System Hard Drive Bays		Configurable hard drive		Dual redundant separate mirrored drives	
RAID Controller		Hardware RAID Controller configured as RAID6		Hardware RAID Controller with Flash Backed Cache configured as RAID6	
Performance (Streams)*		100 Recording plus simultaneous playback of 20 streams		200 Recording plus simultaneous playback of 25 streams	
Performance (Throughput)*		128 Mbps in; 200 Mbps out; 328 Mbps total		600 Mbps in; 200 Mbps out; 700 Mbps total	
Network Interface		Dual Port Redundant 100/1000 Base T RJ-45 Connections, TCP, UDP, ICMP, IGMP, SNMP, HTTP, NTP, Telnet, FTP		Dual Port Redundant 100/1000 Base T RJ-45 Connections, TCP, UDP, ICMP, IGMP, SNMP, HTTP, NTP, Telnet, FTP	
Dimensions/Weight		607mm (D) x 434mm (W) x 43.0mm (H) and 19.3Kg		718.5mm (D) x 444mm (W) x 87.5mm (H) and 29.6Kg	
Electrical		350W, 100-240VAC, 50/60 Hz, Auto Switching, Single Hot Swappable PSU, Secondary Dual-Redundant Hot Swap PSU support		700W, 100-240VAC, 50/60 Hz, Auto Switching, Single Hot Swappable PSU, Secondary Dual-Redundant Hot Swap PSU support	
Processor		Intel Xeon E5		Intel Xeon E5	
Memory		8GB RAM (5 x 3GB)		16GB RAM (4 x 4GB)	
General Specifications					
Operating System	Windows Server 2008 R2 for Embedded Systems Essentials				
Video	Simultaneous record and playback full frame rate, full resolution video streams from any IndigoVision IP Camera or Encoder, Record and playback from other cameras				
Audio	Recording and playback of AAC and G.711 audio				
Thumbnailing	Indexed recording for rapid display of image-based, alarm-based or motion-based thumbnails				
Alarms	Recording and logging of alarms and events				
Blockwrite	Recording and logging of thumbnails 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				
Automatic Storage Management	Policy based management options for automatic deletion or protection of old footage				
Digital Watermarking	Digital signing at point of recording and at export				
Recording Hard Drive	3.5in Nearline SATA				
Network Security	Enhanced Windows Server 2008 Firewall, Network Access Protection (NAP)				
Regulatory	EN 60950-1, IEC 60950, EN 62311, 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	Mid Steel Chassis and Fascia				
Operating Temperature	10°C to 35°C				
System Management	iDRAC7 Express				
Supplied Accessories	Rack Mount Kit (brackets, cable rails and mounting hardware), removable lockable fascia, PDU power cord and USB remote media				
Onboard Diagnostics	Disk Redundancy, Controller, Enclosure, Fans, Power Supplies, Temperatures				

\* Features may vary based on capabilities of camera model  
 \*\* ONVIF or supported via IndigoVision Camera Gateway™  
 † With or without Digital Watermarking enabled.

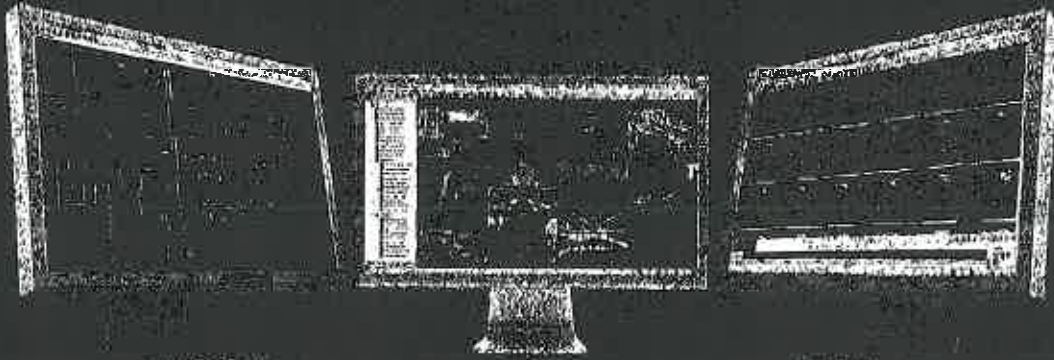
Accessories

Accessories	Product Code
Enterprise NVR-AS 100 Channel Redundant PSU	110014
Enterprise NVR-AS 200 Channel Redundant PSU	110015
Enterprise NVR-AS 3TB SATA Hard Disk Caddy & Disk	110303
Enterprise NVR-AS 4TB SATA Hard Disk Caddy & Disk	110304



CRFI VNF1700000001

IndigoVision



# Control Center

Powerful and intuitive video and alarm management software

Control Center is IndigoVision's complete suite of management software. The user friendly software enables quick and efficient management of all your video and events from one location. Control Center allows live viewing and playback of IndigoVision cameras and a wide range of cameras from other manufacturers.

An unlimited licence and Distributed Network Architecture (DNA) gives you the option to locate operators anywhere on the network and manage you system locally or remotely.

- Intuitive user interface
- Lightning quick evidence review
- View any camera, anywhere, anytime
- Unified control for your entire system
- Map based navigation
- ONVIF Profile S
- Integrated Body Worn Video management

### Product Code

Control Center	
IndigoVision Product CD - Control Center	317603



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Specification

CRFI VNF170000001

General Specification	Supported on IndigoVision Ultra Range Cameras* & Ultra Range Encoders	Supported on IndigoVision BX and GX Ranges, FrontLine 3, Ultra Encoders
Live Viewing	100 video streams (25 per screen)	100 video streams (25 per screen)
PC Monitors	✓	✓
Video Compression Formats	MPEG-4 / H.264	MPEG-4 / H.264 / MJPEG / JPEG2000
Video Resolutions	Up to 1080p	Up to 20MP
Audio	Receive / Transmit	Receive / Transmit*
Audio Compression Formats	AAC	AAC / G.711
Network Connection Types	TCP / UDP Unicast (Tunneled) / UDP Multicast	TCP (Tunneled) / UDP Unicast / UDP Multicast
Snapshots	BMP / JPEG	BMP / JPEG
PTZ Control	✓	✓
Digital Zoom	✓	✓
Camera Views	✓	✓
Privacy Zones	✓	✓
Analog Monitors (Decoders)	✓ (8000 Range)	X
Video Wall	✓	✓
Playback	25 streams	25 streams
Synchronous Playback	✓	✓
Reverse Playback	✓	✓
Frame Step	✓	✓
Bookmarking	✓	✓
Search (Alarms and Bookmarks)	✓	✓
Motion and Audio Search	✓	✓
Thumbnail Overview	Time / Alarm / Bookmark / Motion / Audio	Time / Alarm / Bookmark / Motion / Audio
Incident Export	Incident Player / 3rd Party Player (.mp4)	Incident Player / 3rd Party Player (.mp4)
Camera Sequences	✓	✓
Sequences, Salvos and Guard Tours	✓	✓
Event Inputs	Binary / Analytics / Network and Video Loss	Binary / Motion Detection / Network Loss
Actions	Record / Email / Snapshot / Move to Preset / Relay Output / Audio	Record / Email / Snapshot / Move to Preset / Relay Output*
Alarm Video	Live and Latched Replay / Pre-alarm video	Live and Latched Replay / Pre-alarm video
Matrix Numbering	1 - 9,999,999	
Keyboard Support	IndigoVision / Pelco / American Dynamics / Panasonic	
Procedure Documents	HTML / Text / URL	
Time Schedules	✓	✓
Alarms on Maps	✓	✓
Alarm Reports	✓	✓
Integrated Data	Manage millions of data records from LPR, EPOS and other integrations	
User Authentication	Windows authentication / Basic password	
User Groups	✓	✓
Access Permissions	Object and function based permissions	
Architecture	Fully distributed, no central server	
Licensing	Unlimited users	
Third Party Inputs	Using IndigoVision Binding Kit	
Zones	Group multiple inputs into a single alarm	
Device Discovery	✓	✓
Maps	Multi-layered maps (BMP / JPEG / PNG / DWS), Online File Server / Online TMS Server	
Timezones	✓	✓
Device Status Summary	✓	✓
Audit Log	✓	✓
Multiple Languages	12 languages including: English, French, German, Spanish	
ONVIF	Profile S	
Supported Operating Systems	Windows 7 @ 64-bit, Windows 8 @ 64-bit, Windows 8.1 @ 64-bit, Windows 10 @ 64-bit	

\* Features may vary based on capabilities of camera model.  
\*\* Excludes Ultra 6K.  
^ Please refer to the FrontLine datasheet for details.



Access Control & Security Solutions

CRFI VNF1700000001



IndigoVision

ULTRA RANGE

30x  
Optical

# Ultra 2K PTZ Dome Camera

Capture every detail with ultra-high resolution

With best in class performance, the IndigoVision Ultra 2K PTZ Dome Camera delivers rich Full HD video and image clarity in all lighting conditions. Image stabilisation and ultra-low PTZ latency gives smoother operator viewing and control. 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 PTZ Dome Camera (NTSC)	Camera with Enhanced Management Software
Ultra 2K In-Ceiling PTZ, 30x Lens	582142
Ultra 2K Pendant PTZ, 30x Lens	582146
Ultra 2K Environmental Pendant PTZ, 30x Lens	582147

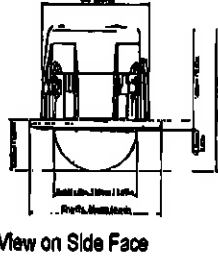
Product Code 61007 also available in 4K, consisting of 6000x Product Code without Enhanced Management Software.



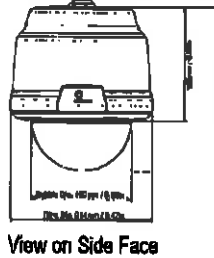
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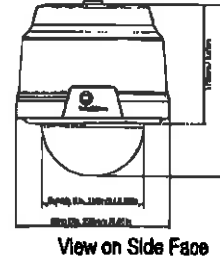
Dimensions - In-Ceiling



Dimensions - Standard



Dimensions - Environmental



Specification

CRFI VNF170000001

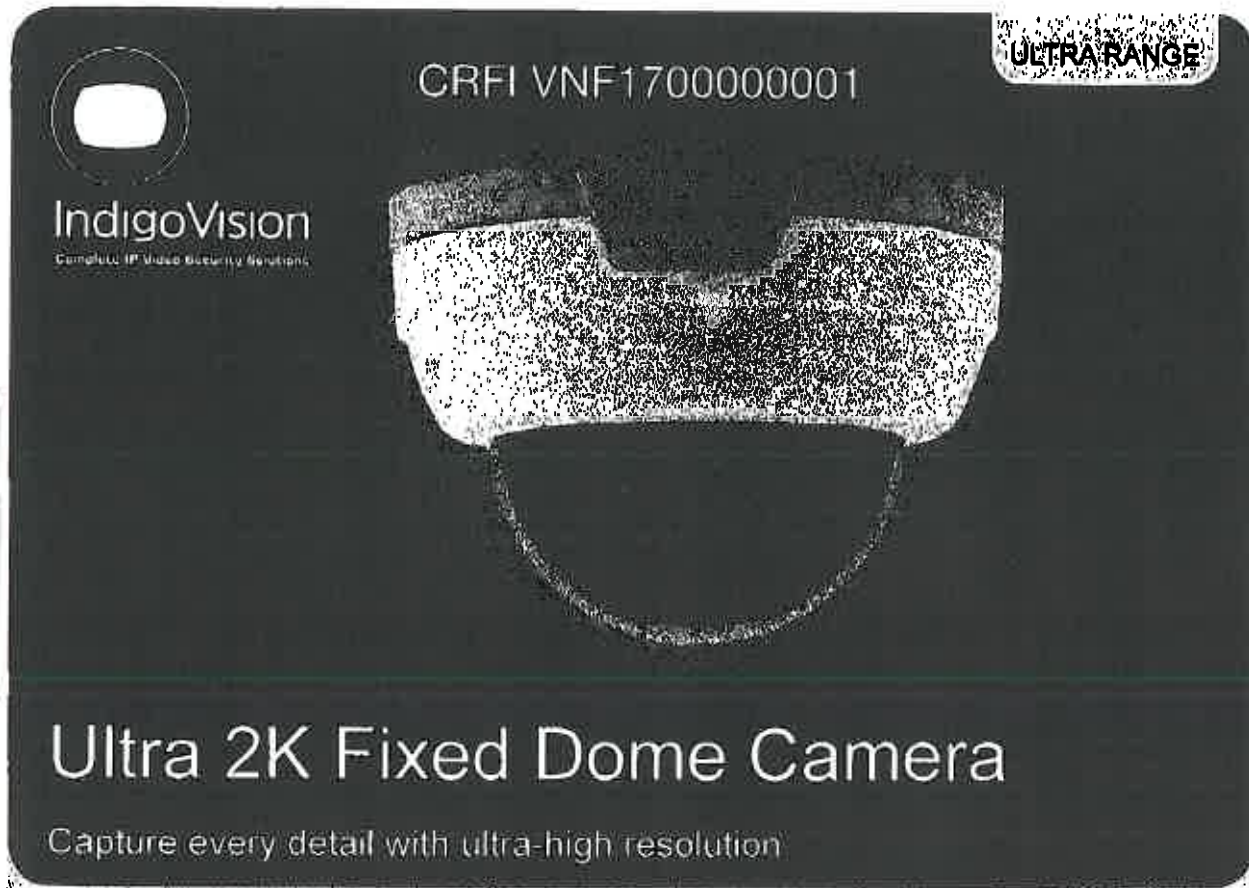
Camera Feature	Specification
Sensor	1/2.8" Progressive CMOS
Active Pixels (MVA)	2MP (1920 x 1080)
Horizontal Resolution	> 800 TVL
Minimum Sensitivity	Day: 0.05 Lux (color); Night: 0.013 Lux (mono); 60 IR LEDs, 15.6 m range
Dynamic Range	WDR 120dB Max
Gain Control	Auto gain across 0-20dB range
Back Light Compensation	On/Off
White Balance Mode	Auto/Advanced Auto/Auto Outdoor/Auto Sodium/Fluor. Indoor/Fluor. Outdoor/Fluor. 6000K/Manual/White Balance Preset
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/540 x 360 pixels; 16:9 ratio
Signal/Noise Level	> 50dB
Lens Options	4.3mm (128mm), Horizontal view angle 63.7° (V) 2.3° (H), F1.8 to F4.7; Automatic with manual override
Zoom	30x optical + 12x digital
iris Control	Automatic/Manual/Variable
Shutter	Rolling: Auto from 1/1 to 1/10,000 sec
Exposure Control	Auto/Manual/Slow AE
Image Stabilizer	Yes (StableZoom™)
Video Compression	Full frame rate, H.264 (SP), 4496-10; 30fps guaranteed
Video Bit Rate	User-configurable from 32Kbps up to 6Mbps
Video Multi-Streaming	Up to 32Mbps total video output; Unlimited multicast connections; Up to 16Mbps unicast connections; Up to 16Mbps 1Mbps unicast connections
Video Multi-Encoder	Up to two simultaneous resolutions with guaranteed frame rate including: 1080p (30fps), SD (30fps)
Video Analytics	Standard: ACR, ACF, Motion Detection, Hoopball, Abnormal: Data Transfer, Compression, Countdown, Mismatch
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: Stream Configuration; Encoder B: Stream Configuration
Audio Resolution	Full Duplex 16kHz, 16 Bit Mono/Stereo Input, Mono Output
Audio Input	Bridged / Mono line in terminal block connector, external voltage: 1V p-p, Max 50mV p-p; Mic type: dynamic or electret
Audio Output	Mono line out terminal block connector, 1V p-p, Minimum load impedance: 18 Ohms
Binary Input/Output	2 Full up inputs for non-powered contacts; 1 push state open/collected relay output @500mA; LED output @20mA
Data Input/Output	1 Console port: RS232 up to 115.2 Kbps*
Network Interfaces	IEEE802.3 and IEEE802.3u 10/100 Base-T Ethernet, TCP, UDP, RTP, ICMP, IGMP, SNMP, DHCP, 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 61024, EN 60068-2-28, EN 60068-2-1 & 2, EN 60068-2-33, EN 60068-2-6 & 04, CFR47 Part 15 subpart B - Class A, UL60950-1, UL2043**, UL60950-2***
IndigoVision Software Requirements	Control Center V11.0 or later
ONVIF	Profile S*

PTZ Control	PTZ Control	PTZ Control	PTZ Control
Preset	250	Privacy Zones	26 User Defined
Preset Accuracy	0.06°	Pan Range	360° Continuous Rotation
Preset Tours	20 each with 20 presets	Tilt Range	100° (-10° above horizon to 90° vertically down)
Pan/Tilt/Zoom	4 each with up to 4 minutes	Pan/Tilt Speed	0.001°/s to 360°/s
Picture Freeze Option	Yes	Preset Move Speed	200°/s

Camera Feature	In-Ceiling	Standard	Environmental
Dimensions/Weight	240mm (ring dia) x 256mm (h) (50mm below ceiling) and 2.6Kg / 9.40lb (ring dia.) x 10.07in (h) (3.64in below ceiling) and 5.732lb	216mm (dia) x 241mm (h) and 3.7kg / 8.42lb (dia.) x 9.48in (h) and 8.157lb	225mm (dia) x 246mm (h) and 4.6kg (with sun shield) / 8.85in (dia.) x 9.76in (h) and 10.141lb (with sun shield)
Housing	Aluminum with acrylic dome	Vandal resistant (diecast) aluminum with polycarbonate dome	Vandal resistant (diecast) aluminum/polycarbonate dome with aluminum sun shield
Protection Rating (Electrical)	N/A	IP66, IK10 (IEC 62262), NEMA 250 4X	IP66, IK10 (IEC 62262), NEMA 250 4X
Operating Temperature	-10°C to 50°C (14°F to 122°F)	-10°C to 50°C (14°F to 122°F)	-10°C to 50°C (14°F to 122°F) External PSU: -20°C to 50°C (-58°F to 122°F)
Cold Start	0°C (32°F)	0°C (32°F)	-40°C (-40°F)

\* In-Ceiling PTZ Dome only. \*\* Advanced Video Analytics requires a license. \*\*\* Standard and Environmental PTZ Domes only. \*Firmware upgrade is required for ONVIF Conformance. ID: ULTRA-2K\_PC 16.6 NOV 16





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 optimized H.264 compression and ACF+, reducing storage costs by up to 95%.

**Key Features**

SENSOR						
	COMPRESSION					
		INTELLIGENCE				
OTHER						
	PHYSICAL					

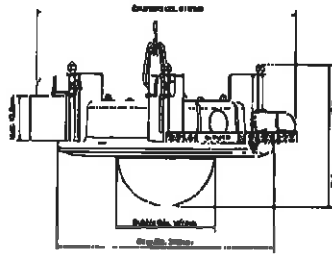
**Product Codes**

Ultra 2K In-Ceiling Fixed Dome (PAL)	Ultra 2K In-Ceiling Fixed Dome (NTSC)
Ultra 2K In-Ceiling Fixed Dome, 3.9mm Lens	562427
Ultra 2K In-Ceiling Fixed Dome, 10.29mm Lens	562428
Ultra 2K Internal Fixed Dome, 3.9mm Lens	562417
Ultra 2K Internal Fixed Dome, 10.29mm Lens	562418
Ultra 2K Environmental Vandal Resistant Fixed Dome, 3.9mm Lens	562447
Ultra 2K Environmental Vandal Resistant Fixed Dome, 10.29mm Lens	562448

For more information:

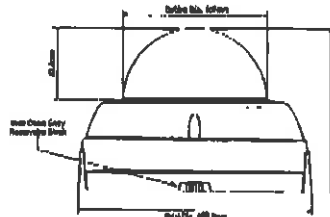


Dimensions: In-Ceiling



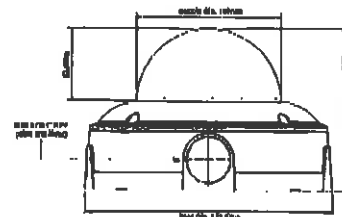
View on Side Face

Dimensions: Internal



View on Side Face

Dimensions: Environmental  
Vandal Resistant



View on Side Face

Specification

CRFI VNF170000001

Parameter	In-Ceiling	Internal	Environmental/Vandal Resistant
<b>Sensor</b>	1/3" Progressive CMOS		
<b>Active Pixels (HxV)</b>	2448 (1920 x 1080)		
<b>Horizontal Resolution</b>	> 850 TVL		
<b>Minimum Brightness</b>	Day: 0.05 lux (colour), Night: 0.008 lux (mono); 30 IRE; F1.2, 1/4s shutter, Day: 0.8 lux (colour), Night: 0.09 lux (mono); 90 IRE; F1.2, 1/20s shutter		
<b>Dynamic Range</b>	WDR 100dB Max		
<b>Gain Control</b>	Auto gain 80dB to 42dB range		
<b>Back Light Compensation</b>	On/Off		
<b>White Balance Mode</b>	Auto (auto), Custom (manual), One Push		
<b>Day/Night</b>	True Day/Night with Mechanical IR Cut Filter		
<b>Video Resolution</b>	HD 1080p: 1920 x 1080 pixels; 720p: 1280 x 720 pixels; SDI: 960 x 540 pixels; 640 x 360 pixels; 1440 pixels		
<b>Signal/Noise Level</b>	> 36dB		
<b>Lens Options</b>	Standard 3mm, 4mm, 6mm, 8mm, 12mm, 16mm, 20mm, 25mm, 30mm, 36mm, 40mm, 45mm, 50mm, 55mm, 60mm, 65mm, 70mm, 75mm, 80mm, 85mm, 90mm, 95mm, 100mm, 105mm, 110mm, 115mm, 120mm, 125mm, 130mm, 135mm, 140mm, 145mm, 150mm, 155mm, 160mm, 165mm, 170mm, 175mm, 180mm, 185mm, 190mm, 195mm, 200mm, 205mm, 210mm, 215mm, 220mm, 225mm, 230mm, 235mm, 240mm, 245mm, 250mm, 255mm, 260mm, 265mm, 270mm, 275mm, 280mm, 285mm, 290mm, 295mm, 300mm, 305mm, 310mm, 315mm, 320mm, 325mm, 330mm, 335mm, 340mm, 345mm, 350mm, 355mm, 360mm, 365mm, 370mm, 375mm, 380mm, 385mm, 390mm, 395mm, 400mm, 405mm, 410mm, 415mm, 420mm, 425mm, 430mm, 435mm, 440mm, 445mm, 450mm, 455mm, 460mm, 465mm, 470mm, 475mm, 480mm, 485mm, 490mm, 495mm, 500mm, 505mm, 510mm, 515mm, 520mm, 525mm, 530mm, 535mm, 540mm, 545mm, 550mm, 555mm, 560mm, 565mm, 570mm, 575mm, 580mm, 585mm, 590mm, 595mm, 600mm, 605mm, 610mm, 615mm, 620mm, 625mm, 630mm, 635mm, 640mm, 645mm, 650mm, 655mm, 660mm, 665mm, 670mm, 675mm, 680mm, 685mm, 690mm, 695mm, 700mm, 705mm, 710mm, 715mm, 720mm, 725mm, 730mm, 735mm, 740mm, 745mm, 750mm, 755mm, 760mm, 765mm, 770mm, 775mm, 780mm, 785mm, 790mm, 795mm, 800mm, 805mm, 810mm, 815mm, 820mm, 825mm, 830mm, 835mm, 840mm, 845mm, 850mm, 855mm, 860mm, 865mm, 870mm, 875mm, 880mm, 885mm, 890mm, 895mm, 900mm, 905mm, 910mm, 915mm, 920mm, 925mm, 930mm, 935mm, 940mm, 945mm, 950mm, 955mm, 960mm, 965mm, 970mm, 975mm, 980mm, 985mm, 990mm, 995mm, 1000mm		
<b>Zoom</b>	3x optical standard, 2.3x optical telephoto		
<b>IR Camera</b>	Selectable with manual override		
<b>Shutter</b>	Rolling; Auto from 1/1 to 1/50,000 sec		
<b>Exposure Control</b>	Auto (Auto), Shutter (Shutter)		
<b>Gimbal Adjustment</b>	3 axis adjustment		
<b>Video Compression</b>	Full frame rate, full colour, H.264 (ISO 14496-10); 23fps guaranteed		
<b>Video Bit Rate</b>	User-configurable from 32Kbps up to 8Mbps		
<b>Video Multi-Streaming</b>	Up to 8Mbps per video output. Unlimited multi-angle compression. Up to 4 camera angles (most configurations). Up to 4 camera angles (most configurations)		
<b>Video Multi-Encoder</b>	Up to two simultaneous resolutions with guaranteed frame rate including: 1080p (23fps), SD (23fps)		
<b>Video Analytics*</b>	Standard: ACF, ACF+, Motion, Detector, Hoop, Advanced; Dual, Dynamic, Compression, Counting, Museum		
<b>Audio Compression</b>	AAC-LC (ISO 14496-3)		
<b>Audio Bit Rate</b>	User-configurable bit rate from 32Kbps to 160Kbps per channel		
<b>Audio Protocol</b>	RTP (RFC 3640)		
<b>Audio Data Encoder</b>	Encoder A: 1 Stream Configuration plus Encoder B: 8 Stream Configuration		
<b>Audio Resolution</b>	Full Duplex 16kHz, 16 Bit Mono/Stereo Input, Mono Output		
<b>Audio Input</b>	Stereo / Mono line in terminal block connector, Nominal voltage: 1V p-p, Max 30V p-p; Mic type: dynamic or electret		
<b>Audio Output</b>	Mono line out terminal block connector, 1V p-p, Minimum load impedance: 16 Ohms		
<b>Binary Input/Output</b>	2 Push dp (input) or non-powered contacts; 1 solid state opto-isolator relay output @ 500mA, LED output @ 20mA		
<b>Data Input/Output</b>	1 Console port: RS232 up to 115.2 Kbps		
<b>Network Interface</b>	IEEE802.3 and J45/J45T standards; 10/100/1000 Ethernet; TCP, UDP, RTP, ICMP, IGMP, SNMP, SSH, DHCP, NTP, DNS, NTPS, HTTPS, SSH		
<b>Network Security</b>	HTTPS / Embedded Linux Firewall, Salted passwords, with MD5 encryption		
<b>Time</b>	Embedded real-time clock; NTP client; time battery backup		
<b>Regulatory</b>	EN 55022 - Class A, EN 55024, EN 60088-2-20, EN 60088-2-1 & 2, EN 60088-2-30, EN 60088-2-6 & 64, CFR47 Part 15 subpart B - Class A, UL60950-1, UL2043**		
<b>Integration Software Requirements</b>	Control Center V11 or later		
<b>ONVIF**</b>	Profile S		
<b>Dimension/Weight</b>	225mm (ring dia.) x 161.6mm (h) (71.6mm below ceiling) and 1.1Kg	168.6mm (dia.) x 114mm (h) and 0.83Kg	171.6mm (dia.) x 116mm (h) and 1.1Kg
<b>Mounting</b>	Aluminium with polycarbonate dome	Polycarbonate ABS with polycarbonate dome	Stainless aluminium alloy with polycarbonate dome
<b>Protection Rating</b>	N/A	N/A	IP68/IK10 (IEC 62262), NEMA 250 4X
<b>Electrical</b>	PoE (802.3af Class 0) or 24V AC/DC @ 0.4A / 9.6W max	PoE (802.3af Class 0) or 24V AC/DC @ 0.4A / 9.6W max	24V AC/DC (PoE by configuration) or 24V @ 1.33A / 32W max. Power supply not included
<b>Operating Temperature</b>	0°C to 60°C	0°C to 60°C	-40°C to 65°C
<b>Case Size</b>	0°C	0°C	50°C

\* Internal and In-Ceiling Dome only. \*\* In-Ceiling Dome only.  
\* Advanced Video Analytics require a license. \*\* Firmware upgrade is required for ONVIF Conformance.

**ADDENDUM ACKNOWLEDGEMENT FORM**  
**SOLICITATION NO. VNF170000001**

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

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

**Addendum Numbers Received:**

(Check the box next to each addendum received)

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

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

AIP - Total Access  
Company

[Signature]  
Authorized Signature

2-28-17  
Date

**NOTE:** This addendum acknowledgment should be submitted with the bid to expedite document processing.  
Revised 6/8/2012