

State of West Virginia Request for Quotation 09 - Construction

Proc Folder: 181627

Doc Description: Addendum No. 3 - Request for Quotation for Security Cameras

Proc Type: Central Purchase Order

Date Issued Solicitation Closes Solicitation No Version 2016-08-22 2016-08-31 **CRFQ** 0702 TAX1600000017 13:30:00

द्यांकारा चलाचे प्रार्थित हो।

BID CLERK

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION

2019 WASHINGTON ST E

CHARLESTON

W 25305

US

Longs' Security Camera Systems LLC 10238th ST S.E.

Charleston WV 25384

Designed to be expandable with a mix of PTZ, Vari-focal and fixed comera to get the best coverage completely around facility.

> 08/31/16 12/58/13 MU Purchasing Division

for information	CONTACT	THE BUYER
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Michelle L Childers (304) 558-2063

michelle.i.childers@wv.gov

Signature X

FEIN# 20-3881880

DATE 08/31/2016

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

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FORM ID: WV-PRC-CRFQ-001

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Addendum

Addendum No. 03 issued to publish and distribute the attached information to the vendor community.

The West Virginia State Purchasing Division is soliciting bids, on behalf of the Tax Division of the West Virginia Department of Revenue, to establish a one-time construction contract for the purchase of a Security Camera System(s) including installation, testing, employee training and three years of full warranty coverage, including time and materials. Installed system must have night vision, must have clarity at three hundred (300) feet in total darkness, and must provide three hundred sixty (360) degree coverage of the building exterior, including the parking lots to the side and rear of the building, sidewalks in front of, beside, and behind the building. Existing interior cameras will be replaced and additional interior cameras added. The cameras which are replaced will be sent to Surplus Property for disposition. In addition, the installed system must be capable of being remotely monitored from an off-site location, via a secure IP address.

OPERATIONS DIVISION TAX DIVISION OF PO BOX 11748		OPERATIONS DIVISION TAX DIVISION OF REVENUE CENTER	
		1001 LEE ST E, STE 3	
CHARLESTON	WV25339-1748	CHARLESTON	WV 25301-1725
US		US	

Line	Comm Ln Desc	Qty	Unit issue	Unit Price	Total Price
1	Security Cameras	0.00000			

Comm Code	Manufacturer	Specification	Model #	
46171610			INIOGU IF	
				1
				1

Extended Description:

Security cameras needed to supply 360 degree coverage around the Revenue Center located at 1001 Lee St., East, Charleston, WV. All existing interior and exterior cameras will be replaced and additional interior and exterior cameras will be added.

ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.:

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)

[]	4	Addendum No. 1	[]	Addendum No. 6
Įι	<u>.</u>	Addendum No. 2	[]	Addendum No. 7
[٤	7	Addendum No. 3	[]	Addendum No. 8
[]	Addendum No. 4	[J	Addendum No. 9
[]	Addendum No. 5	[]	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.

Mar ()

Date

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

Exhibit A
Security Camera System

ltem	Part Number	Description	Brand of Equipment Bid	Unit of Measure	Unit Cost	Qty	Extended Cos
4	D3-2CD27FUP D5-2DF7286 D5-2CE36D5T	26 Security Cameras with Licenses	Hikuiszon		504,10		13,106.60
J.C.I.I		Per Specifications		Each	\$-	26	\$
3.2.2	DS-9664NT-I8	Network Video Recorder (NVR)	Hituision 64ch/4K/6TB	Each	2798-90 s-	1	2798.90
3.2.3	CUSTOM	Computer Peripherals (Mounts, Required Cables, Network Interface Cards, etc., to Allow the System to be Fully Fuctional	HP Custem built Video 32" 4k movitor		2500.00		2500.00
3.2.4	nlr	Installation, Set-Up, Testing, and Employee User Training	LSCS	Lump Sum	\$- 12,000.00 \$-	1	12,000.00
	nla		LSCS		Ø		<u> </u>
3.2.5		Warranty and Maintenance		Lump Sum	\$-	1	\$-
Above is an average of the provided connera. Below is detailed comera schedule 8-DS-2CD2722FWD-IZS Outside Permineter fixed comeraTotal Bid 4-DS-2DF7286-AEL PTZ. Outside Provide detail out greater Amount			30,405.50				
8	-DS-2CD7	2722FWD-IZS OUT	iside Vermineter t side Provide detail	ort great	er Amoun	t	<u>\$</u> -

14-DS-ZCE56D5T-ITI/IT3-Indoor IR camera

8=\$383.50 4=\$1,986.40 CAMERO COST Breakout 14=\$150.00



DS-9600NI-I8 Series NVR



Available Models

DS-9632NI-18, DS-9664NI-18;



Key Features

Professional and Reliable

- Dual-OS design to ensure high reliability of system running
- ANR technology to enhance the storage reliability when the network is disconnected
- HDD hot swap with RAID0, RAID1, RAID5 and RAID10 storage scheme configurable

HD Input

- H 265/H 264+/H.264/MPEG4 video formats
- Connectable to the third-party network cameras
- Up to 64 IP cameras can be connected
- Recording at up to 12 MP resolution
- Supports live view, storage, and playback of the connected camera at up to 12 MP resolution

HD Output

- HDMI1/VGA1 and HDMI2/VGA2 outputs provided
- HDMl1 Video output at up to 4K (3840 × 2160) resolution

HD Storage

- Up to 8 SATA interfaces and 1 eSATA interface connectable for recording and backup
- Storage space effectively saved by 50% to 70% with the use of H.264+ decoding format

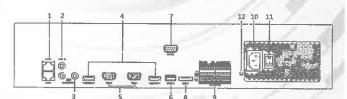
HD Transmission

 2 self-adaptive 10M/100M/1000M network interfaces, and two working modes are configurable: multi-address and network fault tolerance

Various Applications

- Centralized management of IP cameras, including configuration, information import/export, real-time information display, two-way audio, upgrade, etc.
- Connectable to smart IP cameras from Hikvision and the recording, playing back, and backing up of VCA alarms can be realized
- VCA detection alarm is supported
- Instant playback for assigned channel during multi-channel display mode
- Smart search for the selected area in the video, and smart playback to improve the playback efficiency
- Supports HDD quota and group modes, different capacity can be assigned to different channels

Physical Interfaces



Index	Description
1	LAN1/LAN2 Interface, 2 RI-45 10 /100 /1000 Mbps self-adaptive Ethernet interfaces provided
2	LINE IN, RCA connector for audio input
3	AUDIO OUT, RCA connector for audio output
4	HDMI1/HDMI2, HDMI video output connector
5	VGA1/VGA2, DB9 connector for VGA output. Display local video output and menu.
6	USB 3.0 Interface
7	RS-232 Interface
8	eSATA Interface
9	Controller Port, Alarm In/Alarm Out
10	100 to 240 VAC power supply
11	Power Switch
12	GND





DS-9600NI-18 Series NVR



Specifications

Model		DS-9632NI-18	DS-9664NI-18			
	ID vides is sub	32-ch	64-ch			
Video/Audio input	IP vídeo input	Up to 12 MP resolution				
	Two-way audio	1-ch, RCA (2.0 Vp-p, 1kΩ)				
	Incoming bandwidth	320 Mbps, or 200 Mbps (when RAID is enabled)	320 Mbps, or 200 Mbps (when RAID is enabled)			
Network	Outgoing bandwidth	256 Mbps, or 200 Mbps (when RAID is enabled)	•			
	Remote connection	128				
	Recording resolution	12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF				
Video/Audio output	VGA1./HDMI1 output	1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz	z, 1920 × 1080p/60Hz, 1600 × 1200/60Hz, 1280			
	resolution	VGA1: 2K (2560 × 1440)/60Hz, 1920 × 1080p/60 720/60Hz, 1024 × 768/60Hz	OHz, 1600 × 1200/60Hz, 1280 × 1024/60Hz, 1280			
	VGA2 /HDMI2 output resolution	1920 × 1080p/60Hz, 1280 × 1024/60Hz, 1280 × 7	20/60Hz, 1024 × 768/60Hz			
	Audio output	2-ch, RCA (2.0Vp-p, 1 KΩ)				
Decoding	Decoding format	H.265/H.264/MPEG4				
	Live view / Playback resolution	12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF				
	Synchronous playback	16-ch				
	Capability	4-ch @4K, or 16-ch @ 1080p				
	SATA	8 SATA interfaces for 8HDDs				
Hard disk	eSATA	1 eSATA interface				
	Capacity	Up to 6TB capacity for each HDD				
Olehenne	Array type	RAIDO, RAID1, RAID5, RAID10				
Olsk array	Number of arrays	4				
	Network interface	2, RJ-45 10/100/1000 Mbps self-adaptive Etherne	t interface			
External interface	Serial interface	RS-232; RS-485, Keyboard				
IIIVEI IOCE	USB interface	Front panel: 2 × USB 2.0; Rear panel: 1 × USB 3.0				
	Alarm in/out	16/4				
	Power supply	100 to 240 VAC, 50 to 60 Hz				
	Max. Power	200 W				
	Consumption (without hard disk)	≤30 W				
Canami	Working temperature	-10 to +55°C (14 to 131°F)				
General	Working humidity	10 to 90 %				
	Chassis	19-inch rack-mounted 2U chassis				
	Dimensions(W × D × H)	445 × 470 ×90 mm (17.5"× 18.5" × 3.5")				
	Weight(without hard disk)	≤ 10 Kg (22 lb)				



DS-2CE56D5T-IT1/IT3 HD1080P EXIR Turret Camera





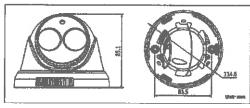




Key features

- 2 Megapixel high-performance CMOS
- Analog HD output, up to 1080P resolution
- True Day/Night
- OSD menu, 3D DNR, Smart IR
- Up to 20/40m IR distance
- IP66 weatherproof & vandal proof
- UTC function(Pelco C protocol)

Dimensions



Accessories



Available models

DS-2CE56D5T-IT1 DS-2CE56D5T-IT3

	DS-2CE56D5T-(T1	DS-2CE56DST-IT3
Camera		
Image Sensor	2 MP CMOS image Sensor	
Signal System	PALINTSC	
Effective Pixels	1920(H)*1080(V)	
Min. Illumination	0.01 Lux @(F1.2,AGC ON), 0 Lux with IR	
Shutter Time	1/25(1/30) s to 1/50,000 s	
	3.6mm (2.8mm, 6mm, 8mm optional)	3.6mm (2.8mm, 6mm, 8mm, 12mm, 16mm optional)
Lens	Angle of View: 82.6°(3.6mm), 103.5°(2.8mm), 54.4°(6mm), 38°(8mm)	Angle of View: 82.6°(3.6mm), 103.5°(2.8mm), 54.4°(6mm), 38°(8mm), 24.4°(12mm), 18.9°(16mm)
Lens Mount	M12	
Angle Adjustment	Pan: 0 - 360°, Titt: 0 - 90°, Rotation: 0 - 360°	
Day & Night	ICA	
Synchronization	Internal synchronization	
Video Frame Rate	1080p@25fps/1080p@30fps	
HD Video Output	1 Analog HD output	
CVBS Output	1Vp-p Composite Output(75Ω/BNC)	
S/N Ratio	More than 52dB	
WDR	120dB	
Menu		
Scene	Indoor, Outdoor, Indoor1, LOW-LIGHT	
Carnera ID	On/off (15 characters, position programmable)	
AGC	Support	
D/N Mode	Color/BW/EXT	
White Balance	ATW, AWC-SET, Indoor, Outdoor, Manual	
Privacy Mask	On/Off, maximum 8 zones	
Votion Detection	On/Off, maximum 4 zones	
3LC	Support	
Anti-flicker	On/off	
anguage	English, Japanese, CHN1, CHN2, Korean, Germ Portuguese, Dutch, Turkish, Hebrew and Arabic	an, French, Italian, Spanish, Polish, Russian,
Functions), Slow shutter, Mirror, Defog, Defect pixel correction,
Beneral		
Vorking Temperature/ lumidity	-30 °C - 60 °C (-22 °F - 140 °F) Humidity 90% or less (non-condensing)	
Power Supply	12 VDC	
Power Consumption	Max. 4W	Max. 5W
Neather Proof Ratings	IP66	
R Range	Up to 20m	Up to 40m
Communication	Up the coax(need UTC controller) Protocol: Peico-C(Coaxitron)	
Dimensions	Φ 114.6 × 89.1mm(Φ 4.5" × 3.5")	

DS-2DF7286-AEL

2 MP 30X Network IR PTZ Dome Camera

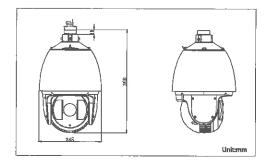




Key features

- •1/2.8" Progressive Scan CMOS
- •30X optical zoom, 16X digital zoom
- ·Smart Tracking, Defog, ROI encoding, HLC
- -Smart IR, 120m IR distance
- -3-Streams
- •True Day/Night, 3D DNR, Digital WDR
- 3D intelligent positioning
- •24VAC / High-PoE power supply

Dimensions



Accessories



DS-161421

Order models

DS-2DF7286-AEL: High-PoE & 24VAC, outdoor

Remarks the second	DS-2DF7,286,AEL
Camera	ر المراجع في المراجع في المراجع في المراجع
Image Sensor	1/2.8" Progressive Scan CMOS
Effective Pixel	1320K pixels
Min. Illumination	Color: 0.05 lux (F1.6, AGC On); BAW: 0.005 lux (F1.6, AGC On); 0 Lux with IR
White Balance	Auto / Manual /ATW/Indoor/Outdoor/Daylight lamp/Sodium lamp
AGC	Auto / Manual
S / N Ratio	
	> 50dB
Digital Noise Reduction	3D DNR
Backlight Compensation	HLC/BLC
Wide Dynamic Range	Digital WDR
Shutter Speed	50Hz: 1~1/30,000s; 60Hz: 1~1/30,000s
Day & Night	IR Cut Filter
Digital Zoom	16X
Privacy Masking	Up to 24 zones, maximum 8 zones on a same image, multiple colors and mosaics optional
Focus Mode	Auto / Semiautomatic / Manual
Enhancement	Smart Defog: on / off
	1 Julian Delog. 017 011
Lens	
Focal Length	4.3 ~ 129.0mm, 30x
Zoom Speed	Approx 3s(Optical Wide-Tele)
Angle of View	
	57.4-2.8 degree (Wide-Tele)
Mln. Working Distance	10 ~ 1,500mm(Wide-Tele)
Aperture Range	F1.6~F5.0
Pan and Tilt	
Smart tracking	Support
	Done 260° and less Tilly 2° 00° (Aug. 71)
Pan / Tilt Range	Pan: 360° endless; Tilt: -2° ~90° (Auto Flip) Pan Manual Speed: 0.1° ~ 160° /s, Pan Preset Speed: 160° /s
Pan / Tilt Speed	Pan Manual Speed: 0.1 ~ 160 /s, Pan Preset Speed: 160 /s
	i Tilt Manual Speed: 0.1 ~ 120 /s, Tilt Preset Speed: 120 /s
Proportional Zoom	Rotation speed can be adjusted automatically according to zoom multiples
Number of Preset	256
Patrol	8 patrols, up to 32 presets per patrol
Pattern	4 patterns, with the recording time not less than 10 minutes per pattern
Power-aff Memory	Support
Park Action	Preset / Patrol / Pattern / Pan scan / Tilt scan / Random scan / Frame scan / Panorama sca
PTZ Position Display	On/Off
Preset Freezing	
Preset Freezing	Support
Scheduled Task	Preset / Patrol / Pattern / Pan scan / Tilt scan / Random scan / Frame scan / Panorama sca
	Dome reboot/Self-test action/Alarm output
Infrared	
	Support
Smart IR	Support
Smart IR IR Distance	Up to 120m
Smart IR IR Distance IR Intensity	
Smart IR IR Distance	Up to 120m
Smart IR IR Distance IR Intensity Alarm	Up to 120m
Smart IR IR Distance IR Intensity Alarm Alarm Input	Up to 120m Automatically adjusted, depending on the zoom ratio
Smart IR IR Distance IR Intensity Alarm Alarm Input Alarm Output	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable
Smart IR IR Distance IR Intensity Alarm Alarm Input Alarm Output Alarm Action	Up to 120m Automatically adjusted, depending on the zoom ratio
Smart IR IR Distance IR Distance IR Intensity Alarm Alarm Input Alarm Output Alarm Action Input/ Output	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable
Smart IR IR Distance IR Distance IR Intensity Alarm Alarm Input Alarm Output Alarm Action Input/ Output	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client
Smart IR IR Distance IR Distance IR Intensity Alarm Alarm Input Alarm Qutput Alarm Action Input/ Output Video Output	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client 1.0V[p-p] / 75Ω, PAL / NTSC composite, BNC
Smart IR IR Distance IR Intensity Alarm Alarm Input Alarm Output Alarm Action Input/ Output Video Output Audio Input	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client 1.0V[p-p] / 75Ω, PAL / NTSC composite, BNC Audio Input (LINE input), 2 ~ 2.4V[p-p]; output impedance: 1KΩ, ±10%
Smart IR IR Distance IR Intensity Alarm Alarm Input Alarm Output Alarm Action Input/ Output Audio Input Audio Input Audio Unput Audio Unput Audio Unput	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client 1.0V[p-p] / 75Ω, PAL/NTSC composite, BNC
Smart IR IR Distance IR Intensity Alarm Alarm Input Alarm Output Alarm Action Input/ Output Video Output Audio Input	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client 1.0V[p-p] / 75Ω, PAL / NTSC composite, BNC Audio Input (LINE input), 2 ~ 2.4V[p-p]; output impedance: 1KΩ, ±10%
Smart IR IR Distance IR Intensity Alarm Alarm Input Alarm Output Alarm Action Input/ Output Audio Input Audio Input Audio Unput Audio Unput Audio Unput	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client 1.0V[p-p] / 75Ω, PAL / NTSC composite, BNC Audio Input (LINE input), 2 ~ 2.4V[p-p]; output impedance: 1ΚΩ, ±10% Line level, impedance: 600Ω
Smart IR IR Distance IR Distance IR Intensity Alarm Alarm Input Alarm Output Alarm Action Input/ Output Video Output Audio Input Audio Output Network Ethernet	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client 1.0V[p-p] / 75Ω, PAL / NTSC composite, BNC Audio Input (LINE input), 2 ~ 2.4V[p-p]; output impedance: 1ΚΩ, ±10% Line level, impedance: 600Ω 108ase-T / 1008ase-TX, RI45 connector
Smart IR IR Distance IR Distance IR Intensity Alarm Alarm Input Alarm Output Alarm Action Input/ Output Video Output Audio Input Audio Output Network Ethernet Max. Image Resolution	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client 1.0V[p-p] / 75Ω, PAL / NTSC composite, BNC Audio Input (LINE input), 2 ~ 2.4V[p-p]; output impedance: 1ΚΩ, ±10% Line level, impedance: 600Ω 108ase-T / 100Base-TX, RI45 connector 1920×1080
Smart IR IR Distance IR Distance IR Intensity Alarm Alarm Input Alarm Output Alarm Action Input/ Output Video Output Audio Input Audio Output Network Ethernet	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client 1.0V[p-p] / 75Ω, PAL / NTSC composite, BNC Audio Input (LINE input), 2 ~ 2.4V[p-p]; output impedance: 1ΚΩ, ±10% Line level, impedance: 600Ω 108ase-T / 1008ase-T/, RJ45 connector 1920×1080 60Hz:30fps(1920×1080)
Smart IR IR Distance IR Distance IR Intensity Alarm Alarm Input Alarm Output Alarm Action Input/ Output Video Output Audio Input Audio Input Ethernet Max. Image Resolution Frame Rate	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client 1.0V[p-p] / 75Ω, PAL / NTSC composite, BNC Audio Input (LINE input), 2 ~ 2.4V[p-p]; output impedance: 1ΚΩ, ±10% Line level, impedance: 600Ω 108ase-T / 100Base-TX, RJ45 connector 1920 × 1080 60Hz:30fps(1920 × 1080) 30fps(1920 × 960) 30fps (1280 × 720)
Smart IR IR Distance IR Intensity Alarm Alarm Input Alarm Output Alarm Action Input/ Output Video Output Audio Input Audio Output Network Ethernet Max. Image Resolution Frame Rate	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client 1.0V[p-p] / 75Ω, PAL / NTSC composite, BNC Audio Input (LINE input), 2 ~ 2.4V[p-p]; output impedance: 1ΚΩ, ±10% Line level, impedance: 600Ω 108ase-T / 1008ase-T/, RJ45 connector 1920×1080 60Hz:30fps(1920×1080)
Smart IR IR Distance IR Distance IR Intensity Alarm Alarm Input Alarm Output Alarm Action Input/ Output Video Output Audio Input Audio Input Ethernet Max. Image Resolution Frame Rate	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client 1.0V[p-p] / 75Ω, PAL / NTSC composite, BNC Audio Input (LINE input), 2 ~ 2.4V[p-p]; output impedance: 1ΚΩ, ±10% Line level, impedance: 600Ω 108ase-T / 100Base-TX, RJ45 connector 1920×1080 60Hz:307ps(1920×1080) 30fps(1280×960) 30fps (1280×720) H.264/MJPEG/MPEG4, H.264 encoding with Baseline/Main/High profile
Smart IR IR Distance IR Intensity Alarm Alarm Input Alarm Output Alarm Action Input/ Output Video Output Audio Input Audio Output Audio Output Audio Output Network Ethernet Max. Image Resolution Frame Rate Image Compression ROI encoding	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client 1.0V[p-p] / 75Ω, PAL / NTSC composite, BNC Audio Input (LINE input), 2 ~ 2.4V[p-p]; output impedance: 1ΚΩ, ±10% Line level, impedance: 600Ω 108ase-T / 100Base-TX, RJ45 connector 1920 × 1080 60Hz:30fps(1920 × 1080) 30fps(1280 × 960) 30fps (1280 × 720) H.264/MJPEG/MPEG4, H.264 encoding with Baseline/Main/High profile Support 24 areas with adjustable levels
Smart IR IR Distance IR Intensity Alarm Alarm Input Alarm Output Alarm Action Input/ Output Video Output Audio Input Audio Output Audio Output Audio Output Metwork Ethernet Max. Image Resolution Frame Rate Image Compression ROI encoding Audio Compression	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client 1.0V[p-p] / 75Ω, PAL / NTSC composite, BNC Audio Input (LINE input), 2 ~ 2.4V[p-p]; output impedance: 1ΚΩ, ±10% Line level, impedance: 600Ω 108ase-T / 1008ase-TX, RJ45 connector 1920 × 1080 60Hz:30fps(1920 × 1080) 30fps(1280 × 960) 30fps (1280 × 7.20) H.264/MJPEG/MPEG4, H.264 encoding with Baseline/Main/High profile Support 24 areas with adjustable levels G.711u /G.711a /G.726
Smart IR IR Distance IR Intensity Alarm Alarm Input Alarm Output Alarm Action Input/ Output Video Output Audio Input Audio Output Audio Output Audio Output Network Ethernet Max. Image Resolution Frame Rate Image Compression ROI encoding	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client 1.0V[p-p] / 75Ω, PAL / NTSC composite, BNC Audio Input (LINE input), 2 ~ 2.4V[p-p]; output impedance: 1ΚΩ, ±10% Line level, impedance: 600Ω 108ase-T / 1008ase-TX, RJ45 connector 1920×1080 60Hz:30fps(1920×1080) 30fps(1980×960) 30fps (1280×720) H.264/MJPEG/MPEG4, H.264 encoding with Baseline/Main/High profile Support 24 areas with adjustable levels G.711u /G.711a /G.726 IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TC, TC
Smart IR IR Distance IR Distance IR Intensity Alarm Alarm Input Alarm Output Alarm Action Input/ Output Video Output Audio Input Audio Output Network Ethernet Max. Image Resolution Frame Rate Image Compression ROI encoding Audio Compression Protocols	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client 1.0V[p-p] / 75Ω, PAL / NTSC composite, BNC Audio Input (LINE input), 2 ~ 2.4V[p-p]; output impedance: 1ΚΩ, ±10% Line level, impedance: 600Ω 108ase-T / 100Base-TX, RI45 connector 1920 × 1080 60Hz:30fps(1920 × 1080) 30fps(1280 × 960) 30fps (1280 × 720) H.264/MJPEG/MPEG4, H.264 encoding with Baseline/Main/High profile Support 24 areas with adjustable levels G.711u /G.711a /G.726 IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TC UDP, IGMP, ICMP, DHCP, PPPOE
Smart IR IR Distance IR Distance IR Intensity Alarm Alarm Input Alarm Output Alarm Action Input/ Output Video Output Audio Input Audio Output Network Ethernet Max. Image Resolution Frame Rate Image Compression ROI encoding Audio Compression Protocols Simultaneous Live View	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client 1.0V[p-p] / 75Ω, PAL / NTSC composite, BNC Audio Input (LINE input), 2 ~ 2.4V[p-p]; output impedance: 1ΚΩ, ±10% Line level, impedance: 600Ω 108ase-T / 100Base-TX, RI45 connector 1920 × 1080 60Hz:30fps(1920 × 1080) 30fps(1920 × 1080) 30fps(1920 × 1080) 30fps(1920 × 1080) 30fps(1920 × 1080) 4.264/MJPFG/MPEG4, H.264 encoding with Baseline/Main/High profile Support 24 areas with adjustable levels G.711u / G.711a / G.726 IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TC UPP, IGMP, ICMP, ICMP, PPPOE Up to 10
Smart IR IR Distance IR Distance IR Instance IR Intensity Alarm Alarm Input Alarm Output Alarm Action Input/ Output Video Output Audio Input Audio Input Audio Output Network Ethernet Max. Image Resolution Frame Rate Image Compression ROI encoding Audio Compression Protocols Simultaneous Live View Streams	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client 1.0V[p-p] / 75Ω, PAL / NTSC composite, BNC Audio Input (LINE input), 2 ~ 2.4V[p-p]; output impedance: 1ΚΩ, ±10% Line level, impedance: 600Ω 108ase-T / 100Base-TX, RI45 connector 1920 × 1080 60Hz:30fps(1920 × 1080) 30fps(1280 × 960) 30fps (1280 × 720) H.264/MJPEG/MPEG4, H.264 encoding with Baseline/Main/High profile Support 24 areas with adjustable levels G.711u /G.711a /G.726 IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TC UDP, IGMP, ICMP, DHCP, PPPOE
Smart IR IR Distance IR Distance IR Intensity Alarm Alarm Input Alarm Output Alarm Action Input/ Output Video Output Audio Input Audio Output Network Ethernet Max. Image Resolution Frame Rate Image Compression ROI encoding Audio Compression Protocols Simultaneous Live View	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client 1.0V[p-p] / 75Ω, PAL / NTSC composite, BNC Audio Input (LINE input), 2 ~ 2.4V[p-p]; output impedance: 1ΚΩ, ±10% Line level, impedance: 600Ω 108ase-T / 100Base-TX, RI45 connector 1920 × 1080 60Hz:30fps (1920 × 1080) 30fps (1920 × 1080) 30fps (1920 × 1080) 30fps (1920 × 1080) 30fps (1920 × 1080) 4.264/MJPEG/MPEG4, H.264 encoding with Baseline/Main/High profile Support 24 areas with adjustable levels G.711u / G.731a / G.736 Pv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TC UDP, IGMP, ICMP, DHCP, PPPOE Up to 10 Three Streams
Smart IR IR Distance IR Distance IR Instance IR Intensity Alarm Alarm Input Alarm Output Alarm Action Input/ Output Video Output Audio Input Audio Output Network Ethernet Max. Image Resolution Frame Rate Image Compression ROI encoding Audio Compression Protocols Simultaneous Live View Streams Mini SD Memory Card	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client 1.0V[p-p] / 75Ω, PAL / NTSC composite, BNC Audio Input (LINE input), 2 ~ 2.4V[p-p]; output impedance: 1ΚΩ, ±10% Line level, impedance: 600Ω 108ase-T / 100Base-TX, RJ45 connector 1920×1080 60Hz:30fps(1920×1080) 30fps(1280×720) H.264/MJPEG/MPEG4, H.264 encoding with Baseline/Main/High profile Support 24 areas with adjustable levels G.711u /G.716 /G.726 G.711u /G.771a /G.726 G.711c/MP. PPPGE Up to 10 Three Streams Built-in SD/SDHC Slot, up to 32GB, support manual / alarm / edge recording
Smart IR IR Distance IR Distance IR Instance IR Intensity Alarm Alarm Input Alarm Output Alarm Output Alarm Action Input/ Output Video Output Audio Input Audio Input Network Ethernet Max. Image Resolution Frame Rate Image Compression ROI encoding Audio Compression Protocols Simultaneous Live View Streams Mini SD Memory Card User/Host Level	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client 1.0V[p-p] / 75Ω, PAL / NTSC composite, BNC Audio Input (LINE input), 2 ~ 2.4V[p-p]; output impedance: 1ΚΩ, ±10% Line level, impedance: 600Ω 108ase-T / 100Base-TX, RJ45 connector 1920 × 1080 60Hz:307ps(1920 × 1080) 30fps(1280 × 960) 30fps (1280 × 720) H.264/MJPEG/MPEG4, H.264 encoding with Baseline/Main/High profile Support 24 areas with adjustable levels G.711a /G.71a /G.726 IPV4/IPV6, H.T.P. HTTPS, 802.1x, Qos, FTP, SMTP, UPNP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TC Up to 10 Three Streams Buikt-in SD/SDHC Slot, up to 32GB, support manual / alarm / edge recording Up to 32 users, 3 Levels: Administrator, Camera control, Live view only
Smart IR IR Distance IR Distance IR Instance IR Intensity Alarm Alarm Input Alarm Output Alarm Output Alarm Action Input/ Output Video Output Audio Input Audio Output Network Ethernet Max. Image Resolution Frame Rate Image Compression ROI encoding Audio Compression Protocols Simultaneous Live View Streams Mini SD Memory Card User/Host Level Security Measures	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client 1.0V[p-p] / 75Ω, PAL / NTSC composite, BNC Audio Input (LINE input), 2 ~ 2.4V[p-p]; output impedance: 1ΚΩ, ±10% Line level, impedance: 600Ω 108ase-T / 100Base-TX, RJ45 connector 1920×1080 60Hz:30fps(1920×1080) 30fps(1920×1080) 30fps(1920×1080) 30fps(1920×1080) 1.264/MJPEG/MPEG4, H.264 encoding with Baseline/Main/High profile Support 24 areas with adjustable levels G.711u/G.711a/G.726 IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TC UDP, IGMP, ICMP, DHCP, PPPoE Up to 10 Three Streams Built-in SD/SDHC Slot, up to 32GB, support manual / alarm / edge recording
Smart IR IR Distance IR Distance IR Instance IR Intensity Alarm Alarm Input Alarm Output Alarm Output Alarm Action Input/ Output Video Output Audio Input Audio Input Network Ethernet Max. Image Resolution Frame Rate Image Compression ROI encoding Audio Compression Protocols Simultaneous Live View Streams Mini SD Memory Card User/Host Level	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client 1.0V[p-p] / 75Ω, PAL / NTSC composite, BNC Audio Input (LINE input), 2 ~ 2.4V[p-p]; output impedance: 1ΚΩ, ±10% Line level, impedance: 600Ω 108ase-T / 100Base-TX, RJ45 connector 1920 × 1080 60Hz:30fps(1920 × 1080) 30fps(1280 × 720) H.264/MJPEG/MPEG4, H.264 encoding with Baseline/Main/High profile Support 24 areas with adjustable levels G.711a /G.71a /G.726 IPV4/IPV6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TO UPP, IGMP, ICMP, DHCP, PPPOE Up to 10 Three Streams Built-in SD/SDHC Slot, up to 32GB, support manual / alarm / edge recording Up to 32 users, 3 Levels: Administrator, Camera control, Live view only
Smart IR IR Distance IR Distance IR Instance IR Intensity Alarm Alarm Input Alarm Output Alarm Output Alarm Action Input/ Output Video Output Audio Input Audio Output Network Ethernet Max. Image Resolution Frame Rate Image Compression ROI encoding Audio Compression Protocols Simultaneous Live View Streams Mini SD Memory Card User/Host Level Security Measures	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client 1.0V[p-p] / 75Ω, PAL / NTSC composite, BNC Audio Input (LINE input), 2 ~ 2.4V[p-p]; output impedance: 1ΚΩ, ±10% Line level, impedance: 600Ω 108ase-T / 100Base-TX, RJ45 connector 1920×1080 60Hz:30fps (1920×1080) 30fps (1920×1080) 30fps (1920×1080) 30fps (1920×1080) 30fps (1920×1080) 30fps (1920×1080) 30fps (1920×1080) 1.264/MJPEG/MPEG4, H.264 encoding with Baseline/Maln/High profile Support 24 areas with adjustable levels G.711u / G.711a / G.726 IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TC UDP, IGMP, ICMP, DHCP, PPPOE Up to 10 Three Streams Built-in SD/SDHC Slot, up to 32GB, support manual / alarm / edge recording Up to 32 users, 3 Levels: Administrator, Camera control, Live view only User authentication(ID and PW); Host authentication(MAC address); IP address filtering
Smart IR IR Distance IR Distance IR Instance IR Instance IR Instance Alarm Alarm Input Alarm Output Alarm Action Input/ Output Video Output Audio Input Audio Output Network Ethernet Max. Image Resolution Frame Rate Image Compression ROI encoding Audio Compression Protocols Simultaneous Live View Streams Mini SD Memory Card User/Host Level Sec/Host Level Sec/Host Level Sec/Host Level Integration Application programming	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client 1.0V[p-p] / 75Ω, PAL / NTSC composite, BNC Audio Input (LINE input), 2 ~ 2.4V[p-p]; output impedance: 1ΚΩ, ±10% Line level, impedance: 600Ω 108ase-T / 100Base-TX, RJ45 connector 1920×1080 60Hz:307ps(1920×1080) 30fps(1920×1080) 30fps (1280×720) H.264/MJPEG/MPEG4, H.264 encoding with Baseline/Main/High profile Support 24 areas with adjustable levels G.711u/G.711a/G.726 Ipv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TO UDP, IGMP, ICMP, DHCP, PPPOE Up to 10 Three Streams Built-in SD/SDHC Slot, up to 32GB, support manual / alarm / edge recording Up to 32 users, 3 Levels: Administrator, Camera control, Live view only User authentication(ID and PW); Host authentication(MAC address); IP address filtering Open-ended API, support Onvif, PSIA and CGI
Smart IR IR Distance IR Distance IR Instance IR Intensity Alarm Alarm Input Alarm Output Alarm Output Alarm Action Input/ Output Video Output Audio Input Audio Output Network Ethernet Max. Image Resolution Frame Rate Image Compression ROI encoding Audio Compression Protocols Simultaneous Live View Streams Mini SD Memory Card User/Host Level Security Measures Integration Application programming Web Browser	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client 1.0V[p-p] / 75Ω, PAL / NTSC composite, BNC Audio Input (LINE input), 2 ~ 2.4V[p-p]; output impedance: 1ΚΩ, ±10% Line level, impedance: 600Ω 108ase-T / 100Base-TX, RJ45 connector 1920×1080 60Hz:30fps (1920×1080) 30fps (1920×1080) 30fps (1920×1080) 30fps (1920×1080) 30fps (1920×1080) 30fps (1920×1080) 30fps (1920×1080) 1.264/MJPEG/MPEG4, H.264 encoding with Baseline/Maln/High profile Support 24 areas with adjustable levels G.711u / G.711a / G.726 IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TC UDP, IGMP, ICMP, DHCP, PPPOE Up to 10 Three Streams Built-in SD/SDHC Slot, up to 32GB, support manual / alarm / edge recording Up to 32 users, 3 Levels: Administrator, Camera control, Live view only User authentication(ID and PW); Host authentication(MAC address); IP address filtering
Smart IR IR Distance IR Distance IR Instance IR Instance IR Instance Alarm Input Alarm Output Alarm Output Alarm Output Video Output Video Output Audio Input Audio Output Network Ethernet Max. Image Resolution Frame Rate Image Compression ROI encoding Audio Compression Protocols Simultaneous Live View Streams Mini SD Memory Card User/Host Level Security Measures Integration Application programming Web Browser General	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client 1.0V[p-p] / 75Ω, PAL / NTSC composite, BNC Audio Input (LINE input), 2 ~ 2.4V[p-p]; output impedance: 1ΚΩ, ±10% Line level, impedance: 600Ω 108ase-T / 100Base-TX, RJ45 connector 1920 × 1080 60Hz:30fps(1920 × 1080) 30fps(1920 × 1080) 30fps(1920 × 1080) 30fps(1920 × 1080) 30fps(1920 × 1080) 108ase-T / 100Base-TX, RJ45 connector 1920 × 1080 60Hz:30fps(1920 × 1080) 30fps(1920 × 1080) 30fps(1920 × 1080) 108ase-T / 100Base-TX, RJ45 connector 1920 × 1080 60Hz:30fps(1920 × 1080) 30fps(1920 × 1080) 40Hz, 1920 × 1080 50Hz, 1920 × 1080 50Hz, 1920 × 1080 50Hz, 1920 × 1080 50Hz, 1920 × 1080 60Hz:30fps(1920 × 1080) 60Hz:30fps(1920 × 1080)
Smart IR IR Distance IR Distance IR Instance IR Instance IR Intensity Alarm Alarm Input Alarm Output Alarm Output Alarm Action Input/ Output Video Output Audio Input Audio Output Network Ethernet Max. Image Resolution Frame Rate Image Compression ROI encoding Audio Compression Protocols Simultaneous Live View Streams Mini SD Memory Card User/Host Level Security Measures Integration Application programming Web Browser	Up to 120m Automatically adjusted, depending on the zoom ratio
Smart IR IR Distance IR Distance IR Instance IR Instance IR Instance Alarm Input Alarm Output Alarm Output Alarm Output Video Output Output Audio Input Audio Output Network Ethernet Max. Image Resolution Frame Rate Image Compression ROI encoding Audio Compression Protocols Simultaneous Live View Streams Mini SD Memory Card User/Host Level Security Measures Integration Application programming Web Browser Seneral RS-485 Protocols	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client 1.0V[p-p] / 75Ω, PAL / NTSC composite, BNC Audio Input (LINE input), 2 ~ 2.4V[p-p]; output impedance: 1KΩ, ±10% Line level, impedance: 600Ω 108ase-T / 100Base-TX, RI45 connector 1920×1080 60Hz:30fps (1920×1080) 30fps (1920×1080) 30fps (1920×1080) 30fps (1920×1080) 4.264/MJPFG/MPEG4, H.264 encoding with Baseline/Main/High profile Support 24 areas with adjustable levels G.711u /G.711a /G.726 IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TO UDP, IGMP, ICMP, DHCP, PPPoE Up to 10 Three Streams Built-in SD/SDHC Slot, up to 32GB, support manual / alarm / edge recording Up to 32 users, 3 Levels: Administrator, Camera control, Live view only User authentication(ID and PW); Host authentication(MAC address); IP address filtering Open-ended API, support Onvif, PSIA and CGI IE 7, IE 8, IE 9, Chrome 8 +, Firefox 3.5 +, Safari S +, support multi-language HIKVISION, Pelco-P, Pelco-D, self-adaptive 24 VAC: Max. 65W (heater: 45W)
Smart IR IR Distance IR Distance IR Instance IR Instance IR Instance Alarm Input Alarm Output Alarm Output Alarm Output Video Output Video Output Audio Input Audio Output Network Ethernet Max. Image Resolution Frame Rate Image Compression ROI encoding Audio Compression Protocols Simultaneous Live View Streams Mini SD Memory Card User/Host Level Security Measures Integration Application programming Web Browser General	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client 1.0V[p-p] / 75Ω, PAL / NTSC composite, BNC Audio Input (LINE input), 2 ~ 2.4V[p-p]; output impedance: 1KΩ, ±10% Line level, impedance: 600Ω 108ase-T / 100Base-TX, RI45 connector 1920×1080 60Hz:30fps (1920×1080) 30fps (1920×1080) 30fps (1920×1080) 30fps (1920×1080) 4.264/MJPFG/MPEG4, H.264 encoding with Baseline/Main/High profile Support 24 areas with adjustable levels G.711u /G.711a /G.726 IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TO UDP, IGMP, ICMP, DHCP, PPPoE Up to 10 Three Streams Built-in SD/SDHC Slot, up to 32GB, support manual / alarm / edge recording Up to 32 users, 3 Levels: Administrator, Camera control, Live view only User authentication(ID and PW); Host authentication(MAC address); IP address filtering Open-ended API, support Onvif, PSIA and CGI IE 7, IE 8, IE 9, Chrome 8 +, Firefox 3.5 +, Safari S +, support multi-language HIKVISION, Pelco-P, Pelco-D, self-adaptive 24 VAC: Max. 65W (heater: 45W)
Smart IR IR Distance IR Distance IR Instance IR Instance IR Instance IR Intensity Alarm Alarm Input Alarm Output Alarm Output Alarm Action Input/ Output Video Output Audio Input Audio Output Network Ethernet Max. Image Resolution Frame Rate Image Compression ROI encoding Audio Compression Protocols Simultaneous Live View Streams Mini SD Memory Card User/Host Level Security Measures Integration Application programming Web Browser General RS-485 Protocols	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client 1.0V[p-p] / 75Ω, PAL / NTSC composite, BNC Audio Input (LINE input), 2 ~ 2.4V[p-p]; output impedance: 1KΩ, ±10% Line level, impedance: 600Ω 108ase-T / 100Base-TX, RI45 connector 1920×1080 60Hz:30fps (1920×1080) 30fps (1920×1080) 30fps (1920×1080) 30fps (1920×1080) 4.264/MJPFG/MPEG4, H.264 encoding with Baseline/Main/High profile Support 24 areas with adjustable levels G.711u /G.711a /G.726 IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TO UDP, IGMP, ICMP, DHCP, PPPoE Up to 10 Three Streams Built-in SD/SDHC Slot, up to 32GB, support manual / alarm / edge recording Up to 32 users, 3 Levels: Administrator, Camera control, Live view only User authentication(ID and PW); Host authentication(MAC address); IP address filtering Open-ended API, support Onvif, PSIA and CGI IE 7, IE 8, IE 9, Chrome 8 +, Firefox 3.5 +, Safari S +, support multi-language HIKVISION, Pelco-P, Pelco-D, self-adaptive 24 VAC: Max. 65W (heater: 45W)
Smart IR IR Distance IR Distance IR Instance IR Instance IR Instance Alarm Input Alarm Output Alarm Output Alarm Output Video Output Output Audio Input Audio Output Network Ethernet Max. Image Resolution Frame Rate Image Compression ROI encoding Audio Compression Protocols Simultaneous Live View Streams Mini SD Memory Card User/Host Level Security Measures Integration Application programming Web Browser Seneral RS-485 Protocols	Up to 120m Automatically adjusted, depending on the zoom ratio
Smart IR IR Distance IR Distance IR Instance IR Intensity Alarm Alarm Input Alarm Output Alarm Output Alarm Action Input/ Output Video Output Audio Input Audio Output Network Ethernet Max. Image Resolution Frame Rate Image Compression ROI encoding Audio Compression Protocols Simultaneous Live View Streams Mini SD Memory Card User/Host Level Security Measures Integration Application programming Web Browser General 85-485 Protocols Power Working Temperature	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client 1.0V[p-p] / 75Ω, PAL / NTSC composite, BNC Audio Input (LINE input), 2 ~ 2.4V[p-p]; output impedance: 1ΚΩ, ±10% Line level, impedance: 600Ω 108ase-T / 100Base-TX, RI45 connector 1920×1080 60Hz:30fps (1920×1080) 30fps (1920×1080) 30fps (1920×1080) 30fps (1920×1080) 4.264/MJPFG/MPEG4, H.264 encoding with Baseline/Main/High profile Support 24 areas with adjustable levels G.711u /G.711a /G.726 IPv4/IPv6, HTTP, HTTPS, 802.Tx, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TO UDP, IGMP, ICMP, DHCP, PPPoE Up to 10 Three Streams Built-in SD/SDHC Slot, up to 32GB, support manual / alarm / edge recording Up to 32 users, 3 Levels: Administrator, Camera control, Live view only User authentication(ID and PW); Host authentication(MAC address); IP address filtering Open-ended API, support Onvif, PSIA and CGI IE 7, IE 8, IE 9, Chrome 8 +, Firefox 3.5 +, Safari S +, support multi-language HIKVISION, Pelco-P, Pelco-D, self-adaptive 24 VAC: 40° C ~ 65° C(-20° F ~ 149° F) High-PoE: Max, SOW (heater: 20W) 24 VAC: -40° C ~ 65° C(-20° F ~ 149° F) High-PoE: -30° C ~ 65° C(-22° F ~ 149° F)
Smart IR IR Distance IR Distance IR Instance IR Instance IR Instance IR Intensity Alarm Alarm Input Alarm Output Alarm Output Alarm Action Input/ Output Video Output Audio Input Audio Output Network Ethernet Max. Image Resolution Frame Rate Image Compression ROI encoding Audio Compression Protocols Simultaneous Live View Streams Mini SD Memory Card User/Host Level Security Measures Integration Application programming Web Browser General RS-485 Protocols	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client 1.0V[p-p] / 75Ω, PAL / NTSC composite, BNC Audio Input (LINE input), 2 ~ 2.4V[p-p]; output impedance: 1ΚΩ, ±10% Line level, impedance: 600Ω 108ase-T / 100Base-TX, RI45 connector 1920×1080 60Hz:30fps(1920×1080) 30fps(1920×1080) 30fps(1920×1080) 4.264/MJPEG/MPEG4, H.264 encoding with Baseline/Main/High profile Support 24 areas with adjustable levels G.711u / G.711a / G.726 Pv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TC UDP, IGMP, ICMP, DHCP, PPPOE Up to 10 Up to 32 users, 3 Levels: Administrator, Camera control, Live view only User authentication(ID and PW); Host authentication(MAC address); IP address filtering Open-ended API, support Onvif, PSIA and CGI IE 7, IE 8, IE 9, Chrome 8 +, Firefox 3.5 +, Safari 5 +, support multi-language HIKVISION, Pelco-P, Pelco-D, self-adaptive 24 VAC: 40' C ~ 65° C(-40' F ~ 149' F) High-PoE: -30' C ~ 65° C(-42' F ~ 149' F) High-PoE: -30' C ~ 65° C(-22' F ~ 149' F) High-PoE: -30' C ~ 65° C(-22' F ~ 149' F) High-PoE: -30' C ~ 65° C(-22' F ~ 149' F) High-PoE: -30' C ~ 65° C(-22' F ~ 149' F) High-PoE: -30' C ~ 65° C(-22' F ~ 149' F) High-PoE: -30' C ~ 65° C(-22' F ~ 149' F) High-PoE: -30' C ~ 65° C(-22' F ~ 149' F) High-PoE: -30' C ~ 65° C(-22' F ~ 149' F)
Smart IR IR Distance IR Distance IR Instance IR Intensity Alarm Alarm Input Alarm Output Alarm Output Alarm Action Input/ Output Video Output Audio Input Audio Output Network Ethernet Max. Image Resolution Frame Rate Image Compression ROI encoding Audio Compression Protocols Simultaneous Live View Streams Mini SD Memory Card User/Host Level Security Measures Integration Application programming Web Browser General 85-485 Protocols Power Working Temperature	Up to 120m Automatically adjusted, depending on the zoom ratio
Smart IR IR Distance IR Distance IR Instance IR Intensity Alarm Alarm Input Alarm Output Alarm Output Alarm Action Input/ Output Video Output Audio Input Audio Output Network Ethernet Max. Image Resolution Frame Rate Image Compression ROI encoding Audio Compression Protocols Simultaneous Live View Streams Mini SD Memory Card User/Host Level Security Measures Integration Application programming Web Browser General RS-485 Protocols Power Working Temperature Humidity Protection Level	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client 1.0V[p-p] / 75Ω, PAL / NTSC composite, BNC Audio Input (LINE input), 2 ~ 2.4V[p-p]; output impedance: 1ΚΩ, ±10% Line level, impedance: 600Ω 108ase-T / 100Base-TX, RI45 connector 1920×1080 60Hz:30fps (1920×1080) 30fps (1920×1080) 30fps (1920×1080) 30fps (1920×1080) 30fps (1920×720) H.264/MJPEG/MPEG4, H.264 encoding with Baseline/Main/High profile Support 24 areas with adjustable levels G.711u /G.711a /G.726 IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TO UDP, IGMP, ICMP, DHCP, PPPOE Up to 10 Three Streams Built-in SD/SDHC Slot, up to 32GB, support manual / alarm / edge recording Up to 32 users, 3 Levels: Administrator, Camera control, Live view only User authentication(iD and PW); Host authentication(MAC address); IP address filtering Open-ended API, support Onvif, PSIA and CGI IE 7, IE 8, IE 9, Chrome 8 +, Firefox 3.5 +, Safari S +, support multi-language HIKVISION, Pelco-P, Pelco-D, self-adaptive 24 VAC: 400 C - 65° Cl-20° F ~ 149° F High-PoE: Max. 50W (heater: 20W) 24 VAC: 400 C - 65° Cl-22° F ~ 149° F High-PoE: 30° C - 65° Cl-22° F ~ 149° F High-PoE: 30° C - 65° Cl-22° F ~ 149° F High-PoE: 30° C - 65° Cl-22° F ~ 149° F High-PoE: 30° C - 65° Cl-22° F ~ 149° F 100
Smart IR IR Distance IR Distance IR Instance IR Intensity Alarm Alarm Input Alarm Output Alarm Output Alarm Action Input/ Output Video Output Audio Input Audio Output Network Ethernet Max. Image Resolution Frame Rate Image Compression ROI encoding Audio Compression Protocols Simultaneous Live View Streams Mini SD Memory Card User/Host Level Security Measures Integration Application programming Web Browser General RS-485 Protocols Power Working Temperature Humidity	Up to 120m Automatically adjusted, depending on the zoom ratio
Smart IR IR Distance IR Distance IR Instance IR Instance IR Intensity Alarm Alarm Input Alarm Output Alarm Output Alarm Output Video Output Output Audio Input Audio Output Network Ethernet Max. Image Resolution Frame Rate Image Compression ROI encoding Audio Compression Protocols Simultaneous Live View Streams Mini SD Memory Card User/Host Level Security Measures Integration Application programming Web Browser General RS-485 Protocols Power Working Temperature Humidity Protection Level Dimensions	Up to 120m Automatically adjusted, depending on the zoom ratio
Smart IR IR Distance IR Distance IR Instance IR Intensity Alarm Alarm Input Alarm Output Alarm Output Alarm Action Input/ Output Video Output Audio Input Audio Output Network Ethernet Max. Image Resolution Frame Rate Image Compression ROI encoding Audio Compression Protocols Simultaneous Live View Streams Mini SD Memory Card User/Host Level Security Measures Integration Application programming Web Browser General RS-485 Protocols Power Working Temperature Humidity Protection Level	Up to 120m Automatically adjusted, depending on the zoom ratio 7 2 relay outputs, alarm response actions configurable Preset, Patrol, Pattern, SD/SDHC card recording, Relay output, Notification on Client 1.0V[p-p] / 75Ω, PAL / NTSC composite, BNC Audio Input (LINE input), 2 ~ 2.4V[p-p]; output impedance: 1ΚΩ, ±10% Line level, impedance: 600Ω 108ase-T / 100Base-TX, RI45 connector 1920×1080 60Hz:30fps (1920×1080) 30fps (1920×1080) 30fps (1920×1080) 30fps (1920×1080) 30fps (1920×720) H.264/MJPEG/MPEG4, H.264 encoding with Baseline/Main/High profile Support 24 areas with adjustable levels G.711u /G.711a /G.726 IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TO UDP, IGMP, ICMP, DHCP, PPPOE Up to 10 Three Streams Built-in SD/SDHC Slot, up to 32GB, support manual / alarm / edge recording Up to 32 users, 3 Levels: Administrator, Camera control, Live view only User authentication(iD and PW); Host authentication(MAC address); IP address filtering Open-ended API, support Onvif, PSIA and CGI IE 7, IE 8, IE 9, Chrome 8 +, Firefox 3.5 +, Safari S +, support multi-language HIKVISION, Pelco-P, Pelco-D, self-adaptive 24 VAC: 400 C - 65° Cl-20° F ~ 149° F High-PoE: Max. 50W (heater: 20W) 24 VAC: 400 C - 65° Cl-22° F ~ 149° F High-PoE: 30° C - 65° Cl-22° F ~ 149° F High-PoE: 30° C - 65° Cl-22° F ~ 149° F High-PoE: 30° C - 65° Cl-22° F ~ 149° F High-PoE: 30° C - 65° Cl-22° F ~ 149° F 100



DS-2CD2722FWD-IZS 2 MP WDR Dome Network Camera with IR











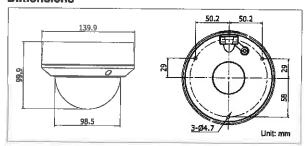






- 2 Megapixel High Resolution
- Full HD1080p Video
- **Dual Video Streams**
- 2.8 mm to 12 mm Motorized Lens
- 120 dB Wide Dynamic Range
- 3D Digital Noise Reduction
- **Smart Features**
- PoE 802,3af
- IR Range 30 Meters (~100 feet)
- IP66 and IK10 Protection
- Audio and Alarm Input/Output
- Edge Storage MicroSD Slot, 128 GB

Dimensions



Accessories



Rain Shade

Order Model

DS-2CD2722FWD-IZS

With Wall Mount

	DS-2CD2722FWD-IZS
Camera	
Image Sensor	1/ 2.8" progressive scan CMOS
Minimum Illumination	Color: 0.014 lux @ (f/1.4,AGC on); B/W; 0 lux with IR
Shutter Speed	1/3 s to 1/10,000 s
Slow Shutter	Yes
Lens	2.8 mm to 12 mm @ f/1.4, motorized lens
Angle of View	: 106° to 35°
Lens Mount	<u></u> Φ14
Day/Night	IR cut filter with auto switch/schedule/triggered by alarm
Digital Noise Reduction	3D DNR
Wide Dynamic Range	120 dB
Pan/Tilt /Rotation	Pan: 0° to 355°, tilt: 0° to 75°, rotation: 0° to 355°
Compression Standards	
Video Compression	H.264+/H.264/MJPEG
H.264 Type	Main Profile
Video Bit Rate	32 Kbps to 16 Mbps
Dual Streams	Yes
Audio	G.711/G.722.1/G.726/MP2L2, 64 Kbps (G.711)/16 Kbps
Addio	(G.722.1)/16 Kbps (G.726)/32 to 128 Kbps (MP2L2)
Image	
Maximum Resolution	1920 x 1080
Frame Rate	30 fps (1920 × 1080,1280 x 960, 1280 × 720)
Image Settings	Compression, color, saturation, brightness, contrast, sharpness, rotate mode, privacy mask
Back Light Compensation	Yes, zone configured
Region of Interest (ROI)	Yes
Analytics	
Smart Features	Line crossing detection, intrusion detection
Network	
Network Storage	NAS (supports NFS,SMB/CIFS), ANR
Alarm Triggers	Motion detection, line crossing detection, intrusion detection, tamper alarm, network disconnect, IP address conflict, storage exception
Protocols	TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour
Security	Three level user authentication, password authorization, HTTPS an SSH certificate, IEEE802.1X, basic and digest authentication, watermark, IP address filtering, log-in lockout
Standards	ONVIF (PROFILE S, PROFILE G), PSIA, CGI, ISAPI
nterface	
Communication	1 RJ-45 10M/100M Ethernet port
On-Board Storage	Built-in microSD/SDHC/SDXC slot, up to 128 GB
Nam	1 alarm I/O
Audio	1 audio I/O
General	
Operating Conditions	-30° C to 60° C (-22° F to 140° F), humidity 95% or less (non- condensing)
ower	12 VDC ±10%, PoE (802.3af), UL/cUL Listed
Power Consumption	Maximum 5.5 W
R Range	30 meters (~100 feet)
ngress Protection	IP66
mpact Protection	IEC60068-275Eh, 20J; EN50102, up to IK10
Dimensions	Φ140 mm × 99.9 mm (Φ5.51" × 3.94")
Velaht	1000 g (2.20 lbs)

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.
Alan Long Owner Clarents
(Name, Title) Alpa E Lowg Owner
(Printed Name and Title) 102 38th ST SE Charleston WV 25304
(Address) 304-925-0338
(Phone Number) (Fax Number) (Suddenlike Fret
(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.
(Company) Camera Systems LLC
(Authorized Signature) (Representative Name, Title)
Alon E Long Owner
(Printed Name and Title of Authorized Representative)
08/31/2014
(Date)
304-925-0338 (Phone Number) (Fax Number)
(1 none 1 minos) (1 as 1 minos)

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:

WITHERS THE PART OWNER SIGNIFICATION

GNE HILLCREST DRIVE, E. CHARLESTON, WV 2831 Commission Expires July

"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 exceed 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:	0 1	
Vendor's Name: LONGS Security Come	ga Systems LLC	-
Authorized Signature:	2	Date: 08/31/2016
- Mact Vivana		,
State of West Vivina		
County of Kanauha, to-wit:	- A 1	
Taken, subscribed, and sworn to before me this	day of HUGUST	. 2016
My Commission expires 742	, 20	le 1 h
t t		Market Market
AFFIX SEAL HERE	NOTARY PUBLIC_	moun I rules
		Purchabing Affidavit (Revised 08/01/2015)



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

STATE OF WEST VIRGINIA,
COUNTY OF KAWAWA , TO-WIT:
I, Alen E Long, after being first duly sworn, depose and state as follows:
1. I am an employee of Long's Securif Comercia Systems LLC; and, (Company Name) 2. I do hereby attest that Long's Securif 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.
Signature: Dure Dave Supera Systems LC Date: 08/3/2016
Taken, subscribed and sworn to before me this 3 st day of AUGUST, 2016. By Commission expires OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA KINGERIY L. MILES ONE HILLCREST DRIVE, EAST CHARLESTON, WV 25811 My Commission Expires Livy 1, 2021 THIS AFFIDAVIT MOST BE SUBMITTED WITH THE BID IN ORDER TO COMPLY WITH WV CODE PROVISIONS. FAILURE TO INCLUDE THE AFFIDAVIT WITH THE
BID SHALL RESULT IN DISQUALIFICATION OF THE BID.

ACORD.

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 8/12/2016

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

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

PRODUCER	CONTACT Teresa Alley				
USI Ins Svcs Sm C/L Bluefield	PHONE (A/C, No, Ext): 276-979-1751 FAX (A/C, No): 8				
745 S. College Ave	E-MAIL ADDRESS: teresa.alley@usi.biz				
Bluefield, VA 24605	INSURER(S) AFFORDING COVERAGE	E NAIC	3#		
276 979-1799	INSURER A: Maxum Indemnity Company				
INSURED	INSURER B:				
Long's Security System LLC 102 38th St. SE	INSURER C:				
112 113 11 11	INSURER D :				
Charleston, WV 25304	INSURER E :				
	INSURER F:				

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:										
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.										
INSR LTR				ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMIT	ş
Α.	Х	COMMERCIAL GENERAL LIA		-		BDG005077603			EACH OCCURRENCE	\$1,000,000
		CLAIMS-MADE X	OCCUR :						DAMAGE TO RENTED PREMISES (Ea occurrence)	\$100,000
	Х	BI/PD Ded: \$500							MED EXP (Any one person)	s1,000
				ĺ					PERSONAL & ADV INJURY	s 1,000,000
	GEI	N'L AGGREGATE LIMIT APPLIE	ES PER:						GENERAL AGGREGATE	\$2,000,000
		POLICY PRO- JECT	Loc						PRODUCTS - COMP/OP AGG	\$2,000,000
		OTHER:								\$
	AU1	TOMOBILE LIABILITY							COMBINED SINGLE LIMIT (Ea accident)	\$
		ANY AUTO							BODILY INJURY (Per person)	\$
		AUTOS L AUT							BODILY INJURY (Per accident)	\$
		HIRED AUTOS NON	N-OWNED OS						PROPERTY DAMAGE (Per accident)	\$
										\$
		UMBRELLA LIAB	OCCUR						EACH OCCURRENCE	\$
		EXCESS LIAB (CLAIMS-MADE						AGGREGATE	\$
		DED RETENTION \$								S
li		RKERS COMPENSATION DEMPLOYERS' LIABILITY							PER OTH- STATUTE ER	
		PROPRIETOR/PARTNER/EXE ICER/MEMBER EXCLUDED?	CUTIVE Y / N	N/A					E.L. EACH ACCIDENT	\$
	(Mai	ndatory in NH)					i		E.L. DISEASE - EA EMPLOYEE	\$
		s, describe under CRIPTION OF OPERATIONS b	elow						E.L. DISEASE - POLICY LIMIT	\$
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)										
CER	CERTIFICATE HOLDER CANCELLATION									

Operation Division Tax Division Revenue Center 1001 Lee St E Ste 3 Charleston, WV 25301 SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

- Alana

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WEST VIRGINIA CONTRACTOR LICENSING BOARD

CONTRACTOR LICENSE

Authorized by the

West Virginia Contractor Licensing Board

Number:

WV040102

Classification:

LOW VOLTAGE SYSTEMS

LONGS SECURITY CAMERA SYSTEMS LLC DBA LONGS SECURITY CAMERA SYSTEMS LLC 102 38TH STREET SE CHARLESTON, WV 25304

Date Issued

Expiration Date

DECEMBER 30, 2016

DECEMBER 30, 2017

Authorized Company Signature

Chair, West Virginia Contractor Licensing Board

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

STATE OF WEST VIRGINIA



Offices of the Insurance Commissioner

EARL RAY TOMBLIN

MICHAEL D. RILEY
Insurance Commissioner

February 25, 2016

Longs' Security Camera Systems LLC 102 38th Street SE Charleston, WV 25304

RE: Exempt ID: WCEX19820

Dear Employer.

Your request for an extension/renewal of the opinion as to your exempt status the requirement to maintain West Virginia Workers' Compensation insurance has been received and processed. According to the information provided in your application, you have no employees who are required under West Virginia law to be provided West Virginia workers' compensation coverage. Therefore, the OIC is of the opinion, based on the information provided, that you are exempt from having to maintain West Virginia workers' compensation coverage.

This exemption opinion extension/renewal is valid until March 9, 2017, or until circumstances change which require you to maintain workers' compensation coverage, such as acquiring employees or a business reorganization. Hiring even one (1) employee not falling within the scope of this exemption would require you to obtain coverage. If such changes occur, you must either submit another request for exemption or obtain workers' compensation coverage. Failure to obtain the mandatory coverage can result in severe penalties such as an administrative fine up to \$10,000, financial responsibility for benefits paid from the uninsured fund for any accidents and losses during periods when you are not insured, and placement on the Employer Violator System, which can result in revocation of your business license and any other licenses, permits or certificates required to do business in West Virginia. Further, be reminded that in accordance with W.Va. Code §61-3-24e(5), it is a felony to knowingly and willingly make false statements respecting any information required to be provided under the WV Workers' Compensation Act. Upon conviction, the individual shall be confined in a penitentiary for up to three years, fined up to \$10,000, or both.

Please be advised that this exemption extension/renewal is advisory in nature and does not constitute any formal adjudication or legal conclusion as to the workers' compensation status of your company. It is based solely on the information you provided to us in your application. If the information provided in the application is incorrect, unclear or ambiguous, then this exemption may also be erroneous. It is important for anyone relying on this exemption to be aware of this. Additionally, this letter does not serve in lieu of a certificate of coverage in order to allow a prime contractor to avoid liability for employees of subcontractors under W.Va. Code §23-2-1d.

Should you find that you are in need of workers compensation coverage, you may apply for coverage from one of the approved carriers of workers compensation. A list of these carriers can be found on our website at www.wvinsurance.gov underneath the box entitled Workers Compensation found in the center of the page. If you are unable to access the website for a list of these carriers, please feel free to contact our offices at (304) 558-6279, ext 1229.

Sincerely,

Employer Coverage
Office of the West Virginia Insurance Commissioner

ec/jc



BID BOND

		harlastan		,,	uic unuera	igned, Long	o occurry		w 0 j 0 t 0 t 1 1 1 0	
SD of West V	Chi	<u>ZITATTESTOTE</u>		W	V	, as Princip	oal, and <u>We</u> s	stern S	urety Company	
of West V		cago	_ '	<u>IL</u>	, a corpo	ration organiz	ed and exist	ting und	er the laws of the State	of
		with its principa	i office in the	City of	Chicago	, as	Surety, are	held an	d firmly bound unto the	e State
	Virginia, a	s Obligee, in the	e penal sum d	f <u>Five Perce</u>	nt of Amou	ınt Bid	(\$	5%) for the payment of	which,
									ccessors and assigns.	
									he Purchasing Section	
					ned hereto a	ind made a p	art hereof, to	enter i	nto a contract in writing	for
lax Divi	ision Rev	venue Center	, Charlestor	, WV						
	NOW THE	EREFORE,					<u> </u>			
attached the agree full force a event, exc	(b) If hereto are ment creat and effect ceed the p	id snail turnish ated by the acc t. It is express benal amount o	be accepted any other bon eptance of sai y understood f this obligatio	and the Prir ds and insura d bid, then thi and agreed t n as herein st	ince require is obligation that the liab ated.	d by the bid o shall be null ility of the Su	or proposal, a and void, other and rety for any	and sha herwise and all	ince with the bid or properties in all other respects per this obligation shall respected in the claims hereunder shall bety and its bond shall be	erform main in I, in no
way impa	aired or at	fected by any such extension	extension of 1	he time withi	n which the	Obligee ma	y accept suc	ch bid,	and said Surety does	hereby
V	WITNESS	, the following :	ignatures and	l seals of Prin	cipal and S	urety, execut	ed and seale	ed by a	proper officer of Princip	al and
Surety, or	r by Princi	pal individually	if Principal is	an individual,	this <u>31st</u>	day of	August		<u>, 2016</u> ,	
Principal \$	Seal					Long	(Must be	(Name	of Principal) ont, Vice President, or norized Agent)	
							/20	-		
							Owi	vee (Title)	

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.

Western Surety Company

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

Andrew K Teeter, Kimberly L Miles, Douglas P Taylor, Kimberly S Burdette, Jaime L Carpenter, Individually

of Charleston, WV, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

- In Unlimited Amounts -

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 5th day of April, 2016.



WESTERN SURETY COMPANY

Paul T Bruflat Vice President

State of South Dakota

County of Minnehaha

On this 5th day of April, 2016, before me personally came Paul T. Bruflat, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is the Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires	J. MOHR	
June 23, 2021	NOTANY PUBLIC (FEE)	a-ma

J. Mohr, Notary Public

CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this ___31st ___day of ___August _____, 2016____.



WESTERN SURETY COMPANY

J. Nelson, Assistant Secretary

Authorizing By-Law

ADOPTED BY THE SHAREHOLDERS OF WESTERN SURETY COMPANY

This Power of Attorney is made and executed pursuant to and by authority of the following By-Law duly adopted by the shareholders of the Company.

Section 7. All bonds, policies, undertakings, Powers of Attorney, or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, and Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys in Fact or agents who shall have authority to issue bonds, policies, or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile.