

Security Driven by **Intelligence**



2018-2019 Product Guide



GANZ Security es representado en México por Telsa Mayorista

Tels.: (55) 5740 2142 / (55) 5740 4630 / (55) 5740 9258 / (55) 5740 9322

ventas@telsa.com.mx • www.telsa.com.mx  /TelsaMexico •  @TelsaMayorista



Security Driven by **Intelligence**

About Ganz

The Ganz brand offers integrated system architecture across multiple market segments including IP and analog cameras, performance driven optics, intelligent video analytics, biometric access systems, discreet enclosures, video management software and recording devices. Ganz Security's state-of-the-art products are backed by exceptional technical support and industry leading customer service and are designed for easy integration and maximum scalability for any system requirements.

Design Center

To further our commitment, the Ganz Design Center was developed to take the guesswork out of building a truly effective surveillance solution. From start to finish, our technical experts work directly with you to design a system that is built around your needs— with the right products, the right technology and the right level of support.

With offices on the East Coast, West Coast and Mexico City, our customer service and technical teams are available to answer questions or to assist in configuring a system with one vision—your total security.

Intelligence Driven by Design



Contents

Software

Ganz CONTROL VMS / CMS4
----------------------------------	----

Network Video Devices

IP Cameras - PIXELPRO IP Series . . . . .	.6
IP Cameras - GENSTAR Series . . . . .	.12
IP Cameras - GXi Series with Video Analytics . . . . .	.14
IP Camera Mounting Accessories . . . . .	.19
IP Camera - GXi IP Speciality Cameras. . . . .	.21
Encoders & Encoder Rack Solutions . . . . .	.22
Ganz Bridge Analytics Appliance . . . . .	.23
GXi Imbedded Intelligence Analytics Licenses. . . . .	.24
Thermal Cameras with Video Analytics . . . . .	.26

Recording Devices

Enterprise NVR Series - Dell EMC . . . . .	.30
NVR - PIXELMASTER NVR Series . . . . .	.34
NVR - GENSTAR NVR Series. . . . .	.35
DIGIMASTER Multiformat Recording Devices . . . . .	.36
AHD Video Recorders - GENSTAR AHD. . . . .	.37

AHD Cameras

AHD Cameras - GENSTAR AHD 4-in-1 Series. . . . .	.38
AHD PTZ Cameras - GENSTAR AHD 4-in-1 Series . . . . .	.40

Cameras

Analog Domes and Mounting Options41
---	-----

Specialty Devices

Wise IP Wireless Service Monitoring Device and Flashlight Camera Recorder42
---	-----

Accessories

Ethernet Transmission - GNET and GWAVE . . . . .	.41
Camera Housings - ProPak Camera Housings . . . . .	.46
Computar Lenses. . . . .	.47



A WHOLE NEW LEVEL OF CONTROL

GANZ CORTROL INTELLIGENCE

Intuitive configuration and deployment allows you to spend your time managing your IP infrastructure, not troubleshooting it. 64-bit architecture means CORTROL is built from the ground up for performance, and a long list of add-ons provide exceptional customization options.

GANZ CORTROL Prime
16 Channel System – FREE

GANZ CORTROL Prime provides a robust feature set to get any home or small office set up with up to 16 channels, 16 GANZ security cameras or a combination of 8 GANZ and 8 from any other major vendor or ONVIF compatible camera.

GANZ CORTROL Premier
Standalone System – 24/48/96 Channels

GANZ CORTROL Premier features an intuitive and elegant user interface paired with advanced features and unlimited remote users. It's a fully manageable standalone system and virtually limitless across any network, right at your fingertips.

GANZ CORTROL Global
Enterprise System – Unlimited Channels

GANZ CORTROL Global is a complete surveillance solution for enterprise networks of any size and offers 64-bit processing power with a unique feature set to keep security efficiency as a number one priority.

Get the most out of your video wall in the control room. Create custom video wall configurations or force users to specific video walls with CORTROL Global. Create "Area Focused" video walls to quickly review footage.

Key Features:

- Highly-secure encrypted camera and client communication
- Powerful event and action manager
- Real-time geolocation / map / mobile-tracking
- Access control integration
- Video wall for enterprise command center
- Powerful FR, LPR & VCA modules
- No costly SSA agreements

NEW



The D-1X and D-2XR **Enterprise Servers** are developed on Dell EMC infrastructure and designed to provide the flexibility, performance and scale needed to support the high camera counts, megapixel resolutions, high frame rates and long retention times demanded by the industry. Optimized to work with Ganz® CORTROL Series Surveillance software. *See page 30.*



VIDEO MANAGEMENT SOFTWARE

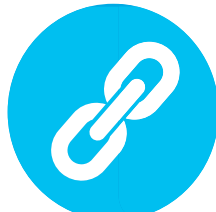


GANZ CORTROL is an event-driven VMS that delivers complete IP surveillance network management and scalability, with a lower total cost of ownership.



Intuitive and User-friendly

The CORTROL interface allows all users to easily understand the configuration process and start using the software.



The Complete System

The essential and advanced software features allow you to make the most of your surveillance system.



Enterprise Ready

Central server hierarchy, failover, archive replication and many other high level features. Available in 3 editions, **CORTROL Global** is the ideal system for large-scale solutions.



Time-proven Performance

Quality and stability of the software's core is proven and backed up by Gantz's years of experience and continuous development.

GANZ CORTROL LICENSES	
GANZ CORTROL PREMIER LICENSES	
ZNS-Premier24	24ch CORTROL Premier License
ZNS-Premier48	48ch CORTROL Premier License
ZNS-Premier96	96ch CORTROL Premier License
GANZ CORTROL GLOBAL LICENSES	
ZNS-GStart100	100ch CORTROL Global Start License
ZNS-Global50	50ch CORTROL Global License
ZNS-Global100	100ch CORTROL Global License
ZNS-Global500	500ch CORTROL Global License
ZNS-Global1K	1000ch CORTROL Global License
ZNS-Global5K	5000ch CORTROL Global License
GANZ CORTROL LPR MODULE LICENSES	
ZNS-LPR-2	Supports 2 LPR Channels
ZNS-LPR-U	Supports Unlimited LPR Channels
GANZ CORTROL FACIAL RECOGNITION MODULE LICENSES	
ZNS-FR-2	Supports up to 2 channels, recognizes up to 5 faces in 10 seconds
ZNS-FR-U	Supports 200 FPS from up to 10 channels, recognize up to 500 faces in 10 seconds

3 AND 5 MP BULLET AND BOX CAMERAS

GANZ
PixeIPro



	3 MEGAPIXEL BULLET	5 MEGAPIXEL BULLET	5 MEGAPIXEL BOX CAMERA
	ZN-B5DMP58HE	ZN-B6DMP55HE	ZN-C6DHE
Sensor	1/2.8" Sony ExmorR CMOS	1/1.8" Sony ExmorR CMOS	
Compression format	H.264, MJPEG		
Max. resolution	2048 x 1536, 30fp	2592 x 1944, 30fps	
Effective pixels	2064 x 1552 (3.20M)	2609 x 1960 (5.11M)	
Video Frame Rate	2048 x 1536 30fps / 1920 x 1080 @60fps		2592 x 1944 @30fps 1920 x 1080 @60fps
Lens	Motorized w/ P-iris f=3~10.5mm, F1.4	Motorized w/ P-iris f=3.6~10mm, F1.5	C/CS Mount
Horizontal FOV	84 ° (wide) 30° (tele)	81 ° (wide) 37° (tele)	-
Iris control	P-Iris		Manual / DC Auto Iris
S/N ratio	48 dB or more		
Video output	Composite Output(BNC), 75 ohm 1Vpp		
Alarm in-/output	1 / 1 relay		
Audio in-/output	1x Line in / 1x Line out		
Audio codec	G.711 u-law 8kHz		
Day/Night Performance	True Day Night / Removable IR Cut Filter		
WDR Performance	True WDR		
Minimum illumination	0 lux with IR LED ON		0.06 lux (F1.2 / 30IRE)
AGC/BLC/ Defog	YES		
Network interface	10BASE-T, 100BASE-TX, RJ45		
Protocols	IPv4, HTTP, SMTP, UPnP, DNS, RTSP, DDNS, RTP, TCP, UDP, RTCP, DHCP, ARP, FTP, IGMP, ICMP, NTP		
Alarm Trigger	E-mail notification (Snapshot), FTP transfer (Snapshot), External Alarm Out		
Event functions	VMD, External Alarm input		
Micro SD Storage	SD/SDHC/SDXC supported up to 32GB (card not included)		
Motion detection	User set 4 ROI (Region Of Interest), 30 Step Sensitivity		
Power source	12VDC / 24VAC		
PoE	IEEE 802.3af Class3		
Power consumption	855mA @ 12VDC, 10.3W /870mA @ 24VAC, 12.9W /250mA @ PoE, 12W	890mA @ 12VDC, 10.8W /900mA @ 24VAC, 13.3W /260mA @ PoE, 12.5W	372mA @ 12VDC, 4.5W /196mA @ 24VAC, 4.7W /94.4mA @ PoE, 4.5W
Operating environment	-40°C ~ 50°C (-40°F~122°F)		32°F~104°F (0°C ~ 40°C)
Heater	3W ceramic heater		-
Fan	1		-
IR LEDs	42 IR LEDs		-
Weight	3.2 lbs / 1.44kg		0.7 lbs / 316g
Dimensions	3.3" x 11.4" (L), Bracket: 4.8" ø / 82.5 ø x 290mm (L), Bracket:123mm		2.5" (W) x 2.4" (D) x 4.8" (L) 64.6 (W) x 60.3 (D) x 122.4 (L) mm
Certifications	OnVIF (Profile S), IP66		OnVIF (Profile S)

computer CS mount lenses on page 47.

3 AND 5 MP WDR DOMES



	INDOOR DOME	INDOOR DOME	OUTDOOR DOME	OUTDOOR DOME
	ZN-D5DMP58LHE	ZN-D6DMP55LHE	ZN-D5DTMP58LHE	ZN-D6DTMP55LHE
Sensor	1/2.8" Sony ExmorR CMOS	1/1.8" Sony ExmorR CMOS	1/2.8" Sony ExmorR CMOS	1/1.8" Sony ExmorR CMOS
Compression format	H.264, MJPEG			
Max. resolution	3MP	5MP	3MP	5MP
Effective pixels	2064 x 1552 (3.20M)	2609 x 1960 (5.11M)	2064 x 1552 (3.20M)	2609 x 1960 (5.11M)
Video Frame Rate	2048 x 1536 @25fps, 1920 x 1080 @60fps	2592 x 1944 @25fps, 1920 x 1080 @60fps	2048 x 1536 @25fps, 1920 x 1080 @60fps	2592 x 1944 @25fps, 1920 x 1080 @60fps
Lens	Motorized with P-iris, 3~10.5mm, F1.4	Motorized with P-iris, 3.6~10mm, F1.5	Motorized with P-iris, 3~10.5mm, F1.4	Motorized with P-iris, 3.6~10mm, F1.5
Horizontal FOV	84° (wide), 30° (tele)	81° (wide), 37° (tele)	84° (wide), 30° (tele)	84° (wide), 30° (tele)
Iris control	P-iris			
S/N ratio	48 dB or more			
Video output	Composite Output (BNC), 75 ohm 1Vpp			
Alarm in-/output	1 / 1 relay			
Audio in-/output	1x Line in /1x Line out			
Audio codec	G.711 u-law 8kHz			
Day/Night Performance	True Day / Night			
WDR	True WDR			
S/N Ratio	48 dB or more			
Minimum illumination	0 lux with IR LED ON			
AGC/BLC/ Defog	yes			
Network interface	10BASE-T, 100BASE-TX, RJ45			
Protocols	IPv4, HTTP, SMTP, UPnP, DNS, RTSP, DDNS, RTP, TCP, UDP, RTCP, DHCP, ARP, FTP, IGMP, ICMP, NTP			
Alarm Trigger	VMD, External Alarm input			
Event functions	E-mail notification (Snapshot), FTP transfer(Snapshot), External Alarm Out			
Micro SD Storage	SD/SDHC/SDXC supported up to 32GB (card not included)			
Motion detection	User set 4 ROI(Region Of Interest), 30 Step Sensitivity			
Power source	12VDC / 24 VAC			
PoE	IEEE 802.3af Class3			
Power consumption	710mA @ 12VDC, 8.6W, 570mA @ 24VAC, 8.1W, 160mA @ PoE, 7.7W	730mA @ 12VDC, 8.8W, 600mA @ 24VAC, 8.5W, 160mA @ PoE, 7.7W	830mA @ 12VDC, 9.9W, 830mA @ 24VAC, 12.5W, 242mA @ PoE, 11.6W	850mA @ 12VDC, 10.2W, 880mA @ 24VAC, 13.2W, 250mA @ PoE, 12W
Operating environment	32°F~104°F / 0°C ~ 40°C		-40°F~-122°F / -40°C ~ 50°C	
Heater	-		yes	
IR LEDs	Smart IR, 18 pieces, Auto / Off			
Weight	1.2 lb / 554g		2.7 lb 1.21kg	
Dimensions	5.9 ø x 3.9 H / 151mm ø x 100mm (H)		5.3" ø x 5.7" (H) / 135mm ø x 145mm (H)	
Certifications	CE, FCC, OnVIF (S)		IP66, CE, FCC, OnVIF (S)	

2 MP IP BULLETS AND DOMES

GANZ
PixiePro



	OUTDOOR MINI BULLET	OUTDOOR MINI BULLET	OUTDOOR MINI DOME	INDOOR MINI DOME
	ZN-N4NFN5 ZN-N4NFN9	ZN-N4NVD56	ZN-M4NTFN3L ZN-M4NTFN4L ZN-M4NTFN9L	ZN-M4NFN3L ZN-M4NFN9L
Sensor	1/2.9" Sony ExmorR CMOS	1/2.8" Sony Exmor CMOS	1/2.8" Sony ExmorR CMOS	1/2.9" Sony Exmor CMOS
Compression format	H.264, MJPEG			
Max. resolution	1080p			
Effective pixels	1984x1105			
Compression FPS	1 fps ~ 30 fps			
Lens	Fixed ZN-N4NFN5, 4mm F1.8 ZN-N4NFN9, 6mm, F1.8	Varifocal 2.8-12mm, F1.4 DC-Iris	Fixed ZN-M4NTFN3L, 2.8mm F1.8, ZN-M4NTFN4L, 3.6mm F1.8, ZN-M4NTFN9L, 6mm	Fixed ZN-M4NFN3L, 2.8mm F1.8, ZN-M4NFN9L, 6mm
Horizontal FOV	ZN-N4NFN5 - 81° ZN-N4NFN9 - 51°	96° (wide) 34° (tele)	ZN-M4NTFN3L, 109° ZN-M4NTFN4L, 86° ZN-M4NTFN9L, 43°	ZN-M4NFN3L - 109° ZN-M4NFN9L - 43°
Iris control	Fixed Iris	DC Iris	Fixed Iris	Fixed Iris
S/N ratio	48 dB or more			
Video output	Composite Output (BNC), 75 ohm 1Vpp			
Alarm in-/output	-	-	1/1	1
Audio in-/output	-	1 / -	-	-
Audio codec	-	G.711 u-law 8kHz	-	-
Day/Night Performance	True Day / Night			
WDR Performance	D- WDR			
Minimum illumination	0 lux with IR LED ON			
AGC/BLC/ Defog	Yes			
Network interface	10BASE-T, 100BASE-TX, RJ45			
Protocols	IPv4, HTTP, SMTP, UPnP, DNS, RTSP, DDNS, RTP, TCP, UDP, RTCP, DHCP, ARP, FTP, IGMP, ICMP, NTP			
Alarm Trigger	VMD		VMD, External Alarm Input	VMD
Event functions	E-mail notification (Snapshot), FTP transfer (Snapshot)		E-mail notification (Snapshot), FTP transfer (Snapshot), External Alarm Out	
Micro SD Storage	-	-	-	SD/SDHC/SDXC supported up to 32GB (card not included)
Motion detection	User set 4 ROI (Region Of Interest), 30 Step Sensitivity			
Power source	12VDC / 24 VDC			
PoE	IEEE 802.3af Class3			
Power consumption	710mA @ 12VDC, 8.6W, 570mA @ 24VAC, 8.1W, 160mA @ PoE, 7.7W	730mA @ 12VDC, 8.8W, 600mA @ 24VAC, 8.5W, 160mA @ PoE, 7.7W	830mA @ 12VDC, 9.9W, 830mA @ 24VAC, 12.5W, 242mA @ PoE, 11.6W	850mA @ 12VDC, 10.2W, 250mA @ PoE, 12W
Operating environment	32°F~104°F / 0°C ~ 40°C		-40°F~-122°F / -40°C ~ 50°C	
Heater	-		yes	
IR LEDs	30	36	1	15
Weight	554g		1.21kg	
Dimensions	5.9" ø x 3.9" / 151mm x 100mm (H)		5.3" ø x 5.7" (H) / 135 ø x 145mm (H)	
Certifications	IP66, CE, FCC, OnVIF (Profile S)			

2 MP MINI DOME, MINI BULLET AND BULLET IP CAMERAS

GANZ
PixelPro



	INDOOR MINI DOME		OUTDOOR MINI BULLET		OUTDOOR BULLET
	ZN-MDI243M-IR	ZN-MDI260M-IR	ZN-MB243M	ZN-MB260M	ZN-B2MTP
Sensor	1/2.8" Sony Exmor CMOS		1/2.8" Progressive Scan CMOS		1/2.8" SONY CMOS Sensor IMX-122
Compression format	H.264, MJPEG				
Max. resolution	1080p				
Effective pixels	1984 x 1225				
Compression FPS	1 fps - 30 fps				30fps
Lens	4.0mm, F2.0	6.0mm, F2.0	4.0mm, F2.0	6.0mm, F2.0	3-9mm F1.2 with ProSet Motorized Focus & Zoom
Horizontal FOV	84.4°	53.3°	84.4°	53.3°	104.2° ~ 35.5°
Iris control	-		-		P-Iris
S/N ratio	50dB or more				>48.8dB
Video output	1x Composite Output 75Ω 1 Vpp (for installation)				
Day/Night	True Day/Night				
Minimum illumination	0.63 lux (F2.0 / 50IRE (Color)) 0 Lux (IR LED on)				0.16 lux (F1.2, 50IRE) 0 lux (IR on)
Shutter	1/4 ~ 1/2000s				
DNR	2D				-
DPC	Yes				-
AGC/BLC	Yes / Yes				
Network interface	10/100 Base T				10 BASE-T, 100 BASE-TX, RJ45
Protocols	IPv4, HTTP, SMTP, UPnP, DNS, Dynamic DNS, NTP, RTSP, RTP, TCP, UDP, RTCP, DHCP		IPv4, HTTP, SMTP, UPnP, DNS, RTSP, DDNS, RTP, TCP, UDP, RTCP, DHCP, ARP, NTP		IPv4, HTTP, HTTPS, SMTP, UPnP, DNS, Dynamic DNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP
Security	Password protection				Password protection, HTTPS, IP-Address filtering
Event functions	E-Mail-Notification (Snapshot), FTP-Transfer (Snapshot), Videostream with alarm status		E-Mail-Notification, FTP-Transfer, Videostream with alarm status		E-Mail-Notification, FTP-Transfer, Videostream with alarm status, Pre/Post Alarm
Remote access	IE 7.0+, Firefox, Chrome, Smartphone				
Micro SD Storage	-		-		SD/SDHC/SDXC supported (card not included)
Motion detection	4 regions, 10 sensitivity steps				
PoE	Support (IEEE 802.3af)				
Power / Power consumption	70mA, max. 3.4W / 100mA, max 4.8W (IR on)				24VAC max.1.63A, PoE max.220mA, UL Listed
Operating environment	-14°F ~113°F		-14°F ~122°F		-14°F ~122°F / with Heater -40°F ~ 122°F
Housing / IR LED	Polycarbonate / 2 IR LEDs		Aluminium / IP66 / 18 IR LEDs		Aluminium / IP66 / 42 IR LEDs
Weight	0.7 lbs.				4.1 lbs
Dimensions	5.1"ø x 3"H		2.3"ø x 3.3"H (without bracket)		11.7" L x 3.3 ø (camera & bracket)
Certifications	CE, FCC, WEEE, OnVIF (Profile S), UL Listed		CE, FCC, UL, WEEE, OnVIF (Profile S), IP66		CE, FCC, UL, OnVIF, WEEE, IP66, UL Listed

INDOOR DOMES



720p INDOOR DOMES		1080p INDOOR DOMES		
	ZN-D1MTP	ZN-D1MTP-IR	ZN-D2MTP	ZN-D2MTP-IR
Sensor	1/2.8" SONY CMOS Sensor IMX-122			
Compression format	H.264, MJPEG			
Max. resolution	720p		1080p	
Effective pixels	1984x1225			
Compression FPS	1fps ~ 30fps		1fps ~ 30fps	
Lens	3.0mm - 9.0mm, F1.2 with ProSet Motorized Focus & Zoom			
Horizontal FOV	90° ~ 31.8°			
Iris control	P-Iris			
S/N ratio	>48.8dB			
Video output	Composite Output (BNC), 75Ω 1Vpp (for installation)			
Alarm in-/output	1x Alarm In, 1x Alarm Out			
Audio in-/output	1x Audio In, 1x Audio Out			
Audio codec	G.711			
Day/Night Performance	True Day/Night			
Minimum illumination	0.21 lux F1.2 (color) 0.06 lux (BW)	0.21 lux F1.2 (color), 0 lux (IR on)	0.21 lux F1.2 (color), 0.06 lux BW	0.21 lux F1.2 (color), 0 lux (IR on)
AGC/BLC	Yes / Yes			
Network interface	10BASE-T, 100BASE-TX, RJ45			
Protocols	IPv4, HTTP, HTTPS, SMTP, UPnP, DNS, DynamicDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP			
Security	Password protection, HTTPS, IP-Address filtering			
Event functions	E-Mail-Notification (snapshot), FTP-Transfer (snapshot), Videostream with alarm status			
Remote access	Internet Explorer 7.0+, Firefox, Chrome, Smartphone			
Micro SD Storage	-		-	
Motion detection	4 regions, 10 sensitivity steps			
Power source	12VDC, 24VAC (50Hz/60Hz), UL Listed			
PoE	Support (IEEE 802.3af)			
Power consumption	12VDC max. 630mA, 7.6W / 24VAC max 500mA, 7.5W / PoE max. 150mA, 12VDC max. 500mA, PoE 140mA / Max 6.7W (IEEE 802.3af compliant)			
Operating environment	32°F ~ 104°F			
Housing / IR LED	Polycarbonate	Polycarbonate /18 IR LEDs	Polycarbonate	Polycarbonate /18 IR LEDs
Weight	0.9 lbs.			
Dimensions	4.5" (H) x 4.9"Ø / 113mm (H) x 124.7mm Ø			
Certifications	ONVIF (Profile S), CE, FCC, WEEE, UL Listed			

See page 19 for mounting accessories.

OUTDOOR DOMES



1080p OUTDOOR DOMES				
	ZN-DT1MTP	ZN-DT1MTP-IR	ZN-DT2MTP	ZN-DT2MTP-IR
Sensor	1/2.8" SONY CMOS Sensor			
Compression format	H.264, MJPEG			
Max. resolution	720p		1080p	
Effective pixels	1280 x 1024		1984 x 1225	
Compression FPS	1 fps ~ 30fps			
Lens	3.0mm - 9.0mm, F1.2 with ProSet			
Horizontal FOV	90° ~ 31.8°			
Iris control	P-Iris			
S/N ratio	>48.8dB			
Video output	Composite Output (BNC), 75Ω 1Vpp (for installation)			
Alarm in-/output	1 / 1			
Audio in-/output	1 / 1			
Audio codec	G.711			
Day/Night Performance	True Day/Night			
Minimum illumination	0.21 lux (color) 0.06 lux BW	0.21 lux (color), 0 lux (IR on)	0.21 lux (color) 0.06 lux BW	0.21 lux (color), 0 lux (IR on)
AGC/BLC	Yes / Yes			
Network interface	10/100 Base T			
Protocols	IPv4, HTTP, HTTPS, SMTP, UPnP, DNS, Dynamic DNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP			
Security	Password protection, HTTPS, IP-Address filtering			
Event functions	E-Mail-Notification (snapshot), FTP-Transfer (snapshot), Videostream with alarm status			
Remote access	IE 7.0+, Firefox, Chrome, Smartphone			
Micro SD Storage	-			
Motion detection	4 regions, 10 sensitivity steps			
Power source	12VDC, 24VAC (50Hz/60Hz) required for heater, UL Listed			
PoE	Support (IEEE 802.3af)			
Power consumption	12VDC max. 840mA, PoE max. 110mA			
Operating environment	0°F ~ 122°F / -20°F ~ 122°F with optional heater (ZNA-HD1, VGA model / ZNA-HD2 for ZN-DT*MTP-* models)			
Housing / IR LED	Aluminium/ 18 IR LEDs (*-IR)			
Weight	2.4 lbs.			
Dimensions	4.8" (H) x 5.7"Ø			
Certifications	ONVIF (Profile S), CE, FCC, WEEE, UL Listed, IP66			

See page 19 for mounting accessories

GENSTAR IP CAMERA SERIES



	4MP OUTDOOR IR	1080P IR IP MINI DOME
	ZN8-VD4M212-NIR	ZN8-D4NTFN4L-E
Image Sensor	1/3" Progressive Scan CMOS	1 / 2.7" Progressive Scan CMOS
Minimum Illumination	0.01 Lux (color) F1.2, 0 LUX (IR LED ON)	0.2 Lux (color) 0 Lux (IR LED ON)
Day / Night Performance	True Day / Night (ICR)	
WDR	Digital WDR / >120dB	Digital WDR
Shutter Speed	1/5s-1/20000s	1/1-1/10000
Auto Iris	Fixed	
DNR	2D / 3D	
Lens	2.7-12mm Motorized Lens	3.6mm Fixed Lens
FOV	90° ~ 35°	85°
IR LED	15 IR LEDs (98' Range)	12 IR LEDs (49' range)
Max. Resolution	2592*1520/2560*1440 @0fps, 2304*1296 @30fps, 1920x1080 @30fps	1920x1080 @30fps
Video Compression	H.264/265, MJPEG	H.264 High / Main / Baseline Profile, MJPEG
Bit Rate (CBR / VBR)	Main stream: 500kb-12000kb; Sub stream 100kb-6000kb	
Audio Compression	G.711, RAW_PCM	
Stream	2952 x 1520 (4MP) @20fps / 2304 x 1296 (3MP) @30fps / 1920 x 1080 (2MP) @30 fps	Stream1 1920x1080 / 1280x720 Stream 2 D1 to QVGA
Image Setting	Rotate Mode, Saturation, Brightness, Contrast, Sharpness	
Network Protocols	IPv4, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTCP/RTP, PPPoE, SMTP, DNS, UPnP, FTP, ICMP, IGMP, Unicast and Multicast	
Alarm Trigger	Perimeter, Single Virtual Fences, Double Virtual Fences, Loiter, Multi Loiter, Object Left, Object Removed, Abnormal Speed, Converse, Illegal Parking, Signal Bad, Motion Detection, Network disconnect, Disk alarm, I/O alarm	Motion Detection, Network Disconnect, Disk Alarm
RTSP Video	Standard RFC2326, Support QuickTime / VLC Player	
Security	User Security Authentication, Reset, Hardware Watch Dog	
Ethernet	1 Ethernet (10/100 Base-T) RJ-45 Connector	
Power Supply	12VDC/PoE (24VAC Optional)	12VDC / PoE
Power Consumption	3W (IR LED OFF) / 5W (IR LED ON)	2.5W / 5W LED On
Operating Temp.	-40 °F ~ 140 °F (-40 °C ~ 60 °C)	-4°F ~ 122°F (-20°C ~ 50°C)
Operating Humidity	0% - 90% RH (non-condensing)	
Dimensions	5.1" (Ø) x 4.4" / 130mm (Ø) x 112mm	3.7"(Ø) x 2.5"(H) / 95mm(Ø) x 63mm(H)
Weight	2.0 lbs / 900g	0.6lbs / 280g
Certifications	Onvif, CE, FCC, Onvif, IP67, IK10	Onvif, CE, FCC, IP66

ZN8-VD4M212-NIR ACCESSORIES



Pendant Mount
ZA8-CBK625



Wall Mount
ZA8-CBK624

	3MP IR IP PTZ	3MP SMART IR IP PTZ
	ZN8-P5NTAF62L	ZN8-P5NTAF61L
Image Sensor	1 / 2.8" Progressive Scan CMOS	
Minimum Illumination	0.01 Lux (Color) 0.001 Lux (B/W), 0 Lux (IR on)	
Day / Night Performance	True Day / Night (ICR), Auto/Color/B&W	True Day / Night (ICR)
WDR	Digital WDR	
Shutter Speed	1/1-1/10000s	
Auto Iris	Auto / Manual	
Digital Noise Reduction	2D / 3D, Auto / Manual	2D / 3D
Lens	12X, 4.7~56.4mm Lens	30X, 4.3-129mm Lens
Field of View	69.7°~7.56°	70.5°~3.2°
IR LED	6 IR LEDs (328' Range)	8 Smart IR LEDs (393' Range)
Pan / Tilt	Pan 0~360° continuously, Tilt -10~90°	Pan 0~360°, Tilt -5~90°
Pan / Tilt Speed	Pan: 0.01~180°/s, Tilt 0.01~90°/s Preset Speed: Pan 180°/s, Tilt 90°/s	
Preset / Tour / Scan / Track	30 / 12 / 12 / 6	400 / 12 / 12 / 6
Max. Resolution	2048 (H) x 1536(V) @25fps	2048 (H) x 1536(V) @30fps
Video Compression	H.264 High / Main / Baseline Profile, MJPEG	
Bit Rate (CBR / VBR)	Main Stream: 500kpbs~12Mbps; Sub Stream 100kpbs~4Mbps	Main Stream: 500kpbs~12Mbps; Sub Stream 200kpbs~8Mbps
Audio Compression	G.711, RAW_PCM	
Stream	Stream1 2048(H) x 1080 (V) Stream 2 1080P / 720P / D1 / CIF/QCIF/VGA / QVGA / 640x360	Stream1 2048(H) x 1536(V) Stream 2 1080P/720P/D1/CIF/QCIF/VGA/QVGA/640x360
Image Setting	Rotate Mode, Saturation, Brightness, Contrast, Sharpness	
Network Protocols	IPv4, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTCP/RTP, PPPoE, SMTP, DNS, UPnP, FTP, ICMP, IGMP, Unicast and Multicast	IPv4/IPv6, RTSP/RTP/RTCP, TCP/UDP, HTTPS, DHCP, DNS, DDNS, PPPoE, SMTP
Alarm Trigger	Motion, Intrusion, Line Crossing, Tamper, Network Disconnect, Disk Alarm, I/O Alarm	
RTSP Video	Standard RFC2326, Support QuickTime / VLC Player	
Security	User Security Authentication, Reset, Hardware Watch Dog	
Ethernet	1 Ethernet (10/100 Base-T) RJ-45 Connector	
Power / Power Consumption	12VDC / PoE+ / MAX 25W	24VAC / 2.5A, MAX 40W
Operating Temperature	Starting -22°F -140°F - Working -40°F - 140°F	
Operating Humidity	0% ~ 90% RH	
Dimensions	12.6" Ø x 8.7" x 5.7" / 321.3 Ø x 22.3 x 146.6mm	8.0" Ø x 13.0" / 205 Ø x 332mm
Weight	3.3lbs / 1.5Kg	9.4lbs / 4.3Kg
Certifications	CE, FCC, Onvif, IP66, IK10, TVS4000V	CE, FCC, Onvif, IP66, TVS6000V

GENSTAR IP CAMERA SERIES



	OUTDOOR MINI IR BULLET	OUTDOOR MINI IR BULLET	OUTDOOR MINI IR DOME	OUTDOOR 360° FISHEYE DOME
	ZN8-B4NVF56	ZN8-N4NFN4	ZN8-M4NTFN4L	ZN8-F7NTFN10L
Resolution	1080p			6MP
Image Sensor	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/1.8" CMOS
Video Compression	H.264, MJPEG			
Triple Stream	Yes, configurable			
Resolution	1920x1080 @30fps	1920x1080 @30fps	1920x1080 @30fps	3072x2048 @15fps 1920x1080 @30fps
Video Frame Rate	max. 30fps Full-HD	max. 30fps Full-HD	max. 30fps Full-HD	max. 30fps Full-HD
FOV	89° - 35° FOV	75° FOV	75° FOV	360° FOV
Lens	2.8mm - 12mm	3.6mm	3.6mm	1.6mm
Day/Night Performance	True Day/Night			
Minimum illumination	0.2 Lux (color) 0 Lux (IR on)	0.2 Lux (color) 0 Lux (IR on)	0.05 Lux (color) 0 Lux (IR on)	0.01 Lux (color) 0 Lux (IR on)
IR LED / Range	8 Smart IR LEDs, 131' - 164' Range	2 Smart IR LEDs, 66' - 98' Range	1 Smart IR LED, 20' - 23' Range	6 Smart IR LEDs, 33' Range
Digital Noise Reduction	2/3 DNR			
WDR	dWDR			
Audio input/-output	- / -	- / -	- / -	1 / 1
Audio Codec	-	-	-	G.711, RAW PCM
Network interface	10 / 100 Base-T			
Alarm input/output	- / -	- / -	- / -	1 / 1
Protocols	HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, PoE, Unicast / Multicast, ONVIF		HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, PoE, Unicast / Multicast, ONVIF	
HLC	Yes			
Motion detection	Yes			
ROI	Yes			-
Interfaces	RJ-45, BNC	RJ-45	RJ-45	RJ-45
Micro SD Storage	-	-	SD/SDHC/SDXC supported up to 32GB (card not included)	SD/SDHC/SDXC supported Max 64GB (card not included)
Power	PoE / 12VDC	PoE / 12VDC	PoE / 12VDC	PoE / 12VDC / 24VAC
Power Consumption	2.5W (IR LED OFF) 5W (IR LED ON)	2.5W (IR LED OFF) 5W (IR LED ON)	2.5W (IR LED OFF) 5W (IR LED ON)	5W (IR LED OFF) 8W (IR LED ON)
Operating environment	-4°F ~ 131°F	-4°F ~ 131°F	-4°F ~ 131°F	-13°F ~ 131°F
Dimensions W x D x H	4.0" x 3.8" x 11.7"	6.7" x 2.8" x 2.4"	2.1" x 3.9" (Ø)	1.8" x 6.3" (Ø)
Weight	1.5 lbs	1.4 lbs	1.4 lbs	1.5 lbs
Certifications	CE, FCC, IP66, ONVIF (Profile S)		CE, FCC, IP65, ONVIF (Profile S)	

ACCESSORIES



ZA8-CBK634
Back box for ZN8-M4NTFN4L

ZN8-F7NTFN10L ACCESSORIES



Pendant Mount
ZA8-CBK637



Wall Mount
ZA8-CBK636



Corner Mount
Bracket
ZA8-CBK626



Pole Mount
Adaptor
ZA8-CBK627

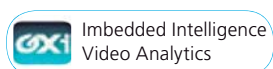
2 MP BOX AND DOME CAMERAS with GXi IMBEDDED INTELLIGENCE



	2 MEGAPIXEL BOX CAMERA		2 MP INDOOR DOME	INDOOR DOME	INDOOR DOME
	ZN1A-C4	ZN-NH22XE	ZN1A-DN312XE-M ZN1A-DN312XE (no Proset)	ZN1A-D4NMZ43L	ZN1A-D4FN5 -4mm ZN1A-D4FN7 - 2.97mm
Sensor	1/2.9" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.9" CMOS	
Compression format	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Max. resolution	1080p				
Effective pixels	1920 x 1080				
Compression FPS	30fps@HD 1080p				
Lens	CS-Mount	CS-Mount	3-9mm, F1.2 w/ ProSet Motorized Focus & Zoom (ZN1A-DN312XE-M only)		4.0mm / 2.97mm
Horizontal FOV	-	-	93.0° (Wide) to 31.7° (Tele)	133.5° (Wide) to 40.8° (Tele)	84.4°(N5) / 104.5°(N7)
Iris control	Manual / DC Iris	Manual / DC Iris	DC-Iris	DC-Iris	-
S/N ratio	50dB or more				
Video output	-	1 x BNC (for installation)	1 x BNC (for installation)	1 x BNC (for installation)	-
Alarm in-/output	-	1 / 1	1 / 1	1 / 1	1 / 1
Audio in-/output	-	1 / 1	1 / 1	-	-
Audio codec	-	G.711	G.711	-	-
Day/Night	Digital Day / Night	True Day/Night	True Day/Night	True Day/Night	Digital Day/Night
Minimum illumination	0.5 Lux (Color) 0.001 Lux (DDS ON)	1.0 Lux (Color) 0.001 Lux (B/W, Sens-up 32x)	1.0 Lux (Color) 0.001 Lux (B/W, Sens-up 32x)	1.0 Lux (Color) 0 Lux (IR on)	1.0 Lux (Color) 0.001 Lux (DSS on)
AGC/BLC/DNR/DWDR	Yes / Yes / Yes / Yes				
Network interface	10/100 Base T				
Protocols	QoS Layer 3 DiffServ, TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/UDP, RTP/TCP, mDNS, UPnP™, SMTP, DHCP, DNS, DynDNS, NTP, SNMPv1/v2c/v3(MIB-II), IGMP, ICMP, SSLv2/v3, TLSv1	TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/UDP, RTP/TCP, SNTP, mDNS, UPnP, SMTP, SOCK, IGMP, DHCP, DDNS, SSL v2/v3, IEEE 802.1X, SSH, SNMP v2/v3	QoS Layer 3 DiffServ, TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/UDP, RTP/TCP, mDNS, UPnP™, SMTP, DHCP, DNS, DynDNS, NTP, SNMPv1/v2c/v3(MIB-II), IGMP, ICMP, SSLv2/v3, TLSv1, Onvif		
Remote access	IE 7.0+				
Micro SD Storage	SD/SDHC/SDXC supported (Card not included)				
Motion detection	Yes				
Power/PoE	12VDC/ PoE (IEEE 802.3af)				
Power consumption	6.0W @ 12VDC	400mA @ 12VDC	400mA@12VDC	5.6W @ 12VDV	2.64W @ 12VDC
Operating Envir.	14°F ~ 122°F	32°F ~ 122 °F	32°F ~ 122°F	32°F ~ 104°F	32°F ~ 122°F
Housing/ Color / IR	white plastic	Aluminium	Polycarbonate	Polycarb. / 14 IR LEDs	Polycarbonate
Weight	0.5 lbs.	1.1 lbs. (w/o lens)	1.1 lbs.	1 lbs.	0.7 lbs.
Dimensions	2.5" x 2.0" x 3.8	2.8" W x 2.5 H x 5.5" D	5.7"ø x 4.8"	5.8" ø x 3.9" H	3.3" ø x 3.7" H
Certifications	ONVIF (Profile S and G), CE / FCC	ONVIF (Profile S and G), CE, FCC	ONVIF (Profile S and G), FCC, CE	ONVIF Compliant (Profile S), FCC, CE	ONVIF (Profile S and G), FCC, CE

computer CS mount lenses on page 47.

See page 24 for GXi License List



2 MP INDOOR DOMES AND 3MP FISHEYE DOMES with GXi IMBEDDED INTELLIGENCE



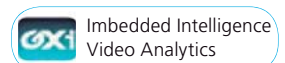
POWERED BY **VCA**
TECHNOLOGIES



	INDOOR MINI DOME	INDOOR IR DOME
	ZN1A-M4FN3	ZN1A-D4NFN6L
Sensor	1/2.7" CMOS	1/2.9" CMOS
Compression format	H.264, MJPEG	
Max. resolution	1080p	
Effective pixels	1920 x 1080	
Compression FPS	30fps@HD 1080p	
Lens	2.8mm	4.3mm
Horizontal FOV	110°	74.4°
Iris control	-	-
S/N ratio	50dB or more	
Video output	-	1 x BNC (for installation)
Alarm in-/output	-	1/1
Audio in-/output	-	-
Audio codec	-	-
Day/Night Performance	Digital Day/Night	
Minimum illumination	1.0 Lux (Color) 0.001 Lux (B/W, DSS on)	1.0 Lux (Color) 0 Lux (IR on)
AGC/BLC/DNR/DWDR	Yes / Yes / Yes / Yes	
Network interface	10/100 Base T	
Protocols	TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTCP, RTP/UDP, RTP/TCP, mDNS, UPnP, SMTP, SOCK, IGMP, DHCP, DDNS, SSL v2/v3, IEEE 802.1X, SSH, SNMP v2/v3	QoS Layer 3 DiffServ, TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTCP, RTP/UDP, RTP/TCP, mDNS, UPnP™, SMTP, DHCP, DNS, DynDNS, NTP, SNMPv1/v2c/v3(-MIB-II), IGMP, ICMP, SSLv2/v3, TLSv1, Onvif
Remote access	IE 7.0+	
Micro SD Storage	SD/SDHC/SDXC supported (Card not included)	
Motion detection	Yes	
Power source	12VDC	
PoE	Support (IEEE 802.3af)	
Power consumption	max. 2.4W @ PoE	2.64W @ DC 12V
Operating Temp.	32°F ~ 104°F	0°C ~ 50°C
Housing/ Color / IR	Polycarbonate	Polycarbonate 10 smart IR LEDs
Weight	0.6 lbs.	0.7 lbs.
Dimensions	4.2" D x 2.2"H	3.3" D x 3.7" H
Certifications	ONVIF (Profile S and G), FCC, CE	ONVIF (Profile S and G), FCC, CE

	3MP FISHEYE DOMES	
	ZN1A-F5FN8	ZN1A-F5FN8I
Sensor	1/2.5" 5 Megapixel CMOS	
Compression format	H.264, MJPEG	
Max. resolution	3MP	3MP
Effective pixels	2048 x 1536	2048 x 1536
Compression FPS	30fps@HD in all resolutions	
Lens	1.2mm, F2 (Computar lens)	1.12mm, F2 (ImmerVision lens)
Horizontal FOV	180°	182°
Iris control	-	-
WDR	Digital WDR	
Video output	1 x BNC (for installation)	1 x BNC (for installation)
Alarm in-/output	1/1	1/1
Audio in-/output	1/1 w/ Two-way Streaming	
Audio codec	G.711-uLaw	G.711-uLaw
Day/Night Performance	Digital Day/Night	Digital Day/Night
Minimum illumination	1.0 Lux (Color) 0.001 Lux (B/W, DSS on)	1.0 Lux (Color) 0 Lux (IR on)
Image Settings	Configurable brightness, contrast, saturation, sharpness	
View Type	Single, Quad, Panorama	
Network interface	10/100 Base T	10/100 Base T
Protocols	oS Layer 3 DiffServ, TCP/IP, UDP/IP, HTTP, HTTPS, FTP, RTSP, RTCP, RTP/UDP, RTP/TCP, mDNS, UPnP™, SMTP, DHCP, DNS, DynDNS, NTP, SNMPv1/v2c/v3(MIB-II), IGMP, ICMP, SSLv2/v3, TLSv1, SRTP, RTMP	
Remote access	IE 7.0+	IE 7.0+
Micro SD Storage	SD/SDHC/SDXC supported (Card not included)	
Motion detection	Yes	Yes
Power source	12VDC	12VDC
PoE	Support (IEEE 802.3af)	Support (IEEE 802.3af)
Power consumption	12VDC, PoE / 3.6W @ 12VDC	
Operating environment	32°F ~ 122°F (0°C ~ 50°C)	
Housing/ Color / IR	Polycarbonate	
Weight	0.79 lbs (360 g)	
Dimensions	5.7" (ø) x 2.3" / 144mm (ø) x 57.2mm	
Certifications	FCC, CE, KC, IP66, Onvif S, Onvif G	ONVIF (Profile S and G), FCC, CE

See page 24 for GXi License List



See page 20 for mounting accessories. *Indicates ProSet and IR Options

Specifications are subject to change without notice.



INDOOR, OUTDOOR AND REPOSITIONABLE DOMES with GXi IMBEDDED INTELLIGENCE



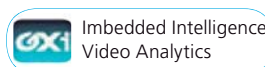
POWERED BY **VCA** TECHNOLOGY



	2 MP OUTDOOR DOME	2 MP OUTDOOR IR DOME	2 MP OUTDOOR DOME		REPOSITIONABLE OUTDOOR DOME	REPOSITIONABLE INDOOR DOME
	ZN1A-D4NTMZ56	ZN1A-D4NTMZ56-L	ZN1A-DNT352XE ZN1A-DNT352XE-M*	ZN1A-DNT352XE-IR ZN1A-DNT352XE-MIR	ZN1A-DNT372XE-MPD ZN1A-DNT372XE-MPD-1	ZN1A-DN332XE-MPD
Sensor	1/2.9" CMOS	1/2.9" CMOS	1/2.7" CMOS			
Compression format	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG		H.264, MJPEG	H.264, MJPEG
Max. resolution	1080p	1080p	1080p		1080p	1080p
Effective pixels	1920 x 1080	1920 x 1080	1920 x 1080		1920 x 1080	1920 x 1080
Compression FPS	30fps@HD 1080p	30fps@HD 1080p	30fps@HD 1080p		30fps@HD 1080p	30fps@HD 1080p
Lens	2.8mm ~ 12mm, ProSet* Motorized Focus & Zoom		3-9mm, F1.2 ProSet* Motorized Focus & Zoom (P/N with suffix containing "M")			
Horizontal FOV	100° (Wide) to 35° (Tele)		93.0° (Wide) to 31.7° (Tele)			
Iris control	DC Auto Iris	DC Auto Iris	DC-Iris		DC-Iris	DC-Iris
S/N ratio	50dB or more					
Video output	-	-	1 x BNC (for installation)		1 x BNC (for installation)	
Alarm in-/output	1 / 1	1 / 1	1 / 1		1 / 1	1 / 1
Audio in-/output	-	-	1 / 1		1 / 1	1 / 1
Audio codec	-	-	G.711		G.711	G.711
Day/Night Performance	True Day/Night	True Day/Night	True Day/Night		True Day/Night	True Day/Night
Minimum illumination	0.5 Lux (color) / 0.001 Lux BW (DSS ON)		1.0 Lux (color) 0.001 Lux (B/W, Sens-up 32x)		1.0 Lux (color) 0.0 Lux (IR LED on)	1.0 Lux (color) 0.001 Lux (DSS on)
AGC/BLC/DNR/DWDR	Yes / Yes / - / Yes	-	Yes / Yes / Yes / Yes		Yes / Yes / Yes / Yes	Yes / Yes / Yes / Yes
Network interface	10/100 Base T	10/100 Base T	10/100 Base T		10/100 Base T	10/100 Base T
Protocols	QoS Layer 3 DiffServ, TCP/IP, UDP/IP, HTTP, HTTPS, FTP, RTSP, RTCP, RTP/UDP, RTP/TCP, mDNS, UPnP™, SMTP, DHCP, DNS, DynDNS, NTP, SNMPv1/v2c/v3(MIB-II), IGMP, ICMP, SSLv2/v3, TLSv1, SRTP, RTMP		TCP/IP, UDP/IP, HTTP, RTSP, RTCP, RTP/UDP, RTP/TCP, SNTP, mDNS, UPnP, SMTP, SOCK, IGMP, DHCP, DDNS, SSL v2/v3, IEEE 802.1X, SSH, SNMP v2/v3			
Remote access	IE 7.0+	IE 7.0+	IE 7.0+		IE 7.0+	IE 7.0+
Micro SD Storage	SD/SDHC/SDXC supported (Card not included)					
Motion detection	Yes					
Power source	12VDC	12VDC	12VDC		12VDC	12VDC
PoE	Support (IEEE 802.3af)					
Power consumption	12VDC, PoE / 10W @ 12VDC (Heater On, IR-LED On [ZN1A-D4NTMZ56-L])		5.28W (with heater: 22.8W)		16.2W@12VDC	8.64W@12VDC
Operating environment	-40°F ~ 122°F, Built-in heater, Humidity up to 85% RH (non-condensing)		-40°F ~ 122°F [PoE] 32°F ~ 122°F, Built-in heater		12VDC: -40°F ~ 122°F PoE: 32°F ~ 122°F *-1 no heater	PoE: 32°F ~ 122°F
Housing/ Color	Aluminum, e (PC) Ivory		Aluminium / IP66		Aluminium / IP66	Aluminium
IR	-	28 Smart IR LEDs (98')	-	32 Smart IR LEDs (82')	-	-
Weight	2.7 lbs (1.2 kg)		2.6 lbs.		3.5 lbs	2.6 lbs
Dimensions	6.1" (ø) x 5.1" / 155mm (ø) x 129mm		4.5"ø x 5.1"(H)		6.5"ø x 5.3" H	6.1"ø x 5.1"H
Certifications	ONVIF (Profile S and G), FCC, CE, KC, IP66, IK10		ONVIF (Profile S and G), FCC, CE, IP66			

See page 20 for mounting accessories.

See page 24 for GXi License List



OUTDOOR PTZ DOME with GXi IMBEDDED INTELLIGENCE



POWERED BY **VCA** TECHNOLOGY



16MP 360° MULTISENSOR SURROUND VIEW OUTDOOR IP CAMERA			
Camera	ZN1A-MS4E	Enclosure with 4x 4MP Cameras (no lenses)	
Lens Module Options	ZN1A-MSL-28	2.8mm lens module	Angle of View D 104°, H 90° V 55°
	ZN1A-MSL-40	4.0mm lens module	D 101°, H 81°, V 43°
	ZN1A-MSL-60	6.0mm lens module	D 59°, H 51°, V 29°
	ZN1A-MSL-80	8.0mm lens module	D 44°, H 39°, V 22°
Sensor	4 x 4MP 1/3" Progressive scan sensor		
Effective Pixels	2688 (H) x 1520 (V) per sensor		
Scanning System	Progressive scanning		
AGC Control	Auto		
Minimum Illumination	0.41 Lux, F2.0		
Lens	2.8 mm (F1.8), 4mm (F2.0), 6mm (F2.0)		
Shutter Time	Auto / Manual: 1/30 ~ 1/32,000, Anti-Flicker, Slow Shutter (1~1/5, 1/7.5, 1/10)		
Day & Night	True Day & Night		
Wide Dynamic Range	True WDR (2x, 3x), 120 dB or above		
S/N Ratio	50 dB		
Video Compression	H.264, MJPEG		
Multiple Profile Streaming Performance	1st stream: H.264, 1440p, 30fps, 2nd stream: H.264, VGA, 30fps, 3rd stream: MJPEG, SVGA, 10fps		
Support Resolution	H.264: 1440p/1080p/720p/VGA/D1/CIF, MJPEG: 800x600/VGA/768x432/D1/CIF		
Video Bit Rate	100Kbps ~ 10Mbps, Multi-rate for Preview and Recording		
Bitrate Control	Multi Streaming CBR/VBR at H.264 (Controllable frame rate and Bandwidth)		
DNR	3D-DNR		
Privacy Mask	16 programmable zones per sensor		
Smart AVC	Supported (Advanced Video Coding)		
Dynamic ROI	Supported		
Analog Output	1 (installation only), CVBS1.0V p-p (75Ω), 4:3 aspect ratio, sensors selectable		
Audio Compression	G.711		
Audio input / output	1 / 1 (Master In/Out)		
Event Trigger	Motion, Alarm, Temperature critical		
Pre-Post Recording	Pre: 1~5 sec, Post: 1~240 sec		
Event Notification	FTP, E-mail, Alarm-out, SD card		
Ethernet Standard	10 / 100 Base-T		
IP	IPv4, IPv6		
Protocol	Zero configuration (Auto IP) ONVIF, TCP/IP, UDP, RTP/UDP/TCP, RTSP, NTP, HTTP, HTTPS, SSL, DNS, DDNS, DHCP, FTP, SMTP, ICMP, SNMPv1/v2c/v3 (MIB-II)		
Security	HTTPS (SSL), IP Filtering, Digest Authentication (ID / PW), IEEE802.1X		
Material	Aluminum Die-casting		
External I/O Terminals	1 x Alarm In / 1 x Alarm Out		
Power / Consumption	12VDC, PoE+ / max 18W at 12VDC		
Operating Conditions	12VDC / PoE+ -20°C ~ 50°C, Humidity 10 ~ 90% RH (non-condensing)		
Weight	4.4 lb 2.0 kg		
Dimensions (W x H)	7.5 ø x 3.5" (190mm ø x 90mm)		
Micro SD Storage	4 x microSD / microSDHC / microSDXC (card not included)		
Certifications	FCC, CE, ROHS, IP66, ONVIF Profile S		

EXTREME LOW LIGHT PTZ OUTDOOR DOME	
ZN1A-P4DT54U	
Sensor	1/2.8" SONY STARVIS Exmor 1080p CMOS
Compression format	H.264, MPEG-4, MJPEG
Dual stream	Yes, configurable
Resolution	1080p
Compression FPS	30fps in all resolutions
Lens	4.3 (w) – 129.0mm (t), F1.6 (w) – F4.7 (t) Optical 30x, Digital 12x
Horizontal FOV	63.7°(Wide) to 2.3°(Tele)
Day/Night Performance	True Day / Night
WDR Performance	Digital
Minimum illumination	1.4 Lux (50 IRE) / 0.35 Lux (Sens-up) (color) 0.05 Lux (50 IRE) / 0.013 Lux (Sens-up) B/W
Audio in-/output	1 / 1
Audio codec	G.711-uLaw
Network interface	10 / 100 Base-T
Protocols	QoS Layer 3 DiffServ, TCP/IP, UDP/IP, HTTP, HTTPS, FTP, RTSP, RTP, RTP/UDP, RTP/TCP, mDNS, UPnP™, SMTP, DHCP, DNS, DynDNS, NTP, SNMPv1/v2c/v3 (MIB-II), IGMP, ICMP, SSLv2/v3, TLSv1.1-.2, SRTMP, RTMP, IEEE802.1X
Pan /Tilt Range	Pan Range: 360° Endless Rotation, Tilt Range: -5° ~ 185° Auto-flip
Manual Pan/Tilt Speed	0.01° ~ 120° /sec
Preset Pan/Tilt Speed	600° /sec
Presets	255 preset points; 6 tours; Auto panning; Auto run
Privacy Mask	8 configurable regions
System Accuracy	±0.1° (Preset point), 0.0009765626° (Resolution)
Application Programming Interface	Software Development Kit (SDK) available
Event Sources	Sensor (DI), Alarm(DO), Video Motion Detection, Face Detection, Tamper Detection, Video Content Analytics (VCA), Network Loss/Detect, Network Setting Change, Time (Recurrence/Schedule), Storage Error.
Event Actions	File upload, E-mail, FTP Notification: E-mail, FTP, HTTP, TCP, Trigger-Alarm (DO), Recording, Event Log Saving, Moving to PTZ preset spot.
Event Metadata Streaming (RTSP/RTMP)	Video Motion Detection (MD), Video Content Analytics (VCA)
Micro SD Storage	SD/SDHC/SDXC supported: up to 32GB (card not included)
Power	24VAC, PoE
Power consumption	24VAC, PoE+(802.3at) / 46W (heater on) @ 24VAC
Operating conditions	24VAC -40°F ~ 122°F (-40°C ~ 50°C); PoE+ 32°F ~ 122°F (0°C ~ 50°C), Built-in fan and heater
Housing / IP Rating	Aluminum, Anti-vandal bubble (PC) / IP66
Weight	10.1 lb / 4.6kg
Dimensions	9.1" ø x 11.7" H / 232mm ø x 296.4 H
Certifications	ONVIF (Profile S and G), FCC, CE, IP66

* does not include analytic options

See page 19 for mounting accessories

MINI AND BULLET CAMERAS with GXi IMBEDDED INTELLIGENCE

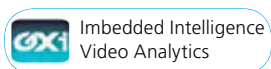


POWERED BY **VCA** TECHNOLOGY



	OUTDOOR MINI BULLET	OUTDOOR BULLET	EXTREME LOW LIGHT OUTDOOR BULLET	
	ZN1A-N4NFN6 ZN1A-N4NFN6-1	ZN1A-BT662XE-MIR	ZN1A-B4DZF56U	ZN1A-B4DZF69U
Sensor	1/2.9" CMOS	1/2.7" CMOS	1/2.8" SONY STARVIS Exmor CMOS	
Compression format	H.264, MJPEG			
Max. resolution	1080p			
Effective pixels	1920 x 1080			
Compression FPS	30fps@HD 1080p			
Lens	4.3mm, F2.0	3- 9mm, F1.4 w/ ProSet Motorized Focus & Zoom	2.8~ 12mm w/ ProSet Motorized Focus & Zoom	7mm ~ 22mm w/ ProSet Motorized Focus & Zoom
Horizontal FOV	74.4°	93° (Wide) to 31.7° (Tele)	99° (Wide) to 35° (Tele)	39° (Wide) to 17° (Tele)
Iris control	-	DC-Iris	DC-Iris	DC-Iris
S/N ratio	50dB or more	60dB	True WDR	
Video output	-	1 x BNC (for installation)	-	-
Alarm in-/output	-	1 / 1	G.711 / 2 Way Streaming	
Audio in-/output	-	-	1/1	
Audio codec	-	-	G.711	
Day/Night Performance	True Day/Night			
Minimum illumination	1.0 Lux (Color) 0.007 Lux (Sens-up)	0.5 Lux (Color) 0 Lux (B/W, IR on)	0.03 Lux (Color DSS on), 0 Lux (B/W IR on)	
AGC/BLC/DNR/DWDR	Yes / Yes / Yes / Yes			
Network interface	10/100 Base T			
Protocols	TCP/IP, UDP/IP, HTTP, RTSP, RTCP, RTP/UDP, RTP/TCP, SNTP, mDNS, UPnP, SMTP, SOCK, IGMP, DHCP, DDNS, SSL v2/v3, IEEE 802.1X, SSH, SNMP v2/v3		QoS Layer 3 DiffServ, TCP/IP, UDP/IP, HTTP, HTTPS, FTP, RTSP, RTCP, RTP/UDP, RTP/TCP, mDNS, UPnP™, SMTP, DHCP, DNS, DynDNS, NTP, SNMPv1/v2c/v3(MIB-II), IGMP, ICMP, SSLv2/v3, TLSv1/1.2, SRTP, RTMP, IEEE802.1X	
Remote access	IE 7.0+			
Micro SD Storage	SD/SDHC/SDXC supported (Card not included)		SD/SDHC/SDXC supported (Card not included)	
Motion detection	Yes			
Power source	PoE	12VDC	12VDC, PoE	12VDC, PoE
Power consumption	max. 5.55W @ PoE	max. 1.5A@12VDC (heater on)	12VDC, PoE+ / Max. 17W @ 12VDC (Heater on, IR LEDs on)	
Operating environment	-4°F ~ 113°F	12VDC: -40 °F ~ 122 °F PoE: 32 °F ~ 122 °F	-40°F ~ 122°F (-40°C ~ 50°C) Built-in heater	
Housing / Rating / IR	Aluminium / IP66 / 8 LEDs	Aluminium / IP66 / 34 LEDs	16 Smart IR LEDs (131' Range)	16 Smart IR LEDs (197' Range)
Weight	1.3 lbs	3.3 lbs.	1.97 lbs (895 g)	1.97 lbs (895 g)
Dimensions	2.9" W x 3" H x 9.6"D (with bracket)	3.3"W x 3.2"H x 7.6"D (w/o bracket)	3.3" (ø) x 3.3" x 11.0"	
Certifications	ONVIF (Profile S and G), FCC, CE, IP66		ONVIF (Profile S and G), FCC, CE, IP66	

See page 24 for GXi License List.



INDOOR AND OUTDOOR DOME ACCESSORIES



INDOOR DOME ZN-D1MTP, ZN-D2MTP



ZC-FM3A	ZC7-PM1	ZC7-WM1
Flush Mount Adapter for ZN-D1MTP and ZN-D2MTP	Pendant Mount for ZN-D1MTP, ZN-D2MTP (3/4" NPT Pipe)	Wall Mount for ZN-D1MTP and ZN-D2MTP



OUTDOOR DOME ZN-DT1MTP, ZN-DT2MTP



ZNA-CA1	ZNA-HD2	ZNA-WM2A	ZCA-GAP
Pendant Cap for PixelPro ZN-DT1MTP, ZN-DT2MTP (1 1/4" NPT Pipe)	Heater Option for ZN-DTxMPT Series Vandal Domes	Wall Mount Adapter for PixelPro ZN-DT1MTP, ZN-DT2MTP	4S Box Adapter for ZNA-WM2A



3/5 MP OUTDOOR DOME ZN-D5DTMP58LHE, ZN-D6DTMP55LHE



ZNA-WMB3A	ZNA-CMB3A	ZNA-ICB3A
Wall Mount for ZN-D5DTMP58LHE, ZN-D6DTMP55LHE	Ceiling Mount for ZN-D5DTMP58LHE, ZN-D6DTMP55LHE	In-Ceiling Mount for ZN-D5DTMP58LHE, ZN-D6DTMP55LHE



OUTDOOR PTZ ZN1A-P4DT54U



WMB-4600	CMB-4600	CMA-4600
Wall Mount Bracket for ZN1A-P4DT54U	Ceiling Mount for ZN1A-P4DT54U	Corner Mount Adapter for ZN1A-P4DT54U

INDOOR AND OUTDOOR DOME MOUNTING ACCESSORIES



POWERED BY **VCA** TECHNOLOGY



**INDOOR DOME
ZN1A-DN312XE-***



**OUTDOOR DOME
ZN1A-DNT352XE-***



**OUTDOOR DOME
ZN1A-DNT352XE-MIR**



WMB-3000	CMB-3000	CMA-3000	PMA-3000	FMB-3102 / FMB-3502
Wall Mount for ZN1A-DN312XE-M, ZN1A-DNT352XE, ZN1A-DNT352XE-MIR	Ceiling Mount for ZN1A-DN312XE-M, ZN1A-DNT352XE, ZN1A-DNT352XE-MIR	Corner Mount for WMB-3000	Pole Mount Adapter for WMB-3000	Flush Mount Bracket for ZN1A-DN312XE ZN1A-DNT352XE



**INDOOR DOME
ZN1A-D4FN5**



WMB-3200	CMB-3200
Wall Mount for ZN1A-D4FN5	Ceiling Mount for ZN1A-D4FN5



**INDOOR MINI DOME
ZN1A-M4FN3**



PMC-300	WMB-3200
Pendant Mount for ZN1A-M4FN3	Wall Mount for ZN1A-M4FN3



**INDOOR DOME
ZN1A-D4NMZ43L**



WMB-3400	CMB-3400
Wall Mount for ZN1A-D4NMZ43L	Ceiling Mount for ZN1A-D4NMZ43L

PINHOLE SERIES with GXi IMBEDDED INTELLIGENCE

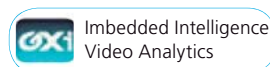


POWERED BY **VCA** TECHNOLOGIES



	PINHOLE CAMERA		HEIGHT STRIP CAMERA		IN-WALL CAMERA		CORNER MOUNT CAMERA	
	ZN1-V4FN3	ZN1-V4FN4	HSx-H28-4	HSx-H37-4	GBK-28-4	GBK-37-4	CMC-28-4	CMC-37-4
Sensor	1/3" CMOS							
Compression format	H.264, MJPEG							
Max. resolution	1080p							
Effective pixels	1920 x 1080							
Compression FPS	30fps@ HD 1080p							
Lens	2.8mm, F2.0	3.7mm, F2.5	2.8mm, F2.0	3.7mm, F2.5	2.8mm, F2.0	3.7mm, F2.5	2.8mm, F2.0	3.7mm, F2.5
Horizontal FOV	82°	63°	82°	63°	82°	63°	82°	
Iris control	-		-		-		-	
S/N ratio	50dB or more							
Video output	-		-		-		-	
Alarm input /Output	-		-		-		-	
Audio input /Output	-		-		-		-	
Audio codec	-		-		-		-	
Day/Night	Digital D/N							
Minimum illumination	1.0 lux (color) 0.007 lux BW	1.4 lux (color) 0.01 lux BW	1.0 lux (color) 0.007 lux BW	1.4 lux (color) 0.01 lux BW	1.0 lux (color) 0.007 lux BW	1.4 lux (color) 0.01 lux BW	1.0 lux (color) 0.007 lux BW	1.4 lux (color) 0.01 lux BW
AGC/BLC/DNR/DWDR	Yes / Yes / Yes / Yes							
Network interface	10/100 Base T							
Protocols	TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTCP, RTP/UDP, RTP/TCP, SNTP, mDNS, UPnP, SMTP, SOCK, IGMP, DHCP, DDNS, SSL v2/v3, IEEE 802.1X, SSH, SNMP v2/v3							
Remote access	IE 7.0+							
Micro SD Storage	SD/SDHC/SDXC supported (card not included)							
Motion detection	Yes							
Power source	12VDC							
PoE	Support (IEEE 802.3af)							
Power consumption	max. 3.6W@12VDC							
Operating environment	32°F ~ 122°F							
Housing /Colors	Polycarbonate		Polycarbonate. (x = W - white, S - silver, B - black)		Aluminum. White, silver & ivory faceplates included		Aluminum. Black faceplate.	
Weight	0.6 lbs		2.6 lbs		0.7 lbs		1.6 lbs.	
Dimensions	Camera unit: 1.1"ø x 1" H Camera control unit: 4.2" W x 1"H x 4.9"D		Height strip: 1.7" W x 1.4" D x 34.1" H, Camera control unit: 4.2" W x 1" H x 4.9"		Faceplate: 4.5" H x 2.8" W x 1.6" D, Main Camera control unit: 4.2" W x 1"H x 4.9" D		Corner mount: 5.5" H x 9.4" W x 4.6" D Camera control unit: 4.2" W x 1"H x 4.9"D	
Certifications	OnVIF (Profile S and G), FCC, CE							

See page 24 for GXi License List



CAMERAS, ENCODERS AND ENCODER RACK SOLUTIONS with GXi IMBEDDED INTELLIGENCE



POWERED BY **VCA** TECHNOLOGY

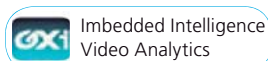


DOOR FRAME CAMERA		
	DFx-28-4	DFx-37-4
Sensor	1/3" CMOS	
Compression format	H.264, MJPEG	
Max. resolution	1080p	
Effective pixels	1920 x 1080	
Compression FPS	30fps@ HD 1080p	
Lens	2.8mm, F2.0	3.7mm, F2.5
Horizontal FOV	82°	63°
Iris control	-	
S/N ratio	50dB or more	
Video output	-	
Alarm in-/output	-	
Audio in-/output	-	
Audio codec	-	
Day/Night Performance	Digital D/N	
Minimum illumination	1.0 lux (color) / 0.007 lux BW (DSS ON)	1.4 lux (color) / 0.01 lux BW (DSS ON)
AGC/BLC/DNR/DWDR	Yes / Yes / Yes / Yes	
Network interface	10/100 Base T	
Protocols	TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/UDP, RTP/TCP, mDNS, UPnP, SMTP, SOCK, IGMP, DHCP, DDNS, SSL v2/v3, IEEE 802.1X, SSH, SNMP v2/v3	
Remote access	IE 7.0+	
Micro SD Storage	SD/SDHC/SDXC supported (card not included)	
Motion detection	Yes	
Power source	12VDC	
PoE	Support (IEEE 802.3af)	
Power consumption	Max. 3.6W@12VDC	
Operating environment	32°F ~ 122°F	
Housing / Colors	Polycarbonate. (x = W - white, S - silver, B - black)	
Weight	0.6 lbs	
Dimensions W x H x D	Camera: 1.7" x 4" x 1.4" Camera control unit: 4.2" x 1" x 4.9"	
Certifications	OnVIF (Profile S and G), FCC, CE	

NETWORK VIDEO ENCODERS				
	ZS1A-1DS	ZS1A-4DS	ZS1A-4DB1	ZS1A-4DB2
Video Input	1 x BNC	4 channel		
Video Output	1 x BNC	-	-	
Compression Format	H.264, MJPEG Selectable per Stream			
Number of Streams	Dual Stream, Configurable			
Resolution	D1 / 4CIF / VGA / CIF / QVGA / QCIF			
Frame Rate	30fps @ D1			
Audio In / out	1 / 1	4 / 1	4 / 1	
Audio Codec	G.711			
Network	10 / 100 Base-T			
Protocols	QoS Layer 3 DiffServ, TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/UDP, RTP/TCP, mDNS, UPnP™, SMTP, DHCP, DNS, DynDNS, NTP, FTP, SNMPv1/v2c/v3(MIB-II), IGMP, ICMP, SSLv2/v3, TLSv1			
SD Memory Card Slot	SD/SDHC/SDXC supported (card not included)		-	
Power / Power Consumption	12VDC, PoE 2.8W @ 12VDC	12VDC 8.8W @ 12VDC	12VDC 8.8W @ 12VDC	12VDC 10.1W @ 12VDC
Operating Temp.	32 °F ~ 122 °F (0°C ~ 50°C)			
Dimensions W x H x D	4.1" x 1.5" x 5.6" 103 x 38 x 141mm	5.4" x 1.5" x 9.6" 137 x 38 x 244mm	4.9" x 1.7" 125 x 42mm (panel)	5.2" x 1.2" 131 x 30mm (panel)
Weight	.9 lbs. / 430 g	2 lbs / 920 g	0.5 lbs / 240 g	
Housing	Metal		-	-
Operating Temp.	0°C ~ 50°C (32 °F ~ 122 °F)			
Certifications	OnVIF (Profile S and G), CE, FCC			
Video Content Analytics	Optional			



NETWORK VIDEO ENCODER RACK SOLUTIONS		
	ZA1A-NVE12K	ZA1A-NVE40K
Rack Construction	Aluminum 19" / 1U Sub-Rack	Aluminum 19" / 4U Sub-Rack
Available Slots	3 (Hot Swappable Blades)	10 (Hot Swappable Blades)
Power Source	85~264 VAC, 47~63 Hz, 2A	90~264 VAC, 47~63 Hz, 2A
Fan Unit	4,500 rpm x 2	1,800 rpm x 3 (Hot Swappable)
Operating Temp. (not include cold start)	32 °F ~ 140 °F (0 °C ~ 60 °C)	
Humidity	Up to 85% RH	
Dimension WxHxD	19.0" x 1.7" x 11.3" 482 x 44 x 286mm	19.0" x 7.0" x 13.8" 482 x 177 x 350mm
Weight	1.8 kg + 240 g (ZS1A-4DB1) x 3	6.9 kg + 240 g (ZS1A-4DB2) x 10
Power Consumption	55W (fully Loaded Rack)	140W (fully Loaded Rack)
Supported Blades	ZS1A-4DB1 - 12 channel rack solution	ZS2A-4DB1 - 40 channel rack solution



See page 24 for GXi License List.

ALL-IN-ONE STAND-ALONE ANALYTICS APPLIANCE with GXi IMBEDDED INTELLIGENCE



POWERED BY **VCA**
TECHNOLOGIES

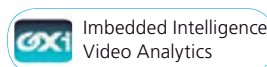
NEW



Ganz Bridge is an all-in-one analytics appliance that enables the rapid application of VCA Technology's advanced video analytics engine to compatible RTSP and ONVIF IP cameras, VMSs, NVRs and PSIM servers.

GANZ BRIDGE		
Channels	ZN1A-BP3500-04	4 channels @ 1080p @30fps
	ZN1A-BP3500-08	8 channels @ 720p @30fps
	ZN1A-BP3500-016	16 channels @ D1 @30fps
SYSTEM		
Supported Clients	PC, iPad*, iPhone*, Android	
Supported Browsers	IE*, Safari*, Chrome, Firefox* (latest versions)	
Software Update	Automatic or Manual	
Supported Video Format	H.261, H.262/MJPEG-2 Part 2, H.263, H.264/MJPEG-4 AVC, HEVC, MJPEG, MPEG-1, MPEG-4 Part 2, VP8, VP9, Theora, VC-1, WMV7, WMV8, WMV9	
EXTERNAL INPUT / OUTPUT		
Digital Input / Output	4/4, RS-485 2	
Audio	Two-way streaming, G.711-uLaw compression	
Audio Input / Output	Supported	
SUPPORTED INTERFACES		
Video Input Method	RTSP, ONVIF, Supported VMS / NVR* / PSIM* Platforms	
Output Data Format	Events (TCP*, HTTP*, SMTP, VMS / NVR / PSIM Client) Metadata (XML, JSON)*	
Web Interface	HTML5 via embedded web server, No plugins necessary	
API	Restful API for 3 rd party integration and customization	
BASIC EVENT RULES		
Event Sources	Digital Input (DI), any analytics rule	
Event Actions	Digital Output (DO), Local recording, E-mail, TCP, , HTTP, and FTP, notification Local event log	
DIAGNOSTICS		
Tamper	Camera Tamper Alert, Loss of Video Input Connection Alert	
SUPPORTED ANALYTICS*		
Object Tracking	Robust object tracking engine tracks through occlusion, high probability of detection, low false positive rate. Multiple modes permit optimization for intrusion detection or business intelligence tracking	
Object Detection*	Detects abandoned objects left or removed from a scene	
Object Counting	Accurate people and vehicle counting, even in dense scenes	
Event Rules	Intrusion detection, Shake cancellation, Tamper detection, Enter & exit filters, Appear & disappear filters, Stopping filter, Dwell filter, Direction filter, Counting, Abandoned object filter*, Removed object filter*, Zones & lines, Speed filter, 3D calibration, Tailgating filter, Logical rules*, People Tracker*, Color Filter*	
GENERAL		
Material / Color	Aluminum / Anodized black	
Power Source/Consumption	12VDC / 15.4W @ 12VDC	
Operating Conditions	14°F ~ 122°F / -10°C ~ 50°C [12VDC]	
Weight	4.0 lb / 1.8kg	
Dimensions HxWxD	2.1"X 7" X 7.9" / 53.6mm X 176.6mm X 200mm	
Certifications	ONVIF, CE, RoHS	

See page 24 for GXi License List



Specifications are subject to change without notice.



Imbedded Intelligence Content Analytics



Intrusion Detection

The intrusion detection sensor is ideal for perimeter security and crime prevention. An alarm is generated when a pre-determined object (person or vehicle) crosses into the detection zone. Alarms can also be generated when an object crosses from the inside to the outside of a detection zone.



People and Vehicle Counting

This feature counts the people and vehicles that pass through the predefined zone. It recognizes directions, so it can differentiate whether objects are entering or exiting. It can also measure the speed of the objects. This feature is ideal for retail: counting customers, identifying trends and alerting staff when a group gathers in a defined location.



Stopping and Dwell Detection

Objects that are stopped inside a zone, or remain inside a zone for longer than the defined amount of time will trigger an alarm. This feature is ideal for identifying a loitering person.



Directional Detection

Objects that travel in the configured direction (within the limits of the acceptance angle) through a zone or over a line trigger an alarm. Applications include traffic control and entry/exit monitoring.



Tailgating Detection

Object tailgating is defined as two objects crossing a virtual line or zone within a pre-defined time frame. This is suitable for vehicles or with people in an access control setting.

These examples represent only a few of the ways GXi's Imbedded Intelligence enables you to capture the real-time data needed to protect your business.

GXi IMBEDDED INTELLIGENCE LICENSE LIST



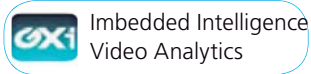
POWERED BY VCA TECHNOLOGIES

GXi VIDEO ANALYTIC LICENSES															
Camera & Encoder Functions	Pre-Installed Licenses			Advanced Functions*											
				Surveillance*									Counting*		Tracking*
	Number of Detection Zones	Tamper Detect	Presence (Intelligent Motion Sensor)	Enter/Exit	Appear/Disappear	Stopped	Dwell	Direction Filter	Speed Filter	Tailgating	Abandoned and Removed	Color Filter	On-screen Counting	Counting Line	PTZ Autotracking
1080p Cameras ZN-xxXE Series / ZN1-xx	40	●	●	●	●	●	●	●	●	●	—	●	●	●	●**
Thermal Cameras ZNT1-H Series	40	●	●	●	●	●	●	●	●	●	—	—	●	●	—
Video Encoder ZS1 Series	Optional	Optional	Optional	●	●	●	●	●	●	●	—	●	●	●	—

*Requires license to activate functions (see table below)

GXi IMBEDDED ANALYTIC FEATURES															
	Free Licenses			Advanced Functions											
				Surveillance									Counting		Tracking
	Number of Detection Zones	Tamper Detect	Presence (Intelligent Motion Sensor)	Enter/Exit	Appear/Disappear	Stopped	Dwell	Direction Filter	Speed Filter	Tailgating	Abandoned and Removed	Color Filter	On-screen Counting	Counting Line	PTZ Autotracking
ZNS-PRES-1	40	●	●	—	—	—	—	—	—	—	—	—	—	—	—
ZNS-COUNT-1	40	●	—	—	—	—	—	—	—	—	—	—	●	●	—
ZNS-ACCESS-1	40	●	●	—	—	—	—	—	—	●	—	—	●	●	—
ZNS-DETECT-1	40	●	●	—	—	—	●	●	●	—	—	—	—	—	—
ZNS-FOLLOW-1	40	●	—	—	—	—	—	—	—	—	—	—	—	—	●
ZNS-SURV-1	40	●	●	●	●	●	●	●	●	●	—	—	●	—	—
ZNS-PRO-1	40	●	●	●	●	●	●	●	●	●	—	●*	●	●	—
ZNS-ADVANCED-1	40	●	●	●	●	●	●	●	●	●	—	—	●	●	—
ZNS-TRACK-1	40	●	●	●	●	●	●	●	●	●	—	—	●	—	●

ZN-STB-1 - Embedded Video Stabilization



* Not supported on ZNT1-H Series Thermal Cameras

THERMAL IMAGING IP CAMERA with GXi IMBEDDED INTELLIGENCE



GANZ THERMAL - G2 FIXED 320X240	
ZNT1-HET14G20A	Fixed Thermal, 17um, 50 NETD, 320x240 resolution, 30 fps, 42 degree HFOV, NTSC/PAL, VCA
ZNT1-HET14G29A	Fixed Thermal, 17um, 50 NETD, 320x240 resolution, 30 fps, 24 degree HFOV, NTSC/PAL, VCA
ZNT1-HET14G25A	Fixed Thermal, 17um, 50 NETD, 320x240 resolution, 30 fps, 9 degree HFOV, NTSC/PAL, VCA
ZNT1-HBT14G20A	Fixed Thermal, 17um, 50 NETD, 320x240 resolution, 9 fps, 42 degree HFOV, NTSC/PAL, VCA
ZNT1-HBT14G29A	Fixed Thermal, 17um, 50 NETD, 320x240 resolution, 9 fps, 24 degree HFOV, NTSC/PAL, VCA
ZNT1-HBT14G25A	Fixed Thermal, 17um, 50 NETD, 320x240 resolution, 9 fps, 9 degree HFOV, NTSC/PAL, VCA

GANZ THERMAL - G2 FIXED 640X480	
ZNT1-HAT24G35A	Fixed Thermal, 17um, 50 NETD, 640x480 resolution, 30 fps, 50 degree HFOV, NTSC/PAL, VCA
ZNT1-HAT24G22A	Fixed Thermal, 17um, 50 NETD, 640x480 resolution, 30 fps, 37 degree HFOV, NTSC/PAL, VCA
ZNT1-HAT24G25A	Fixed Thermal, 17um, 50 NETD, 640x480 resolution, 30 fps, 18 degree HFOV, NTSC/PAL, VCA
ZNT1-HBT24G35A	Fixed Thermal, 17um, 50 NETD, 640x480 resolution, 9 fps, 50 degree HFOV, NTSC/PAL, VCA
ZNT1-HBT24G22A	Fixed Thermal, 17um, 50 NETD, 640x480 resolution, 9 fps, 37 degree HFOV, NTSC/PAL, VCA
ZNT1-HBT24G25A	Fixed Thermal, 17um, 50 NETD, 640x480 resolution, 9 fps, 18 degree HFOV, NTSC/PAL, VCA

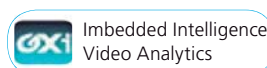
GANZ THERMAL - G2 SPECIFICATIONS		
Camera Module (Pixel Array)	Resolution	320x240, 640x480
	Detection Type	Uncooled Vanadium Oxide Microbolometer
	Sensor Pixel Size	17 µm
	Spectral Response	8-14 µm
	Sensitivity (NETD)	< 50 mK at f/1.0
	Lens (FOV)	9°, 24°, 42°, 18°, 37°, 50° - Inquire for additional options
	Scanning System	Progressive Scan
Video	Video Compression	H.264 Baseline, Main, High profile (MPEG-4 Part 10/ AVC), MJPEG (Motion JPEG)
	Video Streaming	Dual Stream, Configurable streams in H.264, MJPEG H.264: Controllable frame rate, bandwidth (VBR/CBR) MJPEG: Controllable frame rate, JPEG quality
	Resolutions	640x480 (VGA, Scaled-up), 320x240 (QVGA), 160x120 (QQVGA)
Audio	IP	IPv4, IPv6
	Protocol	QoS Layer 3 DiffServ, TCP/IP, UDP/IP, HTTP, HTTPS, FTP, RTSP, RTCP, RTP/UDP, RTP/TCP, mDNS, UPnP™, SMTP, DHCP, DNS, DynDNS, NTP, SNMP v2c/v3 (MIB-II), IGMP, ICMP, SSLv2/v3, TLS, SRTP, RTMP, IEEE802.1X (EAP-TLS / EAP-PEAP)
	Security	HTTPS (SSL), SRTP, IP Filtering, Multi-level access with password protection
	Users	Live viewing for up to 10 clients
Integration	Application Programming Interface	Software Development Kit (SDK) available
	ONVIF Compliance	Profile S, Profile G
	Event Sources	Sensor (DI), Alarm (DO), Video Motion Detection, Tamper Detection, Video Content Analytics (VCA), Network Loss/Detect, Network Setting Change, Time (Recurrence / Schedule), Storage Error
	Event Actions	File upload: E-mail, FTP. Notification: E-mail, FTP, HTTP, TCP (push, multicast, TCP event server). Active alarm (DO) Recording. Event Log Saving.
	Event Metadata Streaming (RTSP / RTP)	Video Motion Detection (MD), Video Content Analytics / GXi Imbedded Intelligence

THERMAL IMAGING IP CAMERA with GXi IMBEDDED INTELLIGENCE



GANZ THERMAL - G2 SPECIFICATIONS (CONTINUED)		
Edge Storage	Storage	Embedded Micro SDHC Card (Optional)
	Recording Types	Continuous Recording or Event Recording
	Continuous Recording	Instant recording, Search & Download
	Event Recording	Search of Event Logs, Playback, Download
GXi Imbedded Intelligence (Standard)	High Performance	Advanced tracking algorithm, low false alarm rate
	Easy to Use	Intuitive web browser interface
	Detection Zones	Multi-segment polygons and lines
	On-screen Display	Real-time display of tracking data and events
	Tamper Detection	Detect camera tampering
	Presence Filter	Detect presence of an object
	Detection Behavior	Direction and Dwell filters
GXi Imbedded Intelligence (Optional)	3D Behavior	Perspective corrected size, speed filters and calibration
	Detection Behavior	Enter, Exit, Appear, Disappear, Stop, Tailgating filters
	Logical Rules	Extends standard rules to allow various combinations of the inputs
	Counting Line	High accuracy people and vehicle counting
	Counter	20 counters in total
	Counting Report	Generates counter reports based on the counter database
	Meta Data	Plain XML Format
Physical	Material	Poly-carbonate, Aluminum
	External I/O Terminals	1x Alarm In, 1x Alarm Out, RS-485
	Language on Webpage	English, Chinese, Korean
	Power Source/ Consumption	12VDC, 24VAC, PoE /max 10W@12VDC, 24VAC, PoE
	Operating Conditions	-40°F ~ 140°F (-40°C ~ 60°C) Humidity up to 85% RH (non-condensing)
	Weight	Approx. 2.7 lbs (1.2kg)
	Dimensions (H x V x D)	3.7" x 3.9" x 11.5" (95 x 98 x 293 mm)
Certifications	FCC, CE, IP66, UL (all in progress) OnVIF (Profile S and G)	

See GXi license list on page 24 for more details.



9 Hz models are export controlled by the U.S. Department of Commerce under ECCN 6A993. 30 Hz models are export controlled by the U.S. Department of Commerce under ECCN 6A003b.4.b. The commodities described herein may require U.S. Government authorization prior to export or re-export.

Made in the USA.

THERMAL IMAGING IP CAMERA with GXi IMBEDDED INTELLIGENCE



NEW



GANZ THERMAL - G2 PAN TILT 320X240	
ZNT1-PAT14G20A	Pan & Tilt Thermal, 17um, 50 NETD, 320x240 resolution, 30 fps, 42° FOV, 7.5MM, NTSC/PAL
ZNT1-PAT14G29A	Pan & Tilt Thermal, 17um, 50 NETD, 320x240 resolution, 30 fps, 24° FOV, 13MM, NTSC/PAL
ZNT1-PAT14G25A	Pan & Tilt Thermal, 17um, 50 NETD, 320x240 resolution, 30 fps, 9° FOV, 35MM, NTSC/PAL
ZNT1-PBT14G20A	Pan & Tilt Thermal, 17um, 50 NETD, 320x240 resolution, 9 fps, 42° FOV, 7.5MM, NTSC/PAL
ZNT1-PBT14G29A	Pan & Tilt Thermal, 17um, 50 NETD, 320x240 resolution, 9 fps, 24° FOV, 13MM, NTSC/PAL
ZNT1-PBT14G25A	Pan & Tilt Thermal, 17um, 50 NETD, 320x240 resolution, 9 fps, 9° FOV, 35mm, NTSC/PAL
GANZ THERMAL - G2 PAN TILT 640X480	
ZNT1-PAT24G35A	Pan & Tilt Thermal, 17um, 50 NETD, 640x480 resolution, 30 fps, 50° FOV, 12.8MM, NTSC/PAL
ZNT1-PAT24G22A	Pan & Tilt Thermal, 17um, 50 NETD, 640x480 resolution, 30 fps, 37° FOV, 16.7MM, NTSC/PAL
ZNT1-PAT24G25A	Pan & Tilt Thermal, 17um, 50 NETD, 640x480 resolution, 30 fps, 18° FOV, 35MM, NTSC/PAL
ZNT1-PBT24G35A	Pan & Tilt Thermal, 17um, 50 NETD, 640x480 resolution, 9 fps, 50° FOV, 12.8MM, NTSC/PAL
ZNT1-PBT24G22A	Pan & Tilt Thermal, 17um, 50 NETD, 640x480 resolution, 9 fps, 37° FOV, 16.7MM, NTSC/PAL
ZNT1-PBT24G25A	Pan & Tilt Thermal, 17um, 50 NETD, 640x480 resolution, 9 fps, 18° FOV, 35MM, NTSC/PAL

GANZ THERMAL - G2 PAN TILT SPECIFICATIONS		
Camera Module (Pixel Array)	Resolution	320x240, 640x480
	Detection Type	Uncooled Vanadium Oxide Microbolometer
	Sensor Pixel Size	17 µm
	Spectral Response	8-14 µm
	Sensitivity (NETD)	< 50 mK at f/1.0
	Lens (FOV)	320x240 - 9° (35mm), 24° (13mm), 42° (7.5mm) 640x480 18° (35mm), 37° (16.7mm) 50° (12.8mm) - Inquire for lens additional options
	Scanning System	Progressive Scan
Video	Video Compression	H.264 Baseline, Main, High profile (MPEG-4 Part 10/ AVC), MJPEG (Motion JPEG)
	Video Streaming	Dual Stream, Configurable streams in H.264, MJPEG H.264: Controllable frame rate, bandwidth (VBR/CBR) MJPEG: Controllable frame rate, JPEG quality
	Resolutions	640x480 (VGA, Scaled-up), 320x240 (QVGA), 160x120 (QQVGA)
Audio	IP	IPv4, IPv6
	Protocol	QoS Layer 3 DiffServ, TCP/IP, UDP/IP, HTTP, HTTPS, FTP, RTSP, RTCP, RTP/UDP, RTP/TCP, mDNS, UPnP™, SMTP, DHCP, DNS, DynDNS, NTP, SNMP v2c/v3(MIB-II), IGMP, ICMP, SSLv2/v3, TLS, SRTP, RTMP, IEEE802.1X
	Security	HTTPS (SSL), SRTP, IP Filtering, Multi-level access with password protection
	Users	Live viewing for up to 10 clients
Integration	Application Programming Interface	Software Development Kit (SDK) available
	ONVIF Compliance	Profile S, Profile G
	Event Sources	Sensor (DI), Alarm (DO), Video Motion Detection, Tamper Detection, Video Content Analytics (VCA), Network Loss/Detect, Network Setting Change, Time (Recurrence / Schedule), Storage Error
	Event Actions	File upload: E-mail, FTP. Notification: E-mail, FTP, HTTP, TCP (push, multicast, TCP event server). Active alarm (DO) Recording. Event Log Saving.
	Event Metadata Streaming (RTSP/RTP)	Video Motion Detection (MD), Video Content Analytics VCA / GXi Imbedded Intelligence

THERMAL IMAGING IP CAMERA with GXi IMBEDDED INTELLIGENCE



NEW



GANZ THERMAL - G2 PAN TILT SPECIFICATIONS (CONTINUED)		
Pan Tilt	Pan / Tilt Range	Pan Range : 360° Endless Rotation / Tilt range: TBD
	Manual Pan/Tilt Speed	TBD
	Preset Pan/Tilt Speed	TBD
	Preset Control	TBD (255 preset points, 8 tours, Auto panning, Auto run)
Edge Storage	Storage	Embedded Micro SDHC Card embedded (Optional)
	Recording Types	Continuous Recording or Event Recording
	Continuous Recording	Instant recording, Search & Download
	Event Recording	Search of Event Logs, Playback, Download
GXi Imbedded Intelligence (Standard)	High Performance	Advanced tracking algorithm, low false alarm rate
	Easy to Use	Intuitive web browser interface
	Detection Zones	Multi-segment polygons and lines
	On-screen Display	Real-time display of tracking data and events
	Tamper Detection	Detect camera tampering
	Presence Filter	Detect presence of an object
	Detection Behavior	Direction and Dwell filters
GXi Imbedded Intelligence (optional)	3D Behavior	Perspective corrected size, speed filters and calibration
	Detection Behavior	Enter, Exit, Appear, Disappear, Stop, Tailgating filters
	Logical Rules	Extends standard rules to allow various combinations of the inputs
	Counting Line	High accuracy people and vehicle counting
	Counter	20 counters in total
	Counting Report	Generates counter reports based on the counter database
Physical	Meta Data	Plain XML Format
	Material	Aluminum
	External I/O Terminals	1x Alarm In, 1x Alarm Out
	Language on Webpage	English, Chinese, Korean
	Power Source/ Consumption	12VDC, 24VAC, PoE /max 10W@12VDC, PoE
	Operating Conditions	-40°F ~ 122°F (-40°C ~ 50°C) Humidity up to 90% RH (non-condensing)
	Weight	5.7lbs. (2.6kg)
	Certifications	FCC, CE, IP66, UL (all in progress) OnVIF
Dimensions (H x W)	9.5" x 5.9" (240 x 150 mm)	

9 Hz models are export controlled by the U.S. Department of Commerce under ECCN 6A993. 30 Hz models are export controlled by the U.S. Department of Commerce under ECCN 6A003b.4.b. The commodities described herein may require U.S. Government authorization prior to export or re-export.

Made in the USA.

See GXi license list on page 24 for more details.

Specifications are subject to change without notice.



ENTERPRISE NVR SERVERS



NEW



The D-1X and D-2XR enterprise servers are developed on Dell EMC infrastructure and designed to provide the flexibility, performance and scale needed to support the high camera counts, megapixel resolutions, high frame rates and long retention times demanded by the industry. Optimized to work with Ganz® CORTROL Series Surveillance software.

JBOD Server - up to 128 IP Cameras and DVD Writer		RAID-6 Server - up to 128 IP Cameras and DVD Writer	
D-1X-12TB	(+/-) 128 IP Cameras, 12TB JBOD, & DVD-RW	D-2XR-12TB*	(+/-) 128 IP Cameras, 12TB RAID-6, & DVD-RW
D-1X-24TB	(+/-) 128 IP Cameras, 24TB JBOD, & DVD-RW	D-2XR-24TB*	(+/-) 128 IP Cameras, 24TB RAID-6, & DVD-RW
D-1X-32TB	(+/-) 128 IP Cameras, 32TB JBOD, & DVD-RW	D-2XR-32TB*	(+/-) 128 IP Cameras, 32TB RAID-6, & DVD-RW
D-1X-48TB	(+/-) 128 IP Cameras, 48TB JBOD, & DVD-RW	D-2XR-48TB*	(+/-) 128 IP Cameras, 48TB RAID-6, & DVD-RW

**Note: The RAID information itself will occupy a certain amount of space on the array. For example, with 8 *2,000GB disks in a RAID 6 array, the total array size will be 12,000GB, 11,175GB of which will be usable.*

	D-1X-xTB - Intel® Xeon®	D-2XR-xTB - Intel® Dual Xeon® RAID-6
Power Supply	Dual, Hot-plug, redundant power supply (1+1), 750W	
Form Factor	2U Chassis with up to 8 x 3.5" SAS/SATA Hard Drives	
Cooling System	2x 120mm front fans, 2x 80mm top fans	
Operating System	Windows Server 2016 (64 Bit) on dedicated mirrored solid-state drive	
NIC	Broadcom 5720 Quad Port 1GB network daughter card	
DVD/CD RW	Front panel access	
Storage (SATA-3Gb/s-7200 RPM)	12TB ~ 48TB internal	Hot Swap 12TB ~ 48TB internal
Graphics Card	Matrox G200eW3 16MB Video Adapter with VGA output	
CPU	(1) Intel Xeon Silver 4114 2.2G, 10C/20T, 9.6GT/s, 14M Cache, Turbo, HT (85W) DDR4-2400	(2) Intel Xeon Silver 4114 2.2G, 10C/20T, 9.6GT/s, 14M Cache, Turbo, HT (85W) DDR4-2400
RAM	16GB 2666MT/s RDIMMs	
Dimensions (W x D x H)	18.98" x 26.72" x 3.42" / 482.0 mm x 678.8 mm x 86.8 mm	
Rails	ReadyRails sliding rails with cable management arm	
iDRAC9	Internal Dell® Remote Access Controller	

Ganz Enterprise Servers powered by Dell EMC are backed by a Dell ProSupport 3 year warranty. For warranty information and options go to ganzsecurity.com/dell-emc.



Go to page 4 for Ganz CORTROL VMS details and license options or ganzsecurity.com/cortrol

NVR SERVERS - ZNR SERIES



ZNR Server	ZNR-2U-xTB	ZNR-4U-xTB
Power Supply	650W PS	
Form Factor	2U Rack mount	4U Desktop (Rack mountable)
Cooling System	4x 80mm front fans	2x 80mm front fans
Operating System	Windows 7 (64 Bit) on an Intel SSD	
NIC	2x Intel 1Gbit Ethernet LAN	
DVD/CD RW	Front panel access	
Storage	3TB-50TB Internal (SATA - 6Gb/s-7200 RPM)	
Graphics Card	Intel HD Graphics 530	
External Analog Encoder	4Ch / 8Ch/ 16Ch/ 24Ch/ 32Ch/ 48Ch/ 64Ch - OPTIONAL ENCODER	
CPU	Intel i7-7700 Processor	
RAM	16 GB DDR4	
Dimensions	16.8"W x 25.6"D x 3.5"H	19"W x 21.5"D x 7" H
Certifications	UL Listed, CE, FCC	

NVR SERVERS - ZNR CLIENT SERVERS



	ZNR-ClientPC	ZNR-ClientPC-4K	ZNR-ClientPC-EXT	ZNR-4U-ClientP	ZNR-4U-ClientPC-4K	ZNR-4U-ClientPC-EXT
Power Supply	650watt PS					
Form Factor	Mid Tower / 4U (Desktop/Rack mountable)			Rack, 3TB (1x3TB)		
Cooling System	1 ~ 2x 80mm front fans based on form factor					
Operating System	Windows 7 (64 Bit) on an Intel SSD					
NIC	2x Intel 1Gbit Ethernet LAN					
DVD/CD RW	Front panel access					
Storage	3TB Internal (SATA - 6Gb/s-7200 RPM)					
Graphics Card	2x 128bit 2Gig w/ HDMI + DVI	1x 192bit 3Gig w/ HDMI + DVI	1x 192bit 3Gig w/ HDMI + DVI	2x 128bit 2Gig w/ HDMI + DVI	1x 192bit 3Gig w/ HDMI + DVI	1x 192bit 3Gig w/ HDMI + DVI
Monitor Support	2x per graphics card	4x per graphics card	4x per graphics card	2x per graphics card	4x per graphics card	4x per graphics card
CPU	Intel i7-7700 4x-Core Processor		Intel i7-6850K 6x-Core Processor	Intel i7-7700 4x-Core Processor		Intel i7-6850K 6x-Core Processor
RAM	16 GB DDR4					
Dimensions	7.8" x 18.5" x 16.8" Mid Tower form factor			19" x 21.5" x 7" - 4U form factor"		

NVR SERVERS - ZNR RAID-6 SERVERS



	ZNR RAID-6 12TB ~ 52TB	ZNR RAID-6 56TB ~ 210TB
Power Supply	(3) Antec Trio 820W (redundancy)	(3) Antec Trio 960W (redundancy)
Form Factor	3U, 16 Bay	4U, 24 Bay
Cooling System	2x 120mm front fans, 2 x 80mm top fans	
Operating System	Windows 7 (64 Bit) on dedicated solid state drive	
NIC	3x Intel Gb Ethernet 1000 Mbps LAN	
DVD/CD RW	Front panel access	
Storage (SATA-3Gb/s-7200 RPM)	Hot Swap 12TB-52TB Internal	Hot Swap 56TB-210TB Internal
Graphics Card	128 bit/1GB (HDMI/DVI-I/VGA)	
CPU	(2) Intel Xeon E5-2630 v3 (8 Core)	
RAM	16GB fully buffered	
Dimensions (W x D x H)	17.1" x 27.5" x 7"	17.2" x 26" x 7"

NVR SERVERS - ZNR RAID-6 SERVERS - LITE



	ZNR RAID-6 Lite 12TB ~ 52TB	ZNR RAID-6 Lite 56TB ~ 210TB
Power Supply	(2) Antec Trio 820W PS (redundancy)	(3) Antec Trio 960W (redundancy)
Form Factor	3U, 16 Bay	4U, 24 Bay
Cooling System	2x 120mm front fans, 2 x 80mm top fans	
Operating System	Windows 7 (64 Bit) on dedicated solid state drive	
NIC	3x Intel Gb Ethernet 1000 Mbps LAN	
DVD/CD RW	Front panel access	
Storage (SATA-3Gb/s-7200 RPM)	Hot Swap 12TB-52TB Internal	Hot Swap 56TB-210TB Internal
Graphics Card	128 bit/1GB (HDMI/DVI-I/VGA)	
CPU	Intel i7-6850K	
RAM	16GB fully buffered	
Dimensions (W x D x H)	17" x 26" x 5.2"	17.1" x 27.5" x 7"

ZNR MINI SERVER WITH ULTRA SMALL FORM FACTOR



ZNR-MCC4TB-24	
Power Supply	AC 100-240V, Output: DC 12V / 3A
Form Factor	Micro PC
Operating System	Windows 7 (via mSATA SSD)
NIC	Realtek RTL8111G Gigabit Fast Ethernet Controller
Internal Storage	eMMC 128GB
External Storage	4TB HDD
CPU	Intel® Bay Trail-M N2808
RAM	DDR3L 2GB / 4GB
Graphics Card	Intel HD Graphics
Video Output	1 x HDMI Port / 1 VGA Port
Audio	HD Audio Subsystem by Realtek ALC283
USB	1 x USB3.0 Port / 2 x USB2.0 Ports
Wireless	WiFi 802.11 b/g/n & Bluetooth 4.0
VESA	Supports 75mm / 100mm
Dimensions	6.0" x 5.4" x 2.8" / 152mm x 137mm x 71mm
Accessories	1 x Power adapter (US+UK+EU AC plug), 1 x VESA Bracket, 7 x Screws, Manual & Driver DVD

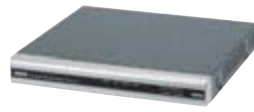
ZNR MINI SERVERS



	ZNR-MINIi3-xTB	ZNR-MINIi5-xTB
Power Supply	200W PS	
Form Factor	Mini Desktop/Mini Tower	
Cooling System	1x 80mm front fans	
Operating System	Windows 7 (64 Bit) on an Intel SSD	
NIC	1x Intel 1Gbit Ethernet LAN / Wi-Fi 2.4/5Ghz + Bluetooth v4.0	
DVD/CD RW	Front panel access	
Storage	3TB-6TB Internal (SATA - 6Gb/s-7200 RPM)	
Graphics Card	Intel HD Graphics	
External Analog Encoder	4Ch / 8Ch/ 16Ch/ 24Ch/ 32Ch - OPTIONAL ENCODER	
CPU	Intel i3-7100 Processor	Intel i5-7400 Processor
RAM	8 GB DDR3	
Dimensions	3.9"W x 13.3"D x 10.2"H	

*** ZNR-MINI in combination with external analog encoders available.
Call for custom configurations.***

NETWORK VIDEO RECORDERS



		NR4HL	NR8HL	NR8H	NR16H
Video Channels	No. of PoE	4Ch	8Ch	8Ch	8Ch + 8Ch External PoE
	Video Compression	H.264			
Display	Interface	1 HDMI		1 HDMI, 1 VGA / Dual Display (Duplicate)	
	Output Resolution	Auto / 1280x1024 / 1280x720 / 1920x1080			
	Display Rate	HD 1080p 120 FPS	1080p 240 FPS	Up to 240FPS @ 640x352 / 720P / 1080P	Up to 480FPS @ 640x352 / 720P / 1080P
	Privacy Masking	Yes			
Audio	Audio In/Out	In - 4ch (from IP Camera), Out - 1ch	In-8ch (from IP Camera), Out - 1ch	8Ch (IP Camera) / 1 Mic (Non recording), Out - 1ch	16Ch (IP Camera) / 1 Mic (Non recording), Out - 1ch
Recording	Audio Compression	G.711			
	Recording Resolution	1080p, 720p, 4CIF, VGA, 640x360 (Depend on IP Camera)			
	Recording Rate	Max. 30 FPS@1080p/ch			
Detection	Trigger Events	Alarm / Motion		Alarm, Motion Video Loss, Panic, System (Disk Events, Boot, Login, Fan, Temp, PoE, Network)	
	Video Motion Detection	Camera side			
Alarm & Relay	Alarm In / Alarm Out	In - MAX 4 ch (IP) + 2 ch (Internal) Out - MAX 4 ch (IP) + 1 Relay (Internal)	In - MAX 8 ch (IP) + 2 ch (Internal) Out - MAX 8 ch (IP) + 1 Relay (Internal)	In - MAX 16 ch (IP) + 2 ch (Internal) Out - MAX 16 ch (IP) + 1 Relay (Internal)	
Playback & Backup	Sync Playback	1Ch / 4Ch / split: Up to 120FPS @ 1920x1080	1Ch / 4Ch / 9Ch split: Up to 240FPS @ 1920x1080		1Ch / 4Ch / 9Ch / 16Ch split: Up to 480FPS @ 1920x1080
	Search Mode	Time / Calendar / Thumbnail / Event / Text-In Search			
	Export/Backup	External ODD, USB Memory, FTP			
	Watermark	Yes			
Network	Ethernet Port - Wan	1 - 10/100Mbps			
	Ethernet Port - Lan	1 - 10/100Mbps			
	PoE	Max 4Ch	Max 4Ch	Max 8Ch	Max 8Ch Internal + Max 8Ch External
	Max. User Access	4 Remote Users	8 Remote users		
	Web Browser	Yes (Windows®, MacOS/X®)			
	Mobile App	Yes (iOS & Android)			
	DMS Client	Yes (Windows®, MacOS/X®)			
Storage	Storage/Interfaces	Internal HDD (2), External (eSATA), HDD Failure Notification (S.M.A.R.T.)		Internal HDD (5) 2-15TB, External (eSATA), HDD Failure Notification (S.M.A.R.T.)	
Physical	Dimensions (WxDxH)	12" x 11.7" x 1.7" / 305mm x 298mm x 44mm (1U)		16.9" x 14.2" x 3.5" / 430 x 360 x 88 mm	
	Weight	3.4 lbs./ 1.5kg (without HDD)			
	Cooling Fans	1		2	
	Power Supply	12VDC Adaptor for NVR, 48VDC Adapter for PoE		100V ~ 230VAC (additional 48VDC adapter for external hub)	
	Power Consumption	20W (without HDD)		25W (without HDD)	
	Temperature / Humidity	0°C ~ 40°C (32°F ~ 104°F) / 10 ~ 90% non-condensing			
	Certifications	UL, CE, FCC, RoHS, WEEE		UL, FCC, CE, RoHS, Weee	

NETWORK VIDEO RECORDERS



Model		NR8-4M71	NR8-8M72	NR8-16M74
Video Channels	No. of PoE	Max 4Ch	Max 8Ch	Max 16Ch
	Video Compression	H.264/MJPEG		
Audio	Input	4Ch (IP Camera)	8Ch (IP Camera) + 1Ch (Local)	16Ch (IP Camera) + 1Ch (Local)
	Output	-	1Ch	1Ch
Display	Interface	1 HDMI, 1 VGA / Dual Display (Duplicate)		
	Output Resolution	1024x768 / 1280x720 / 1920x1080		
	Display Rate	4ch 1080P@30fps, 1ch 6MP@20fps		
	Privacy Masking	Yes		
Recording	Stream 2 Resolution	1024x1024 / 720x720 / D1 / VGA / 640x360 / CIF / QVGA / QCIF (Based on camera model in use)		
	Stream 1 Resolution	6MP/5MP/4MP/3MP/1080p/720p (Based on camera model in use)		
	Record Rate	1080p/720p/D1/VGA/640x360/CIF/QVGA/QCIF @ 25fps(PAL), 30fps (NTSC) 6MP / 5MP / 4MP / 3MP @ 15IPS		
	Bit Rate	Max 18Mbps	Max 36Mbps	Max 72Mbps
	Record Mode	Manual, Schedule (Regular (Continuous), MD, Alarm), None		
	Record Interval	Pre-record: 5 sec / Post-record: 0~30 sec		
Detection	Trigger Events	Motion Alarm, Video Loss	Motion Alarm, I/O alarm, Video Loss	
	Video Detection	Motion Detection		
Alarm & Relay	Alarm Input	4Ch (IP Camera) + 0Ch (Local)	8Ch (IP Camera) + 0Ch (Local)	16Ch (IP Camera) + 2Ch (Local)
	Alarm Output	4Ch (IP Camera) + 0Ch (Local)	8Ch (IP Camera) + 0Ch (Local)	16Ch (IP Camera) + 2Ch (Local)
	Watchdog	Yes - SMART		
Playback & Backup	Sync Playback	1ch (6MP / 5MP / 4MP / 3MP) or 4ch (1080P / 720P)		
	Playback Speed	x1, x2, x4, x8		
	Export/Backup	External ODD, USB Memory		
	Watermark	Yes		
Network	Ethernet Port	1 (LAN) - 10/100/1000Mbps		
	PoE	4Ch 10/100/1000Mbps	8Ch 10/100/1000Mbps	16Ch 10/100/1000Mbps
	Max. User Access	10		
	Web Browser	Yes (Windows®, MacOS/X®)		
	Mobile App	Yes (iOS & Android)		
	DMS Client	Yes - Windows®		
Physical	Internal HDD	Max 1 (3TB)	Max 1 (4TB)	Max 4 (4TB)
	Dimensions	10.0" x 1.9" x 9.3" / 1U	14.6" x 1.8" x 12.2" / 1U	17.3" x 2.6" x 14.8", 1U
	Certifications	FCC, CE, RoHS		

MULTI-FORMAT RECORDING DEVICES



NEW



NEW



Model	DR-8F45AT	DR-16F45AT	DR-8F42A	DR16F-42A
Analog Video Input	8Ch	16Ch	8Ch	16Ch
Analog Video Standard	NTSC / PAL - AHD / TVI selectable			
Video Compression	H.264			
Audio	8Ch (10KOhm, 2.8Vpp)	16Ch (10KOhm, 2.8Vpp)	4Ch (10KOhm, 2.8Vpp)	
Output	1Ch (600Ohm, 2.8Vpp)			
Display	1 HDMI, 1 VGA / Dual Display (Duplicate) or (Main+Spot)			
Output Resolution	1920x1080			
Display Rate	240FPS / 200FPS	480FPS / 400FPS	240FPS / 200FPS	480FPS/400FPS
Spot-Out	1Ch (Layout 1x, 2x2)	2Ch (Layout 1x, 2x2)	1 (CVBS)	
Recording	CIF / 2CIF / 4CIF / D1 / 960H			
HD Resolution	720P / 1080P			
Recording Rate	Up to 240FPS/200FPS @ CIF	Up to 480FPS/400FPS @ CIF		
	Up to 240FPS/200FPS @ D1 / 960H / 720P / 1080P	Up to 480FPS/400FPS @ D1 / 960H / 720P / 1080P	Up to 240FPS/200FPS @ D1 / 960H / 720P / 1080P	Up to 480FPS/400FPS @ D1 / 960H / 720P / 1080P
Detection	Motion, Tamper, Alarm, Panic, Video Loss			
Video Detection	Motion Detection			
Alarm & Relay	8Ch+(1Ch Panic, 1Ch ARI), Pulled up to 5V via 10KOhm	16ChH+(1Ch Panic, 1Ch ARI), Pulled up to 5V via 10KOhm	-	-
Alarm Output	4Ch, O.C. (Pulled up to 5V via 10KOhm)	8Ch, O.C. (Pulled up to 5V via 10KOhm)	-	-
Relay	4Ch, RELAY (125VAC, 60VDC)	8Ch, RELAY (125VAC, 60VDC)	-	-
Playback & Backup	Calendar / Event / Time / Thumbnail			
Playback/Backup	x1, x2, x4, x8, x16, x32, x64 / Backup- External ODD, USB Storage, FTP			
Network	1 (WAN) - 10/100/1000Mbps			
Max. User Access	10		32	
Web Browser	Yes (Windows®, MacOS/X®)			
Mobile App	Yes (iOS & Android)			
DMS Client	Yes (Windows®, MacOS/X®)			
Storage	Max 5		2 EA	
Internal RAID	RAID 5		-	-
External HDD	Max 5		-	-
Auxiliary Interface	Yes		-	-
USB	3 ports (2 Front + 1 Rear)		2 Front	
Physical	16.9" x 14.4 x 3.3 / 2U (430 x 367 x 88.4mm)		1U -10.1x 6.8 x 1.7" (256 x 173 x 44mm)	1U 12 x 11.7 x 1.7" (305 x 298 x 44mm)
Certifications	CE, FCC, e-Tick		CE,FCC, KC	
Optional Accessories	AC-V2CVBS - VGA BNC converter / AVD-816 - 1U, Video distributor (see page 46)			

AHD VIDEO RECORDERS



Model		DRH8-4M41-A	DRH8-8M41-A	DRH8-16M44-A
	Analog Video Input	4Ch	8Ch	16Ch
	Analog Video Standard	NTSC / PAL - Standard / AHD		
Audio	Input	4Ch (10KOhm, 2.8Vpp)	4Ch (10KOhm, 2.8Vpp)	16Ch (10KOhm, 2.8Vpp)
	Output	1Ch (6000hm, 2.8Vpp)		
	Bi-directional Audio	Yes		
Display	Interface	1 HDMI, 1 VGA / Dual Display (Duplicate)		
	Output Resolution	1080P / 720P / 1280x1024		
	Display Rate	1080P@12fps / 720P@30fps / 1280x1024@30fps		
	Display Split	1, 4	1, 4, 9	1, 4, 9, 16
Recording	SD Resolution	CIF / 2CIF / 4CIF / D1 / 960H		
	HD Resolution	720P / 1080P		
	Recording Rate	960@30fps / D1@30fps		
		1080P@12fps / 720P@30fps		
	Bit Rate	Lowest / Lower / Low / High / Higher / Highest		
	Record Mode	Manual, Schedule (Regular (Continuous), MD, Alarm), None		
Record Interval	Pre-record: 1~15 sec / Post-record: 5~180 sec			
Detection	Trigger Events	Motion, Alarm, Panic, Video Loss		
	Video Detection	Motion Detection		
Alarm & Relay	Alarm Input	-	-	16 Ch
	Relay Output	-	-	4 Ch
Playback & Backup	Search Mode	Calendar / Event / Time / Thumbnail		
	Playback Speed	x1, x2, x4, x8, x16, x32, x64		
	Export/Backup	External ODD, USB Memory, FTP		
Network	Ethernet Port	1 (WAN) - 10/100Mbps		
	Max. User Access	8		
	Web Browser	Yes (Windows®, MacOS/X®)		
	Mobile App	Yes (iOS & Android)		
	DMS Client	Yes - Windows®		
Physical	Internal HDD	Max 1	Max 1	Max 4
	USB	2 ports (Rear)		
	Dimensions	13.8" x 11.6" x 1.8, 1U	13.8" x 11.6" x 1.8, 1U	17.3" x 15.8" x 2.4, 1U
	Certifications	ROHS, FCC, CE		

4-IN-1 AHD CAMERA SERIES



	2MP INDOOR HYBRID IR MOTORIZED DOME	2MP INDOOR HYBRID IR DOME	2MP OUTDOOR HYBRID IR DOME	2MP INDOOR HYBRID IR MOTORIZED DOME	2MP OUTDOOR HYBRID IR MOTORIZED DOME	2MP OUTDOOR HYBRID IR BULLET
	Z8-C2	Z8-D2V	Z8-VD2V	Z8-D2M	Z8-VD2M	Z8-B2V5
Image Sensor	1 / 2.9" Progressive Scan CMOS					
WDR Performance	Digital WDR					
Day / Night	True Day / Night					
Minimum Illumination	0.01 Lux (Color F1.2, AGC on) 0 Lux (IR on)					
S/N Ratio	>50dB					
Shutter Speed	1/60-1/60000					
Digital Noise Reduction	2D / 3D	2D / 3D	2D / 3D	2D / 3D	2D / 3D	3D
Lens	-	2.8-12mm Lens		2.8-12mm ProSet Motorized Zoom & Focus		5-50mm
Field of View	-	90° ~ 35°				55.2°~8.2°
IR LED	-	12 IR Piranha LEDs (98' Range)		15 IR LEDs (98' Range)		6 IR LEDs (up to 131' Range)
IR Wavelength	-	850nm				
Up the Coax	Yes					
Max. Resolution	1920x1080 @30fps					
Alarm Trigger	Mirror, Defog, HLC, Privacy Masking, Motion Detection					-
Max Distance	984' / 300m (75-5 Coaxial cable)					
Video Output	AHD / TVI / CVI / CVBS					
Power Supply	12VDC / 24VAC	12VDC±10% (24VAC Optional)				12VDC / 24VAC
Power Consumption	3.5W (Max)	4.5W (Max)				13W (Max)
Operating Temperature	-14°F ~ 131°F (-10°C ~ 55°C)	14 °F ~ 131 °F (-10 °C ~ 55 °C)		14 °F ~ 131 °F (-10 °C ~ 55 °C)		-14°F ~ 131°F (-10°C ~ 55°C)
Operating Humidity	0% ~ 85% RH					
Material	Aluminium	Polycarbonate	Aluminium	Polycarbonate	Aluminium	Aluminium
Dimensions	5.6" x 3.1" x 2.5" / 142 x 78 x 65mm	5.1" (Ø) x 4.4" / 130mm (Ø) x 112mm				14.8" x 4.3" 377 x 110mm
Weight	0.8lbs / 360g	0.9 lbs / 420g	1.5 lbs / 720g	0.9 lbs / 420g	1.5 lbs / 720g	3.7lbs / 1680g
Certifications	CE, FCC	CE, FCC	CE, FCC, IP66, IK10	CE, FCC	CE, FCC, IP66, IK10	CE, FCC, IP66

AHD CAMERA SERIES



	OUTDOOR AHD IR BULLET	OUTDOOR AHD IR BULLET	OUTDOOR AHD IR DOME	OUTDOOR AHD IR DOME
	Z8-N4NFN4AN	Z8-N4NVF56AN	Z8-M4NTFN4LAN	Z8-D4NTVF56LAN-2
Image Sensor	1/3" Sony CMOS			
WDR Performance	Defog DWDR			
Day / Night	True Day / Night			
Minimum Illumination	0.01 Lux (Color F1.2, AGC on) 0 Lux (IR on)			
S/N Ratio	More than 48db (AGC Off)			
Shutter Speed	1/25s ~ 1/500,000s			
Digital Noise Reduction	2D / 3D			
Lens	3.6mm	2.8mm - 12mm	3.6mm	2.8mm - 12mm
Field of View	75° FoV	89° - 35° FoV	75° FoV	89° - 35° FoV
IR LED	30 IR LEDs - 66' 20m range	36 IR LEDs - 82-115' 25-35m range	24 IR LEDs - 49' 15m range	15 IR LEDs (98' Range)
IR Wavelength	850nm			
Up the Coax	-	-	-	-
Max. Resolution	1920x1080 @30fps			
Alarm Trigger	-	-	-	-
Max Distance	984' / 300m (75-5 Coaxial cable)			
Video Output	1 Ch HDVI HD			1 Ch TVI, CVI, CVBS
Power Supply	12 VDC			
Power Consumption	335mA max.			
Operating Temperature	14 °F ~ 131 °F (-10 °C ~ 55 °C)			
Operating Humidity	0% - 85% RH			
Material	Aluminium			
Dimensions	2.7 x 2.6 x 6.7 " 69 x 65 x 170mm	3.8 x 3.3 x 9.0" 97 x 84 x 228mm	4.2 (Ø) x 3.8 x 3.1" 106 (Ø) x 96 x 78mm	5.2 (Ø) x 5.7 x 4.0" 133 (Ø) x 145 x 102
Weight	0.8lbs / 360g	1.2 lbs / 550g	0.7 lbs / 300g	1.2 lbs / 550g
Certifications	IP66, CE, FCC, RoHS, WEEE			

AHD PTZ DOMES



NEW



NEW



	AHD 4-IN-1 IR PTZ MINI DOME	1080P AHD IR PTZ
	Z8-M4NTMZ67LAC	Z8-P4NTAF66LAC
Image Sensor	1 / 2.9" Sony Progressive Scan CMOS	
Minimum Illumination	0.01 Lux (color), 0 Lux (IR on)	
Day / Night Performance	True Day / Night	
WDR, S / N Ratio	dWDR / ≥50dB	
Shutter Speed	1/60-1/60000	
Auto Iris	Yes	
Digital Noise Reduction	low / middle / high / off	2D / 3D
Lens	2.8-8mm Motorized Lens	4.6mm~152mm Lens
Zoom	3X Optical Zoom	33X Optical Zoom
Focus	Auto / Manual	Auto Iris
FOV	89° ~ 46°	55.2°~3.2°
IR LED	2 IR LEDs (65' range)	12 IR LEDs (492' Range)
Alarm I/O	-	4ch Alarm In, 1ch Alarm Out
Up the Coax	-	Yes
Motion detection	-	Yes
Max. Resolution	1920x1080 @30fps	
Horizontal PTZ Range	350° Horizontal Rotation	Pan continuously 360°, Tilt 0~90°w/ auto-flip
Horizontal PTZ Speed	Pan: 80° /s, Tilt: 0° ~ 90° /s	Pan: 0.1~200° /s, Tilt: 0.1~180° /s
Preset, Scan, Pattern, Tour	255 Presets / - / - / - /	128 Presets / 4 scan / 4 patterns / 4 tour
Light Compensation	Auto	
Max Distance	984' / (300m)	
Video Output	AHD / CVI / TVI / CVBS	AHD
Power Supply	12VDC	24VDC / 2.5A
Power Consumption	4.5W / 0.8A (Max)	60W (Max)
Operating Temperature	-14°F ~ 122°F (-10°C ~ 50°C)	-22°F ~ 140°F (-30°C ~ 60°C)
Operating Humidity	0% - 85% RH (non-condensing)	
Physical / Additional	ZA-CBK629A - Back Box (optional) ZA-CBK331C - Wall Mount (optional)	Includes wall arm and heater
Dimensions	4.1" (Ø) x 3.0" (H) / 105mm (Ø) x 75mm (H)	8.9" (Ø) x 13.2" / 226mm (Ø) x 336.5mm
Weight	0.8lbs / 350g	15.2lbs / 6.9Kg
Material	Aluminum	
Certifications	CE, FCC, IP66	

INDOOR ANALOG DOMES



5000 SERIES ANALOG INDOOR DOMES		
Indoor Models	ZC-D5025NXA	ZC-DN5212NXA
Focal Length	2.3-5mm	2.8-12mm
WDR Performance	Digital WDR	
Day/Night Performance	True D/N	
DC Auto Iris	F1.2- F360C	F1.3- F360C
Image Sensor	1/3" - Type Interline transfer color CCD	
Camera Resolution	700 TVL (Color & BW)	
Horiz. Angle of View	114.8°-56.1°	98.2°-23.8°
Minimum Illumination	0.27 lux Color / 0.027 lux B/W	0.08 lux Color / 0.008 lux B/W
Power Source	24V AC ±10% (50/60 Hz ±1 Hz) or 12VDC ± 10, UL listed	
Power Consumption	12VDC 230mA / 24VAC 240mA, 3.0W	
Dimensions (indoor)	5.7" Ø x 4.3"H / 144 mm Ø x 110mm H	
Optional	Heater - ZC5X-HTR (for operating temp to -40° F)	
Certifications	CE, FCC, UL Listed	
<p style="text-align: center;">* Add suffix "T" for NVT module. **Pre-installed NVT transmitter provides video transmission over CAT 5/Twisted pair cable (a separate receiver is required)</p>		

INDOOR MOUNTING OPTIONS



OUTDOOR/IMPACT-RESISTANT MOUNTING OPTIONS AND ACCESSORIES



OUTDOOR HOUSING ZC-OH5



ZC-OH5 OUTDOOR HOUSING FOR 5000 DOME SERIES	
Housing Material	IP66 rated cast aluminum with off white powder coat finish, all stainless steel hardware
Dome Material	Impact-resistant clear polycarbonate dome with black interior liner (tinted option available)
Temp. Range w/o Heater	-20° F to 122° F w/o heater (using 5000 Series domes, based on proper installation & maintenance procedures)
Temp. Range w/ Heater	-40° F to 122° F w/ heater (using 5000 Series domes, based on proper installation & maintenance procedures)
Dimensions (outdoor)	6.7" Ø x 5" H / 170mm Ø x 127mm H

ZC-D8000 SERIES WDR ANALOG DOMES AND WISE IP SERVICE EQUIPMENT



INDOOR AND OUTDOOR WDR ANALOG DOMES							
	ZC-D8312NBA	ZC-DT8312NBA	ZC-DW8312NXA	ZC-D8550NBA	ZC-DWNT8312NBA	ZC-DNT8312NBA-IR	ZC-DT8550NBA
Indoor / Outdoor	Indoor	Outdoor	Indoor	Indoor	Outdoor	Outdoor	Outdoor
Lens	3.3-12mm	3.3-12mm		5-50mm	3.3-12mm	3.3-12mm IR	5-50mm
WDR Performance	Digital WDR		True WDR	Digital WDR	True WDR	Digital WDR	Digital WDR
Performance	Digital Day / Night				True Day / Night		Digital Day / Night
Image Sensor	1/3" Sony HAD II CCD			1/3" Sony HAD II CCD	1/3" DPS Sensor	1/3" Sony HAD II CCD	
Effective Pixels	768 (H) x 494 (V)		758 (H) x 540 (V)	768 (H) x 494 (V)	758 (H) x 540 (V)		768 (H) x 494 (V)
Horizontal Resolution	600 TVL		700 TVL	600 TVL	690 TVL		600 TVL
Minimum Illumination	0.4 lux / F1.4 (50 IRE)				0.04 lux / F1.4 (50 IRE)		0.4 lux / F1.4 (50 IRE)
Lens	3.3-12mm, F1.4 Auto-iris			5-50mm, F1.4 Auto-iris	3.3-12mm, F1.4 Auto-iris		5-50mm, F1.4 Auto-iris
Power Supply	24V AC \pm 10% 60Hz \pm 1Hz / 12V DC \pm 10%, UL listed						
Power Consumption	2.5W (24VAC), 1.8W (12VDC)		2.9W (24VAC), 2.6W (12VDC)	2.5W (24VAC), 1.8W (12VDC)	2.9W (24VAC), 2.6W (12VDC)	5.5W (24VAC), 6.2W (12VDC)	2.5W (24VAC), 1.8W (12VDC)
Operating Temp.	14° F ~ 122° F (-10° C ~ 50° C)	-4° F ~ 122° F (-20° C ~ 50° C)		14° F ~ 122° F (-10° C ~ 50° C)		-4° F ~ 122° F (-20° C ~ 50° C)	
IP Rating	-	IP67		-		IP67	
External Dimensions	4.7" \varnothing x 4.3"	5.8" \varnothing x 5.0" H		4.7" \varnothing x 4.3"		5.8" \varnothing x 5.0" H	
Certifications	CE, FCC, UL listed						

INDOOR MOUNTING OPTIONS



OUTDOOR/IMPACT-RESISTANT MOUNTING OPTIONS AND ACCESSORIES



WIRELESS SERVICE MONITORING DEVICE



ZW-N22F	
Network	2x RJ-45 PoE
WLAN	IEEE802.11b/g/n AP / Repeater / Client mode
USB	1
Security	WEP / WPA-PSK / WPA2-PSK
Power/ PoE	48VDC / 0.4A (PSE out and wireless operation) Max 15.4W, 5VDC (wireless function only), Max. 1W, 5VDC (wireless function only), Max. 1W
Operating Temperature	Operating 32°F ~ 113°F / 0°C - 50°C
Accessories	Power Supply / Antenna
Dimensions (WxHxD)	3.0" W x 1.3" H x 3.0" D / 75 x 75 x 33mm
Certifications	FCC, CE, VCCI class B, TELEC

SPECIALITY DEVICES - LIGHTGUARD FLASHLIGHT CAMERA RECORDER



HS-DV3200		
Sensor	Image Sensor	CMOS
	Effective Pixels	2034 x 1296 Pixels
Display	Panel Size	1.5" TFT-LCD Color View Screen with Polycarbonate Lens
	Panel Resolution	320 x 240 Pixels
	Zoom control	1 ~ 4X, can be applied to photos & to video clips "on the fly" during recording.
Lens	Lens Angle	60°
	Working Distance	2.4"(60mm) to infinity
	Lens Type	6 mm
Illuminance	Illuminance	0 LUX
	LED Lighting	LED x 2 (Used separately or illuminate camera's field of view)
	IR Lighting	IR LED x 1
	Brightness	950 and 1,500 lumens at 60%, and 100% power @ 1M distance
Audio	Microphone	Yes
Recording	Video Format	MOV (1 hour = 5.8GB File Size)
	Picture Format / Compression	jpg / H.264
	Time-stamped	Photos and video clips
	Video Resolution	HD - 1920 x 1080 / 1280 x 720 pixels or 848 x 480 / 640 x 480 pixels @ 30FPS
	Image Size	12M (4032 x 3024), 10M (3648 x 2736), 8M (3264 x 2448), 5M (2592 x 1944), 3M (2048 x 1536), 2MHD (1920 x 1080), 1.3M (1280 x 720), or VGA (640 x 480)
	Playback	Instant Playback
Interface	AV OUT Interface	ø3.5mm Phone jack
	USB Interface	Micro USB (Easy transfer of data to PC)
	Storage	Maximum 32GB TF card supported
	Alarm	Buzzer
	RFID Reader	125KHz (optional)
	Languages Supported	English, Spanish, Portuguese, French, German, Italian, Russian, Traditional Chinese, Simplified Chinese, Japanese
Environment	Temperature	32° ~ 104°F (0° ~ 40°C) operating / 32° ~ 104°F (0° ~ 40°C) storage
Electrical	Battery	3.7V 5000mAh Lithium ion battery (charger not included)
	Battery Life	2 hours @ 1,500 lumens, 4 hours @ 950 lumens while recording, 5 hours recording only
Physical	Dimensions	2.3" (ø) x 11.1" (L) / 60.5mm (ø) x 283mm (L)
	Weight	1.4 lbs (630g) with battery
	Material	Anodized military-grade aerospace aluminum housing, with knurled non-slip grip and rubber overmold
	Weatherproof	Entire unit is IP66 waterproof
	Drop Tested	1m
	Includes	Battery, USB Cable, 16GB Micro SD Memory Card
	Certifications	IP66

ETHERNET TRANSMISSION PRODUCTS



10/100 MBPS 2 FIBER ELECTRICAL TO OPTICAL ETHERNET MEDIA CONVERTERS

GNFE1005M2	Industrial Grade Media Converter, 100Mbps, Multi-mode, Standard Size
GNFE1005S2	Industrial Grade Media Converter, 100Mbps, Single Mode, Standard Size
GNFE1005MAC2-M	Industrial Grade Media Converter, 100Mbps, Multi-mode, AC/DC, Mini Size
GKFE1005MAC2-M	Kit: 2 × Industrial Grade Mini Media Converter GNFE1005MAC2-M
GNFE1003MAC2-M	Industrial Grade Media Converter, 100Mbps, Multi-mode, AC/DC, Mini Size
GKFE1003MAC2-M	Kit: 2 × Industrial Grade Mini Media Converter GNFE1003MAC2-M
GNFE1005SAC2-M	Industrial Grade Media Converter, 100Mbps, Single Mode, AC/DC, Mini Size



COMMERCIAL GRADE 10/100 MBPS ELECTRICAL TO OPTICAL ETHERNET MEDIA CONVERTERS

GWFE2SCM2	Commercial Grade Media Converter, 100Mbps, Multi-mode
GWFE2SCS2	Commercial Grade Media Converter, 100Mbps, Single Mode

ETHERNET-OVER-COPPER EXTENDER WITH PASS-THROUGH POE

GLFE1EOC	1 Channel 15W Coax Industrial Grade Ethernet Extender
GKFE1EOC	Kit: 2 × GLFE1EOC
GLFE1EOU	1 Channel 15W UTP Industrial Grade Ethernet Extender
GKFE1EOU	Kit: 2 × GLFE1EOU
GLFE4EOC	4 Channel 15W Coax Industrial Grade Ethernet Extender
GLFE4EOU	4 Channel 15W UTP Industrial Grade Ethernet Extender
GLFE16EOC	16 Channel 15W Coax Industrial Grade Ethernet Extender
GKFE16EOU	16 Channel 15W UTP Industrial Grade Ethernet Extender



10/100 MBPS ETHERNET-OVER-COPPER SELF-MANAGED SWITCHES

GLFE4+1SMSPOEC	Industrial Grade 10/100 Mbps 4 Port Self-managed Switch, Ethernet-over-Coax
GLFE4+1SMSPOEU	Industrial Grade 10/100 Mbps 4 Port Self-managed Switch, Ethernet-over-UTP

COMMERCIAL GRADE 10 PORT MANAGED ETHERNET SWITCH: (8) 10/100TX RJ45 + (2) 10/100/1000TX OR 100/1000FX SFP PORTS AND POWER OVER ETHERNET (POE)

GWGE2FE8MSPOE	Commercial Grade 10 Port Managed Ethernet Switch with 8 Ports of 10/100 Mbps TX + PoE, 2 Ports 1000 Mbps TX/SFP FX, 48 VDC Input
---------------	--

ETHERNET TRANSMISSION PRODUCTS



10/100 MBPS UNMANAGED ETHERNET SWITCHES	
GNFE4TX4US	Industrial Grade 10/100 Mbps 4 Port Unmanaged Switch
GNFE8TX8US	Industrial Grade 10/100 Mbps 8 Port Unmanaged Switch

10/100 MBPS UNMANAGED ETHERNET SWITCHES	
GNFE4TX4US	Industrial Grade 10/100 Mbps 4 Port Unmanaged Switch
GNFE8TX8US	Industrial Grade 10/100 Mbps 8 Port Unmanaged Switch



10/100/1000 MBPS UNMANAGED ETHERNET SWITCHES	
GNGE4US	Industrial Grade 10/100/1000 Mbps 4 Port Unmanaged Switch
GNGE8US	Industrial Grade 10/100/1000 Mbps 8 Port Unmanaged Switch

ETHERNET TRANSMISSION PRODUCTS



POINT-TO-MULTIPOINT WIRELESS ETHERNET LINK	
GW1	Industrial Grade Wireless Ethernet Link
GWK1	2 x GW1, Preconfigured as paired Access Point and Client

ACCESSORIES	
GPS48VDC-5A	48VDC power supply for GLFE4+1SMSPOE(C,U) units when using PoE, 240 Watts, 5 A, DIN mounted
GPS-DRA60-48A	48VDC power supply for GLFE4+1SMSPOE(C,U) units when using PoE, 60 Watts, 1.25 A, DIN mounted
GPS-DRA120-48A	48VDC power supply for GLFE4+1SMSPOE(C,U) units when using PoE, 120 Watts, 2.5 A, DIN mounted
G1US	Card cage rack with 90-264 VAC 50/60hz power supply, 14 available slots, 4RU
G3US	Card cage rack with 12 VDC 2A power supply, 3 available slots, 1RU
GW1/IA870	Internal antenna for GW1, 8dBi, 70 degree beam width (recommended for multipoint access points)
GSFP-1	Copper 10/100/1000Mbps RJ45, MSA Compliant
GSFP-2	100fx, 1310nm, MM, 2 Fiber, 2km, LC, MSA Compliant
GSFP-3	100fx, 1310nm, SM, 2 fibers, 20km, LC, MSA Compliant
GSFP-6	1000fx, 1310nm, SM, 2 fibers, 15km, LC, MSA Compliant
GSFP-16	1000fx, 850nm, MM, 2 fibers, 550m, LC, MSA Compliant
GSFP-46	1000fx 1310nm, MM, 2 fibers, 2km, LC, MSA Compliant

PRO-PAK OUTDOOR HOUSING KITS & CAMERA ACCESSORIES

Pro-Pak



PRO-PAK HOUSINGS					
Models	H-1	H-2	HWB-1	HWB-2	HWB-4
Description	Housing for CS Mount Cameras	Housing with Heater for CS Mount Cameras	Housing with Wall Bracket for CS Mount Cameras	Housing with Heater & Wall Bracket for CS Mount Cameras	Housing with Heater, Blower & Wall Bracket for CS Mount Cameras
Max Camera & Lens Size	6.8" L x 3.2" W x 3.1" H				
Camera Mounting	Removable Bracket with (2) screws				
Finish	Off-White				
Dimensions	11.6" L x 3.7" Ø (window 2.6" Ø)				
Weight	2.6 lbs (without camera & lens)				
Operating Temperature	0° F ~ 122° F	-40° F ~ 131° F	0° F ~ 122° F	-40° F ~ 131° F	
Enclosure Protection	Designed to NEMA-4, IP65				
Heater Power Supply	N/A	24 VAC / 10W	N/A	24 VAC / 10W	24 VAC / 11W
Construction	UV Protected Powder Coated Aluminum Body, Front & Rear Caps. UV Protected Silicone Seals, Glass Window for HD Optical Clarity				

Pro-Pak Kits include a housing and wall bracket with a pre-assembled GANZ® camera and *computer*® lens. Pro-Pak kits can be ordered with a variety of True Day/Night cameras with manual or auto-iris varifocal lenses. All lenses are backfocused & five feet of outdoor rated cables are included.

Contact customer service for more details.

PRO-PAK ACCESSORIES	
JB-1	Ceiling "J" Bracket for H-1 / H-2 / HWB-4
WB-1	Wall Bracket for H-1 / H-2
SS-1	Sunshield for H-1 / H-2 / HWB-1 / HWB-2 / HWB-4
PMA2	Pole Mount Adapter for HWB-1 / HWB-2 / HWB-4

ACCESSORIES



ACCESSORIES	
CMB-1	6" Camera Mounting Bracket with Drop Ceiling Clip (Black)
CMB-2	6" Camera Mounting Bracket with Drop Ceiling Clip (White)
CMB-3	4" Camera Mounting Bracket with Drop Ceiling Clip (Black)
CMB-4	4" Camera Mounting Bracket with Drop Ceiling Clip (White)
C12DCR-500	Regulated 12VDC Power Supply
C24AC	24VAC Power Supply 20vA
C24AC-40	24VAC Power Supply 40vA
PS-411A	4 Output Power Supply 100vA
PS-811A	8 Output Power Supply 100vA
PS-821A	8 Output Power Supply 175vA
PS-1621A	16 Output Power Supply 200vA
NV-214A-M	NVT Transmitter for CS Mount Cameras
CAT5E	CAT5E Wire (100ft.) White
AC-V2CVBS	VGA BNC converter
AVD-816	1U, video distributor, 8 in/ 16 out, AHD, TVI, CVI, CVBS, 110VAC

VARIFOCAL & MEGAPIXEL LENSES



Computar offers one of the largest ranges of varifocal lenses from 1.8mm (almost fisheye) to 50mm for close up views.

VARIFOCAL LENSES								
Focal Length	Manual Iris	DC Auto Iris	Video Auto Iris	IR	F Stop	Angle of View (HOR)	Format	Mount
1.8-3.6mm	T2Z1816CS	TG2Z1816FCS	TG2Z1816AFCS	-	1.6	144.2° ~ 79.4°	1/3"	CS
2.8-12mm	T4Z2813CS-IR	TG4Z2813FCS-IR	TG4Z2813AFCS-IR	✓	1.3	102.2° ~ 23.7°	1/3"	CS
2.9-8.2mm	T3Z2910CS	TG3Z2910FCS	TG3Z2910AFCS	-	1.0	98.3° ~ 35.2°	1/3"	CS
2.9-8.2mm	T3Z2910CS-IR	TG3Z2910FCS-IR	TG3Z2910AFCS-IR	✓	1.0	98.3° ~ 35.2°	1/3"	CS
4.5-12.5mm	H3Z4512CS-IR	HG3Z4512FCS-IR	HG3Z4512AFCS-IR	✓	1.2	83.7° ~ 30.1°	1/3"	CS
8.5-40mm	T5Z8513CS-IR	TG5Z8513FCS-IR	TG5Z8513AFCS-IR	✓	1.3	33.5° ~ 7.1°	1/3"	CS
5-50mm	T10Z0513CS	TG10Z0513FCS	TG10Z0513AFCS	-	1.3	51.8° ~ 5.6°	1/3"	CS

MEGAPIXEL SECURITY LENSES



Computar HD Megapixel Lenses' unique optical design provides optimal performance with HD megapixel camera applications. Computar's superior optics maximize performance with megapixel camera sensors, providing a sharp image in both center and corners of the image plane capturing precise detail in critical security applications.

MEGAPIXEL SECURITY LENSES								
Focal Length	Manual Iris	DC Auto Iris	P-Iris	IR	F Stop	Angle of View (HOR)	Format	Mount
4-8mm	H2Z0414FC-MP	HG2Z0414FC-MP	-	-	1.4	90.4° ~ 47.0°	1/2"	C
12-36mm	M3Z1228C-MP	MG3Z1228FC-MP	-	-	2.8	41.0° ~ 13.6°	2/3"	C
2.8-10mm	A4Z2812CS-MPIR	AG4Z2812FCS-MPIR	AG4Z2812KCS-MPIR	✓	1.4	127.6° ~ 34.3°	1/2.7"	CS
2.8-12mm	-	TG4Z2816FCS-MPIR	-	✓	1.6	102.2° ~ 23.7°	1/3"	CS
8.5-50mm	A6Z8516CS-MP	AG6Z8516FCS-MP	AG6Z8516KCS-MP	-	1.6	50.0° ~ 26.5°	1/2.7"	CS
12.5-50mm	A4Z1214CS-MPIR	AG4Z1214FCS-MPIR	AG4Z1214KCS-MPIR	✓	1.4	26.3° ~ 6.7°	1/2.7"	CS
25-135mm	H5Z2518C-MP	HG5Z2518FC-MP	-	-	1.8	14.5° ~ 2.8°	1/2"	C
4.5-13.2mm	E3Z4518CS-MPIR	-	-	✓	1.8	105.3° ~ 35.3°	1/1.8"	CS
2.8-8.5mm	A3Z2812CS-MPWIR	AG3Z2812FCS-MPWIR	AG3Z2812KCS-MPWIR	✓	1.2	124.7° ~ 41.3°	1/2.7"	CS
3.9-10mm	E3Z3915CS-MPWIR	EG3Z3915FCS-MPWIR	EG3Z3915KCS-MPWIR	✓	1.5	108.1° ~ 42.1°	1/1.8"	CS

For the complete line of [computar](http://computar.com) lenses, go to computar.com.

Intelligence Driven by Design



GANZ Security es representado en México por Telsa Mayorista

Tels.: (55) 5740 2142 / (55) 5740 4630 / (55) 5740 9258 / (55) 5740 9322

ventas@telsa.com.mx • www.telsa.com.mx  /TelsaMexico •  @TelsaMayorista

CBC reserves the right to modify product specifications without prior notice and assumes no responsibility for errors in this publication.
All products mentioned in this publication are acknowledged to be the property of their respective trademark owners.