

Security Driven by **Intelligence**



2018-2019 Product Guide

ganzsecurity.com



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



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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

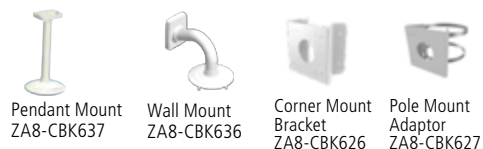


| | OUTDOOR MINI IR BULLET | OUTDOOR MINI IR BULLET | OUTDOOR MINI IR DOME | OUTDOOR 360° FISHEYE DOME |
|-------------------------|---|----------------------------------|---|---|
| | ZN8-B4NVF56 | ZN8-N4NFN4 | ZN8-M4NTFN4L | ZN8-F7NTFN10L |
| Resolution | 1080p | | | 6MP |
| Image Sensor | 1/3" CMOS | 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



ZN8-F7NTFN10L ACCESSORIES



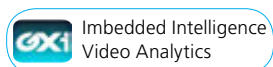
2 MP BOX AND DOME CAMERAS with GXi IMBEDDED INTELLIGENCE



| | 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



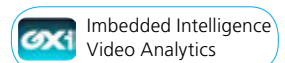
POWERED BY **VCA**
TECHNOLOGY



| | 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/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



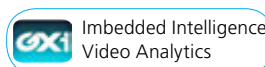
POWERED BY **VCA** TECHNOLOGY



| | 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 | | |

* does not include analytic options

| 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/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 |

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, SNMP, 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. Imbedded Intelligence Video Analytics

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

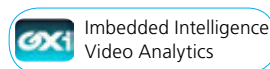


POWERED BY **VCA** TECHNOLOGY



| | 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

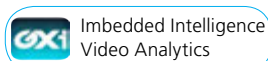


| DOOR FRAME CAMERA | | |
|-----------------------|---|--|
| | DFx-28-4 | DFx-37-4 |
| Sensor | 1/3" CMOS | |
| Compression format | H.264, MJPEG | |
| Max. resolution | 1080p | |
| Effective pixels | 1920 x 1080 | |
| Compression FPS | 30fps@ HD 1080p | |
| Lens | 2.8mm, F2.0 | 3.7mm, F2.5 |
| Horizontal 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, RTCP, RTP/UDP, RTP/TCP, SNMP, 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, RTCP, 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**
TECHNOLOGY

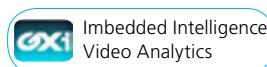
NEW



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.





POWERED BY VCA TECHNOLOGY

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



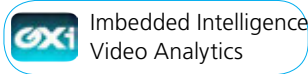
POWERED BY **VCA** TECHNOLOGIES

| 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 | | GANZ THERMAL - G2 FIXED 640X480 | |
|---------------------------------|---|---------------------------------|--|
| ZNT1-HET14G36A | 17um, 50 NETD, 30 fps, 60° HFOV, 5.3mm, NTSC/PAL, VCA | ZNT1-HAT24G35A | 17um, 50 NETD, 30 fps, 50° HFOV, 12.8mm, NTSC/PAL, VCA |
| ZNT1-HET14G20A | 17um, 50 NETD, 30 fps, 42° HFOV, 7.5mm, NTSC/PAL, VCA | ZNT1-HAT24G22A | 17um, 50 NETD, 30 fps, 37° HFOV, 16.7mm, NTSC/PAL, VCA |
| ZNT1-HET14G29A | 17um, 50 NETD, 30 fps, 24° HFOV, 13mm, NTSC/PAL, VCA | ZNT1-HAT24G24A | 17um, 50 NETD, 30 fps, 25° HFOV, 25mm, NTSC/PAL, VCA |
| ZNT1-HET14G31A | 17um, 50 NETD, 30 fps, 16° HFOV, 19mm, NTSC/PAL, VCA | ZNT1-HAT24G25A | 17um, 50 NETD, 30 fps, 18° HFOV, 35mm, NTSC/PAL, VCA |
| ZNT1-HET14G25A | 17um, 50 NETD, 30 fps, 9° HFOV, 35mm, NTSC/PAL, VCA | ZNT1-HAT24G26A | 17um, 50 NETD, 30 fps, 12° HFOV, 50mm, NTSC/PAL, VCA |
| ZNT1-HET14G26A | 17um, 50 NETD, 30 fps, 6° HFOV, 50mm, NTSC/PAL, VCA | ZNT1-HBT24G35A | 17um, 50 NETD, 9 fps, 50° HFOV, 12.8mm, NTSC/PAL, VCA |
| ZNT1-HBT14G36A | 17um, 50 NETD, 9 fps, 60° HFOV, 5.3mm, NTSC/PAL, VCA | ZNT1-HBT24G22A | 17um, 50 NETD, 9 fps, 37° HFOV, 16.7mm, NTSC/PAL, VCA |
| ZNT1-HBT14G20A | 17um, 50 NETD, 9 fps, 42° HFOV, 7.5mm, NTSC/PAL, VCA | ZNT1-HBT24G24A | 17um, 50 NETD, 9 fps, 25° HFOV, 25mm, NTSC/PAL, VCA |
| ZNT1-HBT14G29A | 17um, 50 NETD, 9 fps, 24° HFOV, 13mm, NTSC/PAL, VCA | ZNT1-HBT24G25A | 17um, 50 NETD, 9 fps, 18° HFOV, 35mm, NTSC/PAL, VCA |
| ZNT1-HBT14G31A | 17um, 50 NETD, 9 fps, 16° HFOV, 19mm, NTSC/PAL, VCA | ZNT1-HBT24G26A | 17um, 50 NETD, 9 fps, 12° HFOV, 50mm, NTSC/PAL, VCA |
| ZNT1-HBT14G25A | 17um, 50 NETD, 9 fps, 9° HFOV, 35mm, NTSC/PAL, VCA | | |
| ZNT1-HBT14G26A | 17um, 50 NETD, 9 fps, 6° HFOV, 50mm, 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



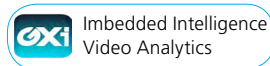
GANZ THERMAL - G2 SPECIFICATIONS (CONTINUED)

| | | |
|--------------------------------------|---|---|
| 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 |
| Physical | Meta Data | Plain XML Format |
| | 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) | |

| MOUNTING ACCESSORIES | |
|----------------------|--|
| JB-1W | Ceiling mount for ZNT1/ZNT6 series fixed thermal cameras |
| WB-1W | Wall mount for ZNT1/ZNT6 series fixed thermal cameras |



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.

Specifications are subject to change without notice.



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-PAT14G23A | Pan & Tilt Thermal, 17um, 50 NETD, 320X240 resolution, 30 fps, 16° FOV, 19MM, 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-PBT14G23A | Pan & Tilt Thermal, 17um, 50 NETD, 320x240 resolution, 9 fps, 16° FOV, 19MM, 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, RTP, 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) |

THERMAL IMAGING IP CAMERA with GXi IMBEDDED INTELLIGENCE



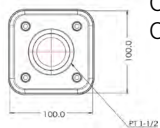
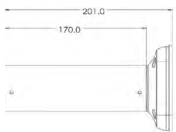
NEW



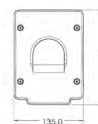
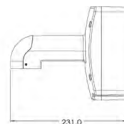
GANZ THERMAL - G2 PAN TILT SPECIFICATIONS (CONTINUED)

| | | |
|--------------------------------------|---------------------------|---|
| Pan Tilt | Pan / Tilt Range | Pan Range: 360° / Endless Rotation, Tilt range: -10°~90° / Auto Flip |
| | Manual Pan/Tilt Speed | Min 0.2° / Max 120° |
| | Preset Pan/Tilt Speed | Min 0.2° / Max 360° |
| | Preset Control | 255 preset points |
| Edge Storage | Storage | 1x microSD/microSDHC memory card slot (SD/SDHC up to 32GB, card not included)** |
| | 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 |
| | 3D Behavior | Perspective corrected size, speed filters and calibration |
| GXi Imbedded Intelligence (optional) | 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 | Aluminum, White |
| | External I/O Terminals | 1x Alarm In, 1x Alarm Out |
| | Language on Webpage | English, Chinese, Korean |
| | Power Source/ Consumption | 24VDC, 24VAC, PoE+ / 16W |
| | Operating Conditions | -40°F ~ 122°F (-40°C ~ 50°C) Humidity up to 90% RH (non-condensing) |
| | Weight | 7.7lbs. (3.5kg) |
| | Certifications | FCC, CE, IP66 |
| | Dimensions (H x W) | 10" x 5.1" (255H x 130W mm) |

Mounting Accessories



Ceiling Mount Bracket
CMB-4500T



Wall Mount Bracket
WMB-4500T

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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



| 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 | Input | 8Ch (10KOhm, 2.8Vpp) | 16Ch (10KOhm, 2.8Vpp) | 4Ch (10KOhm, 2.8Vpp) | | |
| | Output | 1Ch (600Ohm, 2.8Vpp) | | | | |
| Display | Interface | 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 | SD Resolution | 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 | Trigger Events | Motion, Tamper, Alarm, Panic, Video Loss | | | | |
| | Video Detection | Motion Detection | | | | |
| Alarm & Relay | Alarm Input | 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 | Search Mode | Calendar / Event / Time / Thumbnail | | | | |
| | Playback/Backup | x1, x2, x4, x8, x16, x32, x64 / Backup- External ODD, USB Storage, FTP | | | | |
| Network | Ethernet Port | 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 | Internal HDD | Max 5 | | 2 EA | | |
| | Internal RAID | RAID 5 | | - | - | |
| | External HDD | Max 5 | | - | - | |
| Auxiliary Interface | eSATA | Yes | | - | - | |
| | USB | 3 ports (2 Front + 1 Rear) | | 2 Front | | |
| Physical | Dimensions (WxDxH) | 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 (600Ohm, 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 \pm 10% (50/60 Hz \pm 1 Hz) or 12VDC \pm 10, UL listed | |
| Power Consumption | 12VDC 230mA / 24VAC 240mA, 3.0W | |
| Dimensions (indoor) | 5.7" ϕ x 4.3"H / 144 mm ϕ 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



Flush Mount
ZC-FM3A



Pendant
ZC7-PM1
(3/4" NPT Pipe)



Wall Mount
ZC7-WM1

OUTDOOR/IMPACT-RESISTANT MOUNTING OPTIONS AND ACCESSORIES



Pendant Mount
Model ZC5-PM2A
(1" NPT Pipe)



Wall Mount
ZC5-WM2A



Heater
ZC5X-HTR



4S Box Adapter
ZCA-GAP

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" ϕ x 5" H / 170mm ϕ 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 **computar**® 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**® lenses, go to computar.com.

Intelligence Driven by Design



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