

PRODUCT GUIDE 2019

cbc-cctv.com



ABOUT CBC

CBC (Europe) GmbH belongs to the CBC Group, one of the largest manufacturers of video surveillance systems, and can look back on many years of successful business in Germany. CBC is an international trading company which was founded in Tokyo, Japan, in 1925 by Mr. Utaro Doij.

Advanced video surveillance products are being continuously planned, developed and produced at our Japanese parent company in Tokyo. Numerous innovations have been successfully launched on the market, especially in the field of lens and camera technology. The lenses we have been producing for 30 years are developed and manufactured in our overseas works. Our leading market position is highlighted by our turnover of 2 billion euros per year.

CBC is a trading manufacturer with its registered office in Düsseldorf.

CBC (Europe) GmbH is a reliable partner thanks to our more than 20 years of experience and a competent team of some 50 employees. We offer our customers reliability, continuity, unique value for money, fast delivery and an excellent customer service. The importance of product information and the further training of our technicians, field workers and customers is a top priority for us.

40 years ago the CBC Group started off with the brand Computar which is regarded as the trademark for all optical components. With this brand the CBC Group is one of the world's leading lens manufacturers.

The brand GANZ, which is regarded as the trademark for all electronic products of the CBC Group, was introduced in 1999. The company unites the brand and electronic products under one roof. The product spectrum ranges from lenses, cameras, infrared lighting, protective housings and monitors down to video management systems, recording and transmission technology as well as IP transmission units. CBC is a supplier of technically and economically convincing CCTV solutions which cover all areas of video surveillance. Thanks to the new developments and extensions to our products, we have created a comprehensive product range which can easily be integrated into all aspects of CCTV permitting us to offer our customers individual products or all-inclusive solutions. As a manufacturing commercial enterprise, CBC continues to count on new technologies, above all digital surveillance products. CBC supplies its customers with top-quality products. Our aim is to be the first choice for CCTV buyers. Customer proximity is the focus of our corporate philosophy - from project development down to project implementation.

Rapid availability of all products thanks to stockkeeping - there is a store at almost all sites - supports our claim of being able to always provide the customer with optimum performance in the shortest possible time. On-site installation companies are supported by first-hand know-how, the technical service, regular seminars on aspects of CCTV technology and a highly motivated team. The CBC network covers the world with 3,000 employees. There are now more than 30 branches throughout the world (Europe, America and Asia). They ensure fast supplies and support for our customers. CBC (Europe) GmbH is responsible for continental Europe.





PRODUCT GUIDE

CONTENT

- GANZ CORTROL
- PixelPro IP-Series
- PixelMaster IP-Recorder Series
- **VCA Video Analytics**
- **Genstar IP-Series**
- **GANZ Thermal**
- **Nautilus Ruggedized PTZ**
- **GANZ Lite 4-1-Camera-Series**
- **Digimaster Hybrid-DVR-Series**
- **Monitors**



THE NEXT GENERATION INCENTRAL MANAGENT SOFTWARE



64 bit CoreUse the full power of your hardware



Event and Action Manager Always be in control: automate your video surveillance process with the Alarm and Action manager



4K Ready
4K ready VMS
application with
4K recording and
playback capability



Continuous monitoring of the status of all servers and failover management from the central server



Powerful Analytics Modules for advanced video analytics, face and license plate recognition



Archive Replication
Advanced mirror recording
with scheduled transfers
ensures the safety of your
data at all times

cortrol.eu

CORTROL





Face Recognition



Video Analytics

Available in 3 Editions:

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.

Full HD Resolution

Stream up to 1080p

Client Access

Access your server from a client station (1 user at a time).

Mobile Application

Use your mobile device as a mobile security or to view live and recorded video (1 user at a time).

Premier

Standalone System – 1-96 Channels

GANZ CORTROL Premier features an intuitive and elegant user interface paired with advanced features and unlimited remote users. Fully manageable and virtually limitless across any network right at your fingertips.

Full HD and UHD Resolution

Stream up to 4k and 8k resolution.

Video Content Analysis

Add analytics to any camera in your system. Create Zones/Lines to alert on perimeter intrusion as well as loitering. Become efficient with the information you see.

Integrations and API

GANZ CORTROL Premier offers an SDK to integrate other software systems.

Mobile Streaming

Use your mobile device as a mobile security camera to stream video and have the ability to view live or be recorded.

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.

Failover

Automated recovery of your system in the event of a sudden server failure. CORTROL Global carefully tracks operations of all servers, and, in case any of the servers has failed, it quickly activates a spare server to perform the actions that the malfunctioning server was performing prior to failing.

Automate recovery of your system in the event of a sudden server failure. CORTROL Global can manage multiple servers and activate a spare server in case one fails without losing any data.

one fails without losing any data.

Advanced Health Monitoring

Keep your finger on the pulse of all of your hardware, minimizing the risk of inconvenient surprises and control the state of the whole video surveillance system.

Multicast

Enjoy full use of the multicast environment, transmitting to different destination devices (both servers and cameras). This functionality fully integrates with large enterprise environments using Active Directory or LDAP technology.

Organization Hierarchy

The functionality allows the construction of a more structured hierarchy of system rights and privileges among users within an organization. The group's administrator (or sub-admin) rights are also specific for each group, thus valid only for the chosen scope of cameras and servers.

Archive Replication

Make your local recording server into a buffer server. In large enterprises, this allows for convenient local usage, scheduled or constant data transfer to Central Data Center, whenever the network is available.

GANZ CORTROL INTELLIGENCE:

This intelligent and powerful VMS supports most cameras and has a wide range of advanced features with a long list of add-ons, enabling highly efficient video surveillance



Intuitive and User-friendly

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



Enterprise Ready

Central server hierarchy, failover, archive replication and many other high level features, CORTROL Global is the ideal system for large-scale solution



Complete System

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



Time-proven Performance

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

GANZ CORTROL HIGHLIGHTS:



64 bit Core

Use the full power of your hardware



4K Ready

4K ready VMS application with 4K recording and playback capability



Powerful Analytics

Modules for advanced video analytics, face and license plate recognition



Event and Action Manager

Always be in control: automate your video surveillance process with the Alarm and Action manager



Failove

Continuous monitoring of the status of all servers and failover management from the central server



Archive Replication

Advanced mirror recording with scheduled transfers ensures the safety of your data at all times



Integrations and API

Combining your video surveillance with third-party software with integration possibilities that CORTROL offers

GANZ CORTROL MODULE:



LPR Module

CORTROL LPR is software for detecting, recognizing and registering vehicle license plates. It offers a very high level of reading reliability, an intuitive installation process and great usability characteristics.

The software is ideally suited for vehicle access and traffic control, as well as enforcement applications. CORTROL also offers multiple customization possibilities for specific license plates and different types of transport (trains, trucks, cars, etc.).



Facial Recoginition

CORTROL Face Recognition is a biometric application that is designed to work with CORTROL Premier and Global editions.

The technology assures system performance and reliability with live face detection, simultaneous multiple face recognition and fast face matching in 1-to-1 and 1-to-many modes. CORTROL Face Recognition is ideally suited for human resource control applications as well as for security and enforcement applications.



VCA Module

CORTROL VCA is a real-time video analytics engine that utilizes advanced image processing algorithms to turn video into actionable intelligence.

At the core of the product is an advanced object tracking engine that continually tracks moving and stationary targets. Easy to set up, CORTROL VCA automatically adjusts to site conditions, making it ideal for both experienced and untrained personnel to use.



API Module

CORTROL offers customizable integration with other software systems in form of software development kit (SDK), CORTROL VMS Client Kit.

CORTROL VMS Client Kit is the collection of ActiveX software components which allow integration of CORTROL client side functionality into other software products and integration between CORTROL and third party software systems.

CORTROL ECO 4 SERVER SOLUTION

- 24 Channel
- max. 4 HDD

Recording performance	24 channel @ 4MP (12Mbps) 300Mbps
Chassis	1U Supermicro C813MTQ-600CB
Motherboard	Single Socket Supermicro X11SSL-F
Processor	Intel® XEON UP E3-1220v6 3,00 GHz (2400 MHz 4Cores/4Threads)
Memory	SIM DDR4-RAM SVR 8GB PC2400 Samsung ECCREG
USB	5x USB 3.0 ports, 6x USB 2.0 ports 2x @ rear panel
RAID Card	RAID PCIe 3.0 x8 SATA/SAS 12Gb/s Adaptec 8405E v2 4-K./10 512MB, RAID 0, 1, 10
DVD	DVD-RW NB SATA ultra-slimline 9,5 mm LiteOn DU-8AESH
OS	Win2016 Essentials OEM
	LI LONIZ CONTROLY

CORTROL ECO 8 SERVER SOLUTION

- 48 Channel
- max. 8 HDD

Recording performance	48 channel @ 4MP (12Mbps) 600Mbps				
Chassis	2U Supermicro SC825TQC-R740LPB				
Motherboard	Single Socket Supermicro X10SRL-F				
Processor	Intel® XEON DP E5-2620v4 2,10 GHz (2133 MHz 8Cores/16Threads)				
Memory	SIM DDR4-RAM SVR 4GB PC2133 Kingston ECC REG				
USB	4x USB 3.0 ports, 8x USB 2.0 ports 2x @ rear panel				
RAID Card	Broadcom MegaRAID 9260-8i				
DVD	DVD-RW NB SATA ultra-slimline 9,5 mm LiteOn DU-8AESH				
OS	Win2016 Essentials OEM				
Video Management	Latest GANZ CORTROL Version				

CORTROL ECO 16 SERVER SOLUTION

- 48 Channelmax. 16 HDD
- ИР (12Mbps) 600Mbps

Recording performance	48 channel @ 4MP (12Mbps) 600Mbps	
Chassis	3U Supermicro SC836BE1C-R1K03B	
Motherboard	Single Socket Supermicro X10SRL-F	
Processor	Intel® XEON DP E5-2620v4 2,10 GHz (2133 MHz 8Cores/16Threads)	
Memory	SIM DDR4-RAM SVR 4GB PC2133 Kingston ECC REG	
USB	4x USB 3.0 ports, 8x USB 2.0 ports 2x @ rear panel	
RAID Card	Broadcom MegaRAID 9361-4i	
DVD	DVD-RW NB SATA ultra-slimline 9,5 mm LiteOn DU-8AESH	
OS	Win2016 Essentials OEM	
Video Management	Latest GANZ CORTROL Version	

CORTROL ECO 24 SERVER SOLUTION

- 48 Channel
- max. 24 HDD

Recording performance	48 channel @ 4MP (12Mbps) 600Mbps					
Chassis	4U Supermicro SC846BE1C-R1K28B					
Motherboard	Single Socket Supermicro X11SSL-F					
Processor	Intel® XEON UP E3-1230v6 3.50 GHz 4 Cores / 8 Threads					
Memory	SIM DDR4-RAM SVR 8GB PC2400 Samsung ECC					
USB	5x USB 3.0 (2 rear + 2 via header + 1 Type A), 6x USB 2.0 (2 rear + 4 via headers)					
RAID Card	Broadcom MegaRAID 9361-4i					
DVD	DVD-RW Lite-On IHAS124-14					
OS	Win2016 Essentials OEM					
Video Management	eo Management Latest GANZ COPTPOL Version					

CORTROL ECO 36 SERVER SOLUTION

- 96 Channel
- max. 36 HDD



		96 channel @ 4MP (12Mbps) >800Mbps
		4U SuperChassis 847BE1C-R1K28LPB
	Motherboard	Single Socket Supermicro X10SRi-F
	Processor	Intel® Xeon® E5-2620V4 Processor 2.10GHz (3.00GHz,20MB,8.00GT QPI,85W) 8C/16T
	Memory	SIM DDR4-RAM SVR 8GB PC2400 Samsung
	USB	5x USB 3.0 ports, 6x USB 2.0 ports 2x @ rear panel
	RAID Card	Broadcom MegaRAID 9361-8i
	DVD	DVD-RW NB SATA ultra-slimline 9,5 mm LiteOn DU-8AESH
	OS	Win2016 Essentials OEM
	Video Management	Latest GANZ CORTROL Version

CORTROL CLIENT SOLUTION

• 2 or 4 Monitors



	Solution for 2 Monitors - GCCS2	Solution for 4 Monitors - GCCS4					
Operating System	Microsoft® Wind	ows® 10 Professional					
Processor	Intel® Core i5-7500 3,40 GHz (GPU HD630) 65W	Intel Core i7-7700 3,60 GHz (GPU HD630) 65W					
Memory		8GB					
Optical Drive	DVD-RW SAT	TA LG GH24NSD1					
Ports	10 x USB, 2 x PS-2, RJ-45						
Interfaces	4x USB 3.0, 2x USB 2.0, 2x PS/2, LAN, Audio	4x USB 3.0, 2x USB 2.0, 2x PS/2, LAN, Audio					
Graphics	Graf PCIe nVidia GT730 Silent Asus 2GB DDR3	Graf CAD PCIe nVidia PNY Quadro P600 2GB GDDR5					
Video Ports	VGA, DVI-D, F	IDMI, DisplayPort					
Storage	SSD M.2 22	SSD M.2 2280 256 GB SATA					
Network Interface	Intel® i219V, 10/100/1000 MBit/s						
Accessory	Keyboard, Mouse	Keyboard, Mouse, Power / HDMI Cable					







						Aud	lio	Alarm		
Model	Туре	Resolution FPS	Lens	WDR	IR	I/O	МІС	Digital I/O	VCA	Power
<u>ZN-B8M310-DLP</u>	Bullet	8MP / 25fps	2.8 ~ 12mm MFZ	T-WDR	30m	1/1	-	1/1	Optional	12V / 24V / PoE
ZN-B4M212-DP	Bullet	4MP / 25fps	2.8 ~ 12mm MFZ	T-WDR	30m	1/1	-	1/1	Optional	12V / 24V / PoE
ZN-MB4F4-D	Bullet	4MP / 25fps	4.0mm	T-WDR	15m	-	-	-	Optional	12V / 24V / PoE
ZN-VD8M310-DLP	Outdoordome	8MP / 25fps	2.8 ~ 12mm MFZ	T-WDR	30m	1/1	-	1/1	Optional	12V / 24V / PoE
ZN-VD4M212	Outdoordome	4MP / 25fps	2.8 ~ 12mm MFZ	T-WDR	30m	1/1	-	1/1	Optional	12V / 24V / PoE
ZN-VD4F28-DL	Outdoordome	4MP / 25fps	2.8mm	T-WDR	15m	1/1	-	1/1	Optional	12V / PoE
ZN-D4M212-DLP	Indoordome	4MP / 25fps	2.8 ~ 12mm MFZ	T-WDR	15m	1/1	-	1/1	Optional	12V / 24V / PoE
ZN-F12F12-NL	Fisheye	12MP / 25fps	1.2mm	T-WDR	5m	1/1	-	1/1	Optional	12V / PoE



Model	Channel	Recording	LAN	PoE	HDD SATA	Audio I/O	Alarm I/O	VGA / HDMI
NR-4F81-4PA-V	4	4K / 25fps	2x Gbit	4x	max. 1	-	4IP / 1	1/1
NR-8F82-8PA-V	8	4K / 25fps	2x Gbit	8x	max. 2	-	8IP / 1	1/1
NR-16F82-8PA-V	16	4K / 25fps	2x Gbit	8x	max. 2	-	16IP / 1	1/1
NR-16F85-8PRA	16	4K / 25fps	2x Gbit	8x	max. 5	1/1	16IP +2 / 1	1/1







	8 MEGAPIXEL BULLET	4 MEGAPI	XEL BULLET		
	ZN-B8M310-DP	ZN-B4M212-DP	ZN-MB4F4-D		
SoC	Hi3519v101	Hi3	516D		
Max res & Frame rate	3840 x 2160 / 25bps	2592 x 1	520 / 25fps		
Sensor	IMX334	1/3" (OV4689		
Recording Pixels	3840 x 2160	2592	x 1520		
Lens	MFZ 3.6 ~ 10mm	MFZ 2.8 ~ 12mm	f=4.0mm		
Iris	p-i	iris	fixed iris		
Optical Zoom	x2.8	x4.3	-		
Angle of View (H / V / D)	111 / 61 / 130(w), 43 / 25 / 53(t)	99 / 53 / 113(w), 31 / 18 / 35(t)	87 / 47 / 102		
Day & Night		IR Cut-Filter			
D -> N threshold		Configurable			
N -> D threshold		Configurable			
IR Number / Distance	4ea / ~30N	رار, Smart IR	4ea / 15m, smart IR		
Min. illumination		1.4 (color)	0.1Lx / F1.2 (color)		
DC 12V		Yes			
AC 24V		-			
PoE 48V		Yes			
PoE class	clas	ss-3	class-2		
Heater		-			
Micro SD Card	Ye	es	-		
Analog Video Out	1x BNC (Insta	allation Only)	-		
Alarm In / Out	1,	/1	-		
Audio In / Out	1x RCA	/ 1x RCA	-		
Audio CODEC	G.7	711	-		
FAN	-	-	-		
Ambient Temperature		-10 ~ 50°C			
Ambient Humidity		less than 90%, Non-condensing			
Materials		Aluminum diecasting			
Weight	1.0	2kg	0.47kg		
Dimensions mm	290.5 (Straight)		73.05 x 56.2 x 192.86 (W x H x D)		
IK Rating	-		-		
IP Rating	IP66 IP66				
3D DNR	Yes				
WDR		tWDR			
Image Compression		H.264 / H.265 (on request)			
VBR+		Yes			
Streaming	Trip	le Streaming (2 x H.264/H.265 + 1 x	Jpeg)		
Video Analytics	Optional				
SDK	HTTP based API, Onvif Profile S				
	1				

GANZ





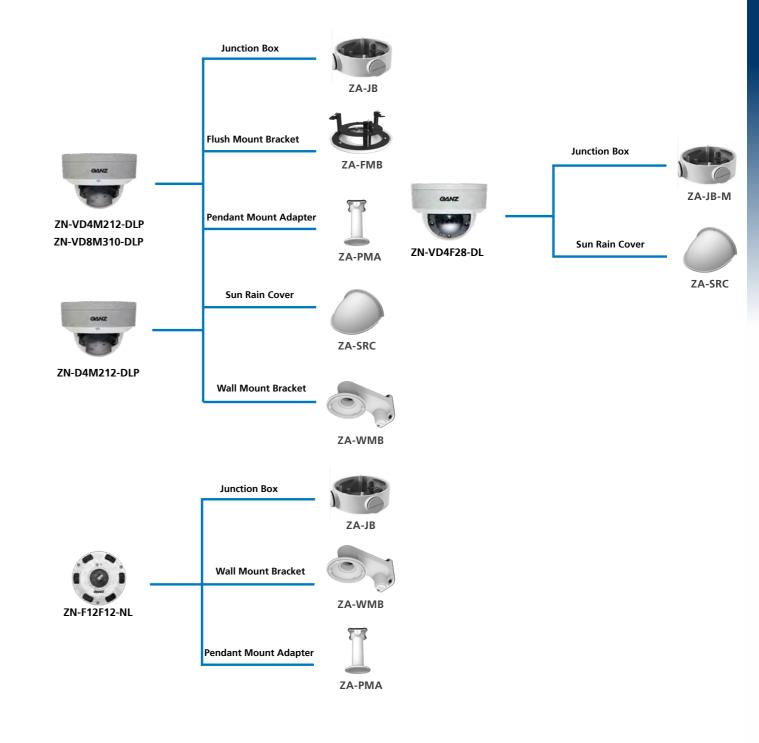








	8 MEGAPIXEL OUTDOOR DOME	4 MEGAPIXEL OU	JTDOOR DOME	4 MEGAPIXEL INDOOR DOME	FISHEYE	
	ZN-VD8M310-DLP	ZN-VD4M212-DLP	ZN-D4M212-DLP	ZN-VD4F28-DL	ZN-F12F12-NL	
SoC	Hi3519v101		Hi3516D		Hi3519V101	
Max res & Frame rate	3840 x 2160 / 25fps		2592 x 1520 / 25fps		4000 x 3000 / 25fps	
Sensor	IMX334		1/3" OV4689		IMX226	
Lens	MFZ 3.6 ~ 10mm	MFZ 2.8	~ 12mm	f=2.8mm	1.2mm computar lens	
Iris		P-iris		fixed	ris	
Optical Zoom	x2.8	x4.	3	-		
Angle of View (H / V / D)°	111 / 61 / 130(w), 43 / 25	99 / 53 / 113(w)	, 31 / 18 / 35(t)	106 / 60 / 124	185° x 360°	
	/ 53(t)					
Day & Night			IR Cut-Filter			
D -> N threshold			Configurable			
N -> D threshold			Configurable			
IR LEDs	30m, Sm	art IR	15m,	Smart IR	5m	
Min. illumination		C).1Lx / F1.2 (color)			
DC 12V			Yes			
AC 24V		Yes		-		
PoE 48V			Yes			
PoE class	class-3 class-2					
Heater	-			-		
Micro SD Card			Yes			
Analog Video Out		Ye	s (Installation Only)			
Alarm In / Out			1/1			
Audio In / Out			1/1			
Audio CODEC			G.711			
FAN	-			-		
Ambient Temperature			-10 ~ +50°C			
Ambient Humidity		less tha	n 90%, Non-condensi	ing		
Materials	Aluminum di		Polycarbonate	Aluminum d	iecasting	
Weight	0.8kg		· ·	0.4kg	0.6kg	
Dimensions mm		151.42Ø x 109.3H		114Ø x 81.81H	160Ø x 46H	
IK Rating	IK10		-	IK10	-	
IP Rating				IP67	IP66	
3D DNR			Yes			
WDR	tWDR					
Image Compression		H.20	64 / H.265 (optional)			
VBR+		- 1,112	Yes			
Streaming	Triple Streaming (2 x H.264/H.265 + 1 x Jpeg)			H.264/H.265 + 1 x Jpeg)		
Video Analytics	Yes	Optional -			Optional	
SDK			ased API, Onvif Profile	e S		





ZN-B8M310-DP

Junction Box

. 7.

ZA8-CBK629A

Pole Mount

0

ZA8-CBK627B





NR-4F81-4PA-V

4ch

4 x IP Camera (Max 4k)

4 CH (From IP Camera)

4 CH (IP) (Depend on IP Camera) / 2IN

4 CH (IP) (Depend on IP Camera)

+ 1 RELAY (Internal)

1FA (SATA)

4 (IP Camera, POE) + 1 (WAN)

Up to 120fps/100fps (Realtime)

1, 4, 9

Up to 120FPS



4k/30p / 1080p / 720p / SXGA

Max Total 60fps @ 8M



NETWORK VIDEO RECORDER

NR-8F82-8PA-V

8ch

8 x IP Camera (Max 4k)

VGA / HD Display

Yes (From IP Camera)

8 CH (From IP Camera)

G.711

H.264 (BP, MP, HP) /H.265

MAX. 30 FPS@8MP / CH (Depend on IP Camera)

MAX. 4k (Depend on IP Camera)

8 CH (IP) (Depend on IP Camera) / 2IN

8 CH (IP) (Depend on IP Camera)

+ 1 RELAY (Internal)

2ports

8 (IP Camera, POE) + 1 Giga (WAN)

Yes

Yes

1EA

48V adaptor

TBD

0°C ~ 40°C

10 ~ 90% NC

1U

TBD

FCC, CE, C-Tick

Up to 240fps/200fps (Realtime)

2160p / 1080p / 720p / SXGA

1,4,6,8

Programmable Sequence

Yes

Yes (CONTRAST, HUE, TINY, BRIGHTNESS) (Depend on IP Camera)

Yes (WHITE BALANCE, EXPOSURE, FLICKERLESS) (Depend on IP Camera)

Yes (MIC to IP Camera)

Yes

H.264 (BP,MP,HP) / H.265

G.711

Up to 8MP (Depend on IP Camera)

MAX. 30 FPS@CH

Daily / Weekly / Each Hour

Yes

Yes

Yes

Yes (MOTION / ALARM) 0/1/2/3/4/5/10/15 SEC

Yes

1, 4, 9, 16

Up to 240FPS

x1, x2, x4, x16, x32, x64

Yes (2008/1/1 - 2035/12/31)

Yes

Yes

Yes

Yes

Yes

Yes (JPEG)

2EA (SATA)



NR-16F82-8PA-V

16ch

16 x IP Camera (Max 4k)

4k/60p / 1080p / 720p / SXGA

16CH (From IP Camera)

16 CH (IP) (Depend on IP Camera)

+ 1 RELAY (Internal)

Up to 480fps/400fps (Realtime)

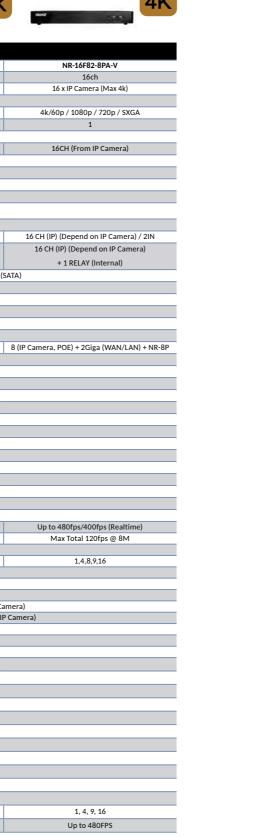
Max Total 120fps @ 8M

1,4,8,9,16

1, 4, 9, 16

Up to 480FPS













		NETWORK VIDEO RECORDER					
	NR-4F81-4PA-V	NR-8F82-8PA-V	NR-16F82-8PA-V				
ARCHIVING DEVICES		USB Memory, FTP	·				
REMOTE ARCHIVING		Yes (WEB RA, VMS, FTP)					
SNAPSHOT ARCHIVING		Yes					
DATA RESERVING		Yes					
RESERVED DATA LIST MANAGEMENT		Yes					
BACKUP DATA FORMAT		AVI, RAW					
WATERMARK		MD5					
WATERMARK VARIFICATION		Yes					
ARCHIVED DATA PLAYBACK		Yes					
MAX. CONNECTIONS		32 USERS					
	MAY 120 fns/Denend on ID Camoral		MAY 480 fps /Donard on IB Compres				
	MAX 120 (ps(Depend on IP Camera)		MAX 480 fps (Depend on IP Camera)				
REMOTE PLAYBACK		Yes					
REMOTE ARCHIVING		Yes					
REMOTE HEALTH CHECK		Yes					
VMS SUPPORT		Yes					
ONVIF CAMERA SUPPORT		Yes (Profile-S)					
TWO-WAY AUDIO		Yes					
PC BASED REMOTE AGENT		Yes					
SMART PHONE APPLICATION	Yes (iPhone, iPad, Android)						
WEB BASED REMOTE AGENT	Yes						
SDK	Yes (HTTP BASED SDK, PC Codec Library)						
IP FILTERING	Yes						
AUTO ROUTER PORT	Yes						
FORWARDING	TES						
DUAL STREAMING		Yes					
AUTO IP CAM INSTALLATION (PLUG AND DISPLAY)		ADMIN/MANAGER/USER Yes					
PROTOCOLS	WS-Discovery, RTP, RTSP, RTCP,S MTP, NTP, HTTP, FTP, DDNS, DHCP, uPNP(Router Port Forwading), HTTPS, SSL						
WIFI		-					
ALARM OUT		Yes					
EVENT NOTIFICATION	Yes						
VIDEO POPUP		Yes					
DISK EVENT		Yes					
SYSTEM EVENT		Yes					
NETWORK EVENT		Yes					
DISK S.M.A.R.T CHECK		Yes(DEPEND ON HDD SPEC)					
EXTERNAL STORAGE		Yes (eSATA, NAS(for Backup))					
AUTO DISK RECOVERY		Yes					
DELETING PARTIAL DATA							
GROUP AUTHORITY		Yes(ADMIN/MANAGER/USER)					
OPERATING SYSTEM	LINUX°						
OPERATING SYSTEM							
F/W UPGRADE		Yes (USB / NETWORK)					
F/W UPGRADE SETUP IMPORT/EXPORT		Yes (USB / NETWORK) Yes					
F/W UPGRADE SETUP IMPORT/EXPORT KEYBOARD CONTROLLER		Yes (USB / NETWORK) Yes Yes					
F/W UPGRADE SETUP IMPORT/EXPORT		Yes (USB / NETWORK) Yes					
	REMOTE ARCHIVING SNAPSHOT ARCHIVING DATA RESERVING RESERVED DATA LIST MANAGEMENT BACKUP DATA FORMAT WATERMARK WATERMARK WATERMARK VARIFICATION ARCHIVED DATA PLAYBACK MAX. CONNECTIONS DHCP HITTPS SSL DDNS TRANSMISSTION RATE BANDWIDTH CONTROL WEB BROWER ACCESS REMOTE MONITORING REMOTE PLAYBACK KRMOTE ARCHIVING REMOTE HEALTH CHECK VMS SUPPORT ONVIF CAMERA SUPPORT TWO-WAY AUDIO PC BASED REMOTE AGENT SMART PHONE APPLICATION WEB BASED REMOTE AGENT SDK IP FILTERING AUTO ROUTER PORT FORWARDING DUAL STREAMING FTP CLIENT E-MAIL AUTHORITY CONTROL AUTO IP CAM INSTALLATION (PLUG AND DISPLAY) PROTOCOLS WIFI ALARM OUT EVENT NOTIFICATION VIDEO POPUP ALARM SENSOR EVENT VIDEO LOSS EVENT MOTION DETECTION EVENT MOTION SENSOR AREA DISK EVENT SYSTEM EVENT NETWORK EVENT DISK S.M.A.R.T. CHECK EXTERNAL STORAGE AUTO DISK RECOVERY	ARCHIVING DEVICES REMOTE ARCHIVING SNAPSHOT ARCHIVING DATA RESERVING RESERVED DATA LIST MANAGEMENT WATERMARK WATERMARK WATERMARK WATERMARK VARIFICATION ARCHIVED DATA FORMAT WATERMARK WATERMARK VARIFICATION ARCHIVED DATA PLAYBACK MAX. CONNECTIONS DHCP HITTPS SSL DDNS SSL DDNS TRANSMISSTION RATE BANDWIDTH CONTROL WEB BROWER ACCESS REMOTE MONITORING REMOTE PLAYBACK REMOTE HAVBACK REMOTE HAVBACK REMOTE HEALTH CHECK VMS SUPPORT ONVIF CAMERA SUPPORT TWO-WAY AUDIO PC BASED REMOTE AGENT SMART PHONE APPLICATION WEB BASED REMOTE AGENT SDK IP FILTERING AUTO ROUTER PORT FORWARDING DUAL STREAMING FTP CLIENT E-MAIL AUTHORITY CONTROL AUTO IP CAM INSTALLATION (PLUG AND DISPLAY) PROTOCOLS WS-DISCOVERY, RTP, RTSP, RT WIFI ALARM OUT EVENT NOTIFICATION VIDEO POPUP ALARM SENSOR EVENT MOTION DETECTION EVENT NETWORK EVENT SYSTEM EVENT SY	NR-4F8-4PA-V				

GANZ

Channels

Monitoring

Audio

Recording

Alarm I/O

STORAGE

INTERFACES

HUB

ETC

POWER

CHASSIS

ENVIRONMENT

CERTIFICATION

MONITORING

RECORD

SEARCH &

PLAYBACK

INPUT SIGNAL

SPOT MOTION DETECTION

CODEC

REC. RATE

ALARM IN

ALARM OUT

INTERNAL HDD

RS-485

RS-232 LAN

NETWORK TOTAL POE POWER

COOLING FAN

POWER SUPPLY

TEMPERATURE

HUMIDITY

DIMENSION

DISPLAY RATE

DECODING RATE

DISPLAY MODE

DIGITAL ZOOM

SEQUECE

COVERT

DISPLAY RESOLUTION

CAMERA COLOR CONTROL

CAMERA IMAGE CONTROL

AUDIO MONITORING

PTZ CAMERA SUPPORT

VIDEO COMPRESSION

AUDIO COMPRESSION

RECORDING RATE

SCHEDULE METHOD

RECORD TIME LIMIT

INTENSIVE RECORDING

PRF-FVFNT RECORDING PANIC RECORDING

EVENT RECORDING

DISPLAY MODE

PLAYBACK RATE

PLAYBACK SPEED

EVENT SEARCH

CALENDAR SEARCH

THUMBNAIL SEARCH

BOOKMARK SEARCH

INSTANT PLAYBACK

PLAYBACK ZOOM

SNAPSHOT

RECORDING RESOLUTION

PROGRAMMABLE FOR CH

WEIGHT

Type

POWER CONSUMPTION

EXTERNAL STORAGE INTERNAL ODD USB

REMOTE CONTROL

MANAGEABLE by IPX ADAPTOR WATCHDOG

MAIN MONITOR

INPUT SIGNAL

OUTPUT SIGNAL

REC. RESOLUTION

MICROPHONE CODEC

MAIN MONITOR RESOLUTION







		ND 4/505 ODD 4 / 4
Channels		NR-16F85-8PRA (w/ external Hub NR-8P) 16ch
Citatilleis	Input Signal	16 x IP Camera (Max 8MP)
	Main Monitor	VGA / HD Display
Monitoring	Main Monitor Resolution	2160p / 1080p / 720p / SXGA
IVIOIIIIOIIIIG	Spot	1
	Motion Detection	Yes (From IP Camera)
	Input Signal	16 CH (From IP Camera)
	Output Signal	10 CH (From From From From From From From From
Audio	Microphone	1CH
	Codec	G.711
	Codec	H.264(BP,MP,HP)/H.265
Recording	Recording Rate	MAX. 30 FPS@8MP/CH (Depend on IP Camera)
Recording	Recording Resolution	MAX. 8MP (Depend on IP Camera)
	Recording Resolution	16 CH (IP) + 2 CH (Internal)
	Alarm In	(Depend on IP Camera)
Alarm I/O		
	Alarm Out	16 CH (IP) (Depend on IP Camera) + 1 RELAY (Internal)
	Internal HDD	5EA
Storage	Eexternal Storage	Yes (eSATA, NAS (for Backup))
	Internal ODD	none
	USB	3ports
	RS-485	1
Interfaces	RS-232	1
	LAN	8 (IP Camera, POE(802.3at)) + 1 (LAN) + 1 (WAN)
	Remote ControlL	Yes
	Network	2GE + 8GE(POE) (16ch)
Hub	Total PoE Power	72W
Hub	Manageable by IPX	ARM9 interior (16ch)
	Adaptor	48V, 96W
ETC	Watchdog	Yes
LIC	Cooling Fan	1EA
Power	Power Supply	SMPS 12V 100W + SMPS 52V 100W
rowci	Power Consumption	15W max. without HDD
Environment	Temperature	0°C ~ 40°C (32°F~104°F)
Environment	Humidity	10 ~ 90% NC
Chassis	Dimension	2U (430 x 367 x 88.4)
Cilassis	Weight	TBD
Certification	UL, CUL, FCC, CE	UL, cUL, FCC, CE, KC, C-tick
	Display Rate	Up to 480fps / 400fps (Realtime)
	Decoding Rate	Max Total 120fps @ 8M
	Display Resolution	2160p / 1080p / 720p / SXGA
	Display Mode	1,4,8,9,16
	Sequence Digital Zoom	Programmable Sequence Yes
Monitoring	Digital Zoom Covert	Yes
	Camera Color Control	Yes (CONTRAST, HUE, TINY, BRIGHTNESS) (Depend on IP Camera)
	Camera Image Control	Yes (WHITE BALANCE, EXPOSURE, FLICKERLESS) (Depend on IP Camera)
	Audio Monitoring	Yes (From IP Camera)
	Microphone	Yes (MIC to IP Camera)
	PTZ Camera Support	Yes (IP, RS485)
	Video Compression	H.264 (BP,MP,HP) /H.265
	Audio Compression	G.711
	Recording Resolution	Up to 8MP (Depend on IP Camera)
	Recording Rate	MAX. 30 FPS@CH
	Schedule Method	DAILY/WEEKLY EACH HOUR
Dagard		
Record	Programmable for Ch	Yes
	Record Time Limit	Yes
	Event Recording	Yes
	Intensive Recording	Yes (MOTION / ALARM)
	Pre-Event Recording	0/1/2/3/4/5/10/15 SEC
	Panic Recording	Yes
	Display Mode	1,4,9,16
Seach & Playback	Playback Rate	Up to 480FPS
	Playback Speed	x1, x2, x4, x16, x32, x64
	Calendar Search	Yes (2008/1/1 - 2035/12/31)
	Event Search	Yes
	Thumbnail Search	Yes
	Bookmark Search	Yes
	Instant Playback	Yes
	Playback Zoom	Yes
	Snapshot	Yes (JPEG)
	Shapshot	ics (FEG)

		NETWORK VIDEO RECORDER
		NR-16F85-8PRA (w/ external Hub NR-8P)
	Archiving Devices	USB Memory, FTP
	Remote Archiving	Yes (WEB RA, VMS, FTP)
	Snapshot Archiving	Yes
	Data Reserving	Yes
Archiving	Reserved Data List Management	Yes
,	Backup Data Format	AVI, RAW
	Watermark	MD5
	Watermark Verification	Yes
	Archived Data Playback	Yes
	Max. Connections	32 Users
	DHCP HTTPS	Yes Yes
	SSL	Yes
	DDNS	Yes
	Transmission Rate	Max 480 fps (Depend on IP Camera)
	Bandwidth Control	Yes
	Web Browser Access	Yes
	Remote MONITORING	Yes
	Remote Playback	Yes
	Remote Archiving	Yes
	Remote Health Check	Yes
	VMS Support	Yes
	ONVIF Camera Support	Yes (Profile-S)
	Two-Way Audio	Yes
Network	PC Based Remote Agent	Yes
	Smart Phone Application	Yes (iPhone, iPad, Android)
	Web Based Remote Agent	Yes
	SDK	Yes (HTTP BASED SDK, PC Codec Library)
	IP Filtering	Yes
	Auto Router Port Forwarding	Yes
	Dual Streaming	Yes
	FTP Client	Yes (For Archiving)
	E-MAIL	Yes (SMTP CLIENT)
	Authority Control	ADMIN / MANAGER / USER
	AUTO IP Cam Installation (Plug and Display)	Yes
	Protocols	WS-Discovery, RTP, RTSP, RTCP,S MTP, NTP, HTTP, FTP, DDNS, DHCP, uPNP(Router Port Forwading), HTTPS, SSL
	WIFI	
	Alarm Out	Yes
	Alarm Out Event Notification Video Pop-Up	
	Event Notification	Yes Yes
Event & Actions	Event Notification Video Pop-Up Alarm Sensor Event Video Loss Event	Yes Yes Yes Yes Yes Yes Yes
Event & Actions	Event Notification Video Pop-Up Alarm Sensor Event Video Loss Event Motion Detection Event	Yes
Event & Actions	Event Notification Video Pop-Up Alarm Sensor Event Video Loss Event Motion Detection Event Motion Sensor Area	Yes Yes Yes Yes Yes Yes Yes Yes Yes Depends on IP Camera
Event & Actions	Event Notification Video Pop-Up Alarm Sensor Event Video Loss Event Motion Detection Event Motion Sensor Area Disk Event	Yes
Event & Actions	Event Notification Video Pop-Up Alarm Sensor Event Video Loss Event Motion Detection Event Motion Sensor Area	Yes Yes Yes Yes Yes Yes Yes Yes Depends on IP Camera Yes
Event & Actions	Event Notification Video Pop-Up Alarm Sensor Event Video Loss Event Motion Detection Event Motion Sensor Area Disk Event System Event	Yes Yes Yes Yes Yes Yes Yes Yes Depends on IP Camera Yes Yes
	Event Notification Video Pop-Up Alarm Sensor Event Video Loss Event Motion Detection Event Motion Sensor Area Disk Event System Event Networ Event	Yes Yes Yes Yes Yes Yes Yes Yes Obepends on IP Camera Yes Yes Yes Yes Yes Yes Yes Yes
	Event Notification Video Pop-Up Alarm Sensor Event Video Loss Event Motion Detection Event Motion Sensor Area Disk Event System Event Networ Event HDD S.M.A.R.T Check	Yes Yes Yes Yes Yes Yes Yes Yes Depends on IP Camera Yes
	Event Notification Video Pop-Up Alarm Sensor Event Video Loss Event Motion Detection Event Motion Sensor Area Disk Event System Event Networ Event HDD S.M.A.R.T Check External Storage	Yes Yes Yes Yes Yes Yes Yes Yes Depends on IP Camera Yes
Storage	Event Notification Video Pop-Up Alarm Sensor Event Video Loss Event Motion Detection Event Motion Sensor Area Disk Event System Event Networ Event HDD S.M.A.R.T Check External Storage Auto Disk Recovery	Yes Yes Yes Yes Yes Yes Yes Yes Depends on IP Camera Yes
Storage	Event Notification Video Pop-Up Alarm Sensor Event Video Loss Event Motion Detection Event Motion Sensor Area Disk Event System Event Networ Event HDD S.M.A.R.T Check External Storage Auto Disk Recovery Deleting Partial Data	Yes Yes Yes Yes Yes Yes Yes Yes Depends on IP Camera Yes
Storage	Event Notification Video Pop-Up Alarm Sensor Event Video Loss Event Motion Detection Event Motion Sensor Area Disk Event System Event Networ Event HDD S.M.A.R.T Check External Storage Auto Disk Recovery Deleting Partial Data Group Authority	Yes Yes Yes Yes Yes Yes Yes Yes Depends on IP Camera Yes
Storage	Event Notification Video Pop-Up Alarm Sensor Event Video Loss Event Motion Detection Event Motion Sensor Area Disk Event System Event Networ Event HDD S.M.A.R.T Check External Storage Auto Disk Recovery Deleting Partial Data Group Authority Operating System	Yes Yes Yes Yes Yes Yes Yes Yes Depends on IP Camera Yes
Storage User	Event Notification Video Pop-Up Alarm Sensor Event Video Loss Event Motion Detection Event Motion Sensor Area Disk Event System Event Networ Event HDD S.M.A.R.T Check External Storage Auto Disk Recovery Deleting Partial Data Group Authority Operating System F/W Upgrade	Yes Yes Yes Yes Yes Yes Yes Depends on IP Camera Yes
Event & Actions Storage User	Event Notification Video Pop-Up Alarm Sensor Event Video Loss Event Motion Detection Event Motion Sensor Area Disk Event System Event Networ Event HDD S.M.A.R.T Check External Storage Auto Disk Recovery Deleting Partial Data Group Authority Operating System F/W Upgrade Setup Import / Export Keyboard Controller Backup Viewer	Yes Yes Yes Yes Yes Yes Yes Depends on IP Camera Yes
Storage User	Event Notification Video Pop-Up Alarm Sensor Event Video Loss Event Motion Detection Event Motion Sensor Area Disk Event System Event Networ Event HDD S.M.A.R.T Check External Storage Auto Disk Recovery Deleting Partial Data Group Authority Operating System F/W Upgrade Setup Import / Export Keyboard Controller	Yes Yes Yes Yes Yes Yes Yes Depends on IP Camera Yes

A	CCES	SSO	RIES

Model
Product type

ZA-RM1U Rack Mount for 1U NR-RM2 Rack Mount for 2U NR8P 8ch External PoE Hub







Type

Box

Box

Pinhole

Indoordome

Indoordome

Outdoordome

Outdoordome

Outdoordome

Outdoordome

Bullet

Bullet

Bullet

Bullet

Fisheye

PTZ

Model

IPN1302SV-7211

IPN1402HD-6117

IPN8102HD-W

IPN302HD-5117

IPN3402HD-6311IR

IPN362HD-6211IR

IPX3702HD-5314

IPN3502SV

IPN3502SV-IR

IPN6802HD-6211 IPN6702HD-6311Z

IPN6702SV-7311-H

IPN2103HD-6511

IPX4602SV-7416A-30

IPN6702SV-7311-V722-H

Resolution

2MP / 25fps

3MP / 14fps

2MP / 25fps





Features:

Alarm

Digital I/O

1/1

VCA

Yes

4/2 Yes

1/1

1/1

1/1

1/1

Power

12V / PoE

PoE

12V / PoE

PoE

12V / PoE+

12V / PoE+

12V / PoE

24V / PoE+

Audio

1/0

1/1

1/1

1/1

1/1

1/1

1/1

1/1

1/1

MIC

IR

35m

10m

40m

20m

35m

60m

40m

WDR

T-WDR

D-WDR

D-WDR

D-WDR

D-WDR

D-WDR

D-WDR

T-WDR

T-WDR

D-WDR

D-WDR

T-WDR

T-WDR

D-WDR

T-WDR

Sensor

1/2.8"

1/2.9"

1/2.8"

1/2.7"

1/2.9"

1/2.9"

1/2.7"

1/2.8"

1/2.9"

1/2.9"

1/2.8"

1/2.8"

1/2.5"

1/2.8"

Lens

CS

CS

2.8mm

2.8mm

3 - 9mm

3.6mm

3 - 9mm MFZ

2.8 - 12mm MFZ

4.3mm

7 - 22mm MFZ

2.8 - 12mm MFZ

1.2mm

4.3 - 129mm

2MP / 25fps | 2.8 - 12mm MFZ

2MP / 25fps | 2.8 - 12mm MFZ

- 4 / 8 / 16 Channel Version
- Advanced Algorithm
- Configurable Ruleset
- No Calibration and Classification required
 License Plate Recognition
- Human / Vehicle Detection

- People and Vehicle Counting and Heat Map
- Intrusion / Presence Detection / Enter / Exit / Line Crossing
- ONVIF Compliance
- Face Recognition
- Further Object Behaviour Analysis



Busy Scene

Detection of multiple objects with classifications without calibration



Intuitive creation of specific shaped zones



Classification under difficult light conditions



Intrusion, loitering, stop and line crossing



Classification of Objects at a distance

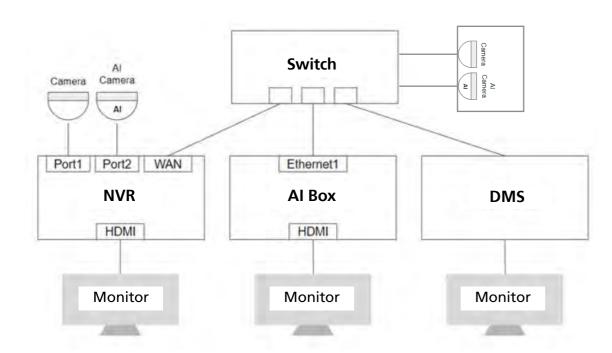
GANZ





	Pro	Mid	Lite
Al Box "Pro • Mid • Lite" Series	ANEXY SAME	MEN SACT	ARD TO THE T
Model	ZN-AIBOX16	ZN-AIBOX8	ZN-AIBOX4
Memory	8GB	4GB	4GB
Main Monitor		HDMI	
Main Monitor Resolution		Up to 4K	
Number of Video Stream	Up to 16ch	Up to 8ch	Up to 4ch
Max Video Input Resolution	4K @ 120fps (1080P @ 480fps)	4K @ 60fps (1080P @ 240fps)	4K @ 30fps (1080P @ 120fps)
Video Input Method		RTSP, Onvif	
Supported Input Video Format		H.265 / H.264	
Number of Annotated Video Output Stream	16 + 1 (Channel0 encoding)	8 + 1 (Channel0 encoding)	4 + 1 (Channel0 encoding)
Video Output Stream Method	R	TSP over TCP, RTSP over Websock	et
Alarm Input		4 Ch	
Alarm Output		1 Ch	
Internal HDD		Internal SD Card Slot	
USB	USB3.0 >	K 2 ports	USB2.0 X 2 ports
RS-485		1	
RS-232		-	
LAN	10 / 100 / 10	000Mbps x 2	10 / 100 / 1000Mbps x 1
Watchdog		Yes	
Cooling Fan		-	
Power Supply	12V / 2A adaptor		
Power Consumption	20W max. without HDD		
Temperature	0°C ~ 40°C		
Humidity	10 ~ 90% NC		
Dimension	200 x 131 x 38		
Weight	0.6kg		
Certification	CE, FCC, KC		

CONNECTION EXAMPLE



		PRO - MID - LITE
	Main Features	- Deep learning based Al Engine and Analytics Rule Engine - Various Al Video Analytics Package - Can be used for Surveillance, Business Intelligence, Access Control, Loss Prevention, etc - Compatiable existing Onvif based VMS, NVR/DVR, Alarm monitoring system - Easy integration with annotated video stream - Easy integration with various APIs and Protocols (Onvif, REST, E-mail, TCP, RS485) - HTML5 Web based Configuration
Al Engine	Detector	Deep learning based Object Detection & Classification - Human, Car, Bike and other objects Special camera support - Thermal (Human only) - Fisheye (Human only)
J	Tracker	Multi object Tracking
	Recognizer	Face Recognition Engine License Plate Recognition Engine
	Behavior Analyzer	Optional
	Behavior Detection Trigger	Intrusion, Presence, Loitering, Enter/Exit, Line Crossing, Stopping, Direction, Tailgating
	Counting Trigger	Object Counting (Line, Zone, Queue (Presence)), Event Counting
Event Trigger	System Trigger	Alarm-In, Recurrence
	Recognition Trigger	Face Recognition , License Plate Recognition
	False Alarm Filter	Auto & Manual False Alarm Filter
	Combined with other triggers	Yes
	Network Action Handler	Onvif, HTTP, TCP, E-mail
	System Action Handler	Relay Out, RS485
Event Action	Annotated Video Stream	Video Popup on Channel 0 multi view stream
	Pre/Post snapshot	Yes
	Recording Video	Event triggered recording on SD card, Cloud, etc
	Counter Report	Number of objects (Human, Car, Bike, etc) in zones Line crossing counting (Line cross, Enter, Exit) Event counting
Analytics Report	Visitor Analytics Report	Age, Gender, VIP (Need to enable face recognition)
,	Queue Management Report	Queue length, Average Queue Time
	Heatmap Report	Yes
· ·		

Yes HTML5 Web UI (No Plugins)

Onvif, REST

* Some features will require extra licenses.

UI

API

** Some features will be available later on. Please ask our sales team.

Pathmap Report

Web UI

API

GANZ





VCA - Video Analytics



_People and Vehicle Counting

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



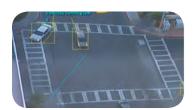
_Stopping and Dwell Detection

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



_Intrusion Detection

For perimeter security and crime prevention cameras can be used as intrusion detection sensor. An alarm is generated when a pre-determined object (person or vehicle) crosses into the detection zone. Equally, an alarm is generated when an object crosses from the inside to the outside of a detection zone.



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. This can be used for traffic control and entry/exit monitoring.



_Tailgating Detection

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

	2 MEGAPIXEL BOX CAMERA		
IPN1302SV-7211 IPN1402HD-6117			
Image Sensor	1/2.7" CMOS	1/2.9" CMOS	
Compression	H.264,	MJPEG	
Max. Resolution	108	80p	
Effective Pixel	1920	x 1080	
Video Frame Rate	25fps@F	HD 1080p	
Lens	CS-N	lount	
Iris	Manual	/ DC Iris	
S/N Ratio		or more	
Monitor Output	1 x BNC (for installation)	-	
Alarm In-/Output	1/1	-	
Audio input/-output	1/1	-	
Audio Codec	G.711	-	
Day/Night	Mechanical	Digital	
Min. Illumination	1.0 Lux (Color) 0.001 Lux (B/W, Sens-up 32x) 0.5 Lux (Color) 0.01 Lux (B/W, DSS on)		
AGC/BLC/DNR/D-WDR	Yes / Yes	/ Yes / Yes	
Network Interface	10/100	Base T	
Protocols	TCP/IP, UDP/IP, HTTP, RTSP, RTCP, RTP/UDP, RTP/TCP, SNTP, mDNS, UPnP, SMTP, SOCK, IGMP, DHCP, DDNS, SSL v2/v3, IEE 802.1X, SSH, SNMP v2/v3		
Remote Access	IE 7	7.0+	
Micro SD Memory	Integrate	ed SD slot	
Motion Detection	Yes		
Operating Voltage	12VDC	-	
PoE	Yes (IEEE 802.3af)		
Power Consumption	400mA @12VDC	3.84W @PoE	
Operating Temperature	0°C ~ 50°C -10°C - 50°C		
Housing / IP / IR	Aluminium / - / -	Polycarbonat / - / -	
Weight	500g	200g	
Dimensions WxHxD	71mm x 64mm x 140mm 64mm x 50mm x 97.5mm		
Certificates	ONVIF (Profile S), CE, FCC		

24 CANZ 25





2 MEGAPIXEL PINHOLE CAMERA

	IPN8102HD-W
Image Sensor	1/3" CMOS
Compression	H.264, MJPEG
Max. Resolution	1080p
Effective Pixel	1920 x 1080
Video Frame Rate	25fps@ HD 1080p
Lens	2.8mm, F2.8
FOV (horiz.)	103°
Iris	-
S/N Ratio	50dB or more
Monitor Output	-
Alarm Ein / Ausgang	-
Audio Ein/ Ausgang	-
Audio Codec	-
Day/Night	Digital D/N
Min. Illumination	Color: 1.0 lux / SW: 0.007 lux (DSS ON)
AGC/BLC/DNR/D-WDR	Yes / Yes / Yes / Yes
Network Interface	10/100 Base T
Protocols	TCP/IP, UDP/IP, HTTP, RTSP, RTCP, RTP/UDP, RTP/TCP, SNTP, mDNS, UPnP, SMTP, SOCK, IGMP, DHCP, DDNS, SSL v2/v3, IEEE 802.1X, SSH, SNMP v2/v3
Remote Access	IE 7.0+
Micro SD Memory	Integrated SD slot
Motion Detection	Yes
Operating Voltage	12VDC
РоЕ	Yes (IEEE 802.3af)
Power Consumption	max. 3.6W@12VDC
Operating Temperature	-10°C ~ 50°C
Housing	Polycarbonat
Weight	Camera unit: 225g Camera: 250g
Dimensions	Camera: 28.5mm (ø) x 25mm (H) Camera unit: 107mm (W) x 26mm (H) x 124mm (D)
Certification	OnVIF (Profile S), FCC, CE





2 MEGAPIXEL INDDOR DOME CAMERA				
IPN302HD-5117	IPN3402HD-6311IR			
1/2.7" CMOS	1/2.9" CMOS			
H.264,	MJPEG			
108	30p			
1920 >	x 1080			
25fps@ F	HD 1080p			
3 - 9	Pmm			
110° - 35.5°				
DC				
50dB o	r more			
-	Yes			
-	-			
<u>-</u>				
·				
Digital D/N Mechanical				
Color: 1.0 lux / SW: 0.001 lux (DSS ON) Color: 0.5 lux / SW: 0lux (IR ON)				
Yes / Yes / Yes / Yes Yes / Ye				
10/100 Base T				

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*

IE 7.0+			
Integrate	ed SD slot		
Y	es		
-	12VDC		
Yes (IEEE	802.3af)		
max. 2.4W@PoE max. 7W@12VDC			
0°C ~ 40°C			
Aluminum Die-Casting	Polycarbonat		
270g	470g		
Ø105.5mm x 55.5mm	Ø148mm x 100mm		
FCC, CE, KC, IK09, UL	FCC, CE, KC		





	2 MEGAPIXEL OUTDOOR DOME CAMERA		
	IPN362HD-6211IR IPN3702HD-5314		
Image Sensor	1/2.9"	1/2.7"	
Compression	H.264,	MJPEG	
Max. Resolution	1920	x 1080	
Video Frame Rate	25fps@H	HD 1080p	
Lens	3.6mm	3.0 - 9.0mm	
FOV (horiz.)	87°	93° - 31.7°	
Iris	-	DC	
S/N Ratio	50dB c	or more	
Monitor Output	-	Yes	
Alarm In-/Output	-	1/1	
Audio input/-output	-	1/1	
Audio Codec	-	G.711	
Day/Night	Mech	nanical	
Min. Illumination	Color: 0.5 Lux / B/W: 0 Lux (IR LED On) Color: 0.5Lux / B/W : 0.001Lux (I		
IR	8 IR LEDs, max. 10m		
WDR	Yes, D-WDR		
AGC/BLC/DNR	Yes / Yes		
Network Interface	10/100 Base T		
Protocols	IPv4, IPv6, 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	7.0+	
Micro SD Memory	Integrate	ed SD slot	
Motion Detection	Y	es	
Operating Voltage	12VDC	12VDC / 24VAC	
PoE	Yes (IEEE 802.3af)	Yes (IEEE 802.3af)	
Power Consumption	4.2W @ DC 12V	16.2W @ DC 12V	
Operating Temperature	-20°C ~ 50°C [PoE] 0°C ~ 50°C; Built-in fan and heate		
Housing	Alum	ninum	
Protection Class	IP66	/ IK10	
Weight	400g	1.6kg	
Dimensions WxHxD	Ø115,9 mm x 74.5 mm	Ø154.4 mm x 130 mm	
Certificates	tificates FCC, CE, KC, IP66, IK10 FCC, CE, KC, IP66, IK10		









	2 MEGAPIXEL OUTDOOR DOME CAMERA		
	IPN3502SV	IPN3502SV-IR	
Image Sensor	1/2	2.8"	
Compression	H.264,	MJPEG	
Max. Resolution	1920	x 1080	
Video Frame Rate	25fps@H	HD 1080p	
Lens	2.8 - :	12mm	
FOV (horiz.)	99°	- 35°	
Iris	D	OC .	
S/N Ratio	50dB c	or more	
Monitor Output		-	
Alarm In-/Output	1	/1	
Audio input/-output	1	/1	
Audio Codec	G.7	711	
Day/Night	Mech	anical	
Min. Illumination	0.03 Lux (DSS On) / B/W : 0.006 Lux (DSS On)	Color: 0.03 Lux (DSS On) / B/W : 0 Lux (IR LED On)	
IR	-	28 Smart IR LEDs, max. 40m	
WDR	Yes, T-WDR		
AGC/BLC/DNR	Yes / Ye	es / Yes	
Network Interface	10/100 Base T		
Protocols	QoS Layer 3 DiffServ, TCP/IP, UDP/IP, HTTP, HTTPS, FTF DHCP, DNS, DynDNS, NTP, SNMPv1/v2c/v3(MIB-II), IGN	P, RTSP, RTCP, RTP/UDP, RTP/TCP, mDNS, UPnP™, SMTP, MP, ICMP, SSLv2/v3, TLSv1/1.2, SRTP, RTMP, IEEE802.1X	
Remote Access	IE 7	7.0+	
Micro SD Memory	Integrated SD slot		
Motion Detection	Ye	es	
Operating Voltage	12VDC		
PoE	Yes (IEEE 802.3af)		
Power Consumption	8 W@DC12V (Heater on), 9.5W@PoE (Heater on)	9 W@DC12V(Heater on, IR-LED on), 10.5W@PoE(Heater on, IR-LED on)	
Operating Temperature	-40°C ~ 50°C		
Housing	Aluminum, Anti-vandal bubble (PC)		
Protection Class	IP66	/ IK10	
Weight	1.2	2kg	
Dimensions WxHxD	Ø155 mm x 129 mm		
Certificates	FCC, CE, KC, IP66		









	2 MEGAPIXEL BULLET CAMERA			
	IPN6802HD-6211	IPN6702HD-6311Z	IPN6702SV-7311	IPN6702SV-7311-V722-H
Image Sensor	1/2	2.9"	1/2	2.8"
Compression		H.264,	MJPEG	
Max. Resolution		1920 x	1080	
Video Frame Rate		25fps@H	D 1080p	
Lens	4.3mm	2.8 - 1	2mm	7.0 - 22mm
FOV (horiz.)	74.4°	90° - 35°	99°	- 35°
Iris	-		DC	
S/N Ratio		50dB o	r more	
Monitor Output			Ye	es
Alarm In-/Output		1.	/1	
Audio in-/-output		-	1	/1
Audio Codec			1,	/1
Day/Night		Mech	anical	
Min. Illumination	Color: 1.0Lux B/W : 0 Lux (IR LED On)	Color: 0.5Lux B/W : 0 Lux (IR LED On)		0.3Lux (IR LED On)
IR	8 Smart IR LEDs, max. 20m	16 Smart IR LEDs, max. 35m	16 Smart IR LEDs, max. 40m	16 Smart IR LEDs, max. 60m
WDR	Yes, D	-WDR	Yes, T	-WDR
AGC/BLC/DNR		Yes / Ye	es / Yes	
Network Interface		10/100	Base T	
Protocols	QoS Layer 3 DiffServ, TCP/IF DNS, DynDNS,	P, UDP/IP, HTTP, HTTPS, FTP, RT NTP, SNMPv1/v2c/v3(MIB-II), I	SP, RTCP, RTP/UDP, RTP/TCP, n GMP, ICMP, SSLv2/v3, TLSv1/1	nDNS, UPnP™, SMTP, DHCP, 2, SRTP, RTMP
Remote Access		IE 7	'.0+	
Micro SD Memory		Integrate	d SD slot	
Motion Detection		Υe	?S	
Operating Voltage		12V	'DC	
PoE	Yes (IEEE	802.3af)	Yes,	PoE+
Power Consumption	6W @ DC 12V	9W @ DC 12V	17W @ DC12V	
Operating Temperature	-20°C	~ 50°C	-40°C	~ 50°C
Housing		Alum	inum	
Protection Class		IPo	56	
		870g 895g		r-
Weight	600g	8/0g	89	og
Weight Dimensions WxHxD	600g 76mm x 73.5mm 235mm	870g	86mm x 83.5mm x 280mm	og

GANZ







IPX46025V Image Sensor		2 MEGAPIXEL OUTDOOR PTZ
Compression H.264, MJPEG Max. Resolution 1920 x 1080 Max. Resolution 25fps@HD 1080p Video Frame Rate 25fps@HD 1080p FOV (horiz.) 63.7° - 2.3° Iris DC S/N Ratio 50dB or more Monitor Output - Alarm In-/Output 4 / 2 Audio input/-output 1 / 1 Audio Codec G.711 Day/Night Mechanical IPv4, IPv6, QoS Layer 3 DiffServ, TCP/IP, UDP/IP, HTTP, HTTP, FTF, FTP, RTSP, RTCP, RTP/UDP, RTP/TCP, mDNS, UPNP™, SMTP, DHCP, DNS, DynDNS, NTP, SMNPH/JV2C/v3(MIB-II), IGMP, ICMP, SSLv2/v3, TLSv1/1.2, SRTP, RTMP Pan/Tilt Pan Range: 360° Endless Rotation Tilt Range: -5° - 185° Auto-flip Manual Pan/Tilt Speed 600° /sec Preset Pan/Tilt Speed 600° /sec Presets 255 Privatzone 8 Interfaces 10/100 Base T Micro SD Memory Integrated SD slot Operating Voltage 24VAC PoE Yes, PoE+ Power Consumption 46W@AC 24V(heater on), 15W@PoE+ Operating Temperat		IPX4602SV
Max. Resolution 1920 x 1080 Max. Resolution 25fps@HD 1080p Video Frame Rate 25fps@HD 1080p FOV (horiz.) 63.7° - 2.3° Iris DC S/N Ratio 50dB or more Monitor Output - Alarm In-/Output 4 / 2 Audio input/-output 1 / 1 Audio Codec G.711 Day/Night Mechanical Protocols IPv4, IPv6, QoS Layer 3 DiffServ, TCP/IP, UDP/IP, HTTP, HTTP, HTTP, STP, RTSP, RTCP, RTP/UDP, RTP/TCP, mDNS, UPnP™, SMTP, DHCP, DNS, DynDNS, NTP, SIMPv1/v2c/v3(MIB-II), IGMP, ICMP, SSLv2/v3, TLSv1/1.2, SRTP, RTMP Pan/Tilt Pan Range: 360° Endless Rotation Tilt Manual Pan/Tilt 9 Range: 360° Endless Rotation Tilt Range: -5° ~ 185° Auto-flip 0.01° ~ 120° /sec Presets 255 Privatzone 8 Interfaces 10/100 Base T Micro SD Memory Integrated SD slot Operating Voltage 24VAC PoE Yes, PoE+ Power Consumption 46W@AC 24V(heater on), 15W@PoE+ Operating Temperature PoE+] 0°C ~ 50°C	Image Sensor	1/2.8"
Max. Resolution 25fps@HD 1080p Video Frame Rate 25fps@HD 1080p FOV (horiz.) 63.7° - 2.3° Iris DC S/N Ratio 50dB or more Monitor Output - Alarm In-/Output 4 / 2 Audio input/-output 1 / 1 Audio Codec G.711 Day/Night Mechanical Protocols IPv4, IPv6, QoS Layer 3 DiffServ, TCP/IP, UDP/IP, HTTP, HTTP, HTTPS, FTP, RTSP, RTCP, RTP/UDP, RTP/TCP, mDNS, UPnPIM, SMTP, SMTP, DHCP, DNS, DynDNS, NTP, SIMPV1/v2c/v3(MIB-II), IGMP, ICMP, SSLv2/v3, TLSv1/1.2, SRTP, RTMP Pan/Tilt Pan Range: 360° Endless Rotation Tilt Range: -5° ~ 185° Auto-flip Manual Pan/Tilt 0.01° ~ 120° /sec Presets 255 Privatzone 8 Interfaces 10/100 Base T Micro SD Memory Integrated SD slot Operating Voltage 24VAC PoE Yes, PoE+ Power Consumption 46W@AC 24V(heater on), 15W@PoE+ Operating Temperature PoE+] 0°C ~ 50°C; Built-in fan and heater Housing Aluminum Protection Class IP6	Compression	H.264, MJPEG
Video Frame Rate 25fps@HD 1080p FOV (horiz.) 63.7° - 2.3° Iris DC S/N Ratio 50dB or more Monitor Output - Alarm In-/Output 4 / 2 Audio input/-output 1 / 1 Audio Codec G.711 Day/Night Mechanical Protocols IPv4, IPv6, QoS Layer 3 Diffsery, TCP/IP, UDP/IP, HTTP, HTPS, FTR, PRTP, UDP, RTP/TCP, mDNS, UPnP™, SMTP, DNS, DynDNS, NTP, SNMPY1/V2c/v3(MIB-II), IGMP, ICMP, SSLv2/v3, TLSv1/1.2, SRTP, RTMP Pan/Tilt Pan Range: 360° Enclless Rotation Tilt Range: -5° ~ 185° Auto-flip Manual Pan/Tilt 0.01° ~ 120° /sec Preset Pan/Tilt Speed 600° /sec Presets 255 Privatzone 8 Interfaces 10/100 Base T Micro SD Memory Integrated SD slot Operating Voltage 24VAC PoE Yes, PoE+ Power Consumption 46W@AC 24V(heater on), 15W@PoE+ Operating Temperature PoE+] 0°C ~ 50°C; Built-in fan and heater Housing Aluminum Protection Class IP66 / IK10	Max. Resolution	1920 x 1080
FOV (horiz.) 63.7° - 2.3° Iris	Max. Resolution	25fps@HD 1080p
FOV (horiz.) 63.7° - 2.3° Iris	Video Frame Rate	25fps@HD 1080p
Iris DC S/N Ratio 50dB or more Monitor Output - Alarm In-/Output 4 / 2 Audio input/-output 1 / 1 Audio Codec G.711 Day/Night Mechanical IPv4, IPv6, QoS Layer 3 DiffServ, TCP/IP, UDP/IP, HTTP, HTPS, FTP, RTSP, RTCP, RTP/UDP, RTP/TCP, mDNS, UPnDPM, SMTP, DHCP, DNS, DynDNS, NTP, SNMPV1/v2c/y3(MIB-II), IGMP, ICMP, SSLv2/v3, TLSv1/1.2, SRTP, RTMP Pan/Tilt Pan Range: 360° Endless Rotation Tilt Range: -5° ~ 185° Auto-flip Manual Pan/Tilt Speed 600° /sec Preset Pan/Tilt Speed 600° /sec Presets 255 Privatzone 8 Interfaces 10/100 Base T Micro SD Memory Integrated SD slot Operating Voltage 24VAC PoE Yes, PoE+ Power Consumption 46W@AC 24V(heater on), 15W@PoE+ Operating Temperature PoE+] 0°C ~ 50°C; Built-in fan and heater Housing Aluminum Protection Class IP66 / IK10 Weight 4.6kg	FOV (horiz.)	
Monitor Output Alarm In-/Output Audio input/-output Audio Codec G.711 Day/Night Mechanical IPv4, IPv6, QoS Layer 3 Diffserv, TCP/IP, UDP/IP, HTTP, HT-PS, FTP, RTSP, RTCP, RTP/UDP, RTP/TCP, mDNS, UPnP™, SMTP, DHCP, DNS, DynDNS, NTP, SMMPv1/v2c/v3(MIB-II), IGMP, ICMP, SSLv2/v3, TLSv1/1.2, SRTP, RTMP Pan/Tilt Pan Range: 360° Endless Rotation Tilt Range: -5° ~ 185° Auto-flip Manual Pan/Tilt Speed Preset Pan/Tilt Speed Presets 255 Privatzone Relinterfaces 10/100 Base T Micro SD Memory Operating Voltage PoE Yes, PoE+ Power Consumption Aluminum Protection Class IP66 / IK10 Weight 4.6kg		DC
Monitor Output Alarm In-/Output Audio input/-output Audio Codec G.711 Day/Night Mechanical IPv4, IPv6, QoS Layer 3 DiffServ, TCP/IP, UDP/IP, HTTP, HT-PS, FTP, RTSP, RTCP, RTP/UDP, RTP/TCP, mDNS, UPnP™, SMTP, DHCP, DNS, DynDNS, NTP, SMMPv1/v2c/v3(MIB-II), IGMP, ICMP, SSLv2/v3, TLSv1/1.2, SRTP, RTMP Pan/Tilt Pan Range: 360° Endless Rotation Tilt Range: -5° ~ 185° Auto-flip Manual Pan/Tilt Speed Preset Pan/Tilt Speed O.01° ~ 120° /sec Presets 255 Privatzone Relinterfaces 10/100 Base T Micro SD Memory Operating Voltage PoE Yes, PoE+ Power Consumption Alow@AC 24V(heater on), 15W@PoE+ Operating Temperature PoE+] 0°C ~ 50°C; Built-in fan and heater Housing Aluminum Protection Class IP66 / IK10 Weight 4.6kg	S/N Ratio	50dB or more
Alarm In-/Output Audio input/-output Audio Codec G.711 Day/Night Protocols IPv4, IPv6, QoS Layer 3 DiffServ, TCP/IP, UDP/IP, HTTP, HT-TPS, 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 Pan/Tilt Pan Range: 360° Endless Rotation Tilt Range: -5° ~ 185° Auto-flip Manual Pan/Tilt Speed Preset Pan/Tilt Speed 600° /sec Presets 255 Privatzone Reliated SD slot Operating Voltage Poer Yes, PoE+ Power Consumption Alaminum Protection Class IP66 / IK10 Weight 4.6kg	2,1112222	SOUL OF MORE
Audio input/-output Audio Codec G.711 Day/Night Mechanical IPV4, IPV6, 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 Pan/Tilt Pan Range: 360° Endless Rotation Tilt Range: -5° ~ 185° Auto-flip Manual Pan/Tilt Speed Preset Pan/Tilt Speed Presets 255 Privatzone 8 Interfaces 10/100 Base T Micro SD Memory Operating Voltage PoE Yes, PoE+ Power Consumption Aluminum Protection Class IP66 / IK10 Weight Volva (Audio Codec) Mechanical Mechanical Mechanical Mechanical Mechanical Aluminum 1/1 Audio Codec G.711 Mechanical Aluminum Protection Class IP66 / IK10 Mechanical Mechanical Aluminum IP68 / IK10 Mechanical Aluminum Protection Class	•	-
Audio CodecG.711Day/NightMechanicalProtocolsIPv4, IPv6, 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, RTMPPan/TiltPan Range: 360° Endless Rotation Tilt Range: -5° ~ 185° Auto-flipManual Pan/Tilt Speed600° /secPreset Pan/Tilt Speed600° /secPresets255Privatzone8Interfaces10/100 Base TMicro SD MemoryIntegrated SD slotOperating Voltage24VACPoEYes, PoE+Power Consumption46W@AC 24V(heater on), 15W@PoE+Operating Temperature[AC24V] -40°C ~ 50°C Ruilt-in fan and heaterHousingAluminumProtection ClassIP66 / IK10Weight4.6kg	· · · · · · · · · · · · · · · · · · ·	4/2
Day/Night Mechanical Protocols IPv4, IPv6, 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 Pan/Tilt 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 Privatzone 8 Interfaces 10/100 Base T Micro SD Memory Integrated SD slot Operating Voltage 24VAC PoE Yes, PoE+ Power Consumption 46W@AC 24V(heater on), 15W@PoE+ Operating Temperature [AC24V] -40°C ~ 50°C PoE+] 0°C ~ 50°C; Built-in fan and heater Housing Aluminum Protection Class IP66 / IK10 Weight 4.6kg		
Protocols Pv4, IPv6, 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 Pan Range: 360° Endless Rotation Tilt Range: -5° ~ 185° Auto-flip Manual Pan/Tilt Don'o ~ 120° / sec		
Protocols TPS, 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 Pan/Tilt Pan Range: 360° Endless Rotation Tilt Range: -5° ~ 185° Auto-flip Manual Pan/Tilt Speed Preset Pan/Tilt Speed Presets 255 Privatzone Interfaces 10/100 Base T Micro SD Memory Operating Voltage PoE Yes, PoE+ Power Consumption Alow@AC 24V(heater on), 15W@PoE+ Poerating Temperature Housing Aluminum Protection Class IP66 / IK10 Weight 4.6kg	Day/Night	
Manual Pan/Tilt Speed Preset Pan/Tilt Speed Presets Privatzone Interfaces Interfaces Micro SD Memory Operating Voltage PoE Power Consumption Integrated	Protocols	TPS, FTP, RTSP, RTCP, RTP/UDP, RTP/TCP, mDNS, UPnP™, SMTP, DHCP, DNS, DvnDNS, NTP, SNMPv1/v2c/v3(MIB-II).
Preset Pan/Tilt Speed Presets Presets Privatzone Interfaces Interfaces Integrated SD slot Operating Voltage PoE Power Consumption Integrated Integrated SD slot Operating Voltage PoE Integrated SD slot Operating Voltage Integrated SD slot Integrated SD sl	Pan/Tilt	Pan Range: 360° Endless Rotation Tilt Range: -5° ~ 185° Auto-flip
Presets 255 Privatzone 8 Interfaces 10/100 Base T Micro SD Memory Integrated SD slot Operating Voltage 24VAC PoE Yes, PoE+ Power Consumption 46W@AC 24V(heater on), 15W@PoE+ Operating Temperature PoE+] 0°C ~ 50°C; Built-in fan and heater Housing Aluminum Protection Class IP66 / IK10 Weight 4.6kg		0.01° ~ 120° /sec
Privatzone Interfaces Interfaces Micro SD Memory Operating Voltage PoE Yes, PoE+ Power Consumption Integrated SD slot 24VAC Yes, PoE+ Power Consumption 46W@AC 24V(heater on), 15W@PoE+ Operating Temperature Integrated SD slot 24VAC Yes, PoE+ PoE+ Power Consumption Integrated SD slot Integrated SD slot Yes, PoE+ PoE+ PoE+ Operating Temperature Integrated SD slot Integrated SD slo	Preset Pan/Tilt Speed	600°/sec
Interfaces Micro SD Memory Operating Voltage PoE Power Consumption Aluminum Protection Class Integrated SD slot 24VAC 24VAC PoE Yes, PoE+ Aluminum Protection Class PoE+ 10/100 Base T Integrated SD slot 24VAC PoE+ Power Consumption Aluminum Protection Class IP66 / IK10 Weight 4.6kg	Presets	255
Micro SD Memory Operating Voltage PoE Yes, PoE+ Power Consumption 46W@AC 24V(heater on), 15W@PoE+ Operating Temperature PoE+] 0°C ~ 50°C; Built-in fan and heater Housing Aluminum Protection Class IP66 / IK10 Weight 4.6kg	Privatzone	8
Operating Voltage PoE Yes, PoE+ Power Consumption 46W@AC 24V(heater on), 15W@PoE+ Operating Temperature [AC24V] -40°C ~ 50°C PoE+] 0°C ~ 50°C; Built-in fan and heater Housing Aluminum Protection Class IP66 / IK10 Weight 4.6kg	Interfaces	10/100 Base T
PoE Yes, PoE+ Power Consumption 46W@AC 24V(heater on), 15W@PoE+ Operating Temperature PoE+] 0°C ~ 50°C; Built-in fan and heater Housing Aluminum Protection Class IP66 / IK10 Weight 4.6kg	Micro SD Memory	Integrated SD slot
Power Consumption 46W@AC 24V(heater on), 15W@PoE+ Operating Temperature [AC24V] -40°C ~ 50°C PoE+] 0°C ~ 50°C; Built-in fan and heater Housing Aluminum Protection Class IP66 / IK10 Weight 4.6kg	Operating Voltage	24VAC
Operating Temperature [AC24V] -40°C ~ 50°C PoE+] 0°C ~ 50°C; Built-in fan and heater Housing Aluminum Protection Class [P66 / IK10] Weight 4.6kg	PoE	Yes, PoE+
Temperature PoE+] 0°C ~ 50°C; Built-in fan and heater Housing Aluminum Protection Class IP66 / IK10 Weight 4.6kg	Power Consumption	46W@AC 24V(heater on), 15W@PoE+
Protection Class IP66 / IK10 Weight 4.6kg		[AC24V] -40°C ~ 50°C PoE+] 0°C ~ 50°C; Built-in fan and heater
Weight 4.6kg	Housing	Aluminum
	Protection Class	IP66 / IK10
	Weight	4.6kg
9232 HIII X 270.1 HIII		
Certificates FCC, CE, IP66, IK10		

2 MEGAPIXEL FISHEYE CAMERA		
	IPN2103HD-6511	
Image Sensor	1/2.5"	
Compression	H.264, MJPEG	
Max. Resolution	1080p	
Effective Pixel	2048 x 1536	
Video Frame Rate	14fps@ 2048 x 1536	
Lens	1.2mm	
FOV (horizontal/vertical)	180° / 180°	
Iris	-	
S/N Ratio	50dB or more	
Monitor Output	Yes	
Alarm Ein / Ausgang	1/1	
Audio Ein/ Ausgang	1/1	
Audio Codec	G.711	
Day/Night	Digital D/N	
Min. Illumination	Color: 1.0 Lux, B/W : 0.01Lux (DSS ON)	
AGC/BLC/DNR/D-WDR	Yes / Yes / Yes / Yes	
Network Interface	10/100 Base T	
Protocols	IPv4, IPv6, QoS Layer 3 Diffs- erv, TCP/IP, UDP/IP, HTTP, HT- TPS, FTP, RTSP, RTCP, RTP/UDF RTP/TCP, mDNS, UPnP™, SMTF DHCP, DNS, DynDNS, NTP, SNMPv1/v2c/v3(MIB-II), IGMF ICMP, SSLv2/v3, TLSv1/1.2, SRTP, RTMP, IEEE802.1X	
Remote Access	IE 7.0+	
Micro SD Memory	Integrated SD slot	
Motion Detection	Yes	
Operating Voltage	12VDC	
PoE	Yes (IEEE 802.3af)	
Power Consumption	max. 3.6W@12VDC	
Operating Temperature	0°C ~ 50°C	
Housing	Polycarbonat	
Weight	360g	
Dimensions	Ø144mm x 57.2mm	
Certification	FCC, CE, KC	



PMC-3000







CMA-4600

Pendant Mount Cap

Pole Mount







WMB-4600

WMB-3000P WME

Wall Mount Bracket

PMC-3	IPX3702HD	-	IPX4602HD	-
-------	-----------	---	-----------	---







PMA-U100

PMA-4600

Pole Mount

IPN6602HD IPN6702HD IPN6802HD	WMB-3000P CMB-3000P ODE-1000T JBK-U100 WMB-3000 WMB-3000S	IPX4602HD	-
-------------------------------------	--	-----------	---



FMB-3502

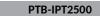
Flush Mount Bracket

IPN3502HD-5211	
IPN5311	
IPN5211IR	
IPN5311IR	



JBK-U100

Junction Box Kit



Wall Mount Bracket

IPT2500MR













						Auc	lio	Alarm		
Model	Туре	Resolution FPS	Lens	WDR	IR	1/0	міс	Digital I/O	VCA	Power
<u>ZN8-C12-N</u>	Вох	12MP / 20fps	CS, 1/1.7"	D-WDR	-	1/1	•	1/1	S	12V / PoE
ZN8-VB2M722-N	Bullet	4MP / 25fps	2.7-12mm MFZ	T-WDR	40m	1/1	-	1/1	S/O	12V / PoE
ZN8-BB2M312-NR	Bullet	4MP / 15fps	3-12mm	D-WDR	30m	-	-	-	S/O	12V / PoE
ZN8-BB2M722-NR	Bullet	2MP / 25fps	2.8-12mm	D-WDR	30m	-	-	-	S/O	12V / PoE
ZN8-BB12M412-N	Bullet	12MP / 20fps	4.1-12mm MFZ	T-WDR	70m	1/1	-	1/1	S	12V / PoE
ZN8-P4NTAF60L	PTZ	2MP / 25fps	22x AF Zoom	D-WDR	100m	1/1	-	7/2	-	24V
ZN8-P3X30-NIR	PTZ	3MP / 25fps	30x AF Zoom	D-WDR	120m	1/1	-	7/2	-	24V
ZN8-P3X12-NIR	PTZ	3MP / 25fps	12x AF Zoom	D-WDR	100m	1/1	-	2/1	-	12V / PoE+
ZN8-F12F18-NIR	Fisheye	12MP / 20fps	1.8mm 360°	D-WDR	15m	1/1	•	1/1	-	12/24V/PoE



	12 MEGAPIXEL BOX CAMERA
	ZN8-C12-N
Image Sensor	1/3" CMOS
Compression	H.265, H.264 ,MJPEG
Triple Stream	Yes, configurable
Resolution options	Stream1: 4000×3000@20fps, 4096×2160/3840×2160/ 1920×1080/1280×720 @25/30fps Stream2: D1/VGA/640×360/CIF/QVGA @25/30fps Stream3: VGA/CIF/QVGA @25/30fps
Video Frame Rate	max. 25fps
Day/Night	Mech. Day/Night
Min. Illumination	Color: 0.009 Lux @(F1.2,AGC ON) B/W: 0.0009 Lux @(F1.2,AGC ON)
Digital Noise Reduction	2/3DNR
WDR	D-WDR
Audio input/-output	1 / 1, Built-in Mic
Audio Codec	G.711, RAW_PCM
Network Interface	10 / 100 Base-T
Alarm In-/Output	1/1
Protocols	IPv4/IPv6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTCP/RTP, PPPoE, SMTP, DNS, UPnP, FTP, APR, SNMP
HLC	Yes
Motion Detection	Yes
ROI	Yes
Micro SD Memory	Micro SD slot, Max 128GB
Operating Voltage	AC24V/DC12V/POE
Power Consumption	5W
Operating Temperature	-20°C ~ 50°C
Dimensions	150.2mm x75mm x 69.7mm
Weight	400g
Certification	CE. FCC









	2 MECADIVELID BUILET			12 MD ID DIJULET	
	2 MEGAPIXEL IR BULLET			12 MP IR BULLET	
	ZN8-VB2M722-N	ZN8-BB2M312-NR	ZN8-BB2M722-DR	ZN8-BB12M412-N	
Resolution		2MP		12MP	
Image Sensor	1/2.8" Progressive Scan CMOS	1/2.9" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS	1/1.7" Progressive Scan CMOS	
Compression	H.264/265, MJPEG	H.264, MJPEG	H.264/20	65, MJPEG	
Stream	Duals	stream	Triple	stream	
Resolution Options		1920x1080 m 2: D1	Stream1: 1920×1080 @25fps Stream2: D1/VGA/CIF @25/30fps Stream3: 1920×1080/VGA	Stream1: 4000×3000 @20fps, Stream2: VGA @25fps Stream3: VGA@25fps	
Video Frame Rate		max.	25fps		
FOV (horiz.)	40.7 °~ 16.8 °	87°~ 35°	40.7°~16.8°	98°~ 34.5°	
Lens	Motorized lens 7 - 22mm	Motorized lens 3 - 12mm	Motorized lens 7 - 22mm	Motorized lens 4.1~12.8mm	
Day/Night		Mech. D	Day/Night		
Min. Illumination	Color 0.001Lux IR ON 0 Lux	Color 0.01Lux IR ON 0 Lux	Color 0.001Lux IR ON 0 Lux	Color 0.009Lux 0Lux IR LED	
IR LED / Range	60m	40m	60m	80m	
Digital Noise Reduction		2/3	DNR		
WDR	T-WDR > 120dB	D-WDR	T-WDR > 120dB	D-WDR	
Audio input/-output	lio input/-output		/1		
Audio Codec	G.711, RAW_PCM				
Network Interface	10 / 100 Base-T				
Alarm In-/Output	1/1		-/1	1/1	
Protocols	HTTP, HTTPS, TCP, UDP, RTSP, DHCP, NTP, PPPoE, SMTP, FTP, UPnP, Unicast, Multicast			, TCP/IP, UDP/IP, RTSP, DHCP, NTP, DNS, UPnP, FTP, APR, SNMP	
HLC		Υ	Yes		
Motion Detection	Yes				
ROI			es es		
Micro SD Memory	Micro SD/SDHC/SDXC slot, Max 128GB	Micro SD/SDHC/SDXC slot, Max 64GB	Micro SD,	Max 128GB	
Protection Class	IF	266	IF	P67	
Operating Voltage					
Power Consumption					
Operating Temperature					
Dimensions					
Weight	nt 1680g				
Certification	CE, FCC				
LPR	-	Recognition rat	-CIS number plates te of 97% or higher n speed of 50km/h	-	







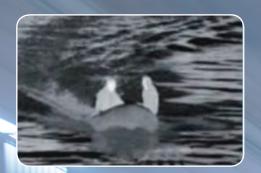




Resolution Options		inclusive	inclusive		
Image Sensor		2 MEGAPIXEL PTZ	5 MEGAPIXEL PTZ	3 MEGAPIXEL PTZ	
Image Sensor		ZN8-P4NTAF60L	ZN8-P5X12DL	ZN8-P3X30-DL-H	
Compression	Resolution	2MP	5MP	3MP	
Dualstream Dualstream Triplestream Resolution Options 1920 x 1080 / 25fps Stream1: 2560×1920 @25fps Stream2: VGA @25fps Stream2: VGA @25fps Stream3: VGA @25fp	Image Sensor		1/2.8" CMOS		
Resolution Options 1920 x 1080 / 25fps Stream1: 2560×1920 @25fps Stream2: VGA @25fps Stream2: VGA @25fps Stream2: VGA @25fps Stream3: VGA @25fps Str	Compression	H.264, MJPEG	H.265, H.2	264, MJPEG	
Resolution Options 1920 x 1080 / 25fps Stream2: VGA @25fps Stream3:	Dualstream	Dualstream	Triple	Stream	
Lens 4.7mm - 103mm, 22x optical, 12x digital 4.7 - 56.4mm 12x optical, 16x digital 4.5 - 135mm 30x optical, 16x digital Day/Night Mechanical Min. Illumination 0.02 Lux (Color) 0.002 Lux (B/W), 0 Lux (IR on) O.01Lux (Color) 0.01Lux (IR on) IR Yes (Smart IR), max. 100m Yes (Smart IR), max. 80m Yes (Smart IR), max. 200m DNR TWDR Audio input/-output 1/1 Audio Codec Network Interface 360° (Endless) Alarm input/-output 7/2 7/2 7/2 7/2 7/2 7/2 7/2 7/2 7/2 7/2 7/2 7/2 7/2 7/2 1Pv4/IPv6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTCP/IP, DDP/IP, RTSP, DHCP, NTP, RTCP/IP, PPDE, SMTP, DNS, UPnP, FTP, APR, SNMP PPDES, SMTP, DNS, UPnP, FTP, APR, SNMP 360° (endless), 0.01° - 180°/sec 10° - 90°/sec 360° (endless), 0.01° - 180°/sec 300° Audio 400 400 <td>Resolution Options</td> <td>1920 x 1080 / 25fps</td> <td>Stream2: VGA @25fps</td> <td>·</td>	Resolution Options	1920 x 1080 / 25fps	Stream2: VGA @25fps	·	
Lens 22x optical, 12x digital 12x optical, 16x digital 30x optical, 16x digital Day/Night Mechanical Mechanical Min. Illumination 0.02 Lux (Color) 0.002 Lux ((Rom)) O.01Lux (Color) 0.002 Lux ((Color) 0.002 Lux ((Rom)) IR Yes (Smart IR), max. 100m Yes (Smart IR), max. 80m Yes (Smart IR), max. 200m DNR T-WDR Audio input/-output D-WDR T-WDR Audio Codec G.711, RAW PCM Network Interface 10 / 100 Base-T Alarm input/-output 7 / 2 2 / 1 7 / 2 Protocols HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, POE, Unicast / Multicast, ONVIF IPV4/IPV6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTCP/R PPDE, SMTP, DNS, UPR, FTP, APR, SNMP Pan Angle / Speed 360° (endless), 0.01° - 180°/sec Titl Angle / Speed 360° (endless), 0.01° - 90°/sec Track Max. 12 Auto-Scan Max. 12 Track Max. 12	Video Frame Rate		max. 25fps		
Min. Illumination 0.02 Lux (Color) 0.002 Lux (IR on) 0.01 Lux (IR on) 0 Lux (IR on) IR Yes (Smart IR), max. 100m Yes (Smart IR), max. 80m Yes (Smart IR), max. 200m DNR Yes, 2/3DNR WDR D-WDR T-WDR Audio input/-output 2.711, RAW PCM Network Interface 3.72 2.71 7.72 Protocols HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DPCP, Unleast / Multicast, ONVIF IPv4/IPv6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTCP/IR PPDE, SMTP, DNS, UP-IP, FTP, APR, SNMP Pan Angle / Speed 360° (endless), 0.01° - 180°/sec Titl Angle / Speed 360° (endless), 0.01° - 180°/sec Presets 255 300 400 Tour Max. 12 Auto-Scan Max. 6 Privacy Masking Yes Motion Detection Yes	Lens				
Nilin. Illumination No.002 Lux (B/W), 0 Lux (IR on) Nes (Smart IR), max. 80m Yes (Smart IR), max. 200m	Day/Night		Mechanical		
DNR D-WDR T-WDR Audio input/-output 1/1 Audio Codec G.711, RAW PCM Network Interface 10 / 100 Base-T Alarm input/-output 7/2 2/1 7/2 Protocols HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTSP, DHCP, NTP, PPOE, Unicast / Multicast, ONVIF IPv4/IPv6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTCP/R PPOE, SMTP, DNS, UPnP, FTP, APR, SNMP Pan Angle / Speed 360° (endless), 0.01° - 180°/sec Tilt Angle / Speed -10° ~ 90°, 0.01° - 90°/sec Presets 255 300 400 Tour Max. 12 Auto-Scan Max. 12 Track Max. 6 Privacy Masking Yes Motion Detection Yes	Min. Illumination				
WDR D-WDR T-WDR Audio input/-output 1 / 1 Audio Codec G.711, RAW PCM Network Interface 10 / 100 Base-T Alarm input/-output 7 / 2 2 / 1 7 / 2 Protocols HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTCP/IP, DHCP, NTP, PPOE, Unicast / Multicast, ONVIF IPv4/IPv6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTCP/IP, PPOE, SMTP, DNS, UND, FTP, APR, SNMP Pan Angle / Speed 360° (endless), 0.01° - 180°/sec Tilt Angle / Speed -10° ~ 90°, 0.01° - 90°/sec Presets 255 300 400 Tour Max. 12 Auto-Scan Max. 12 Track Max. 6 Privacy Masking Yes Motion Detection Yes	IR	Yes (Smart IR), max. 100m	Yes (Smart IR), max. 80m	Yes (Smart IR), max. 200m	
Audio input/-output Audio Codec G.711, RAW PCM Network Interface 10 / 100 Base-T Alarm input/-output 7 / 2 2 / 1 7 / 2 Protocols HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, PDE, Unicast / Multicast, ONVIF IPv4/IPv6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTCP/R PPPoE, SMTP, DNS, UPnP, FTP, APR, SNMP Pan Angle / Speed 360° (endless), 0.01° - 90°/sec Tilt Angle / Speed -10° ~ 90°, 0.01° - 90°/sec Presets 255 300 400 Tour Max. 12 Auto-Scan Max. 12 Track Max. 6 Privacy Masking Yes Motion Detection Yes	DNR		Yes, 2/3DNR		
Audio Codec G.711, RAW PCM Network Interface 10 / 100 Base-T Alarm input/-output 7 / 2 2 / 1 7 / 2 Protocols HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTSP, DHCP, NTP, RTCP/R DHCP, NTP, PDE, Unicast / Multicast, ONVIF IPv4/IPv6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTCP/R PPPOE, SMTP, DNS, UPnP, FTP, APR, SNMP Pan Angle / Speed 360° (endless), 0.01° - 180°/sec Tilt Angle / Speed -10° ~ 90°, 0.01° - 90°/sec Presets 255 300 400 Tour Max. 12 Auto-Scan Max. 12 Track Max. 6 Privacy Masking Yes Motion Detection Yes	WDR	D-WDR		T-WDR	
Network Interface Alarm input/-output 7 / 2 2 / 1 7 / 2 Protocols HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, PDE, Unicast / Multicast, ONVIF Pan Angle / Speed Tilt Angle / Speed 7 / 2 1 Pv4/IPv6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTCP/R PPPOE, SMTP, DNS, UPnP, FTP, APR, SNMP 360° (endless), 0.01° - 180°/sec Tilt Angle / Speed 7 - 10° ~ 90°, 0.01° - 90°/sec Presets 3 00 4 00 Tour Max. 12 Auto-Scan Max. 12 Track Max. 6 Privacy Masking Yes Motion Detection	Audio input/-output	1/1			
Alarm input/-output 7 / 2 2 / 1 7 / 2 Protocols HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, PPoE, Unicast / Multicast, ONVIF Pan Angle / Speed 360° (endless), 0.01° - 180°/sec Tilt Angle / Speed -10° ~ 90°, 0.01° - 90°/sec Presets 255 300 400 Tour Max. 12 Auto-Scan Max. 12 Track Max. 6 Privacy Masking Yes Motion Detection Yes	Audio Codec		G.711, RAW PCM		
Protocols HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, PPoE, Unicast / Multicast, ONVIF Pan Angle / Speed 360° (endless), 0.01° - 180°/sec Tilt Angle / Speed 70° ~ 90°, 0.01° - 90°/sec Presets 255 300 400 Tour Max. 12 Auto-Scan Max. 12 Track Privacy Masking Yes Motion Detection HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTCP/R PPOE, SMTP, DNS, UPnP, FTP, APR, SNMP IPv4/IPv6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTCP/R PPOE, SMTP, DNS, UPnP, FTP, APR, SNMP 360° (endless), 0.01° - 180°/sec -10° ~ 90°, 0.01° - 90°/sec Max. 12 Max. 6 Privacy Masking Yes	Network Interface		10 / 100 Base-T		
Protocols DHCP, NTP, PPoE, Unicast / Multicast, ONVIF Pan Angle / Speed 360° (endless), 0.01° - 180°/sec Tilt Angle / Speed 70° ~ 90°, 0.01° - 90°/sec Presets 255 300 400 Tour Max. 12 Auto-Scan Max. 12 Track Privacy Masking Yes Motion Detection DHCP, NTP, PPoE, Unicast / Multicast, PPPoE, SMTP, DNS, UPnP, FTP, APR, SNMP 360° (endless), 0.01° - 180°/sec -10° ~ 90°, 0.01° - 90°/sec -10° ~ 90°, 0.01° - 90°/sec Max. 12 Yes	Alarm input/-output	7/2	2/1	7/2	
Tilt Angle / Speed -10° ~ 90°, 0.01° - 90°/sec Presets 255 300 400 Tour Max. 12 Auto-Scan Max. 12 Track Max. 6 Privacy Masking Yes Motion Detection Yes	Protocols	DHCP, NTP, PPoE, Unicast / Multicast,			
Presets 255 300 400 Tour Max. 12 Auto-Scan Max. 12 Track Max. 6 Privacy Masking Yes Motion Detection Yes	Pan Angle / Speed		360° (endless), 0.01° - 180°/sec		
Tour Max. 12 Auto-Scan Max. 12 Track Max. 6 Privacy Masking Yes Motion Detection Yes	Tilt Angle / Speed		-10° ~ 90°, 0.01° - 90°/sec		
Auto-Scan Max. 12 Track Max. 6 Privacy Masking Yes Motion Detection Yes	Presets	255	300	400	
Track Max. 6 Privacy Masking Yes Motion Detection Yes	Tour		Max. 12		
Privacy Masking Yes Motion Detection Yes	Auto-Scan		Max. 12		
Motion Detection Yes	Track		Max. 6		
	Privacy Masking		Yes		
	Motion Detection		Yes		
Micro SD-Card Yes (up to 64GB) Yes (up to 128GB)	Micro SD-Card	Yes (up to 64GB)	Yes (up	to 128GB)	
Operating Voltage 24VAC PoE+ / 12VDC PoE+ / 24VAC	Operating Voltage 24VAC PoE+ / 12VDC P		PoE+ / 24VAC		
Power Consumption 40W max. 25W max. 40W max.	Power Consumption	40W max.	25W max.	40W max.	
Protection Class IP66 IP66, TVS4000V	Protection Class	IP66	IP66, T	VS4000V	
Operating Temp -40°C - +60°C -55°C - +60°C	Operating Temp	-40°C - +60°C	-55°C	- +60°C	
Dimensions Ø 205mm x 332mm (H) 146.6×139.3×218.3mm Ø 226 × 362.8mm (H)	Dimensions	Ø 205mm v 332mm (H)	146 6×139 3×218 3mm	Ø 226 × 262 8mm (H)	
		Ø 20311111 X 33211111 (11)	110.0002107.000210.0111111	Ø 220 ^ 302.011111 (11)	



	12 MEGAPIXEL 360° FISHEYE
	ZN8-F12F18-NIR
Resolution	12MP
Image Sensor	1/1.7" Progressive Scan CMOS
Compression	H.265, H.264, MJPEG
Stream	Dualstream
Resolution options	Stream1: 4000*3000 @20fps, 4096*2160/ 3840*2160/ 3000*3000/ 2560*2560/ 1920*1080 @25fps Stream2: 1280*960/ 720*720/ D1 @25fps
Video Frame Rate	max. 25fps
FOV (horiz.)	360° FOV
Lens	1.83mm
Day/Night	Mech. Day/Night
Min. Illumination	0.009 Lux (Color, AGC on), 0 Lux (IR on)
IR LED	15m
DNR	2/3DNR
WDR	D-WDR
Audio input/-output	1 / 1 , Built-In Mic
Audio Codec	G.711, RAW PCM
Network Interface	10 / 100 Base-T
Alarm In-/Output	1/1
Protocols	IPv4/IPv6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTCP/RTP, PPPoE, SMTP, DNS, UPnP, FTP, APR, SNMP
HLC	Yes
Motion Detection	Yes
ROI	Yes
Micro SD Memory	Micro SD slot, max. 64GB
Operating Voltage	PoE / 12VDC / 24VAC
Power Consumption	8W max.
Protection Class	IP67
Operating Temperature	-40°C ~ 60°C
Dimensions	Ø 162mm × 52.2mm
Weight	700g
Certification	CE, FCC



GANZ Thermal Solutions

The wide range of thermal camera models from GANZ offer a wide variety of possible applications - not only in the area of security. ThermalCAMERAs do not require visible light; Influences such as fog or smoke, in which conventional CAMERAs no longer offer any visibility, are no hindrance to this.



GANZ^{G2} THERMAL

GANZ Thermal Solutions with Video Analytics

A special feature of this Thermalcameras series is the integrated and, as required, expandable GXi video analysis function. This will provide a more precise and significantly expanded monitoring function.

Furthermore, the ICE [™] (Image Contrast Enhancement) technology ensures an improved image quality whether you choose the 9 or 30Hz version.

Hybridcameras provide analog connections as well as integration into an IP system. Compatibility is guaranteed by Onvif Profile S / G.

	CHOISE OF THERMAL CAMERA MODELS WITH VIDEO ANALYTICS
ZNT1-HAT24G35A	Thermal Bullet Camera, 17um, 50 NETD, Resolution 640X480, 30 fps, 50° HFOV, NTSC/PAL, VCA
ZNT1-HAT24G22A	Thermal Bullet Camera, 17um, 50 NETD, Resolution 640X480, 30 fps, 37° HFOV, NTSC/PAL, VCA
ZNT1-HAT24G25A	Thermal Bullet Camera, 17um, 50 NETD, Resolution 640X480, 30 fps, 18° HFOV, NTSC/PAL, VCA
ZNT1-HBT24G35A	Thermal Bullet Camera, 17um, 50 NETD, Resolution 640X480, 9 fps, 50° HFOV, NTSC/PAL, VCA
ZNT1-HBT24G22A	Thermal Bullet Camera, 17um, 50 NETD, Resolution 640X480, 9 fps, 37° HFOV, NTSC/PAL, VCA





GANZ Thermal Solutions with Temperature detection

The Thermalcameras of the GANZ Genstar series enable exact temperature display - and this in up to eight freely definable zones.

Thanks to the high sensitivity and resolution, the accuracy and speed of the temperature display is given. It does not matter whether module, bullet, box or PTZ:

The right design and focal length are available for almost every application.

	CHOISE OF THERMAL CAMERA MODELS WITH TEMPERAT MEASUREMENT
ZNT8-B0F8-TAS	Thermal Bullet Camera, 20um, 40 NETD, Resolution 400*300, 30 fps, 8mm
ZNT8-B0F15-TAS	Thermal Bullet Camera, 20um, 40 NETD, Resolution 400*300, 30 fps, 15mm
ZNT8-B0F25-TAS	Thermal Bullet Camera, 20um, 40 NETD, Resolution 400*300, 30 fps, 25mm
ZNT8-B0F35-TAS	Thermal PTZ-Camera, 20um, 40 NETD, Resolution 400*300, 30 fps, 8mm
ZNT8-B0F50-TAS	Thermal PTZ-Camera, 20um, 40 NETD, Resolution 400*300, 30 fps, 25mm
ZNT8-P0M75-TAX32	Thermal / Opticale PTZ-Camera, 20um, 40 NETD, Resolution 400*300, 30 fps, 75mm / 10mm - 320mm





	Model	HD colour Day/Night				
Camera	Image Sensor	2.1 Megapixel 1/2.8" CMOS				
	Max. Resolution & Bildrate	1920 x 1080p @ 25fps				
	Scansystem	Progressive scan				
	Min. Illumination	Color: 0.5 Lux B/W: O.01 Lux ICR on				
	S/N Ratio	52dB				
	ICR	Auto / manual				
	WDR	Yes				
	DNR	3D				
	BLC	An / Aus				
	Privacy Masking	Yes				
	Protocols	CBC C-Dome, Overview, BBV485, Pelco D/P, Samsung SCC-3000 , Sensormatic, Forward Vision MICI-300, VCL, Vicon, Pelco CoaxitronTM, BBV UTC				
Lens	Lens	30:1, f = 4.3 to 129mm, F1.6 - F5.0				
	F.O.V. (Field of View)	65.1 - 2.34°				
	AUTOFOCUS	Yes				
	Iris	Auto / manual				

	Model	FHD - IP
ncoder	Video Compression	H.264
	Encoder Resolution	1080p / D1
	FPS	25
	Dualstream	Yes
	Protocols	TCP/IP, HTTP, DCHP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, UPnP, SNMP, FTP, QoS, HTTPS, IPv6
	Security	Password
	ONVIF	Yes

Certification and Approvals
CE-EN50130-4, EN61000-3-2 & 3-3.EN55022, EN60950-1
UL
FCC part 15
IK10
IP - IEC60529
Vibration IEC60068-2-6
Shock IEC60068-2-7
Sea spray BS EN 60068-2-52
Wind shear BS-6399-2

Model Number	Description		
LZ-NDNC40X	SD Analogue 40x, ¼" Super HAD II CCD, 670TVL, Wiper		
LZ-NDNC40X-IR	SD Analogue 40x, ¼" Super HAD II CCD, 670TVL, Wiper, with IR & White Light Illuminator		

Model Number	Description	0.000		
LZ-NIJCB	Intelligent Junction Box	1	1.1	0
LZ-NSJCB	Standard Junction Box	4	1	174014110
LZ-10MUC	10m Cable	LZ-CMB	LZ-PMB	LZ-10MUC
LZ-WMB	Universal Wall Bracket	_		
LZ-UCS	Universal Column Bracket	7	E-	
LZ-SNB	Swan Neck Bracket	علم	4	
LZ-CMB	Corner Mount Bracket	17.1166	LZ-WMB	LZ-SNB
LZ-PMB	Mid-Pole Mount Bracket	LZ-UCS	LZ-VVIVIB	LZ-3IND
	•			

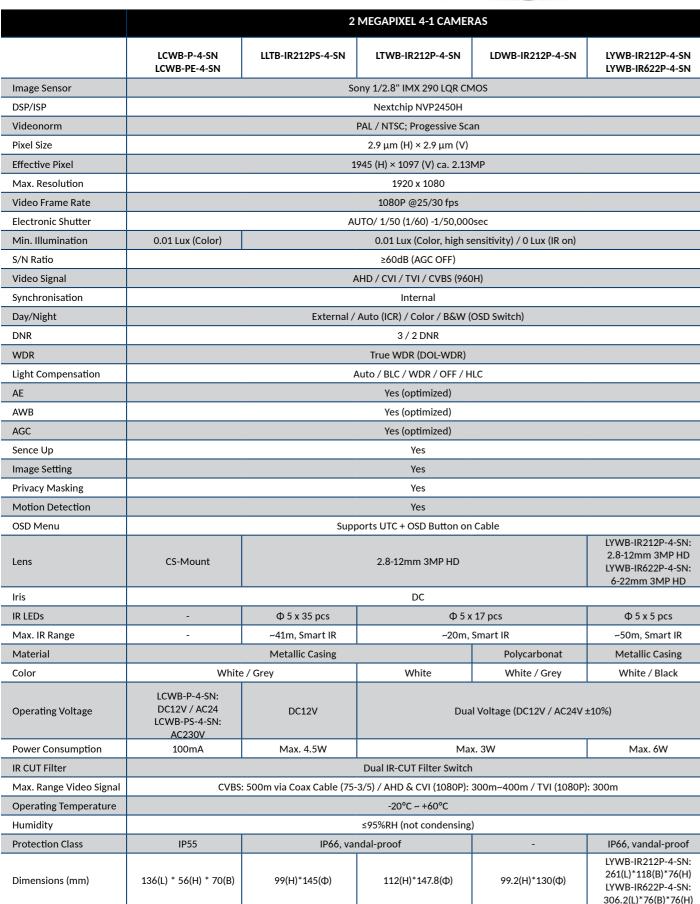






265g













DIGIMASTERMP

Modell		HYBRID RECORDER							
		DR-4M51-A-V	DR-8M52-A-V	DR-16M52-A-V	DR-16M55-RA				
Channels		4ch	8ch	16ch	16ch				
) (960) / AHD, TVI (HD, FHD) / 3, 4, 5		SD (960) / AHD, TVI (HD, FHD)				
	Input Signal	SI	3, 4, 5MP, 4k15 (TBD)						
					VGA / HD				
Monitoring	Main Monitor	HDMI / VGA	HDMI / VGA	HDMI / VGA					
	Spot Out		1 (CVBS)	I	(main/HD spot selectable) 2 (CVBS)				
	Loop Through	-	-	-	YES				
	Motion Detection		Y	ES					
	Input Signal	4CH (10KOhm, 2.8Vpp)		4CH (10KOhm, 2.8Vpp)	16CH (10KOhm, 2.8Vpp)				
Audio	Output Signal	1CH (6000)	hm, 2.8Vpp)	1CH (600Ohm, 2.8Vpp)	1CH (6000hm, 2.8Vpp)				
	Codec	G.711 ulaw							
	Codec	H.264 Up to 96FPS@ 5MP							
		11. 1. 405050 5140	11 1 0/FDCO 514D		11. 1. 1/05000 5140				
		Up to 48FPS@ 5MP	Up to 96FPS@ 5MP	Up to 120FPS@ 4MP	Up to 160FPS@ 5MP				
		Up to 60FPS@ 4MP	Up to 120FPS@ 4MP	Up to 144FPS@ 3MP	Up to 240FPS @ 4MP				
	Decarding Det-	Up to 72FPS@ 3MP	Up to 144FPS@ 3MP	Up to 240FPS@ FHD	Up to 240FPS @ 3MP				
Recording	Recording Rate	Up to 120FPS@ FHD	Up to 240FPS@ FHD	(2/3/4/5MP when Noise Filter	Up to 480FPS @ FHD				
		Up to 120FPS@ 2CIF	Up to 240FPS@ 2CIF	setting is Off)	Up to 480FPS @ 2CIF				
		-							
		Up to 120FPS@ CIF	Up to 240FPS@ CIF	Up to 480FPS@ 2CIF	Up to 480FPS@ CIF				
				Up to 480FPS@ CIF					
	Recording Resolution								
	Alarm In		18CH (16CH+2CH), Pulled up to 5V 10KOhm						
Alarm I/O	Alarm Out		8CH, RELAY (125VAC, 60VDC) 8CH, O.C. (Pulled up to 5V via 1KOhm)						
	Internal HDD	1EA	2EA	2EA	Max 5EA w/ RAID5				
Storage	External Storage		-		eSATA, NAS(FTP Server, for Backu				
	Internal ODD		-						
	USB		3 ports (2Front + 1 Rear)						
	RS-485 RS-232		2						
nterfaces	K3-232		<u>-</u>	I	1 (LAN) + 1 (WAN) -				
	LAN	1x 10 / 100Mbps	1x 10 / 100 / 1000Mbps	1x 10 / 100 / 1000Mbps					
	Remote Control		V	es	10 / 100 / 1000Mbps				
	Signal Switch								
TC	Watchdog	- Yes							
	Cooling Fan	-		2					
	Power Supply	12V/2A	12\	DC12V, Adaptor, 7.5~10A, 100~200					
Power	** *				AC, 50-60Hz				
-nuiranmant	Power Consuption Temperature / Humidity	6W max. without HDD	13W max. without HDD		21W max. without HDD				
nvironment	Dimension (mm)	260(W) x 262.6(D) x 44(H)		10 ~ 90% NC 4.6(D) x 44(H)	430(W) x 367(D) x 88.4(H)				
Chassis	Net Weight(kg)	1.54	2.52	2.58	6.2				
	Gross Weight(kg)	2.28	3.63	3.69	7.3				
Certification	UL, CUL, FCC, CE		CE, FCC	C, c-Tick					
		120FPS@2MP	240FPS@2MP	480FPS@2MP					
	Display Rate	54FPS@3MP	108FPS@3MP	216FPS@3MP (half)	400555/100555				
		120FPS@4MP (half)	240FPS@4MP (half)	480FPS@4MP (half)	480FPS/400FPS				
			160FPS@5MP (half)	320FPS@5MP (half)					
		80FPS@5MP (half)	1920x1080 (HD Display, VGA)	JZOI TOWNIY (Hall)	4K/1080p/720p/VGA,				
Annitorina	Display Resolution				Dual Display (Mirroring)				
Monitoring	Display Mad-	1 4							
	Display Mode Sequence	1, 4 1, 4, 6, 8, 9 1, 4, 6, 8, 9, 16 Programmable Sequence							
	Digital Zoom			es					
	Covert Cameras	Yes							
	Camera Color Control	Yes (Contrast, Color, Tint, Brightness)							
	PTZ Camera	Yes							
		Yes							

450g













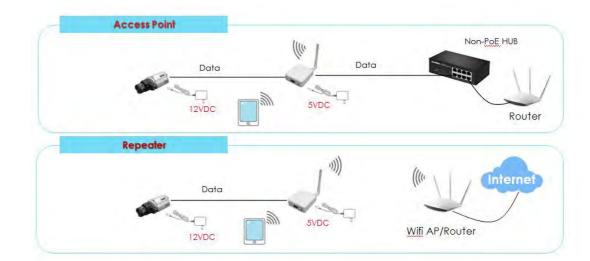
Modell		HYBRID RECORDER							
		DR-4M51-A-V	D	R-8M52-A-V	DR-16M52-A-V	DR-16M55-RA			
	Schedule Method	Daily / Weekly / Each Hour							
	Programmable for Ch	Yes							
	Manual Recording	Yes							
	Post-Event Recording			5 / 10 / 15 / 20	/ 30 / 60 / 180 SEC				
	Event Recording				Yes				
Record	Pre-Event Recording			0/1/2/3/4	1/5/10/15 SEC				
	Panic Recording				Yes				
	Event Logging			Yes (Motion, A	arm, Panic, Vloss)				
	System Logging	Yes (System On/Off	f, Time Changed, HD	D / E-Mail Operations, System (Operations)			
	Setup Logging	Yes (Setup Changed)							
	Remote Logging	Yes (User, IP Address, Remote Operations)							
Search	Playback RATE			Same as R	ecording Rate				
& Playback	Playback SPEED			x1, x2, x4, x	8, x16, x32, x64				
x riayback	Search TYPE			Calender / Even	:/ Time / Thumbnail				
	Archiving Devices			USB Me	emory, FTP				
	Remote Archiving			Yes (WEB	RA, VMS, FTP)				
	Snapshot Archiving				Yes				
	Data Reserving				Yes				
	Reserved Data List				Yes				
Archiving	Management								
	Backup Data Format	AVI, RAW							
	Watermark	Yes							
	Watermark Verification	Yes							
	Archived Data Playback	Yes							
	Max. Connections	32 Users							
	DHCP				Yes				
	DDNS	1			Yes				
	Transmission Rate	Max 120 FPS	N	Max 240 FPS	Ma	x 480 FPS			
	Bandwidth Control				Yes				
	Web Browser Access				Yes				
	Remote Function	Ren	note Monitorir	ng / Plavback / Archi	ving / Setup / PTZ Control. / He	alth Check			
	VMS Support	Remote Monitoring / Playback / Archiving / Setup / PTZ Control. / Health Check Yes							
	Two-Way Audio	Yes							
Network	PC Based Remote Agent								
VIII	Smartphone Application	Yes Yes (iOS, Android)							
	Web Based Remote Agent								
	SDK	Yes (Windows*, LINUX*, MAC OS/X*, ETC.) Vor (HTTP, PTSP, Protocol Page)							
	Auto Router Port Forwarding	Yes (HTTP, RTSP Protocol Base)							
	<u> </u>	Yes							
	Dual Streaming	Yes							
	FTP Client	Yes (For Archiving)							
	E-Mail	Yes (SMTP Client)							
	Authority Control	ADMIN / MANAGER / USER							
	Protocols				DNS, DHCP, UPnP (Router Port				
vent	Туре	Video Loss	Event / Event I	Notification / Event	Pop-Up / Motion Detection / M	otion Sensor Area			
	Language	Multi-Language							
	Operating System	LINUX*							
	DST Setup	Yes							
	HDD Temperature Check	Yes (Dpends on HDD Specifications)							
TC	HDD S.M.A.R.T Check	Yes							
	Auto HDD Recovery	Yes							
	Setup Iport / Eexport								
		Yes							
	PTZ Control	Yes (Pan / Tilt / Zoom / Focus / Iris / Preset)							



	WIRELESS SERVICE EQUIPMENT			
	ZW-N22F			
Network	2x RJ-45 PoE			
WLAN	IEEE802.11b/g/n AP / Repeater / Client mode			
USB	1			
Security	WEP / WPA-PSK / WPA2-PSK			
Operating Voltage	48VDC / Micro USB 5V in			
Operating Temperature	0°C - 50°C			
Accessories	Power Supply / Antenna			
Dimensions (WxHxD)	75 x 75 x 33mm			

Examples:



















	MONITORS						
	LME17E-III	LME19-III	LED2225W	LME23.6SP-2	LME32		
Video Norm	PAL / NTSC						
Screen Size	17"	19"	21.5"	23.6"	32"		
Resolution	12	80 x 1024		1920 x 1080			
Aspect Ratio		4:3		16:9			
Displayable Colors			16,7 Million				
Response Time			5 ms		8.5 ms		
Angle of View (L/R)	17	0° / 160°	170° / 160°	80° / 85°	88° / 88°		
Luminosity	250 cd/m²	300 cd/m²	250 cd/m²	300 cd/m ²	400 cd/m²		
Contrast Range	1	1000 : 1	5.000.000:1 (DCR)	5000):1		
Video Input	1x BN0	C, VGA, HDMI	VGA, HDMI	2x BNC, VGA, HDMI	2x HDMI, BNC, VGA		
Video Output		1x BNC	-	2x BNC	BNC		
Audio Input	PC Stereo, RCA						
Audio Output	-		RCA				
Speaker	2x 2 Watt		2x 1.5 Watt				
OSD Menu	English, German, French, Italien, Spanish, Russian, Turkish, Japanese, Polish						
3D Comb Filter	Yes						
De-Interlace	Yes						
PIP / POP			Yes / Yes				
VESA Connection	75 mm x 75 mm		100n	200mm x 100mm / 200mm x 200mm			
Operating Voltage		12 VDC (P	ower Supply 230V)	AC 100-240V 50/60HZ			
Power Consumption	Power Consumption 22 Watt 25 Watt		21 Watt	33 Watt	70 Watt		
Operating Temperature -10°C - 50°C		0°C - 50°C	0°C - 40°C				
Weight	2.7 kg	3.1 kg	2.3kg	3.2 kg	12.1 kg		









THE WORLD STANDARD FOR LENSES.

If their application requires a perfect look, we offer you the best lense.

For more than 40 years, Computar® has set the industry benchmarks for innovation and quality, including intelligent traffic systems, machine vision, defense, security and life sciences.

Whatever your specific needs are, Computar has the lens that fits.









Raytec is the world's leading supplier of LED lighting for security and protection. Offered are a range of LED lighting to create a safer global envorinment, whether in combination with

Surveillance cameras or as general area lighting.

Raytec's drive is to increase the security of any location at night and improve the performance on any CCTV system under dark. Raytec products combine state-of-the-art technologies with the highest quality to deliver outstanding performance and reliability.









Since 1986, Videotec has been designing and manufacturing state-of-the-art products for the professional video surveillance industry.

Over the years, with a team of well-trained and motivated young managers, Videotec has made a small company one of the most important suppliers to the security industry in Europe.

With the advancement of the requirements of a constantly evolving market is concentrated Videotec is committed to the creation of increasingly advanced integrated products for the management and management of surveillance cameras, both analog and network-based, for monitoring difficult external environments.









The newly established NVT Phybridge is the leading enterprise in the area of PoE (Power over Ethernet) with large range. As a result, IP connections are child-friendly even at long distances.

NVT's large-scale CHARIOT series switches help customers migrate to an IP-based network and transform the existing or new infrastructure into a powerful IP line.

NVT is a global technology company based in North America.



Germany

CBC (Europe) GmbH Germany Hansaallee 191 D - 40549 Düsseldorf Tel.: +49 (0)211 530 67 - 0 E-Mail: info@cbc-europe.com www.cbc-cctv.com www.computar.com

Italy

CBC (Europe) S.r.l.
Via Umberto I, 69
20814 Varedo (MB)
Tel.: +39 0362 365079
E-Mail: sales@cbceurope.it
www.computarganz.it
www.computar.com

Russia

CBC Co., Ltd.
MOSCOW Representative Office
Office 503B, Entrance#3, World Trade
Center, 12, Krasnopresnenskaya
nab, Moscow, 123610, RUSSIA
Tel.: +7(495)258-21-61
E-Mail: support@cbc.ru
www.cbc.ru
www.computar.com

Portugal, Spain, RPA

CBC (Europe) UK Branch - Portugal Rep. GSM: +351 969308436 E-Mail: pcotrim@cbcuk.com www.computar.com

UK

CBC (Europe) GmbH UK Branch Churchill House, Suite 81, 137~139 Brent Street, London Tel.: +44 (0) 20 8457 2618 E-Mail: uksalesorders@cbcuk.com www.cbc-europe.com www.computar.com

Poland

CBC (Poland) Sp. z o.o. Anny German 15, 01-794 Warszawa Tel.: +48 22 633 90 90 E-Mail: info@cbcpoland.pl www.cbcpoland.pl www.computar.com

France

CBC (EUROPE) GmbH – France Rep. Tél: +04 42 74 78 71 GSM: +06 07 02 09 29 E-Mail: djerbi@cbc-europe.com fr.cbc-cctv.com www.computar.com

CENTRAL AND EASTERN EUROPE, BALKANS, TURKEY

CBC (Europe) GmbH – Czech Rep. GSM: +420 777 830 730 E-Mail: rosa@cbc-europe.com www.computar.com