

PRODUCT GUIDE 2020

cbc-cctv.com

Security Solutions

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.

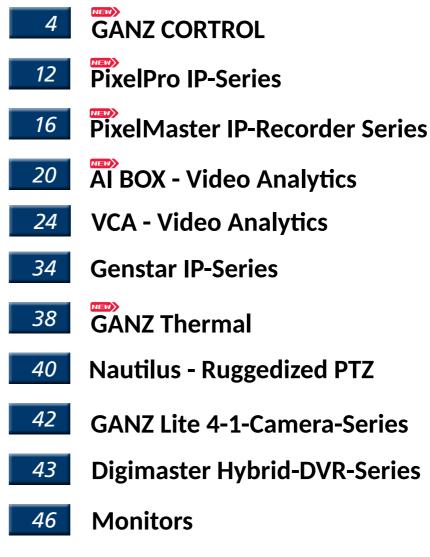
The brand GANZ, which is regarded as the trademark for all electronic products of the CBC Group, was introduced in 1999. The company unites the brand and electronic products under one roof. The product spectrum ranges from lenses, cameras, infrared lighting, protective housings and monitors down to video 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 ca. 3,000 employees. There are now more than 40 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.

GANZ Security Solutions

PRODUCT GUIDE

CONTENT





Ganz[®] is a registered trademark of the CBC Group.



CORTROL THE NEXT GENERATION IN CENTRAL MANAGENT SOFTWARE











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



Failover 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

cortrol.eu



Face Recognition

Video Analytics

Available in 3 Editions:

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.

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).

GANZ CORTROL 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.

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

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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:



Use the full power of your hardware

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

Modules for advanced video analytics, face and license plate recognition



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



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



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



tegrations and API

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

GANZ CORTROL MODULE:



LPR Module 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.



actionable intelligence. 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 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

VCA Module

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

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

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
Video Management	Latest GANZ CORTROL Version

CORTROL ECO 8 SERVER SOLUTION

Recording performance

• 48 Channel • max. 8 HDD





Chassis	2U Supermicro SC825TQC-R740LPB	
Motherboard	Single Socket Supermicro X10SRL-F	
Processor	Intel [®] XEON DP E5-2620v4 2,10 GHz (2133 MHz 8Cores/16	Threads)
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	IIII
Video Management	Latest GANZ CORTROL Version	

48 channel @ 4MP (12Mbps) 600Mbps

CORTROL ECO 16 SERVER SOLUTION

• 48 Channel • max. 16 HDD





CORTROL ECO 24 SERVER SOLUTION

Recording performance
Chassis
Motherboard
Processor
Memory
USB
RAID Card
DVD
OS
Video Management

Recordi

Chassis

Mothe

Process

Memor

RAID Ca DVD

USB

OS

48 channel @ 4MP (12Mbps) 600Mbps 4U Supermicro SC846BE1C-R1K28B Single Socket Supermicro X11SSL-F Intel® XEON UP E3-1230v6 3.50 GHz 4 Cores / 8 Threads SIM DDR4-RAM SVR 8GB PC2400 Samsung ECC Broadcom MegaRAID 9361-4i

DVD-RW Lite-On IHAS124-14 Win2016 Essentials OEM Latest GANZ CORTROL Version

CORTROL ECO 36 SERVER SOLUTION

ing performance	96 channel @ 4MP (12Mb
	4U SuperChassis 847BE1C
board	Single Socket Supermicro
sor	Intel® Xeon® E5-2620V4 P (3.00GHz,20MB,8.00GT Q
У	SIM DDR4-RAM SVR 8GB I
	5x USB 3.0 ports, 6x USB 2
ard	Broadcom MegaRAID 936
N SAME	DVD-RW NB SATA ultra-sli
TREA	Win2016 Essentials OEM
/Janagement	Latest GANZ CORTROL Ver

CORTROL **CLIENT SOLUTION**

• 2 or 4 Monitors

	Solution for 2 Monitors - GCCS
Operating System	Microsoft®
Processor	Intel® Core i5-7500 3,40 GHz (GPU HD630) 65
Memory	
Optical Drive	DVD-R
Ports	10 x
Interfaces	4x USB 3.0, 2x USB 2.0, 2x PS/2, LAN, Audio
Graphics	Graf PCIe nVidia GT730 Silent Asus 2GB DDR3
Video Ports	VGA, D ⁱ
Storage	SSD N
Network Interface	Intel® i21
Accessory	Keyboard, N

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• 48 Channel • max. 24 HDD

- 5x USB 3.0 (2 rear + 2 via header + 1 Type A), 6x USB 2.0 (2 rear + 4 via headers)



96 Channel • max. 36 HDD

- ps) >800Mbps
- -R1K28LPB
- X10SRi-F
- rocessor 2.10GHz PI,85W) 8C/16T
- PC2400 Samsung
- 2.0 ports 2x @ rear panel

nline 9,5 mm LiteOn DU-8AESH

sion











						Auc	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
<u>NR-4F81-4PA-V</u>	4	4K / 25fps	2x Gbit	4x	max. 1	-	4IP / 1	1/1
<u>NR-8F82-8PA-V</u>	8	4K / 25fps	2x Gbit	8x	max. 2	-	8IP / 1	1/1
<u>NR-16F82-8PA-V</u>	16	4K / 25fps	2x Gbit	8x	max. 2	-	16IP / 1	1/1
<u>NR-16F85-8PRA</u>	16	4K / 25fps	2x Gbit	8x	max. 5	1/1	16IP +2 / 1	1/1

	8 MEGAPIXEL BULLET	4 MEGAPI	GAPIXEL 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	ris	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	۸, Smart IR	4ea / 15m, smart IR			
Min. illumination	0.02Lx / F	1.4 (color)	0.1Lx / F1.2 (color)			
DC 12V		Yes				
AC 24V		-				
PoE 48V		Yes				
PoE class	clas	ss-3	class-2			
Heater		-	1			
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)	x 105.37 (base)	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	e Streaming (2 x H.264/H.265 + 1 x	Jpeg)			
Video Analytics		Optional				
SDK		HTTP based API, Onvif Profile S				





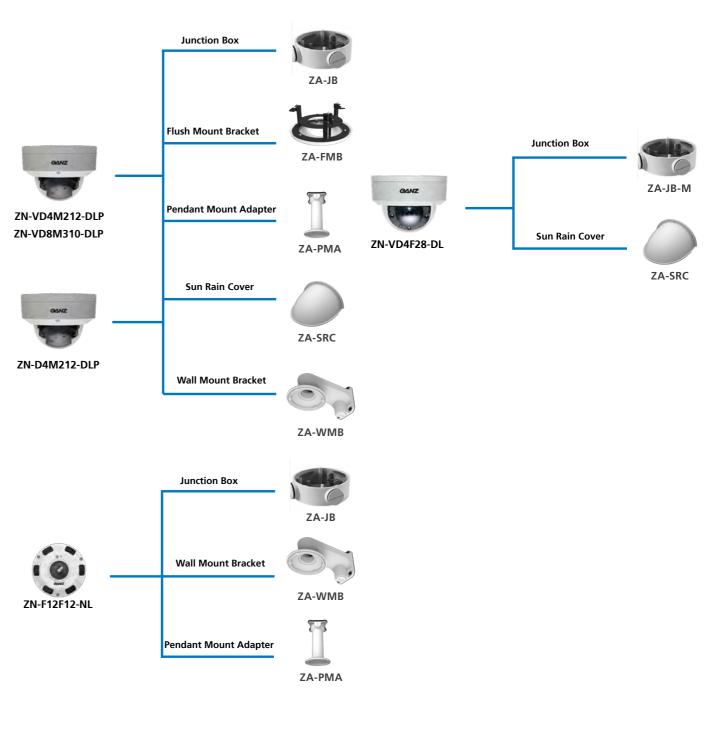
Pixe Pro





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	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-N	
SoC	Hi3519v101		Hi3516D		Hi3519V101	
Max res & Frame rate	3840 x 2160 / 25fps		2592 x 1520 / 25fps		4000 x 3000 / 25	
Sensor	IMX334		1/3" OV4689		IMX226	
Lens	MFZ 3.6 ~ 10mm	MFZ 2.8 /	~ 12mm	f=2.8mm	1.2mm comput lens	
Iris		P-iris		fixed	iris	
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, Sma	art IR	-	Smart IR	5m	
Min. illumination		().1Lx / F1.2 (color)			
DC 12V			Yes			
AC 24V		Yes		-		
PoE 48V			Yes	·		
PoE class	class-3		cla	iss-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	e-asting	Polycarbonate	Aluminum d	liecasting	
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	IP67 - IP67				
3D DNR			Yes			
WDR	tWDR					
Image Compression	H.264 / H.265 (optional)					
VBR+			Yes			
Streaming	Triple Streaming (2 x H.264/H.265 + 1 x Jpeg)	Triple Streaming (2 x H.264/H.265 + 1 x Jpeg)				
Video Analytics	Yes	Optional -			Optional	
SDK	HTTP based API, Onvif Profile S					







ZA8-JBMP-2

IP CAMERAS

Pixe /- ro

Pole Mount



ZA8-CBK627B

PIXEL MASTER Pixelmaster - IP Recorder





		NETWORK VIDEO RECORDER								
		NR-4F81-4PA-V	NR-8F82-8PA-V	NR-16F82-8PA-V						
Channels	INPUT SIGNAL	4ch 4 x IP Camera (Max 4k)	8ch 8 x IP Camera (Max 4k)	16ch 16 x IP Camera (Max 4k)						
	MAIN MONITOR	4 x IP Calliera (Max 4k)	VGA / HD Display	10 X IP Calliela (MaX 4K)						
Ionitoring	MAIN MONITOR RESOLUTION	4k/30n / 1080	p / 720p / SXGA	4k/60p / 1080p / 720p / SXGA						
	SPOT	10,000,1000	-	1						
	MOTION DETECTION		-							
	INPUT SIGNAL	4 CH (From IP Camera)	Yes (From IP Camera) 8 CH (From IP Camera)	16CH (From IP Camera)						
	OUTPUT SIGNAL		-							
udio	MICROPHONE	· · · · · · · · · · · · · · · · · · ·								
	CODEC	G.711								
	CODEC		H.264 (BP, MP, HP) /H.265							
ecording	REC. RATE		MAX. 30 FPS@8MP / CH (Depend on IP Camera)	1						
	REC. RESOLUTION		MAX. 4k (Depend on IP Camera)							
	ALARM IN	4 CH (IP) (Depend on IP Camera) / 2IN	8 CH (IP) (Depend on IP Camera) / 2IN	16 CH (IP) (Depend on IP Camera) / 2IN						
larm I/O	ALARM OUT	4 CH (IP) (Depend on IP Camera)	8 CH (IP) (Depend on IP Camera)	16 CH (IP) (Depend on IP Camera)						
	ALARMOOT	+ 1 RELAY (Internal)	+ 1 RELAY (Internal)	+ 1 RELAY (Internal)						
	INTERNAL HDD	1EA (SATA)	264	A (SATA)						
FORAGE	EXTERNAL STORAGE		-							
	INTERNAL ODD		-							
	USB		2ports							
	RS-485		-							
ITERFACES	RS-232		-							
	LAN	4 (IP Camera, POE) + 1 (WAN)	8 (IP Camera, POE) + 1 Giga (WAN)	8 (IP Camera, POE) + 2Giga (WAN/LAN) + NR-						
	REMOTE CONTROL		Yes							
	NETWORK TOTAL PoE POWER									
UB	MANAGEABLE by IPX									
	ADAPTOR		-							
	WATCHDOG		Yes							
ſC	COOLING FAN	1EA								
	POWER SUPPLY	48V adaptor								
OWER	POWER CONSUMPTION		TBD							
	TEMPERATURE		0°C ~ 40°C							
NVIRONMENT	HUMIDITY	10 ~ 90% NC								
HASSIS	DIMENSION	1U								
HA3313	WEIGHT		TBD							
ERTIFICATION	Туре		FCC, CE, C-Tick Up to 240fps/200fps (Realtime)							
	DISPLAY RATE	Up to 120fps/100fps (Realtime)	Up to 480fps/400fps (Realtime)							
	DECODING RATE	Max Total	60fps @ 8M	Max Total 120fps @ 8M						
	DISPLAY RESOLUTION DISPLAY MODE	1,4	2160p / 1080p / 720p / SXGA 1,4,6,8	1,4,8,9,16						
	SEQUECE	±,-т	Programmable Sequence	1,1,0,7,10						
	DIGITAL ZOOM		Yes							
IONITORING	COVERT	Yes								
	CAMERA COLOR CONTROL	Yes (CONTRAST, HUE, TINY, BRIGHTNESS) (Depend on IP Camera)								
	CAMERA IMAGE CONTROL	Yes (WH	TE BALANCE, EXPOSURE, FLICKERLESS) (Depend or	n IP Camera)						
	AUDIO MONITORING		Yes (From IP Camera)							
	MICROPHONE PTZ CAMERA SUPPORT		Yes (MIC to IP Camera)							
	VIDEO COMPRESSION		Yes							
			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								
CORD	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	1, 4, 9, 16							
	PLAYBACK RATE	1, 4, 9 1, 4, 9, 16 1, 4, 9, 16 Up to 120FPS Up to 240FPS Up to 480FPS								
	PLAYBACK SPEED		x1, x2, x4, x16, x32, x64							
	CALENDAR SEARCH	X1, X2, X4, X10, X32, X04 Yes (2008/1/1 - 2035/12/31)								
ARCH &										
AYBACK	EVENT SEARCH		Yes							
	THUMBNAIL SEARCH		Yes							
	BOOKMARK SEARCH		Yes							
	INSTANT PLAYBACK		Yes							
	PLAYBACK ZOOM	Yes								

			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				
ARCHIVING	RESERVED DATA LIST MANAGEMENT		Yes				
	BACKUP DATA FORMAT		AVI, RAW				
	WATERMARK		MD5				
	WATERMARK VARIFICATION		Yes				
	ARCHIVED DATA PLAYBACK		Yes				
	MAX. CONNECTIONS	32 USERS					
	DHCP	Yes					
	HTTPS		Yes				
	SSL		Yes				
	DDNS TRANSMISSTION RATE	MAX 120 fns(Depend on ID Comoro)	Yes MAX 240 fps (Depend on IP Camera)	MAX 480 fpc (Depend on IB Compare)			
	BANDWIDTH CONTROL	MAX 120 fps(Depend on IP Camera)	Yes	MAX 480 fps (Depend on IP Camera)			
	WEB BROWER 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				
	PC BASED REMOTE AGENT		Yes				
NETWORK	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, RT	CP,S MTP, NTP, HTTP, FTP, DDNS, DHCP, uPNP(Rout	er Port Forwading), HTTPS, SSL			
	WIFI		-				
		Yes					
	VIDEO POPUP	Yes					
	ALARM SENSOR EVENT		Yes Yes				
	VIDEO LOSS EVENT		Yes				
EVENT & ACTIONS	MOTION DETECTION EVENT		Yes				
	MOTION SENSOR AREA		DEPEND ON IP CAMERA				
	DISK EVENT		Yes				
	SYSTEM EVENT		Yes				
	NETWORK EVENT		Yes				
	DISK S.M.A.R.T CHECK		Yes(DEPEND ON HDD SPEC)				
TORAGE	EXTERNAL STORAGE		Yes (eSATA, NAS(for Backup))				
	AUTO DISK RECOVERY		Yes				
	DELETING PARTIAL DATA		Yes				
JSER	GROUP AUTHORITY		Yes(ADMIN/MANAGER/USER)				
	OPERATING SYSTEM		LINUX®				
	F/W UPGRADE		Yes (USB / NETWORK)				
	SETUP IMPORT/EXPORT		Yes				
TC	KEYBOARD CONTROLLER		Yes				
	BACKUP VIEWER		Yes (Multi Channel Playback Support)				
	POS / Text-In Device						

		TER
4K	awar	4K





		NR-16F85-8PRA (w/ external Hub NR-8P)
Channels		16ch
	Input Signal	16 x IP Camera (Max 8MP)
	Main Monitor	VGA / HD Display
Monitoring	Main Monitor Resolution	2160p / 1080p / 720p / SXGA
	Spot	1
	Motion Detection	Yes (From IP Camera)
	Input Signal	16 CH (From IP Camera)
Audio	Output Signal	104
	Microphone	104
	Codec	6.711
	Codec	H.264(BP,MP,HP)/H.265
Recording	Recording Rate	MAX. 30 FPS@BMP/CH (Depend on IP Camera)
	Recording Resolution	MAX. 8MP (Depend on IP Camera)
	Alarm In	16 CH (IP) + 2 CH (Internal)
Alarm I/O		(Depend on IP Camera)
	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
nterfaces	RS-232	1
	LAN	8 (IP Camera, POE(802.3at)) + 1 (LAN) + 1 (WAN)
	Remote ControlL	Yes
	Network	2GE + 8GE(PoE) (16ch)
	Total PoE Power	72W
Hub	Manageable by IPX	ARM9 interior (16ch)
	Adaptor	48V, 96W
	Watchdog	Yes
ETC	Cooling Fan	1EA
	Power Supply	SMPS 12V 100W + SMPS 52V 100W
Power	Power Consumption	15W max. without HDD
	Temperature	0°C ~ 40°C (32°F-104°F)
Environment	Humidity	10~90% NC
	Dimension	2U (430 x 367 x 88.4)
Chassis	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	Programmable Sequence
Monitoring	Digital Zoom	Yes
Monitoring	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, R\$485)
	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
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
	Playback Rate	Up to 480FPS
	Playback Speed	x1, x2, x4, x16, x32, x64
	Calendar Search	Yes (2008/1/1 - 2035/12/31)
Seach & Playback	Event Search	Yes
	Thumbnail Search	Yes
	Bookmark Search	Yes
1	Instant Playback	Yes
	Playback Zoom	Yes
	Snapshot	Yes (JPEG)
	Shapshot	163 (110)

		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	Yes
	HTTPS	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
etwork	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	- Vec
	Alarm Out Event Notification	Yes
	Video Pop-Up	Yes
	Alarm Sensor Event	Yes
vent & Actions	Video Loss Event	Yes
	Motion Detection Event	Yes
	Motion Sensor Area Disk Event	Depends on IP Camera Yes
	System Event	Yes
	Networ Event	Yes
	HDD S.M.A.R.T Check	Yes (Depends on HDD Specifications)
	External Storage	Yes (eSATA, NAS(for Backup))
torage	Auto Disk Recovery	Yes
	Deleting Partial Data	Yes
ser	Group Authority	Yes (ADMIN/MANAGER/USER)
	Operating System	LINUX®
	F/W Upgrade	Yes (USB / NETWORK)
	Setup Import / Export	Yes
тс	Keyboard Controller	Yes
	Backup Viewer	Yes (Multi Channel Playback Support)
	POS / Text-In Device	

ACCESSORIES

ZA-RM1U Model Product type Rack Mount for 1U

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IP RECORDER

AK
4K
NETWORK VIDEO RECORDER
NR-16F85-8PRA (w/ external Hub NR-8P)
USB Memory, FTP
Yes (WEB RA, VMS, FTP)
Yes
Yes
Yes
AVI, RAW
MD5
Yes
Yes
32 Users
Yes
Yes
Yes
Max 480 fps (Depend on IP Camera)
Yes
Yes (Profile-S)
Yes
Yes
Yes (iPhone, iPad, Android)
Yes
Yes (HTTP BASED SDK, PC Codec Library)
Yes
Yes
Yes
Yes (For Archiving)
Yes (SMTP CLIENT)
ADMIN / MANAGER / USER

PIXEL

NR-RM2 Rack Mount for 2U



NR8P 8ch External PoE Hub



"Pro • Mid • Lite" Series

Features:

- 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



Zone Setup Intuitive creation of specific shaped zones



Accurate Detection and Classification Classification under difficult light conditions



Zone Type Intrusion, loitering, stop and line crossing

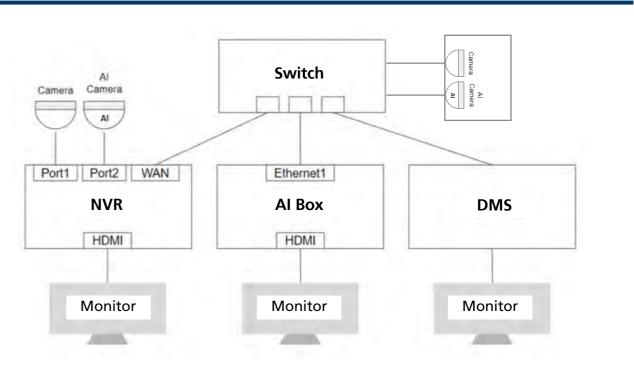


Far Objects **Classification of Objects at a distance**

	Pro	Mid	Lite		
	MEN ANC	A 1027	AN 1829		
Model	ZN-AIBOX16	ZN-AIBOX8	ZN-AIBOX4		
Memory	8GB 4GB				
Main Monitor		HDMI (for diagnostic)			
Main Monitor Resolution		Up to 1080p (for diagnostic)			
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)		
Total input pixel count per second*	2M x 30fps x 16Ch	2M x 30fps x 8Ch	2M x 30fps x 8Ch		
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	RTSP over TCP, RTSP over Websocket				
Alarm Input	4 Ch				
Alarm Output		1 Ch			
Internal HDD		Internal SD Card Slot			
USB	USB3.02	USB3.0 X 2 ports			
RS-485	1				
RS-232		-			
LAN	10 / 100 / 1	000Mbps x 2	10 / 100 / 1000Mbps x 2		
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 Net, 1.1kg Gross			
Certification		CE, FCC, KC			

* The total input pixel count per second from the connected cameras cannot exceed the specified capacity. So, please adjust either the resolution or fps of the connected cameras or reduce the number of connected channels.

CONNECTION EXAMPLE



AI BOX



		PRO - MID - LITE
	Main Features	 Deep learning based AI Engine and Analytics Rule Engine Various AI 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 - Person, Car, Bike - Other objects Special camera support - Thermal (Human only) - Fisheye (Human only)
	Tracker	Multi object Tracking
	Recognizer	Face Recognition Engine License Plate Recognition Engine
	Behavior Analyzer	Optional
	Behavior Detection Trigger	Intrusion, Occupancy, Loitering, Stopping, Enter/Exit, Line Crossing, 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, FTP
	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
	Pathmap Report	Yes
UI	Web UI	HTML5 Web UI (No Plugins)
API	API	Onvif, REST

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

AI BOX

GANZ IP

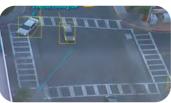
							Auc	lio	Alarm		
Model	Туре	Resolution FPS	Lens	Sensor	WDR	IR	ı/o	міс	Digital I/O	VCA	Power
<u>IPN1302SV</u>	Вох	2MP / 25fps	CS	1/2.8"	T-WDR	-	1/1	-	1/1	Yes	12V / PoE
<u>IPN1402HD</u>	Вох	2MP / 25fps	CS	1/2.9"	D-WDR	-	-	-	-	Yes	PoE
IPN8102HD-W	Pinhole	2MP / 25fps	2.8mm	1/2.8"	D-WDR	-	-	-	-	-	12V / PoE
<u>IPN302SV</u>	Indoordome	2MP / 25fps	3mm	1/2.7"	T-WDR	-	-	-	-	Yes	РоЕ
<u>IPN3402HD</u>	Indoordome	2MP / 25fps	3 - 9mm	1/2.9"	D-WDR	35m	-	-	-	Yes	12V / PoE
IPN362HD	Outdoordome	2MP / 25fps	3.6mm	1/2.9"	D-WDR	10m	-	-	-	Yes	12V / PoE
<u>IPX3802SV</u>	Outdoordome	2MP / 25fps	2.8 - 8mm MFZ	1/2.7"	T-WDR	-	1/1	-	1/1	Yes	12V / PoE
IPN3502SV	Outdoordome	2MP / 25fps	2.8 - 12mm MFZ	1/2.8"	T-WDR	40m	1/1	-	-	Yes	12V / PoE
IPN3502SV-IR	Outdoordome	2MP / 25fps	2.8 - 12mm MFZ	1/2.8"	T-WDR	-	1/1	-	-	Yes	12V / PoE
<u>IPN6802HD</u>	Bullet	2MP / 25fps	4.3mm	1/2.9"	D-WDR	20m	-	-	1/1	Yes	12V / PoE
IPN6702HD	Bullet	2MP / 25fps	2.8 - 12mm MFZ	1/2.9"	D-WDR	35m	-	-	-	Yes	12V / PoE
IPN6702SV-722	Bullet	2MP / 25fps	7 - 22mm MFZ	1/2.8"	T-WDR	60m	1/1	-	1/1	Yes	12V / PoE+
<u>IPN6702SV</u>	Bullet	2MP / 25fps	2.8 - 12mm MFZ	1/2.8"	T-WDR	40m	1/1	-	1/1	Yes	12V / PoE+
<u>IPN2103HD</u>	Fisheye	3MP / 14fps	1.2mm	1/2.5"	D-WDR	-	1/1	-	-	Yes	12V / PoE
<u>IPX4602SV</u>	PTZ	2MP / 25fps	4.3 - 129mm	1/2.8″	T-WDR	-	1/1	-	4/2	Yes	24V / PoE+

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.

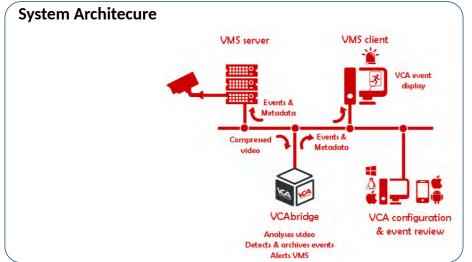






VBP2000 VBP350 Supported Rowsers IC*, Safari*, Chrome, Firefox* (latest versions) Supported Clients PC, iPad*, IPhore*, Android No. Channels 1 channel @ 1080p 30fps 4 channels @ 1080p 30fps Software Update 4 channels @ D1 30fps 4 channels @ 1080p 30fps Software Update Automatic or Manual Supported Video Format I.224 4/4 Rs-485 1 2 Audio Streaming - - Audio Input / Output 2/2 4/4 Audio Rompression - - Audio Input Method RTSP, ONVIF, Supported VMS / NVR* / PSIM* Platforms - Output Data Format Events(TCP*, HTTP*, SMTP, VMS / NVR / PSIM (lient) Metadata(XML, JSON)* - Veb Interface HTMLS via embedded web server, No plugins necessary - API* RESTful API for 3rd party integration and customization - Event Sources Digital Input (D), ary analytic rule - Object Tracking Robust object tracking engine tracks through occlusion, high probability of detection, how false positive rate. N - Object Trackin		All-in-One Stand Alone Analytics Appliance			
Supported Clients PC, IPad*, IPhone*, Android Supported Clients I channel @ 1080p 30fps 4 channels @ 1080p 30fps No. Channels I channel @ 1080p 30fps 4 channels @ 1080p 30fps Software Update Automatic or Manual Supported Video Format H.264, MUPEG Digital Input / Output 2 / 2 4 / 4 RS-485 1 2 Audio Streaming - Audio Compression Audio Compression - - Audio Dutput 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 3rd party Integration and customization Event Sources Digital Output (D) Call event log* Call event log* Tamper Camera Tamper Alert, Loss of Video Input Connection Alert Robust object Tracking Robust object tracking engine tracks through occlusion, high probability of detection, low false positive rate, N modes permit ophinization for intrusion detection or business intelligence tracking Abandoned Object		VBP2000	VBP3510		
Supported solved 1 channel @ 1080p 30fps 4 channels @ 1080p 30fps No. Channels 4 channels @ 1030fps 8 channels @ 720p 30fps Software Update Automatic or Manual Supported Video Format H.264, MJPEG Digital Input / Output 2 / 2 4 / 4 RS-485 1 2 Audio Streaming - - Audio Input / Output - - Video Input Method RTSP, ONVIF, Supported VMS / NVR* / PSIM* Platforms Output Data Format Events(TCP*, HTTP*, SMTP, VMS / NVR / PSIM Clent) Metadata(XML, JSON)* Web Interface Digital Input (DI), any analytics rule Digital Input (DO) - - Event Actions ETMI, CP*, HTTP* and FTP* notification Local event log* - - Object Tracking Robust object tracking engine tracks through occlusion, high probability of detection, low false positive rate. N <t< td=""><td>Supported Browsers</td><td>IE*, Safari*, Chrome, F</td><td>irefox* (latest versions)</td></t<>	Supported Browsers	IE*, Safari*, Chrome, F	irefox* (latest versions)		
No. Channels 4 channels @ D1 30fps 8 channels @ 720p 30fps 16 channels @ D1 30fps Software Update Automatic or Manual Supported Video Format H.264, MJPEG Digital Input / Output 2/2 4/4 RS-485 1 2 Audio Streaming - - Audio Compression - - Audio Input / Output - - Video Input Method RTSP, ONVIF, Supported VMS / NVR / PSIM * Platforms - Output Data Format Events(TCP*, HTTP*, SMTP, 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 3rd party integration and customization - Event Sources Digital Input (D), any anyltics rule - Digital Tacking Robust object tracking engine tracks through occlusion, high probability of detection, low false positive rate. N - Object Tracking Robust object tracking engine tracks through occlusion, high probability of detection, low false positive rate. N - Abandoned Object Detects objects left or removed form a scenee - Didet Tracking Accurate people and whicle - Abandoned Object <td>Supported Clients</td> <td colspan="3">rted Clients PC, iPad*, iPhone*, Android</td>	Supported Clients	rted Clients PC, iPad*, iPhone*, Android			
Supported Video Format H.264, MJPEG Digital Input / Output 2/2 4/4 RS-485 1 2 Audio Streaming - - Audio Compression - - Audio Input / Output - - 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 API* RESTful API for 3rd party integration and customization - Event Sources Digital Input (DI), any analytics rule - Digital Output (DO) Event Actions - - Change Part Camera Tamper Alert, Loss of Video Input Connection Alert Robust object tracking engine tracks through occlusion, high probability of detection, low false positive rate. N modes permit optimization for intrusion detection or business intelligence tracking - Object Tracking Accurate people and vehicle counting, even in dense scenes - Object Counting Accurate people and vehicle counting, even in dense scenes - Intrusion detection, Shake cancellation, Tamper detection, Enter & exit filters, Appear & disappear filters, Stopp Dwell filter, Direction f	No. Channels	4 channels @ D1 30fps 8 channels @ 720p 30fps			
Bigital Input / Output 2/2 4/4 R5-485 1 2 Audio Streaming - - Audio Compression - - Audio Input / Output - - Video Input Method RTSP, ONVIF, Supported VMS / NVR* / PSIM* Platforms Output Data Format Events(TCP*, HTTP*, SMTP, VMS / NVR / PSIM Client) Metadata(XML, ISON)* Web Interface HTML5 via embedded web server, No plugins necessary API* RESTFul API for 3rd party integration and customization Event Sources Digital Input (D), any analytics rule Digital Input (D) - Event Actions E-mail, TCP*, HTTP* and FTP* notification Local event log* Tamper Camera Tamper Alert, Loss of Video Input Connection Alert Object Tracking modes permit optimization for intrusion detection, low false positive rate. N Object Tracking Accurate people and vehicle counting, even in dense scenes Object Counting Accurate people and vehicle counting, even in dense scenes Intrusion detection, Shake cancellation, Tamper detection, Enter & exit filters, Appear & disappear filters, Stopp Divell filter, Direction filter, Counting, Abandoned object Tilter*, Zones & lines, Spe	Software Update	Automatic	or Manual		
Big Hamper / Origin 1 2 RS-485 1 2 Audio Streaming - - Audio Compression - - Audio Input / Output - - 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 3rd party integration and customization Event Sources Digital Input (DI), any analytics rule Digital Output (DO) E-mail, TCP*, HTTP* and FTP* notification Local event log* Local event log* Tamper Camera Tamper Alert, Loss of Video Input Connection Alert Object Tracking modes permit optimization for intrusion detection or business intelligence tracking Abandoned Object Detects objects left or removed from a scene Object Counting Accurate people and vehicle counting, even in dense scenes Intrusion detection, Shake cancellation, Tamper detection, Fuer & exit filters, Appear & disappear filters, Stopp Dwell filter, Direction filter, Counting, Abandoned object filter*, Removed object filter*, Color Filter* Material / Color Aluminum; Anodized black <td>Supported Video Format</td> <td>Н.264,</td> <td>MJPEG</td>	Supported Video Format	Н.264,	MJPEG		
Audio Streaming - Audio Compression - Audio Input / Output - 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 3rd party integration and customization Event Sources Digital Input (DI), any analytics rule Event Actions E-mail, TCP*, HTTP* and FTP* notification Local event log* Tamper Camera Tamper Alert, Loss of Video Input Connection Alert Object Tracking modes permit optimization for intrusion detection, low false positive rate. N modes permit optimization for intrusion detection or business intelligence tracking detection* Object Counting Accurate people and vehicle counting, even in dense scenes Intrusion detection, Shake cancellation, Tamper detection, Enter & exit filters, Appear & disappear filters, Stopp Dwell filter, Direction filter, Counting, Abandoned object filter*, Removed object Filter* Material / Color DC 12V / 9.2W @ 12VDC DC 12V / 15.4W @ 12VDC Operating Condition -0.9kg 1.8kg	Digital Input / Output	2/2	4/4		
Audio Compression - Audio Input / Output - 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 3rd party integration and customization Event Sources Digital Input (DI), any analytics rule Event Actions E-mail, TCP*, HTTP* and FTP* notification Local event log* Tamper Camera Tamper Alert, Loss of Video Input Connection Alert Object Tracking Robust object tracking engine tracks through occlusion, high probability of detection, low false positive rate. N modes permit optimization for intrusion detection or business intelligence tracking Abandoned Object Detects objects left or removed from a scene Object Counting Accurate people and vehicle counting, even in dense scenes Intrusion detection, Shake cancellation, Tamper detection, Enter & exit filters, Appear & disappear filters, Stopp Dwell filter, Direction filter, Counting, Abandoned object filter*, Removed object filter*, Zones & lines, Speed filte bration, Tailgating filter, Logical rules*, People Tracker*, Color Filter* Material / Color DL 12V / 9:2W @ 12VDC DC 12V / 15:4W @ 12VDC Operating Condition DC 12V / 9:2W @ 12VDC DC 12V / 15	RS-485	1	2		
Audio Input / Output 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 3rd party integration and customization Event Sources Digital Input (DI), any analytics rule Event Actions Digital Output (DO) Event Actions E-mail, TCP*, HTTP* and FTP* notification Local event log* Tamper Camera Tamper Alert, Loss of Video Input Connection Alert Object Tracking Robust object tracking engine tracks through occlusion, high probability of detection, low false positive rate. N modes permit optimization for intrusion detection or business intelligence tracking Abandoned Object Detects objects left or removed from a scene Object Counting Accurate people and vehicle counting, even in dense scenes Intrusion detection, Shake cancellation, Tamper detection, Enter & exit filters, Appear & disappear filters, Speed filte bration, Tailgating filter, Logical rules*, People Tracker*, Color Filter* Material / Color DC 12V / 9.2W @ 12VDC DC 12V / 15.4W @ 12VDC Operating Condition -10°C ~ 50°C Weight 0.9kg	Audio Streaming		-		
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 3rd party integration and customization Event Sources Digital Input (DI), any analytics rule Digital Output (DO) Event Actions Event Actions E-mail, TCP*, HTTP* and FTP* notification Local event log* Tamper Camera Tamper Alert, Loss of Video Input Connection Alert Object Tracking Robust object tracking engine tracks through occlusion, high probability of detection, low false positive rate. N modes permit optimization for intrusion detection or business intelligence tracking Abandoned Object Detects objects left or removed from a scene Object Counting Accurate people and vehicle counting, even in dense scenes Intrusion detection, Shake cancellation, Tamper detection, Enter & exit filters, Appear & disappear filters, Stopp Dwell filter, Direction filter, Counting, Abandoned object filter*, Removed object filter* Material / Color DC 12V / 9.2W @ 12VDC DC 12V / 15.4W @ 12VDC Operating Condition 0.9kg 1.8kg	Audio Compression		-		
Number Herricht Events(TCP*, HTTP*, SMTP, VMS / NVR / PSIM Client) Metadata(XML, JSON)* 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 3rd party integration and customization Event Sources Digital Output (DI), any analytics rule Event Actions E-mail, TCP*, HTTP* and FTP* notification Local event log* Tamper Camera Tamper Alert, Loss of Video Input Connection Alert Object Tracking Robust object tracking engine tracks through occlusion, high probability of detection, low false positive rate. N modes permit optimization for intrusion detection or business intelligence tracking Abandoned Object Detects objects left or removed from a scene Object Counting Accurate people and vehicle counting, even in dense scenes Intrusion detection, Shake cancellation, Tamper detection, Enter & exit filters, Appear & disappear filters, Stopp Dwell filter, Direction filter, Counting, Abandoned object filter*, Removed object filter*, Color Filter* Material / Color DC 12V / 9.2W @ 12VDC DC 12V / 15.4W @ 12VDC Operating Condition 0.9kg 1.8kg	Audio Input / Output		-		
Web Interface HTML5 via embedded web server, No plugins necessary API* RESTful API for 3rd party integration and customization Event Sources Digital Input (DI), any analytics rule Event Actions Digital Output (DO) Event Actions E-mail, TCP*, HTTP* and FTP* notification Local event log* Tamper Camera Tamper Alert, Loss of Video Input Connection Alert Object Tracking Robust object tracking engine tracks through occlusion, high probability of detection, low false positive rate. N modes permit optimization for intrusion detection or business intelligence tracking Abandoned Object Detects objects left or removed from a scene Object Counting Accurate people and vehicle counting, even in dense scenes Intrusion detection, Shake cancellation, Tamper detection, Enter & exit filters, Appear & disappear filters, Stopp Dwell filter, Direction filter, Counting, Abandoned object filter*, Removed object filter*, Zones & lines, Speed filte bration, Tailgating filter, Logical rules*, People Tracker*, Color Filter* Material / Color DC 12V / 9.2W @ 12VDC DC 12V / 15.4W @ 12VDC Operating Condition 0.9kg 1.8kg	Video Input Method	RTSP, ONVIF, Supported VN	1S / NVR* / PSIM* Platforms		
API* RESTful API for 3rd party integration and customization Event Sources Digital Input (DI), any analytics rule Event Actions Digital Output (DO) Event Actions E-mail, TCP*, HTTP* and FTP* notification Local event log* Tamper Camera Tamper Alert, Loss of Video Input Connection Alert Object Tracking Robust object tracking engine tracks through occlusion, high probability of detection, low false positive rate. N modes permit optimization for intrusion detection or business intelligence tracking Abandoned Object Detects objects left or removed from a scene Object Counting Intrusion detection, Shake cancellation, Tamper detection, Enter & exit filters, Appear & disappear filters, Stopp Event Rules Intrusion detection, filter, Counting, Abandoned object filter*, Removed object filter*, Zones & lines, Speed filte bration, Tailgating filter, Logical rules*, People Tracker*, Color Filter* Material / Color DC 12V / 9.2W @ 12VDC DC 12V / 15.4W @ 12VDC Operating Condition 0.9kg 1.8kg	Output Data Format	Events(TCP*, HTTP*, SMTP, VMS / NVR / PSIM Client) Metadata(XML, JSON)*			
Event Sources Digital Input (DI), any analytics rule Event Sources Digital Output (DO) Event Actions E-mail, TCP*, HTTP* and FTP* notification Local event log* Camera Tamper Alert, Loss of Video Input Connection Alert Object Tracking Robust object tracking engine tracks through occlusion, high probability of detection, low false positive rate. N Mandoned Object Detects objects left or removed from a scene Detection* Intrusion detection, Shake cancellation, Tamper detection, Enter & exit filters, Appear & disappear filters, Stopp Event Rules Intrusion detection filter, Counting, Abandoned object filter*, Removed object filter*, Zones & lines, Speed filter bration, Tailgating filter, Logical rules*, People Tracker*, Color Filter* Material / Color DC 12V / 9.2W @ 12VDC DC 12V / 15.4W @ 12VDC Operating Condition -10°C ~ 50°C Weight	Web Interface	HTML5 via embedded web server, No plugins necessary			
Event Actions Digital Output (DO) Event Actions E-mail, TCP*, HTTP* and FTP* notification Local event log* Local event log* Tamper Camera Tamper Alert, Loss of Video Input Connection Alert Object Tracking Robust object tracking engine tracks through occlusion, high probability of detection, low false positive rate. N modes permit optimization for intrusion detection or business intelligence tracking Abandoned Object Detects objects left or removed from a scene Detection* Object Counting Intrusion detection, Shake cancellation, Tamper detection, Enter & exit filters, Appear & disappear filters, Stopp Event Rules Intrusion detection filter, Counting, Abandoned object filter*, Removed object filter*, Zones & lines, Speed filte bration, Tailgating filter, Logical rules*, People Tracker*, Color Filter* Material / Color DC 12V / 9.2W @ 12VDC DC 12V / 15.4W @ 12VDC Operating Condition 0.9kg 1.8kg	API*	RESTful API for 3rd party integration and customization			
Event Actions E-mail, TCP*, HTTP* and FTP* notification Local event log* Tamper Camera Tamper Alert, Loss of Video Input Connection Alert Object Tracking Robust object tracking engine tracks through occlusion, high probability of detection, low false positive rate. N modes permit optimization for intrusion detection or business intelligence tracking Abandoned Object Detection* Detects objects left or removed from a scene Object Counting Intrusion detection, Shake cancellation, Tamper detection, Enter & exit filters, Appear & disappear filters, Stopp Event Rules Intrusion detection filter, Counting, Abandoned object filter*, Removed object filter*, Zones & lines, Speed filter bration, Tailgating filter, Logical rules*, People Tracker*, Color Filter* Material / Color DC 12V / 9.2W @ 12VDC DC 12V / 15.4W @ 12VDC Operating Condition DC 12V / 9.2W @ 12VDC DC 12V / 15.4W @ 12VDC Operating Condition 0.9kg 1.8kg	Event Sources	Digital Input (DI),	any analytics rule		
Object Tracking Robust object tracking engine tracks through occlusion, high probability of detection, low false positive rate. Note that the modes permit optimization for intrusion detection or business intelligence tracking Abandoned Object Detects objects left or removed from a scene Detection* Accurate people and vehicle counting, even in dense scenes Object Counting Intrusion detection, Shake cancellation, Tamper detection, Enter & exit filters, Appear & disappear filters, Stopp Event Rules Intrusion detection filter, Counting, Abandoned object filter*, Removed object filter*, Zones & lines, Speed filter Material / Color Aluminum; Anodized black Power Source / Consumption DC 12V / 9.2W @ 12VDC DC 12V / 15.4W @ 12VDC Operating Condition 0.9kg 1.8kg	Event Actions	E-mail, TCP*, HTTP*	and FTP* notification		
Object Tracking modes permit optimization for intrusion detection or business intelligence tracking Abandoned Object Detects objects left or removed from a scene Detection* Accurate people and vehicle counting, even in dense scenes Object Counting Intrusion detection, Shake cancellation, Tamper detection, Enter & exit filters, Appear & disappear filters, Stopp Event Rules Intrusion detection filter, Counting, Abandoned object filter*, Removed object filter*, Zones & lines, Speed filter Material / Color Aluminum; Anodized black Power Source / Consumption DC 12V / 9.2W @ 12VDC DC 12V / 15.4W @ 12VDC Operating Condition 0.9kg 1.8kg	Tamper	Camera Tamper Alert, Loss of	Video Input Connection Alert		
Detection* Detects objects bell of removed from a scele 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, Stopp Event Rules Dwell filter, Direction filter, Counting, Abandoned object filter*, Removed object filter*, Zones & lines, Speed filter Material / Color Aluminum; Anotized black Power Source / Consumption DC 12V / 9.2W @ 12VDC DC 12V / 15.4W @ 12VDC Operating Condition -10°C ~ 50°C Weight 0.9kg 1.8kg	Object Tracking				
Event Rules Intrusion detection, Shake cancellation, Tamper detection, Enter & exit filters, Appear & disappear filters, Stopp Event Rules Dwell filter, Direction filter, Counting, Abandoned object filter*, Removed object filter*, Zones & lines, Speed filter Material / Color Aluminum; Anotized black Power Source / Consumption DC 12V / 9.2W @ 12VDC DC 12V / 15.4W @ 12VDC Operating Condition -10°C ~ 50°C Weight 0.9kg 1.8kg	•	Detects objects left or	removed from a scene		
Event Rules Dwell filter, Direction filter, Counting, Abandoned object filter*, Removed object filter*, Zones & lines, Speed filter Material / Color Aluminum; Anotized black Power Source / Consumption DC 12V / 9.2W @ 12VDC DC 12V / 15.4W @ 12VDC Operating Condition -10°C ~ 50°C Image: Consumption Weight 0.9kg 1.8kg	Object Counting		-		
Power Source / Consumption DC 12V / 9.2W @ 12VDC DC 12V / 15.4W @ 12VDC Operating Condition -10°C ~ 50°C Weight 0.9kg 1.8kg	Event Rules	Dwell filter, Direction filter, Counting, Abandoned object filter*, Removed object filter*, Zones & lines, Speed filter			
Operating Condition -10°C ~ 50°C Weight 0.9kg 1.8kg	Material / Color	Aluminum; A	nodized black		
Weight 0.9kg 1.8kg	Power Source / Consumption	DC 12V / 9.2W @ 12VDC	DC 12V / 15.4W @ 12VDC		
	Operating Condition	-10°C	~ 50°C		
Approvals CE, FCC, KC	Weight	0.9kg	1.8kg		
	Approvals	CE, F	СС, КС		

*Please check the availability with your account manager.



	2 MEGAPIXEL BOX CAMERA				
	IPN1302SV IPN1402HD				
Image Sensor	1/2.8" CMOS	1/2.9" CMOS			
Compression	H.264,	MJPEG			
Max. Resolution	108	80p			
Effective Pixel	1920 >	x 1080			
Video Frame Rate	25fps@H	ID 1080p			
Lens	CS-M	lount			
Iris	Manual	/ DC Iris			
S/N Ratio	50dB o	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	0.03 Lux (Color) 0.006 Lux (B/W, DSS on) 0.5 Lux (Color) 0.01 Lux (B/W, DSS on)				
AGC/BLC/DNR/WDR	Yes / Yes / Yes, T-WDR Yes / Yes / Yes, D-WDR				
Network Interface	10/100	Base T			
Protocols	TCP/IP, UDP/IP, HTTP, RTSP, RTCP, RTP/UDP, RTP/TCP, SNTP, m 802.1X, SSH,	nDNS, UPnP, SMTP, SOCK, IGMP, DHCP, DDNS, SSL v2/v3, IEEE SNMP v2/v3			
Remote Access	IE 7	7.0+			
Micro SD Memory	Integrate	ed SD slot			
Motion Detection	Ye	es			
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 (Profi	ile S), CE, FCC			





IP CAMERAS













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/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			
PoE	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				
IPN302SV	IPN3402HD			
1/2.8" CMOS	1/2.9" CMOS			
H.264	, MJPEG			
10	980p			
1920	x 1080			
25fps@ HD 1080p				
3.0mm	3 - 9mm			
106.7° 110° - 35.5°				
DC				
50dB	or more			
- Yes				
	-			
	-			
	-			
Digital D/N	Mechanical			
Color: 0.04 lux / SW: 0.006 lux (DSS ON)	Color: 0.5 lux / SW: 0lux (IR ON)			
Yes / Yes / Yes, T-WDR Yes / Yes / Yes, D-WDR				
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	
Υı	es	
-	12VDC	
Yes (IEEE	802.3af)	
max. 4.5W@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 OUTD	OOR DOME CAMERA		
	IPN362HD	IPN3802SV		
Image Sensor	1/2.9"	1/2.8"		
Compression	H.264,	MJPEG		
Max. Resolution	1920 :	x 1080		
Video Frame Rate	25fps@H	ID 1080p		
Lens	3.6mm	2.8 - 8.0mm		
FOV (horiz.)	87°	106° - 57°		
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	hanical		
Min. Illumination	Color: 0.5 Lux / B/W: 0 Lux (IR LED On)	Color: 0.03Lux / B/W : 0.006Lux (DSS ON)		
IR	8 IR LEDs, max. 10m	-		
WDR	Yes, D-WDR	Yes, T-WDR		
AGC/BLC/DNR	Yes / 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, RTMF IEEE802.1X*			
Remote Access	IE 7	7.0+		
Micro SD Memory	Integrate	ed SD slot		
Motion Detection	Yı	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	e -20°C ~ 50°C [DC12V/AC24V] -20°C ~ 50°C [PoE] 0°C ~ 50°C; Built-in fan and he			
Housing	Alum	inum		
Protection Class	IP66	/ IK10		
Weight	400g	1.6kg		
Dimensions WxHxD	Ø115,9 mm x 74.5 mm	Ø154.4 mm x 130 mm		
Certificates FCC, CE, KC, IP66, IK10		FCC, CE, KC, IP66, IK10		



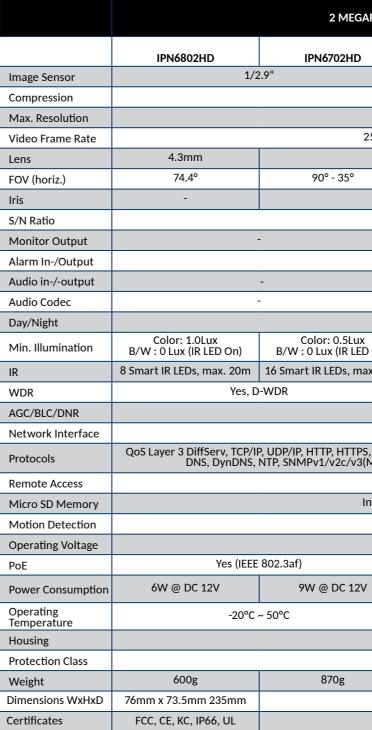






	2 MEGAPIXEL OUTD	OOR DOME CAMERA		
	IPN3502SV IPN3502SV-IR			
Image Sensor	1/:	2.8"		
Compression	H.264,	MJPEG		
Max. Resolution	1920	x 1080		
Video Frame Rate	25fps@ł	HD 1080p		
Lens	2.8 -	12mm		
FOV (horiz.)	99°	- 35°		
Iris	[DC		
S/N Ratio	50dB c	or more		
Monitor Output		-		
Alarm In-/Output	1	/1		
Audio input/-output	1	/1		
Audio Codec	G.	711		
Day/Night	Mech	nanical		
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 / Yes / Yes			
Network Interface	10/100	10/100 Base T		
Protocols	QoS Layer 3 DiffServ, TCP/IP, UDP/IP, HTTP, HTTPS, FTI DHCP, DNS, DynDNS, NTP, SNMPv1/v2c/v3(MIB-II), IGI	P, RTSP, RTCP, RTP/UDP, RTP/TCP, mDNS, UPnP™, SMTP, MP, ICMP, SSLv2/v3, TLSv1/1.2, SRTP, RTMP, IEEE802.1X		
Remote Access	IE	7.0+		
Micro SD Memory	Integrate	ed SD slot		
Motion Detection	Y	es		
Operating Voltage	12'	VDC		
РоЕ	Yes (IEEE	802.3af)		
Power Consumption	8 W@DC12V (Heater on), 9.5W@PoE (Heater on) 9 W@DC12V(Heater on, IR-LED on), 10.5V ter on, IR-LED on)			
Operating Temperature	-40°C	~ 50°C		
Housing	Aluminum, Anti-v	vandal bubble (PC)		
Protection Class	IP66	/ IK10		
Weight	1.:	2kg		
Dimensions WxHxD	Ø155 mm	x 129 mm		
Certificates	FCC, CE,	, KC, IP66		









2 MEGAPIXEL BULLET CAMERA

	IPN6702SV	IPN6702SV-722				
	1/2	.8"				
H.264,	H.264, MJPEG					
1920 >	x 1080					
25fps@H	ID 1080p					
2.8 - 1	12mm	7.0 - 22mm				
	99° -	- 35°				
	DC					
50dB o	r more					
	Ye	es				
1	/ 1					
	1	/ 1				
	1,	/ 1				
Mech	anical					
O On)	Color: B/W : 0 Lux					
ax. 35m	16 Smart IR LEDs, max. 40m	16 Smart IR LEDs, max. 60m				
	Yes, T	-WDR				
Yes / Ye	es / Yes					
	Base T					
s, ftp, rt (MIB-II), I	TSP, RTCP, RTP/UDP, RTP/TCP, n IGMP, ICMP, SSLv2/v3, TLSv1/1	nDNS, UPnP™, SMTP, DHCP, 2, SRTP, RTMP				
IE 7	7.0+					
ntegrate	ed SD slot					
Ye	es					
12\	/DC					
	Yes,	PoE+				
/	17W @	DC12V				
	-40°C	~ 50°C				
Aluminum						
IP	66					
	89	5g				
	86mm x 83.5mm x 280mm					
	FCC, CE, KC, IP66					





2 MEGAPIXEL OUTDOOR PTZ

	IPX4602SV
Image Sensor	1/2.8"
Compression	H.264, MJPEG
Max. Resolution	1920 x 1080
Max. Resolution	25fps@HD 1080p
Lens	4.3mm - 129.0mm
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, 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	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
Dimensions	Ø232 mm x 278.1 mm
Certificates	FCC, CE, IP66, IK10



2 MEGAPIXEL FISHEYE CAMERA

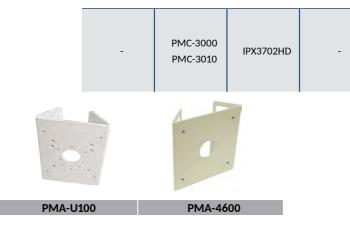
	IPN2103HD
Image Sensor	1/2.5"
Compression	H.264, MJPEG
Max. Resolution	1080p
Effective Pixel	2048 x 1536
Video Frame Rate	14fps@ 2048 x 1536
Lens	1.2mm
FOV (horizontal/vertical)	180° / 180°
Iris	-
S/N Ratio	50dB or more
Monitor Output	Yes
Alarm Ein / Ausgang	1/1
Audio Ein/ Ausgang	1/1
Audio Codec	G.711
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/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 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 PMC-3010

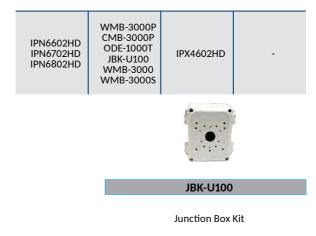
Pendant Mount Cap



Wall Mount Bracket



Pole Mount



	WMB-3000P
IPN6602HD	CMB-3000P
IPN6702HD	PMA-U100
IPN6802HD	CMA-U100
IPN0802HD	ODE-1000T
	WMA-U100



WMB-4600





FMB-3502

Flush Mount Bracket

IPN3502HD-5211 IPN5311 IPN5211IR IPN5311IR

PTB-IPT2500

Wall Mount Bracket

IPT2500MR

IP CAMERAS





		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 CM	
Compression	H.264/265, MJPEG	H.264, MJPEG	H.264/26	265, MJPEG	
Stream	Duals	tream	Triple	stream	
Resolution Options		1920x1080 n 2: D1	Stream1: 1920×1080 @25fps Stream2: D1/VGA/CIF @25/30fps Stream3: 1920×1080/VGA	Stream1: 4000×3000 @20f 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 4.1~12.8m	
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 OLux IR LED	
IR LED / Range	60m 40m 60m		60m	80m	
Digital Noise Reduction		2/3	DNR		
WDR	T-WDR > 120dB	D-WDR	T-WDR > 120dB	D-WDR	
Audio input/-output	1/1				
Audio Codec	G.711, RAW_PCM				
Network Interface		10 / 10	0 Base-T		
Alarm In-/Output	1	/ 1	- / 1	1/1	
Protocols		DHCP, NTP, PPPoE, SMTP, FTP, ist, Multicast	IPv4/IPv6, 802.1x, HTTP, HTTPS, RTCP/RTP, PPPoE, SMTP, D	TCP/IP, UDP/IP, RTSP, DHCP, N DNS, UPnP, FTP, APR, SNMP	
HLC		Y	/es		
Motion Detection		Y	/es		
ROI			/es		
Micro SD Memory	Micro SD/SDHC/SDXC slot, Max 128GB	Micro SD/SDHC/SDXC slot, Max 64GB	Micro SD, Max 128GB		
Protection Class	IP	66	IP	267	
Operating Voltage		DC12	V/POE		
Power Consumption		5W (IR LED OFF) 8W (IR LED ON)		
Operating Temperature	-40°C ~ 60°C				
Dimensions	φ110 × 377mm				
Weight		16	80g		
Certification			FCC		
LPR	- Supporting EU+CIS number plates - Recognition rate of 97% or higher - Max recognition speed of 50km/h				

							Aud	lio	Alarm		
	Model	Туре	Resolution FPS	Lens	WDR	IR	I/O	міс	Digital I/O	VCA	Power
	<u>ZN8-C12-N</u>	Box	12MP / 20fps	CS, 1/1.7"	D-WDR	-	1/1	•	1/1	S	12V / PoE
	<u>ZN8-VB2M722-N</u>	Bullet	4MP / 25fps	2.7-12mm MFZ	T-WDR	40m	1/1	-	1/1	S/0	12V / PoE
	ZN8-BB2M312-NR	Bullet	4MP / 15fps	3-12mm	D-WDR	30m	-	-	-	S/0	12V / PoE
	ZN8-BB2M722-NR	Bullet	2MP / 25fps	2.8-12mm	D-WDR	30m	-	-	-	S/0	12V / PoE
	ZN8-BB12M412-N	Bullet	12MP / 20fps	4.1-12mm MFZ	T-WDR	70m	1/1	-	1/1	S	12V / PoE
17											
	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
	<u>ZN8-P3X12-NIR</u>	PTZ	3MP / 25fps	12x AF Zoom	D-WDR	100m	1/1	-	2/1	-	12V / 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











	Wallmount & Pow inclusive	er Supply Wallmount inclusive	Wallmount
	2 MEGAPIXEL PTZ	5 MEGAPIXEL PTZ	3 MEGAPIXEL PTZ
	ZN8-P4NTAF60L	ZN8-P5X12DL	ZN8-P3X30-DL-H
Resolution	2MP	5MP	3MP
Image Sensor		1/2.8" CMOS	
Compression	H.264, MJPEG	H.265, H.2	264, MJPEG
Dualstream	Dualstream	Triple	Stream
Resolution Options	1920 x 1080 / 25fps	Stream1: 2560×1920 @25fps Stream2: VGA @25fps Stream3: VGA @25fps	Stream1: 2048×1536 @25fps Stream2: VGA @25fps Stream3: VGA @25fps
Video Frame Rate		max. 25fps	
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)		x (Color) (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-V	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, PPoE, Unicast / Multicast, ONVIF		/IP, UDP/IP, RTSP, DHCP, NTP, RTCP/RTP, JPnP, 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	
Micro SD-Card	Yes (up to 64GB) Yes (up to 128GB)		
Operating Voltage	24VAC	PoE+ / 12VDC	PoE+ / 24VAC
Power Consumption	40W max.	25W max.	40W max.
Protection Class	IP66	IP66, T	VS4000V
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		
Weight	4.3kg	1.5kg	5.2kg







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 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.

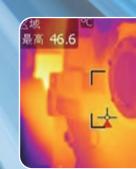
GANZ Thermal Solutions with Temperature detection

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 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
ZNT1-HBT24G25A	Thermal Bullet Camera, 17um, 50 NETD, Resolution 640X480, 9 fps, 18° HFOV, NTSC/PAL, VCA



Camera, :
Camera, 2
Camera, 2
amera, 2
amera, 20
ra, 20um
2





AMERA MODELS WITH TEMPERAT MEASUREMENT

, 20um, 40 NETD, Resolution 400*300, 30 fps, 8mm

20um, 40 NETD, Resolution 400*300, 30 fps, 15mm

20um, 40 NETD, Resolution 400*300, 30 fps, 25mm

20um, 40 NETD, Resolution 400*300, 30 fps, 8mm

20um, 40 NETD, Resolution 400*300, 30 fps, 25mm

n, 40 NETD, Resolution 400*300, 30 fps, 75mm / 10mm - 320mm





Nautilus **Rugged PTZ Platform** Rough environments require more. The extremely durable cameras of the Nautilus series can not get harmed so fast. Numerous hardening tests: Vibrations, high G-forces, strong wind or salt, the winner was always Nautilus. Further special features are the integrated white and IR light LEDs, the quiet and without drive wedge belts Digital servos as well as 360 ° turnability.

	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: 0.01 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
Encoder	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	
LZ-NDNC40X	SD Analogue 40
LZ-NDNC40X-IR	SD Analogue 40x, ¼" Super HAD

Model Number	Description
LZ-NIJCB	Intelligent Junction Box
LZ-NSJCB	Standard Junction Box
LZ-10MUC	10m Cable
LZ-WMB	Universal Wall Bracket
LZ-UCS	Universal Column Bracket
LZ-SNB	Swan Neck Bracket
LZ-CMB	Corner Mount Bracket
LZ-PMB	Mid-Pole Mount Bracket

GANZ

Also available as Hybrid version 'Thermal & IP'

Description

0x, ¼" Super HAD II CCD, 670TVL, Wiper

II CCD, 670TVL, Wiper, with IR & White Light Illuminator



LZ-CMB



LZ-PMB



LZ-UCS

-





LZ-10MUC





41

_iteh 2 MEGAPIXEL AHD/CVI/TVI/CVBS CAMERA SERIES



ICWR-P-4-SN

LCWB-PE-4-SN

0.01 Lux (Color)

CS-Mount

-

-

LCWB-P-4-SN:

DC12V / AC24

LCWB-PS-4-SN:

AC230V

100mA

IP55

136(L) * 56(H) * 70(B)

450g

Image Sensor DSP/ISP

Videonorm

Effective Pixel

Max. Resolution

Video Frame Rate

Electronic Shutter

Min. Illumination

S/N Ratio

Video Signal

Day/Night DNR

WDR

AE

AWB

AGC

Sence Up

Image Setting

OSD Menu

Lens

Iris

IR LEDs

Material

Color

Max, IR Range

Operating Voltage

Power Consumption

Max. Range Video Signal

Operating Temperature

Dimensions (mm)

GANZ

IR CUT Filter

Humidity Protection Class

Weight

42

Privacy Masking

Motion Detection

Synchronisation

Light Compensation

Pixel Size



LLTB-IR212PS-4-SN

Φ 5 x 35 pcs

~41m. Smart IR

Metallic Casing

DC12V

Max. 4.5W

99(H)*145(Φ)

760g

White / Grey









2 MEGAPIXEL 4-1 CAMERAS

LTWB-IR212P-4-SN

Sony 1/2.8" IMX 290 LQR CMOS

Nextchip NVP2450H

PAL / NTSC; Progessive Scan

2.9 μm (H) × 2.9 μm (V)

1945 (H) × 1097 (V) ca. 2.13MP

1920 x 1080

1080P @25/30 fps

AUTO/ 1/50 (1/60) -1/50,000sec

≥60dB (AGC OFF)

AHD / CVI / TVI / CVBS (960H)

Internal

External / Auto (ICR) / Color / B&W (OSD Switch)

3 / 2 DNR

True WDR (DOL-WDR)

Auto / BLC / WDR / OFF / HLC

Yes (optimized)

Yes (optimized)

Yes (optimized)

Yes

Yes

Yes

Yes

Supports UTC + OSD Button on Cable

2.8-12mm 3MP HD

DC

White

Dual IR-CUT Filter Switch

CVBS: 500m via Coax Cable (75-3/5) / AHD & CVI (1080P): 300m~400m / TVI (1080P): 300m

-20°C ~ +60°C

≤95%RH (not condensing)

112(H)*147.8(Φ)

550g

IP66, vandal-proof

Φ 5 x 17 pcs

~20m. Smart IR

Max. 3W

Polycarbonat

White / Grey

Dual Voltage (DC12V / AC24V ±10%)

-

99.2(H)*130(Φ)

265g



0.01 Lux (Color, high sensitivity) / 0 Lux (IR on)























































LDWB-IR212P-4-SN































LYWB-IR212P-4-SN

LYWB-IR622P-4-SN

LYWB-IR212P-4-SN:

2.8-12mm 3MP HD

LYWB-IR622P-4-SN:

6-22mm 3MP HD

Φ 5 x 5 pcs

~50m. Smart IR

Metallic Casing

White / Black

Max. 6W

IP66, vandal-proof LYWB-IR212P-4-SN: 261(L)*118(B)*76(H)

LYWB-IR622P-4-SN:

306.2(L)*76(B)*76(H)

865g

Modell

Channels

Monitoring

Audio

Recording

Alarm I/O

Storage

Interfaces

ETC

Power

Chassis

Monitoring

Input Signal

Main Monitor

Loop Through

Input Signal

Codec

Codec

Output Signal

Recording Rate

Recording Resolution

Alarm In

Alarm Out

Internal HDD

Internal ODD

USB

RS-485

RS-232

LAN

External Storage

Remote Control

Signal Switch

Watchdog

Cooling Fan

Power Supply

Environment Temperature / Humidity

Certification UL, CUL, FCC, CE

Power Consuption

Dimension (mm)

Gross Weight(kg)

Net Weight(kg)

Display Rate

Display Resolution

Display Mode

Covert Cameras

PTZ Camera

Camera Color Control

Sequence Digital Zoom

Motion Detection

Spot Out



























































SD (960) / AHD, TVI (HD, F

4CH (10KOhm, 2.8Vpp)

1CH (600Ohm, 2.8Vpp)

DR-4M51-A-V

4ch

HDMI / VGA

Up to 48FPS@ 5MP

Up to 60FPS@ 4MP

Up to 72FPS@ 3MP

Up to 120FPS@ FHD

Up to 120FPS@ 2CIF

Up to 120FPS@ CIF

1EA

1x 10 / 100Mbps

12V/2A

6W max. without HDD

260(W) x 262.6(D) x 44(H)

1.54

2.28

120FPS@2MP

54FPS@3MP

120FPS@4MP (half)

80FPS@5MP (half)

1.4



HYBRID R	ECORDER						
DR-8M52-A-V	DR-16M52-A-V	DR-16M55-RA					
8ch	16ch						
960) / AHD, TVI (HD, FHD) / 3, 4, 5N	SD (960) / AHD, TVI (HD, FHD) /						
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		3, 4, 5MP, 4k15 (TBD)					
HDMI / VGA	HDMI / VGA	VGA / HD					
1 (CVBS)		(main/HD spot selectable) 2 (CVBS)					
-	-	YES					
YI	ES						
n, 2.8Vpp)	4CH (10KOhm, 2.8Vpp)	16CH (10KOhm, 2.8Vpp)					
n, 2.8Vpp) G.711	1CH (600Ohm, 2.8Vpp) ulaw	1CH (6000hm, 2.8Vpp)					
H.264							
	Up to 96FPS@ 5MP						
Up to 96FPS@ 5MP	Up to 120FPS@ 4MP	Up to 160FPS@ 5MP					
Up to 120FPS@ 4MP	Up to 144FPS@ 3MP	Up to 240FPS @ 4MP					
Up to 144FPS@ 3MP	Up to 240FPS@ FHD	Up to 240FPS @ 3MP					
Up to 240FPS@ FHD	(2/3/4/5MP when Noise Filter	Up to 480FPS @ FHD					
Up to 240FPS@ 2CIF	setting is Off)	Up to 480FPS @ 2CIF					
Up to 240FPS@ CIF	Up to 480FPS@ 2CIF	Up to 480FPS@ CIF					
-	Up to 480FPS@ CIF	-					
CIF, 2CIF, D1, 960H, 720p	o, 1080p, 3MP, 4MP, 5MP	·					
2CH		18CH (16CH+2CH), Pulled up to 5V via 10KOhm					
1CH (RELAY)		8CH, RELAY (125VAC, 60VDC) / 8CH, O.C. (Pulled up to 5V via 1KOhm)					
2EA	2EA	Max 5EA w/ RAID5					
-		eSATA, NAS(FTP Server, for Backup)					
2x front		- 3 ports (2Front + 1 Rear)					
1		2					
		1 (LAN) + 1 (WAN) -					
1x 10 / 100 / 1000Mbps	1x 10 / 100 / 1000Mbps	10 / 100 / 1000Mbps					
Ye	es						
	-						
	es 1	2					
		DC12V, Adaptor, 7.5~10A, 100~200V					
	//3A	AC, 50-60Hz					
13W max. without HDD	14W max. without HDD	21W max. without HDD					
0°C ~ 40°C / 380(W) x 314	10 ~ 90% NC 4.6(D) x 44(H)	430(W) x 367(D) x 88.4(H)					
2.52	2.58	6.2					
3.63	3.69	7.3					
CE, FCC 240FPS@2MP	C, c-Tick 480FPS@2MP						
108FPS@3MP	216FPS@3MP (half)						
		480FPS/400FPS					
240FPS@4MP (half)	480FPS@4MP (half)						
160FPS@5MP (half) 1920x1080 (HD Display, VGA)	320FPS@5MP (half)	4K/1080p/720p/VGA,					
Dual Display (Mirroring) 1, 4, 6, 8, 9	146	Dual Display (Mirroring) 8, 9, 16					
	ble Sequence	-, -,					
	es						
Yes (Contrast, Colo							
	es						







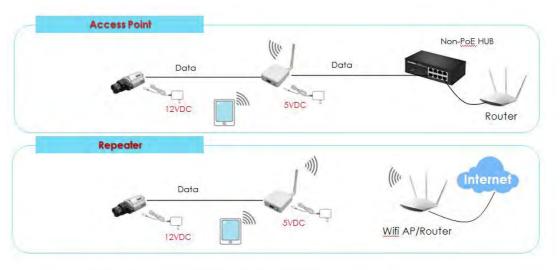


Modell		HYBRID RECORDER				
		DR-4M51-A-V	DR-8M52-A-V	DR-16M52-A-V	DR-16M55-RA	
	Schedule Method		Daily / Week	ly / Each Hour	I	
	Programmable for Ch	Yes				
	Manual Recording	Yes				
	Post-Event Recording	5 / 10 / 15 / 20 / 30 / 60 / 180 SEC				
	Event Recording	Yes				
ecord	Pre-Event Recording	0/1/2/3/4/5/10/15 SEC				
	Panic Recording	Yes				
	Event Logging	Yes (Motion, Alarm, Panic, Vloss)				
	System Logging	Yes (System On/Off, Time Changed, HDD / E-Mail Operations, System Operations)				
	Setup Logging	Yes (Setup Changed)				
	Remote Logging			, Remote Operations)		
earch	Playback RATE			cording Rate		
Playback	Playback SPEED			x16, x32, x64		
ayback	Search TYPE			Time / Thumbnail		
	Archiving Devices			nory, FTP		
	Remote Archiving	Yes (WEB RA, VMS, FTP)				
	Snapshot Archiving	Yes				
	Data Reserving	Yes				
	Reserved Data List	Yes				
rchiving	Management					
5	Backup Data Format	AVI, RAW				
	Watermark	Yes				
	Watermark Verification	Yes				
	Archived Data Playback	Yes				
	Max. Connections		32 (Jsers		
	DHCP			es		
	DDNS			es		
	Transmission Rate	Max 120 FPS	Max 240 FPS		80 FPS	
	Bandwidth Control					
	Web Browser Access	Yes				
	Remote Function	Remote	ہ Monitoring / Playback / Archivi		h Check	
	VMS Support	Remote				
		Yes				
twork	Two-Way Audio					
etwork	PC Based Remote Agent			es Andreid)		
	Smartphone Application			Android)		
	Web Based Remote Agent			X [®] , MAC OS/X [®] , ETC.)		
	SDK		· · · · · · · · · · · · · · · · · · ·	P Protocol Base)		
	Auto Router Port Forwarding			es		
	Dual Streaming			es		
	FTP Client			Archiving)		
	E-Mail		Yes (SM	rP Client)		
	Authority Control			NAGER / USER		
	Protocols	RTP, RTSF	P, RTCP, SMTP, NTP, HTTP, FTP, D	ONS, DHCP, UPnP (Router Port Fo	orwading)	
/ent	Туре	Video Loss Eve	ent / Event Notification / Event P	op-Up / Motion Detection / Moti	on Sensor Area	
	Language		Multi-L	anguage		
	Operating System	LINUX*				
	DST Setup	Yes				
	HDD Temperature Check	Yes (Dpends on HDD Specificatons)				
тс	HDD S.M.A.R.T Check	Yes				
	Auto HDD Recovery			es		
	Setup Iport / Eexport	Yes				
		Yes (Pan / Tilt / Zoom / Focus / Iris / Preset)				

	WIREL
Network	
WLAN	IEEE802.11b/
USB	
Security	WEP
Operating Voltage	48
Operating Temperature	
Accessories	Po
Dimensions (WxHxD)	

Examples:





LESS SERVICE EQUIPMENT

ZW-N22F

2x RJ-45 PoE

b/g/n AP / Repeater / Client mode

1

EP / WPA-PSK / WPA2-PSK

8VDC / Micro USB 5V in

0°C - 50°C

Power Supply / Antenna

75 x 75 x 33mm

CANZ



45

LED Monitor-Series

	MONITORS			
	LME17E-III	LME19-III	LME23.6SP-2	LME32
Video Norm		PAL	/ NTSC	
Screen Size	17"	19"	23.6"	32"
Resolution	1280	x 1024		
Aspect Ratio		4:3		
Displayable Colors		16,7	Million	
Response Time		5 ms		8.5 ms
Angle of View (L/R)	170°	/ 160°	80° / 85°	88° / 88°
Luminosity	250 cd/m ²	300 cd/m ²	300 cd/m ²	400 cd/m ²
Contrast Range	100	00:1	5000 : 1	
Video Input	1x BNC, V	VGA, HDMI	2x BNC, VGA, HDMI	2x HDMI, BNC, VGA
Video Output	1x	BNC	2x BNC	BNC
Audio Input		PC Ste	reo, RCA	
Audio Output		-		
Speaker	2x 2	2 Watt		
OSD Menu	Engl	ish, German, French, Italien, Spa	nish, Russian, Turkish, Japanese,	Polish
3D Comb Filter		Y	/es	
De-Interlace		Y	/es	
PIP / POP		Yes	/ Yes	
VESA Connection	75 mm	x 75 mm		200mm x 100mm / 200mm x 200mm
Operating Voltage		12 VDC (Power Supply 230V)		AC 100-240V 50/60HZ
Power Consumption	22 Watt	25 Watt	33 Watt	70 Watt
Operating Temperature	-10°C - 50°C			· · · · · · · · · · · · · · · · · · ·
Weight	2.7 kg	3.1 kg	3.2 kg	12.1 kg

computar

THE WORLD STANDARD FOR LENSES.

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raytec"

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.

















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