

VCA LICENSE LIST

License Function

		Basic License	٩					Advance	d License						
Model				Surveilance					Counting		PTZ				
	Number of Detection Zone	Tamper detect	Presence (Intelligent Motion Sensor)	Enter/Exit	Appear/ Disapperar	Stopped	Dwell	Direction Filter	Speed filter	Tail gating	On-screen Counter	Conuting Line	PTZ Autotracking		
ZNS-PRES Free *1	40	0	0												
ZNS-COUNT	40	0									0	0			
ZNS-ACCESS	40	0	0							0	0	0			
ZNS-DETECT	40	0	0				0	0	0						
ZNS-FOLLOW	40	0											0		
ZNS-SURV	40	0	0	0	0	0	0	0	0	0	0				
ZNS-PRO*2	40	0	0	0	0	0	0	0	0	0	0	0			
ZNS-ADVANCED	40	0	0	0	0	0	0	0	0	0	0	0			
ZNS-TRACK	40	0	0	0	0	0	0	0	0	0	0		0		

^{*1} Except for Encoder, Free License cannot use calibration setting. *2 ZNS-PRO is only available for ZN-xxV series(V, Vx, Vxx) and ZN-Rx/Zs.

Imbedded Intelligence Content Analytics



Intrusion Detection

- Presence, Enter/Exit, Appear/Disappear

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.



People and Vehicle Counting

— On-screen Counter, Counting Line

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 the objects. This feature is ideal for retail: counting customers, identifying trends and alerting staff when a group gathers in a defined location.



Directional Detection

Direction Filter

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

— Tailgating

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.



Stopping and Dwell Detection

— Stopped, Dwell

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.



CBC Co.,Ltd.

TOKYO Head Office Image and Information Technology Division Ganz Global Brand Center

http://www.ganz-global.com/







"PixelPro GXi" Network Camera with Video Content Analystics









<PixelPro GXi Series>



Box Series ZN-NH22XE

- C/CS Mount selectable
- 1/2.9" Progressive Scan CMOS
- 25/30 fps@1080p
- True Day/Night and Digital WDR Performance Video recording to SD/SDHC memory card
- DC Auto iris

- Dual-Streaming IP Video
- H.264 Compression
- Audio Input/Output: 1/1
- Embedded Video Analytics



Qube Series ZN1-Q3FN2

- Cube type camera
- 1/4" Progressive Scan CMOS
- 25/30 fps@720p
- Horizontal: Approx. 91°
- Easy and flexible installation
- MicroSD/SDHC memory card slot
- Embedded Video Analytics





• Mini (Biscuit) type dome

ZN1-M4FN3

- 25/30 fps@1080p
- MicroSD/SDHC memory card slot
- Embedded Video Analytics



ZN-DNT352XF-MIR

Indoor Dome Series ZN1-D4NFN6L/ZN-DN312XE-M

- IR LED (ZN1-D4NFN6L)
- Remote Zoom/Focus (ZN-DN312XE-M)
- 25/30 fps@1080p

- MicroSD/SDHC memory card slot
- Embedded Video Analytics



Outdoor Dome Series ZN-DNT352XE-M/ZN-DNT352XE-MIR

- IR LED (ZN-DNT352XE-MIR)
- Remote Zoom/Focus
- 1/2.7" Progressive Scan CMOS
- 25/30 fps@1080p
- MicroSD/SDHC memory card slot
- Embedded Video Analytics



Repositionable Dome Series ZN-DN332XE-MPD/ZN-DNT372XE-MPD

- Repositionable (Simple PTZ)
- 1/2.7" Progressive Scan CMOS
- 25/30 fps@1080p

- MicroSD/SDHC memory card slot
- Embedded Video Analytics



Bullet Series ZN1-N4NFN6/ZN1-B4NVD43

- 4.3mm Lens (Horizontal: Approx. 74.4°) 1/2.9" Progressive Scan CMOS
- Varifocal Lens (ZN1-B4NVD43)
- Repositionable 3~9mm (Horizontal: Approx. 98.2° - 37.4°)
- IP66 for all weather conditions
- 25/30 fps@1080p
- Alarm Input/output: 1/1
- MicroSD/SDHC memory card slot
- Embedded Video Analytics



PTZ Series ZN-PTZ202XE/ZN-PTZ202XE-XT

- Optical 20x, Digital 8x
- Horizontal: Approx. 55.5° 3.1°
- PoE+/24VAC

- 25/30 fps@1080p
- MicroSD/SDHC memory card slot
- Embedded Video Analytics



Encoreder ZS1-1DS/ZS1-4DS

- 1ch/4ch Video Encoder
- 25/30fps @ D1 (720x480)
- PoE (zs1-1ps)

- The packaging contains DC power adaptor
- MicroSD/SDHC memory card slot
- Embedded Video Analytics



Thermal Series ZN-TH110FVE-H

- Uncooled Vanadium Oxide Microbolometer
- Effective Pixels: 320x240
- Alarm Input/output: 1/1
- H.264 Dual Stream

- NEDT: 50mK
- The packaging contains DC power adaptor
- MicroSD/SDHC memory card slot
- Embedded Video Analytics

SPECIFICATION

		Box Series	Qube Series		Indoor Dome Series		Outdoor D	Bullet Series		
MODEL		ZN-NH22XE	ZN1-Q3FN2	ZN1-M4FN3	ZN1-D4NFN6L	ZN-DN312XE-M	ZN-DNT352XE-M	ZN-DNT352XE-MIR	ZN1-N4NFN6	
		awar awar			000 SS	and and	OMES.	and the second s	O out	
	Image Sensor	SONY EXMOR 1/2.9" 1080p CMOS	1/4" 720p CMOS	1/2.7" 1080p CMOS	SONY EXMOR 1/2.9" 1080p CMOS	1/2.7" 1080p CMOS	1/2.7" 10	80p CMOS	SONY EXMOR 1/2.9" 1080p CMOS	
	Effective Pixels	1920 x 1080	1280 x 720	1920 x 1	080		1920 x 1080			
	Minimum Illumination	Color: 0.5 lux (50IRE) B/W : 0.001lux (DSS ON)	Color: 0.8 lux(50 IRE) B/W: 0.1lux (DSS ON)	Color: 1.0lux B/W : 0.001lux (DSS ON)	Color: 1.0lux B/W : 0.001 lux (DSS ON)	Color: 0.5lux B/W : 0.001lux (DSS ON)	Color: 0.5lux B/W : 0.001lux (DSS ON)	Color: 0.5lux B/W : 0lux (IR LED On)	Color: 1.0lux B/W : 0 lux (IR LED ON)	
Camera Module	Lens	C/CS	2.7mm, F2.0	2.8mm, F2.0	4.3mm, F2.0	3.0(w) - 9.0mm	3.0(w) - 9.0mm(t), F1.2(w) - F2.1(t), Optical 3x, Motorized Focus & zoom lens			
	Field of View	-	Horizontal: Approx. 91.0° Vertical: Approx. 59.0°	Horizontal: Approx. 110.0° Vertical: Approx. 81.5°	Horizontal: Approx. 74.4° Vertical: Approx.40.8°		Horizontal: Approx. 93.0°(W) to 31.7°(T) Vertical: Approx. 68.4°(W) to 23.8°(T)		Horizontal: Approx. 74.4° Vertical: Approx.40.8°	
	Day & Night	True Day & Night (Removable IR Cut Filter)	Digital	Day & Night		1	True Day & Night (IR Cut Filter Removable)			
	Compression	H.264,	MJPEG			H.264, MPEG-4, MJPEG				
Wide -	Number of Streams	Triple Stream*, Configurable streams in H.264, MJPEG Triple Stream*, Configurable streams in H.264, MJPEG Triple Stream*, Configurable streams in H.264, MJPEG								
Video	MaximumResolutions	Full HD 1080p(1920 x 1080)	720p(1280 x 720)			Full HD 1080p(1920 x 1080)				
	Frame rate	25/30 fps@1080p	25/30 fps@720p	25/30 fps@	21080p		25/30 fps@1080p			
Audio In / Out		1/1						-		
	DI / DO	1 /	1	-			1/1		-	
Function	SD Memory Card Slot	SD slot (up to 64GB)	microSD slot (up to 64GB)	microSD slot (up to 64GB) microSD slot (up to 64GB)						
et et t	Power Source	12VDC, PoE	12VDC	PoE		12VDC, PoE			PoE	
Electrical	Power Consumption (Approx)	6.0W @ 12VDC	3.4W @ 12VDC	2.4W @ PoE	5.0W @ 12VDC	4.7W @ 12VDC	13.8W @ 12VDC	15.12W @ 12VDC	5.6W @ PoE	
Environmental	Operating Temperature (Not include cold start)	[12VDC] 0°C ~ 50°C (32°F ~ 122°F); [PoE] 0°C ~ 45°C (32°F ~ 113°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32	°F ~ 104°F)	0 °C ~ 50 °C (32 °F ~ 122 °F)	[12VDC] -40°C ~ 50°C (-40°F ~ 122°F); [PoE] -20°C ~ 50°C (-4°F ~ 122°F); Built-in heater Cold Start:[12VDC] -20°C (-4°F) [PoE] 0°C (32°F)	[12VDC] -40°C ~ 50°C (-40°F ~ 122°F); [PoE] 0°C ~ 50°C (32°F ~ 122°F); Built-in heater Cold Start: [12VDC] -20°C (-4°F); [PoE] 0°C (32°F)	-20°C ~ 45°C (-4°F ~ 113°F)	
	Operating Humidity				Up to 85% RH (Non-conden	nsing)				
Mechanical	Dimensions	70.5(W) x 63.9(H) x 137.9(D) mm	76.1(W) x 142.5(H) x 92.3(D) mm	Housing: 105.5(ø) x 55.5(H) mm, Dome: 55.0(ø) mm	Housing: 148.0(ø) x 100.0(H) mm, Dome: 100(ø) mm	Housing: 148.0(ø) x 120.9(H) mm, Dome: 100(ø) mm		a) x 129.0(H) mm, 0.0(ø) mm	76.0(W) x 73.5(H) x 245.0(D) mm	
	Weight (Approx)	470g	142g	270g	430g	520g	1	2kg	600g	
Certifications		CE/FCC/IP66					CE / FCC / IP66			
Onvif (Profile S)					Supported					
Accessories (optio	on)				-					
Other Models		ZN-NH11VP(N)E, ZN-NH21VE	-	ZN-D100VE, ZN-D200VE, ZN-D312VE	ZN1-D4NMZ43L	ZN-DN312XE	ZN-DNT350VP(N)E, ZN-DT352VE, ZN-DNT352XE	ZN-DNT352XE-IR	-	

^{*}It depends on VCA

VCA(Video Contents Analytics) Engine and Application

Basic functions Applications

The Network Cameras of GXi Series has a built-in video analysis engine, enabling the video camera to carry out three-dimensional image processing, the video camera which was originally two-dimensional. Moreover, adding the filters for "time", "speed", "size" and "number", it can automatically recognize from the video the movement of people and vehicles, the changes in the objects, such as buildings and facilities, etc.

Moreover, by loading the calibration setting function that sets up the "depth" of the video camera that is two-dimensional, it has the function to realize efficient and reliable video analysis from the stage of installation and adjustments.

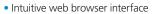
At the company of the GXi Series, we are providing developmental tools to enable the customers to build all kinds of systems at their sites, by applying the VCA video analysis engine. Based on this, the customers can prepare applications that respond to their needs, such as the applications for specialized monitoring of people, for integrating marketing information, as well as for use on the Smartphones.

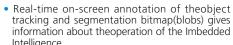


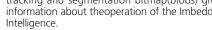
• High quality tracking engine • Instant alarm notifications

- Intelligent event search with video
- Unique, easy to use, patented 3D calibration
- area and height
- vehicle, clutter, etc.)

Features and Benefits of "GXi Imbedd ed Intelligence"







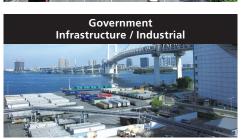
- Flexible licenses with add on functions
- Real-time display of object classification, speed,
- · Speed filter with upper and lower speed thresh-
- Filters for object class (people, group of people,
- Selection of object classification defined by user
- Full forensic metadata stream in XML format







*For the corresponding licenses, please see the back cover.

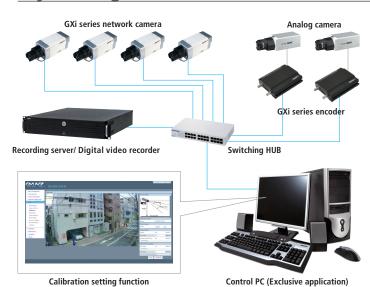


Loaded with the entire model of GXi Series

Education

Bullet Series	llet Series PTZ Series			Repositionable Dome Series			
ZN1-B4NVD43	ZN-PTZ202XE	ZN-PTZ202XE-XT	ZN-DN332XE-MPD	ZN-DNT372XE-MPD			
O out	autre .	aue#	anc.	OME!			
SONY EXMOR 1/2.9" 1080p CMOS	1/3" 108	80p CMOS	1/2.7″ 10	180p CMOS			
	1920 x 1	080					
Color: 1.0lux B/W : 0 lux (IR LED ON)		E) / 0.02lux (Sens-up) E) / 0.001lux (Sens-up)		: 0.5lux Ilux (DSS ON)			
3.0(w) – 9.0mm(t), F1.5(w) – F2.5(t), Optical 3x	4.45(w) – 89.0mm(t), F1.6(w)	– F2.9(t), Optical 20x, Digital 8x	3.0(w) – 9.0mm(t), F1.2(w) – F2.1(t), C	Optical 3x, Motorized Focus & zoom lens			
Horizontal: Approx. 98.2°(W) to 37.4°(T) Vertical: Approx. 55.2°(W) to 21.6°(T)		otation / Tilt Rotation Angle : -5° ~ 185° (T) / Vertical: Approx. 43.32°(W) to 2.34°(T)		8.0°(Wide) to 31.7°(Tele) 4°(Wide) to 23.8°(Tele)			
		True Day & Night (Removable IR Cut Filter)				
		H.264, MJPEG					
	Triple	Stream*, Configurable streams in H.264, I	MJPEG				
		Full HD 1080p(1920 x 1080)					
		25/30 fps@1080p					
-		1/	/ 1				
		1/1					
12VDC, PoE	microSD slot (u	p to 64GB) DE+(802.3at)	13VDC	24VAC, PoE			
6.0W @ 12VDC	18.0W @ 24VAC, PC	44.0W (heater on) @ 24VAC	8.7W @ 12VDC 16.2W @ 12VDC				
[12VDC] -20°C ~ 50°C (-4°F ~ 122°F); [PoE] -20°C ~ 45°C (32°F ~ 113°F);	[AC24V/PoE+] 0°C ~ 50°C (32°F ~ 122°F);	[AC24V] -40°C ~ 50°C (-40°F ~ 122°F); [PoE+] 0°C ~ 50°C (32°F ~ 122°F); Built-in fan and heater	0°C ~ 50°C (32°F ~ 122°F)	[12VDC/24VAC] -20°C ~ 50°C (-4°F ~ 122°F); [PoE] 0°C ~ 50°C (32°F ~ 122°F); Built-in fan and heater Cold Start: [12VDC/24VAC] -20°C(-4°F); [PoE] 0°C (32°F)			
		Up to 85% RH (non-condensing)					
86.0(W) x 83.5(H) x 280.0(D) mm	180(ø) x 240(H) mm	232.0(ø) x 278.1(H) mm	Housing: 165.3(ø) x 134.7(H) mm, Dome: 100.0(ø) mm	Housing: 154.4(ø) x 130.0(H) mm, Dome: 100.0(ø) mm			
860g	2.0kg	4.6kg	1.2kg	1.6kg			
CE / FCC / IP66	CE/FCC	CE / FCC / IP66	CE/FCC	CE / FCC / IP66			
		Supported					
-	Flash Mount Bracket:FMB-4200	Wall Mount Bracket : WMB-4600 Ceiling Mount Bracket : CMB-4600 Corner Mount Adapter : CMA-4600 Pole Mount Adapte	Flash Mount Bracket : FMB-3302	-			
ZN-BT662XE, ZN1-B4NMZ43 ZN-PTZ36VP(N), ZN-PTZ7VP(N)		ZN-PTZ36VP(N)-XT, ZN-PT27VP(N)-XT, ZN-37VP(N)-XT, ZN-PT12VP(N)-XT	-	ZN-DNT372XE-MPD-1			

Layout Image



Repositionable Camera

odel : ZN-DN332XE-MPD ZN-DN372XE-MPD

The Repositional camera has a simple PTZ function. It does not operate by the controller like the regular PTZ camera, but it is capable of setting up with ease the angles of the view during the operation time and it moves according to the schedule to the respective positions that have been registered in advance.

[Example]

- At the time of shelve-sorting during inventory in the store, it faces the directions to cover all the areas required, with no need of construction. It coordinates the angles.
- During the day, it covers the entire office and at night, it covers the entrance and exit.
- Even during construction, install the camera for the time being and make the adjustments later on.



It automatically makes the necessary changes to cover the areas to be monitored during the day and at night. The functions of VCA can be set, according to the respective needs.

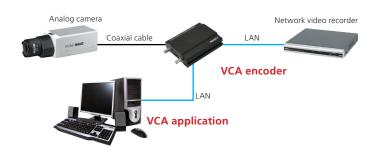
		Encoreder				
MODEL		ZS1-1DS	ZS1-4DS			
			The out			
	Input/ Output	1/1	4/-			
	Compressiont	H.264, MJPEG Sel	ectable per Stream			
Video	Number of Streams	Dual Stream, Configurable				
	MaximumResolutions	D1 (720 x 480/576)				
	Frame Rate	25/30fps @ D1 (PAL/NTSC)				
Audio	Input	4/1				
Function	DI / DO	2/2	4/4			
Tunction	SD Memory Card Slot	Supported (64GB)				
Electrical	Power Source	12VDC, PoE	12VDC (DC Jack)			
Liectrical	Power Consumption (Approx)	2.8W@12VDC	8.8W@12VDC			
Environmental	Operating Temperature (Not include cold start)	0°C ~ 50°C				
Liiviioiiiileiitai	Operating Humidity	Up to 85% RH (Non-condensing)				
Mechanical	Dimensions	103.4(W) x 37.7(H) x 140.7(D) mm	137.1(W) x 38.0(H) x 243.1(D) mm			
Weight (Approx)		430 g	920 g			
Certifications		CE/FCC				
Onvif		Supported				
Other Models		ZS1-4DB1	ZS1-4DB1 (Rack:ZA-NVE12K) ZS1-4DB2 (Rack:ZA-NVE40K)			

VCA Encorder

Model: ZS1-1/4DS

This is an encorder which has as its external unit the video analysis engine that is built-in the GXi Series Network Camera. Its setting is also simple. The input side is equipped with a coaxial cable outlet and the output side, with a LAN Port. All that needs to be done to connect it is to "bypass" between the analogue monitoring camera and the recorder. It is possible to invest the analogue monitoring camera with the "video analysis function".

Moreover, regarding the video analysis functions and applications, like the GXi Series Network Camera with the video analysis engine built-in, it selects the application for each function, corresponding to the objects to be monitored and the information to be collected.



		Thermal Series					
MODEL		ZN-TH110FVE-H					
	Focal Plane Array	17 μm Uncooled Vanadium Oxide Microbolomete					
	Effective Pixels	320x240					
	Spectral Response	8 - 14 μm					
Camera Module	Lens (Optional)	7.5mm, F1.4 (42.1 Degree FoV) 16.7mm, F1.2 (18.7 Degree FoV) 25mm, F1.2 (12.4 Degree FoV) 35mm, F1.2 (8.9 Degree FoV) 50mm, F1.2 (6.2 Degree FoV)					
	NEDT	Less than 50mK					
	Compression	H.264, MPEG4, MJPEG					
	Number of Streams	Dual Stream, Configurable					
Video	Maximum Resolutions	Sensor is 320x240; Image can be scaled from QCIF to D1					
	Frame rate	9Hz or 30Hz Models Available					
Audio In / Ou	t	1/1					
Function	DI / DO	1/1					
runction	SD Memory Card Slot	Support (microSD type)					
Electrical	Power Source	12V DC (Screw Terminal)					
Electrical	Power Consumption (Approx)	Estimated 6-8 Watts					
Environmental	Operating Temperature (Not include cold start)	indoor:0 °C ~ 50 °C (32 °F ~ 122 °F)					
	Operating Humidity	Up to 85% RH (Non-condensing)					
	Dimensions	55.0(W) x 55.0(H) x 125.7(D) mm					
Mechanical	Weight (Approx)	350g					
Certifications		-					
Onvif (Profile S)		-					
Other Models		-					

Thermal Camera

Thermal Camera is a camera that is capable of shooting infrared that is emitted naturally by objects. By the combination of the visualization of infrared and the highly functional video analysis engine (VCA) in the Thermal Camera, it is capable of monitoring most efficiently long distances and extensive areas even in total darkness.



Model: ZN-TH110FVE-H

High Accuracy Traffic Monitoring with ZN-TH110xVE

