



1080P HD IR IP Bullet with GXi Imbedded Intelligence



ZN1A-B4DZF56U/69U

Features:

- Full HD 1080P
- 1/2.8" SONY STARVIS Exmor Sensor
- True Day / Night and WDR
- VCA Technology Video Analytics
- Superior low light performance
- ProSet Remote Zoom and Focus
- 16 IR LEDs (131' / 197') range

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■ Specifications (Part 1)

Model		ZN1A-B4DZF56U	ZN1A-B4DZF69U	
Camera	Image Sensor	1/2.8" SONY STARVIS Exmor CMOS		
	Effective Pixels	1920 x 1080		
	Scanning System	Progressive scanning		
	AGC Control	Auto		
	Auto Iris	DC Auto Iris		
	Minimum Illumination	Color: 0.03 Lux (DSS On) / B/W : 0 Lux (IR LED ON)		
	Lens	2.8(w) ~ 12mm(t), F1.4(w) ~ F2.6(t)	7(w) ~ 22mm(t), F1.4(w) ~ F2.8(t)	
	Angle of View	Horizontal: Approx. 99° (Wide) to 35° (Tele) Vertical: Approx. 54° (Wide) to 20° (Tele)	Horizontal: Approx. 39° (Wide) to 17° (Tele) Vertical: Approx. 21° (Wide) to 9° (Tele)	
	Shutter Speed	Automatic: 1/30 ~ 1/10,000, Manual: 1/2 ~ 1/5,000		
	Day/Night Performance	True Day / Night (ICR)		
	Wide Dynamic Range	True WDR		
Video	Video Compression	H.264 Baseline, Main, High profile (MPEG - 4 Part 10/AVC), MJPEG (Motion JPEG)		
	Video Streaming	Dual Stream, Configurable streams in H.264, MJPEG H.264: Controllable frame rate, bandwidth (VBR/CBR) MJPEG: Controllable frame rate, JPEG Quality		
	Resolutions	16:9 Mode	1920 x 1080, 1280 x 720, 1120 x 630, 960 x 540, 800 x 450, 640 x 360, 480 x 270, 320 x 180	
		4:3 Mode	SXGA (1280 x 960), XGA (1024 x 768), SVGA (800 x 600), PAL (720x576), NTSC (720 x 480), VGA (640 x 480), QVGA (320x240)	
	Frame Rate	H.264 / MJPEG: Max 30fps in all resolution		
	Image Settings	Configurable brightness, contrast, saturation, sharpness		
	Orientation Control	Flip / Mirror / Corridor Mode (-90°, +90°)		
	Noise Filter	Supported (0 ~ 3)		
	Defogging	Supported		
	Smart Bitrate Control	Supported (works in VBR mode)		
	Exposure Adjustment	+1.0, +0.6, +0.3, 0, -0.3, -0.6, -1.0 EV		
	White Balance	ATW1 / ATW2 / Push / Manual		
	Flicker Control	Normal, 50Hz, 60Hz		
	DSS (Sens-up)	2X ~ 16X		
	BLC	On (possible to designate zone) / Off		
	Video Stabilization	Supported		
	Analog Output	NTSC / PAL		
	Text Overlay	Time stamp and text caption overlay		
	Privacy Mask	4 configurable regions		
	Audio	Audio Streaming	Two Way	
Audio Compression		G.711		
Audio Input / Output		1/1		
Network	Ethernet Standard	10 / 100 Base-T		
	IP	IPv4, IPv6		
	Protocol	QoS Layer 3 DiffServ, TCP/IP, UDP/IP, HTTP, HTTPS, FTP, RTSP, RTCP, RTP/UDP, RTP/TCP, mDNS, UPnP™, SMTP, DHCP, DNS, DynDNS, NTP, SNMPv1/v2c/v3(MIB-II), IGMP, ICMP, SSLv2/v3, TLSv1/1.2, SRTP, RTMP, IEEE802.1X		
	Security	HTTPS(SSL), IP Filtering, Multi-level access with password protection		
	Users	Live Viewing for up to 10 clients		

All specifications are subject to change without notice.

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■ Specifications (Part 2)

Model		ZN1A-B4DZF56U	ZN1A-B4DZF69U
Integration	Application Programming Interface	Software Development Kit (SDK) available	
	Event Sources	Sensor(DI); Alarm(DO); Video Motion Detection; Face Detection; Tamper Detection; Video Content Analytics(VCA); Network Loss/Detect; Network Setting Change; Time(Recurrence/Schedule); Storage Error	
	Event Actions	File upload: E-mail, FTP; Notification: E-mail, FTP, HTTP, TCP; Trigger-Alarm(DO); Recording; Event Log Saving	
	Event Metadata Streaming (RTSP/RTP)	Video Motion Detection (MD); Video Content Analytics (VCA)	
	ONVIF Compliance	Profile S, Profile G	
Imbedded Intelligence (standard)	Analytics Engine	VCA Technology's advanced tracking algorithm with rich library of detection behaviors	
	Detection Zones	40 zones (Multi-segment Polygons and Lines) in total	
	Rules	60 rules in total	
	Tamper Detection	Supported	
Imbedded Intelligence (optional)	Detection Behavior	Enter, Exit, Appear, Disappear, Stop, Direction, Dwell filter; Tailgating; Color Filter	
	Logic Rules	Extends standard rules to allow various combinations of the inputs	
	3D Behavior	Perspective Corrected Size and Speed Filters	
	Object Classification	Configured Max./Min. object sizes and Max./Min. speeds	
	People Tracking	Tracks individuals separately among overlapped multiple people	
	Counting	20 counters in total	
	Counting Line	High accuracy people and vehicle counting	
	Counter Report	Generates counter reports based on the counter database	
	Heatmap Report	Shows relative crowd density of the 24 hour period (criterion: midnight)	
Edge Storage	Meta Data	Plain XML Format	
	Storage	1x MicroSD memory card slot (SD/SDHS up to 32GB, card not included)	
	Recording Types	Continuous Recording or Event Recording	
	Continuous Recordings	Instant recording; Search & Download	
Physical	Event Recording	Search of Event Logs; Playback; Download	
	Material	Aluminum Die-Casting; Ivory	
	External I/O Terminals	1x Alarm In, 1x Alarm Out	
	Language	English, Korean, Chinese	
	IR LEDs	16 Smart IR LEDs (131' Range)	16 Smart IR LEDs (197' Range)
	Power / Consumption	12VDC, PoE+ / Max. 17W @ 12VDC (Heater on, IR LEDs on)	
	Operating Conditions	[12VDC/PoE+] -40°F ~ 122°F (-40°C ~ 50°C) Built in heater; Humidity up to 85% RH (non-condensing)	
	Dimensions	3.3" (ø) x 3.3" x 11.0" / 86mm (ø) x 83.5mm x 280mm	
	Weight	1.97 lbs (895 g)	
Certifications	FCC, CE, KC, IP66, Onvif S, Onvif G		

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