

DynaHawk™ ZF Series

Hyper Mini Rugged Dome IP Camera

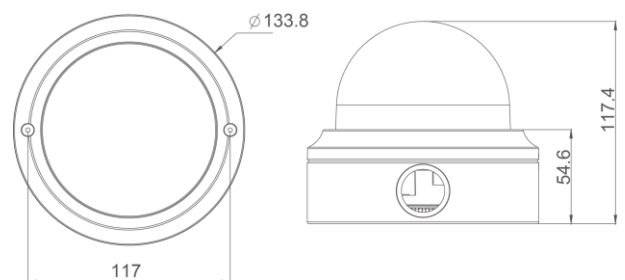


The Hyper Mini Rugged Dome IP Camera is an easy setup camera with PoE supported to reduce complicated cabling without sacrificing performance. Quad Streams Compression (H.264 Baseline / Main / High Profile + MJPEG) are supported for efficient bandwidth and storage management. Up to 4K2K real-time resolution is offered for providing high definition images. For dark environments, the camera has HDR, 3DNR and Day/Night ICR technologies to capture clear images.

The compact outlook design of ZF Series is ideal for hard surface mount installation, and with conduit for cabling in outdoor environment. Meanwhile, the modularized design of ZF Series makes the installation even more easier by snapping on the camera module after housing installation directly. Mounting accessories like in-ceiling mount, wall mount bracket, pendant mount kit are all available for ZF Series.

Key Features

- Sony Progressive Scan CMOS Sensor 6M / 8M Resolution*
- Quad codec support (H.264 Baseline / Main Profile / High Profile / MJPEG)
- Quad Streams Support
- Tampering Alarm
- Motion Detection
- Text Overlay and Privacy Masks
- 3D Motion Compensated Noise Reduction (MCTF)
- Network Failure Detection
- True Day/Night Function (ICR)
- IR LED Module support (working distance up to 40m) *
- BNC Analog Output
- Weatherproof (IP66 International)
- Vandal Proof (IK10 Rating)
- 64GB SDXC SD Card support
- RS-485 Support
- ONVIF Profile S Support



DynaHawk™ ZF Series - Hyper Mini Rugged IP Camera

Camera		Z4SA-F	Z4SF-F
Image Sensor		1/1.8" Sony Progressive CMOS	1/1.7" Sony Progressive CMOS
Effective Pixels		6M (3072x2048)	8M (3840x2160)
Minimum Illumination	Color	0.04 lux	0.05 lux
	B/W	0.002 lux	0.005 lux
Shutter Speed		1 ~ 1/10000 sec.	

Lens		Motorized / Vari-focal	Motorized / Vari-focal
Focal Length		4.3 - 8 mm	3.6 - 8 mm
F Number		F1.45	F1.45
FOV		TBD	116° (Wide); 52° (Tele)

Operation		English / French / German / Italian / Japanese / Korean / Portuguese / Russian / Simplified Chinese / Spanish / Traditional Chinese	
Image Setting	Iris Control	P-iris / DC Iris	
	Backlight Compensation	On/Off	
	White Balance	Auto / Manual / ATW / One Push	
	Noise Reduction	3DNR / 2DNR / Color NR	
	Wide Dynamic Range	Gamma WDR On / Off	
	Privacy Mask	On/Off	
	Brightness	Manual	
	Exposure	Auto / Manual	
	Sharpness	Manual	
	Contrast	Manual	
	Saturation	Manual	
	Hue	Manual	
	Digital Zoom	Support	
	Privacy Mask Type	Color	
	Event Setting	ICR	Auto / Night / Day / Smart
ICR + IR LED*		Auto / Night / Day / LED On / LED Off / Smart IR / Light Sensor	
IR Threshold		Adjustable Levels	
Motion Detection		By Schedule / On / Off	
Tampering Alarm		By Schedule / On / Off	
Network Failure Detection		By Schedule / On / Off	
Audio Detection		On / Off	
Audio	Two-way Audio	Line in / Line Out	
	Compression	G.711 / G.726 / AAC / LPCM	
	Bit rate	G.726 : 16Kbps/24Kbps/32Kbps/40Kbps, G.711 : uLAW(64Kbps)/ALAW(64Kbps), AAC:128 Kbps, PCM: 128Kbps/256Kbps/384Kbps/768Kbps	
Sampling rate	8 KHz		

Network		RJ-45, 1Gbps Ethernet	
Video Compression		MJPEG / H.264 (MPEG-4 Part 10/AVC) Baseline / Main Profile / High Profile	
Video Streaming	Single Stream	H.264 6M (3072x2048) @25/30 fps	H.264 4K2K (3840x2160) @25/30fps
	Dual Streams	H.264 6M (3072x2048) @25/30 fps + 720P @25/30fps H.264 1080P @50/60 fps + H.264 1080P @25/30 fps Note: 1 of the streamings can be MJPEG	H.264 4k2k (3840x2160) @20 fps + H.264 1080P @20 fps H.264 1080P @50/60 fps + H.264 1080P @25/30 fps Note: 1 of the 2M or under streamings can be MJPEG
	Quad Streams	H.264 1080P @50/60 fps + H.264 SXGA @25/30 fps + H.264 720P @25/30 fps + H.264 D1 @25/30 fps Note: 1 of the streamings can be MJPEG	
Video Resolution	H.264	6M (3072 x 2048) / Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D1 / VGA / CIF / QVGA	4K2K (3840 x 2160) / Full HD 1080P / SXGA / 720P / XGA / SVGA / D1 / VGA / CIF / QVGA
	MJPEG	Full HD 1080P / SXGA / 720P / XGA / SVGA / D1 / VGA / CIF / QVGA	
Protocol		IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, UPnP, IGMP, SNMP, QoS, ONVIF	
Security		HTTPS / IP Filter / IEEE 802.1X	
Alarm	Input	1 Set 5V 10kΩ pull up	
	Output	1 Set Photo Relay Output 300V DC/AC	
RS-485		Pelco D / Pelco P / Universal	
Event Notification		HTTP / FTP / SMTP	
SD		SDXC 64GB support	
Supported Web Browser		Internet Explorer (6.0+) / Chrome / Firefox / Safari	
User Account		20	
Password Levels		User and Administrator	

Mechanical		Power / Link / ACT	
Built-in IR Illuminator*	Working Distance	up to 40 m	
	Wavelength	850 nm	
	Number of LEDs	6	
LED Indicator		Power / Link / ACT	
Connectors	Alarm	4 of 9 Pin Terminal Block	
	Power	2 Pin Terminal Block (Female)	
	Ethernet	RJ-45	
	Analog Video	2 pin connector	
	Audio*	5 of 9 Pin Terminal Block	
RS-485		3 Pin Terminal Block	

General		DC 10V-48V / AC 24V / PoE (802.3af)	
Operating Temperature		w/o Heater: -20°C ~ 50°C (-4° ~ 122°F) w/Heater: -50°C ~ 50°C (-58° ~ 122°F)	
Start-up Temperature		w/o Heater: -10°C ~ 50°C (14° ~ 122°F) w/Heater: -50°C ~ 50°C (-58° ~ 122°F)	
Humidity		10% ~ 90%, No Condensation	
Weatherproof Standard*		IP66	
Dimension		Ø 133.8 x 117.4 mm (Ø 5.2 x 4.6 in.)	
Weight		765 g (1.69 lb)	
Power Source		DC 10V-48V / AC 24V / PoE (802.3af)	
Power Consumption	Operation (802.3af)	System	5.6W
		Others	Zoom/Motorized Lens: +0.55W / IR LED: +3.2W / ICR Switching: +0.5W /Heater: +3W
	Cold Start (802.3af)	Heater	11.5W
Regulatory		CE / FCC	

* mark for optional items

Product specification and availability are subject to change without notice.



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