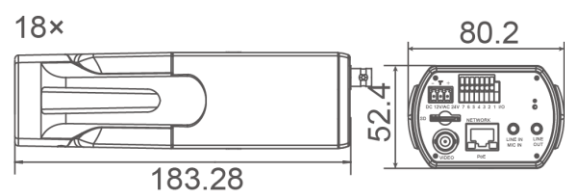# Dynacolor Z7 Series

The Multiple Streams Ultra High Definition Zoom AF Box IP Camera supports both H.264 and MJPEG standard. The performance of the H.264 encoder can be 3M / 4M resolution at up to 60fps. Equipped with HDR (High-Dynamic Range) function, the camera can provide high quality and clear image under extreme light contrast scenario or changing lighting environment. With Smart Event function, alarm / event can be categorized by event types, which makes event management much easier. In addition, with 30x optical zoom, the camera can deliver users more detailed images, such as facial features and clothing. The camera offers strengthened support for surveillance application that demands consistent precision zoom control while high resolution and superior video quality are requisite.

▌ Key Features

- 3MP / 4MP Resolution @ 60fps
- 3x / 18x / 30x Optical Zoom with Auto Focus
- HDR (Multiple Shutter Exposure) and WDR (Digital Enhancement)
- Multiple Streams + Analog Composite SD Video Output Support
- H.264 Baseline / Main Profile / High Profile / SVC and MJPEG Codec Support
- 3D Motion Compensated Noise Reduction (MCTF)
- Electronic Image Stabilization (EIS)
- Smart Event Function ▯
  Audio Detection / Motion Detection / Network Failure Detection / Tampering Alarm
- Encoding Parameter Change On-the-fly
- Multiple and Dynamic Region of Interest (ROI) Windows
- Text Overlay and Privacy Masks
- microSD and NAS Support
- RS-485 Support
- ONVIF Support

Dynacolor Z7 Series

Camera		Z4SD-7	Z4V6-7
Image Sensor		1/2.8" Sony Progressive CMOS	1/3" Progressive CMOS
Effective Pixels		3M (2048x1536)	4M (2688x1520)
Shutter Speed		1 ~ 1/10000 sec.	

Lens	
Lens	3x/ 18x/ 30x Optical Zoom, Auto Focus
Focal Length	3x: 3-9mm/ 18x: 4.7-84.6mm/ 30x: 4.3-129mm
F Number	3x: F1.2 (Wide); F2.1 (Tele)/ 18x: F1.6 (Wide); F2.8 (Tele)/ 30x: F1.6 (Wide); F5 (Tele)

Operation		
Multiple Languages		English / French / German / Italian / Japanese / Korean / Portuguese / Russian / Simplified Chinese / Spanish / Traditional Chinese
Image Setting	Backlight Compensation	On / Off
	White Balance	Manual / AWB / ATW
	Brightness	Manual
	Exposure	Auto / Manual
	Sharpness	Manual
	Contrast	Manual
	Saturation	Manual
	Hue	Manual
	Noise Reduction 3D	On / Off (w/ Motion Compensation)
	Wide Dynamic Range	Shutter WDR On / Off
	Digital Zoom	Support 10x
	ICR	Auto /On /Off
	Privacy Mask	On / Off
	Region of Interest	On / Off
Event Setting	Network Failure Detection	By Schedule / On / Off
	Audio Detection	On / Off
	Motion Detection	By Schedule / On / Off
	Tampering Alarm	By Schedule / On / Off
Audio	Two-way Audio	Built-in MIC / Two-way Audio (Line in / Line out)
	Compression	G.711 / G.726

Network			
Interface		RJ-45, 1Gbps Ethernet	
Video Compression		MJPEG / H.264 (MPEG-4 Part 10/AVC) Baseline / Main Profile / High Profile / SVC	
Video Streaming	Single Streaming	H.264 3M @50/60 fps	H.264 4M @50/60 fps
	Dual Streaming	H.264 3M @50/60 fps + H.264 720P @25/30 fps Note: 1 of the 2M or under streamings can be MJPEG	H.264 4M @25/30 fps + H.264 1080P @25/30 fps Note: 1 of the 2M or under streamings can be MJPEG
	Quad Streaming	H.264 3M @25/30 fps + H.264 1080P @25/30 fps + H.264 720P @25/30 fps + H.264 D1 @25/30 fps Note: 1 of the 2M or under streamings can be MJPEG	H.264 4M @25/30 fps + H.264 1080P @25/30 fps + H.264 720P @25/30 fps + H.264 D1 @25/30 fps Note: 1 of the 2M or under streamings can be MJPEG
Video Resolution		H.264 - 3M (2048x1536) / Full HD 1080P / SXGA / 720P / XGA / SVGA / D1 / VGA / CIF / QVGA MJPEG - Full HD 1080P / SXGA / 720P / XGA / SVGA / D1 / VGA / CIF / QVGA	H.264 - 4M (2688x1520) / Full HD 1080P / SXGA / 720P / XGA / SVGA / D1 / VGA / CIF MJPEG - Full HD 1080P / SXGA / 720P / XGA / SVGA / D1 / VGA / CIF
Protocol		ARP, 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	
Event Notification		HTTP / FTP / SMTP	
Storage	Local	microSDXC 64GB support	
	Network	NAS	
Supported Web Browser		Internet Explorer (6.0+) / Chrome / Firefox / Safari	
User Account		20	
Password Levels		User and Administrator	

Mechanical		
LED Indicator		Power / Link / ACT
Connector	Alarm	4 Pin Terminal Block, Pitch 3.5 mm
	Power	3pin Terminal Block
	Ethernet	RJ-45
	Analog Video	1.0 Vp-p / 75 Ω, BNC
	RS485	D+, D-
	Audio	Stereo Phone Jack, Ø 3.5mm

General	
Operating Temperature	-10°C ~ 50°C (14° ~ 122° F)
Humidity	10% ~ 90%, No Condensation
Dimension	3x: 165.0 x 80.0 x 52.4 mm (L x W x H) 18x & 30x: 183.3 x 80.2 x 52.4 mm (L x W x H)
Weight	3x: 300g (0.66 lb)/ 18x: 450g (1lb)/ 30x: 470g (1.04lb)
Power Source	DC 12V / AC 24V / PoE
Regulatory	EMC/ LVD/ FCC

* mark for optional items
Product specification and availability are subject to change without notice.