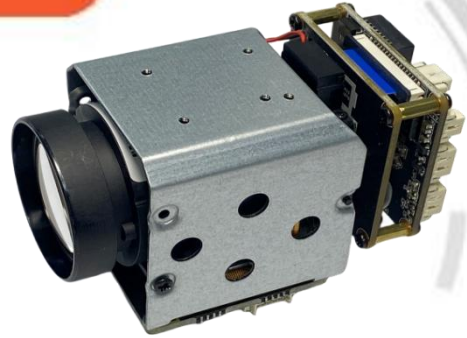## IPA800Z10
4K 8MP 10X Optical Zoom IP Camera

The IPA800Z10 4K Real-time lighting AI high-definition network camera module adopts upgraded H.265 encoding technology,and the environmentally friendly series brings efficient video compression capabilities.It can save bandwidth and storage space.Embedded web server,supporting internet exploration monitoring,configuration,and upgrade;Standard SDK (Linux, Windows),easy to integrate with other digital systems.

Key Features：

- 1/2.8"8MP Sony IMX415 Sensor
- Maximum resolution up to 3840x2160@20fps
- True Day/Night,3D DNR,Digital WDR
- Support Motion Detection
- Support AI human detection,vehicle detection
- Support the P2P on Android, IOS
- Support two way audio
- Support ONVIF2.4
- Support TCP/IP/HTTP/NTP/DHCP/SMTP/RTSP

Technical specifications:

Image sensor	
Sensor	1/2.8" 8MP IMX415 CMOS
Maximum resolution	3840x2160@20fps
Minimum illumination	Color:0.005Lux B/W:0.01Lux
Shot	
Focal length	5-50mm,F1.6-F2.5
Viewing angle	70.9°(nearfocus)~7.1°(farfocus)
Camera	
AGC	Auto/Manual
S/N ratio	≥50dB(AGC OFF)
Shutter speed	1/2 - 1/20,000s,Slow shutter support
Wide dynamic range	Digital WDR≥73.7dB
Exposure mode	Auto/Manual/shutter mode
White balance	Auto/Manual/ATW/Indoor/Outdoor/lamp
Day & Night	External control(IR Cut Filter)
Compressed format	
Video compression	H.265+/H.265/H.264
Audio compression	G711
Audio frequency	
Input	Passive MIC
output	Built in amplifier for direct speaker connection
Image resolution	
Main stream	3840x2160@20fps/3072x2048/2592x1944/2560x1440@30fps
Sub stream	640×480/480x360/352×288/176×144@30fps
Protocol	
Network protocol	HTTP/RTSP/DHCP/NTP/P2P/ONVIF
Network interface	
Wired	1ch 10/100BaseT Ethernet,RJ45 interface
Other	
Power supply	12VDC
Size	69x39x44mm
Operation temperature	-30°C~65°C
Working humidity	≤90% RH(non-condensing)

Interface	Pin	Pin name	Functional parameter
J1	1	TX+	Network receiving differential signal TX+
	2	TX-	Network receiving differential signal TX-
	3	RX+	Network receiving differential signal RX+
	4	RX-	Network receiving differential signal RX-
J2	1	TXD1	P/T to RXD
	2	RXD1	P/T to TXD
	3	DOME UART2-TX	Pelco-D serial port 9600 For P/T OUT
	4	DOME UART2-RX	ICR (Visca/R led ICR)
	5	GND	Gnd
	6	DC12V	Power supply 12V
J3	1	GND	Gnd
	2	Audio out	Audio out
	3	Audio in	Audio in
	4	GND	Gnd
J4	1	USB3.3V	USB3.3V
	2	USB D+	USB D+
	3	USB D-	USB D-
	4	GND	Gnd
J5	1	Reset	Reset
	2	GND	Gnd
J6	1	White LED	Output 3.3VWhen the camera night image becomes color
	2	IR LED	Output 3.3VWhen the camera night image becomes B/W.
	3	GND	Gnd