



## **IPTZ1016** 4MP 40X IR NETWORK PTZ CAMERA

### **FEATURES**

- IEC61850-3\*, IP66, IK10, Substation rated Camera
- High Definition 1080p 60fps / 30fps
- Up to 250m (820ft) IR distance
- Available with fiber or copper network port

### **KEY BENEFITS**

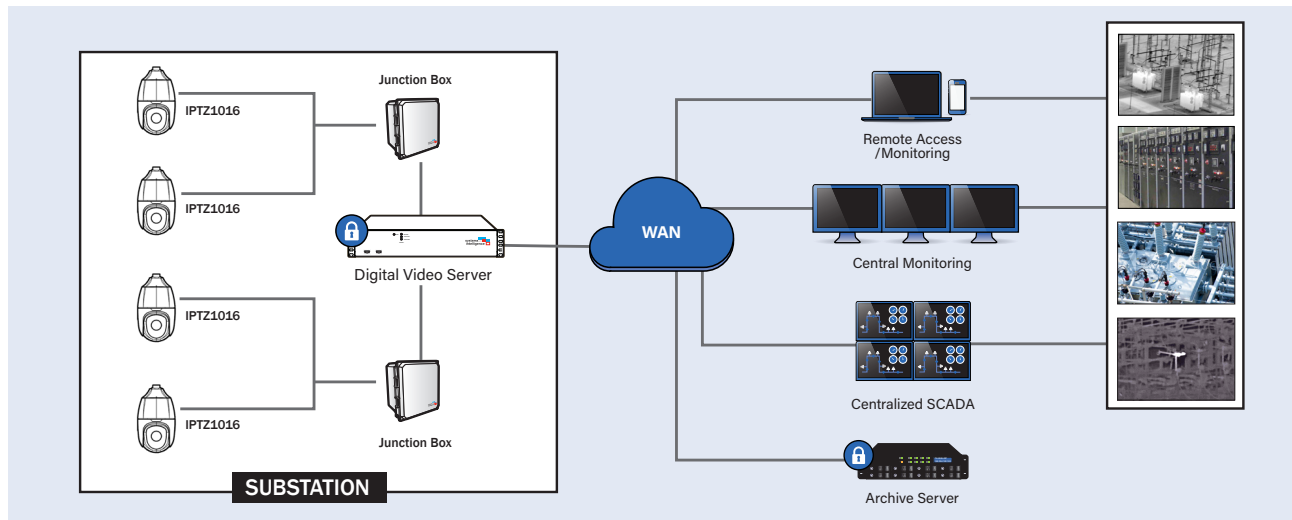
- High Reliability Operation in Extreme Environments
- Clear Day and Night Vision
- Optimized Bandwidth for Remote Locations
- Detailed real-time substation visualization

The Systems With Intelligence IPTZ1016 Pan/Tilt/Zoom camera provides clear, high definition images from environmentally challenging, remote locations. The IPTZ1016 can be used for safety, security and asset monitoring applications in unmanned industrial sites such as electrical power substations, wind and solar farms and oil and gas sites. With built in Pan/ Tilt/Zoom presets, the IPTZ1016 patrols the site automatically to capture events. The user can take command of the camera remotely to zoom in and capture up close details of equipment or people on site with the 38x zoom lens. The onboard long range infrared illuminators allow the IPTZ1016 to capture clear images both day and night. The environmental ratings of the IPTZ1016 make it ideal for the most reliable operation in harsh conditions.

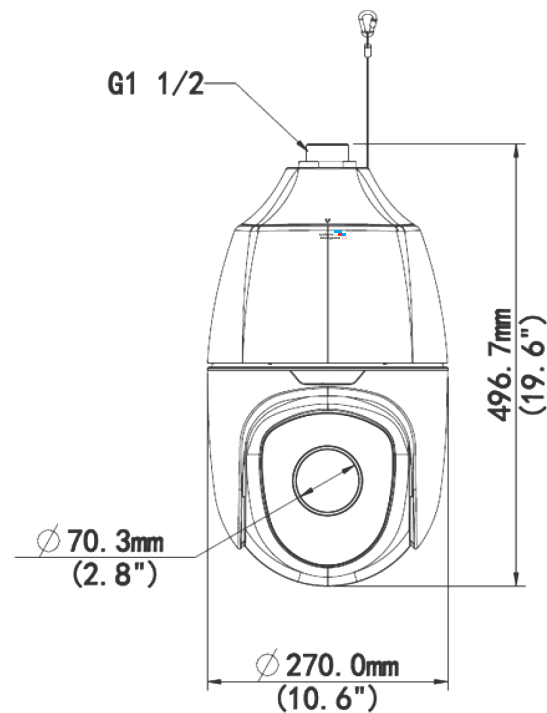
\* Note: EMC/EMI portion. Support from CJB400X Junction Box is required to meet the standard.



## TYPICAL NETWORK ARCHITECTURE



## DIMENSIONS



All units in millimeters (inches)



## TECHNICAL SPECIFICATIONS

SPECIFICATIONS					
CAMERA					
Sensor	1/1.8", 4.0 megapixel, progressive scan, CMOS				
Minimum Illumination	Colour: 0.0005Lux (F1.3, AGC ON) 0Lux with IR				
Day/Night	IR-cut filter with auto switch (ICR)				
Shutter	Auto/Manual, 1 ~ 1/100000s				
WDR	120dB				
S/N	>56dB				
Lens					
Lens type	5.7 ~ 228mm, AF automatic focusing and motorized zoom lens				
Digital Zoom	16				
Optical Zoom	40				
Iris	Auto; F1.3 ~ F4.6				
Angle of View (H)	59.5° ~ 2.2°				
Angle of View (V)	35.6° ~ 1.2°				
Angle of View (O)	70.2° ~ 2.6°				
DORI					
DORI Distance	Lens (mm)	Detect (m)	Observe (m)	Recognize (m)	Identify (m)
	5.7	107.2(351.8ft)	42.9(140.7ft)	21.4(70.4ft)	10.7(35.2ft)
	228	3330.6(10927.2ft)	1332.2(4370.9ft)	666.1(2185.4ft)	333.1(1092.7ft)
Illuminator					
IR Range	Up to 250m (820 ft) IR range				
Wavelength	850nm				
IR On/Off Control	Auto/Manual				
Video					
Video Compression	Ultra 265, H.265, H.264, MJPEG				
Frame Rate	Main Stream: 4MP (2688*1520), Max 30fps; Sub Stream: 2MP (1920*1080), Max 30fps; Third Stream: D1 (720*576), Max 30fps Fourth Stream: D1 (720*576), Max 30fps Fifth Stream: D1 (720*576), Max 30fps				
Video Bit Rate	128 Kbps~16 Mbps				
H.264 Type	Baseline Profile/Main Profile/High Profile				
H.265 Type	Main Profile				
U-code	Support				
ROI	Up to 8 areas				
Video stream	Five streams				
OSD	Up to 8 OSDs				
Privacy Mask	Up to 24 blacks (Up to 4 blacks in the same picture)				
Image					
White Balance	Auto/Outdoor/Fine Tune/Sodium Lamp/Locked/Auto2				
Digital noise reduction	2D/3D DNR				



## TECHNICAL SPECIFICATIONS (CONT'D)

SPECIFICATIONS	
Flip	Normal/Flip Vertical/Flip Horizontal/180°/90°Clockwise/90°Anti-clockwise
EIS	N/A
HLC	Support
BLC	Support
Defog	Optical Defog & Digital Defog
Events	
General Function	Watermark, IP Address Filtering, Alarm input, Alarm output, Access Policy, ARP Protection, RTSP Authentication, User Authentication
Audio	
Audio Compression	G.711U,G.711A
Audio Bitrate	64 Kbps
Two-way audio	Support
Suppression	Support
Sampling Rate	8KHZ
Storage	
Edge Storage	Micro SD, up to 256GB
Network Storage	ANR,NAS(NFS)
Network	
Protocols	IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, QoS, RTMP, SSL/TLS
Compatible Integration	ONVIF (Profile S, Profile G, Profile T), API, SDK
User/Host	Up to 32 users. 2 user levels: administrator and common user
Security	Password protection, strong password, HTTPS encryption, Export operation logs, basic and digest authentication for RTSP, digest authentication for HTTP, TLS 1.2, WSSE and digest authentication for ONVIF
Client	EZStation Ezview EZLive
Web Browser	Plug-in required live view: IE9+, Chrome 41 and below, Firefox 52 and below
Pan & Tilt	
Pan Range	360° (endless)
Pan Speed	0.1°/s ~ 180°/s
	Preset speed: 300°/s
Tilt Range	-15° ~ 90° (auto reverse)
Tilt Speed	0.1° ~ 180°
	Preset speed: 240°/s
Number of Presets	1024
Patrol	Preset patrol, route patrol, recorded patrol
Patrol Stay Time	15s~1800s
Preset Image Freeze	Support
Home Position	Support



# TECHNICAL SPECIFICATIONS (CONT'D)

SPECIFICATIONS	
Interface	
Audio I/O	1/1
Alarm I/O	7/2
Serial Port	1 RS485
Built-in Mic	N/A
Built-in Speaker	N/A
WIFI	N/A
Network	1*100M/1000M Base-FX SFP + 1*10M/100M Base-TX Ethernet
Video output	1 BNC
Certification	
EMC	FCC CFR 47 Part 15 EN 55032:2015 EN 55024:2010 EN 61000-3-2:2014 EN 61000-3-3-2013
Safety	IEC 62368-1 EN 62368-1 UL 60950-1
Environment	CE-ROHS (2011/65/EU;(EU)2015/863); WEEE (2012/19/EU); REACH (Regulation (EC) No 1907/2006)
Protection	Ingression protection: IP66 (IEC 60529-2013)
General	
Power	AC 24V ±25%, DC 24V±25%
	Power consumption: Max 61W
Power Interface	Wires with cold-pressed terminal
Dimensions (Ø x H)	Φ270 x 497mm (Φ10.6" x 19.6")
Weight	9.5kg(20.9lb)
Working Environment	-40°C ~ 70°C (-40°F ~ 158°F), Humidity: ≤95% RH (non-condensing)
Storage Environment	-40°C ~ 70°C (-40°F ~ 158°F), Humidity: ≤95% RH (non-condensing)
Surge Protection	6KV
Vandal Resistant	N/A
Ingress Protection	IP66
Reset Button	Support

## JUNCTION BOX

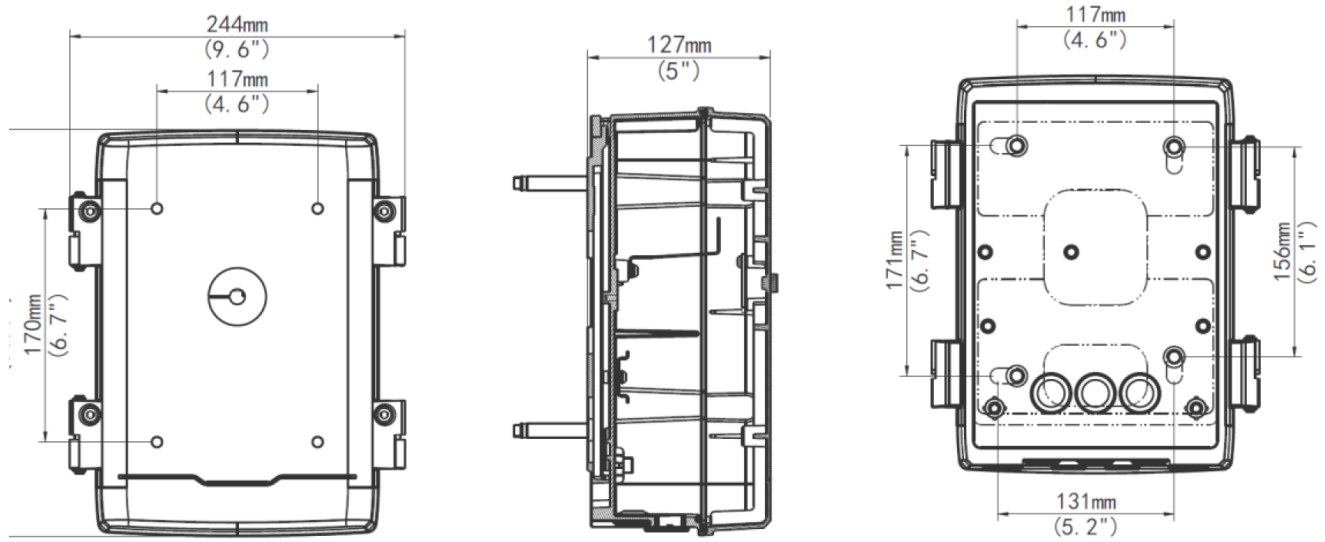
Outdoor or indoor cable junction box for PTZ Dome series, Option A20

- 296mm x 244mm x 127mm (11.7" x 9.6" x 5")
- 2.5kg (5.5lb)
- Made of aluminum alloy





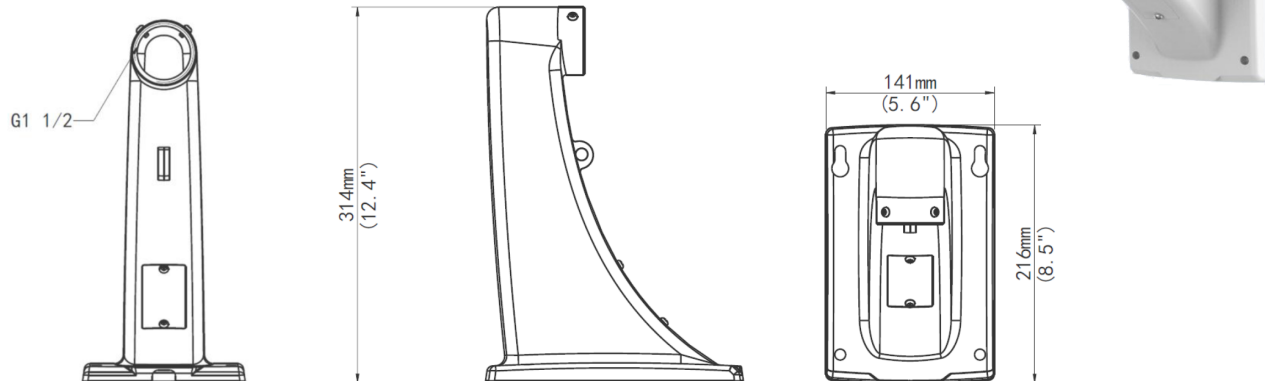
## JUNCTION BOX DIMENSIONS



## MOUNTING OPTIONS

### Wall Mount with Cable Feedthrough, Option A20

- Indoor or outdoor, PTZ dome pendant installation
- Wall or vertical structure
- Made of cast aluminum alloy

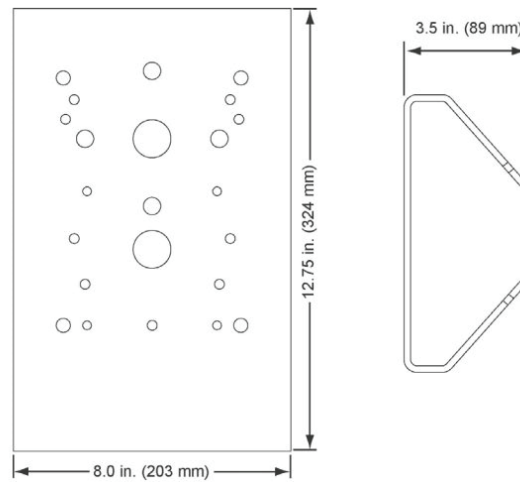




## MOUNTING OPTIONS (CONT'D)

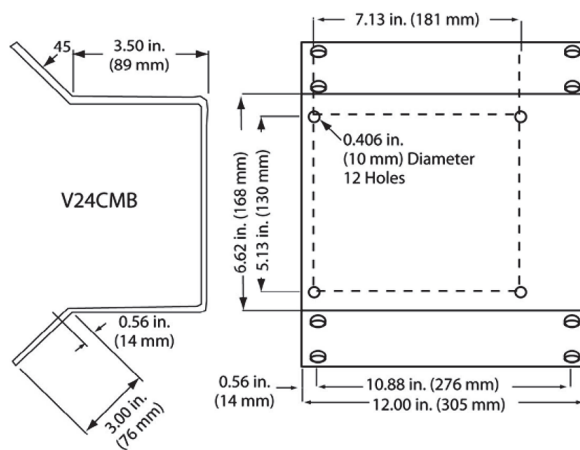
### Pole Mount Adapter, Option A10

- Minimum pole diameter: 4 in.
- Maximum pole diameter: 10 in.
- Made of aluminum



### Corner Mount Adapter, Option A11

- Corrosion-protected steel construction
- Height: 6.6 in. (168mm)
- Width: 12 in. (305mm)

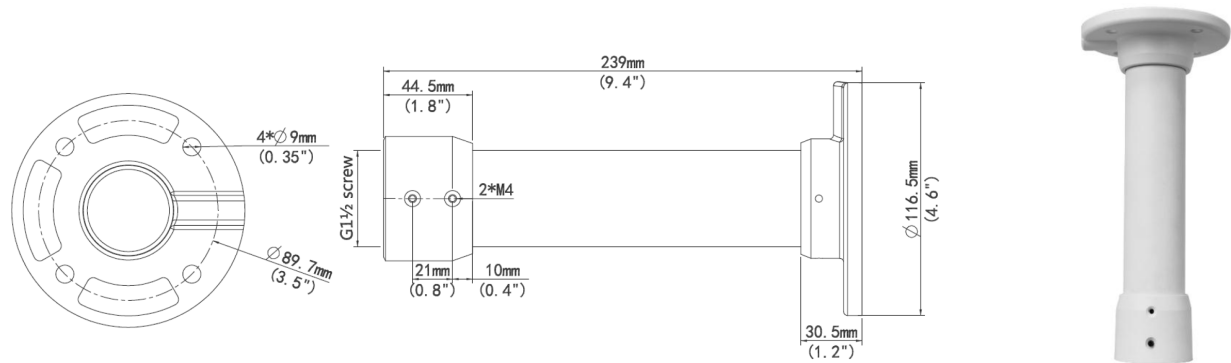




# MOUNTING OPTIONS (CONT'D)

## Pendant Mount, Option A14

- Indoor or outdoor, PTZ dome pendant installation
- Made of aluminum alloy
- Unit weight: 0.67kg (1.5lb)



# CONFIGURATION



BASE UNIT	DESCRIPTION
S	High Speed, 40x Zoom, IP PTZ, Dome Camera
CAMERA ARM	
AXX	No Arm
A10	Pole Mount Adapter with Cable Feedthrough
A11	Corner Mount Adapter with Cable Feedthrough
A14	Pendant Mount with Cable Feedthrough
A20	Wall Mount with Cable Feedthrough
ETHERNET PORT	
C01	RJ45 10M/100M/1000M Base-TX
LC1	100FX, multimode, 2km, LC interface
CABLE LENGTH	
CL05	5 feet of communications and power cable
CL10	10 feet of communications and power cable
CL30	30 feet of communications and power cable
CL45	45 feet of communications and power cable

**NOTE: Mounting Hardware:** All mounting hardware brackets and arms will be dependant on the specific installation. SWI application engineers will determine the best options.



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