

1/2" High Sensitivity Camera

TSO-HS128

2MP x12 Zoom Hybrid(Network+HD-SDI) Speed PTZ Dome Camera

HD-SDI

ONVIF

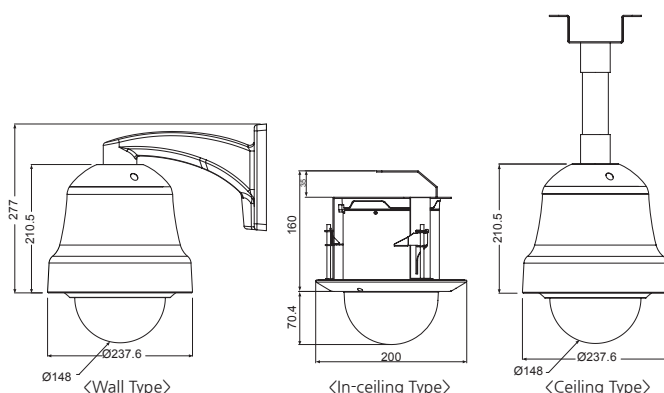


Features

- 1/2" 2MP Sony CMOS sensor
- 1080p@30/25fps, 720p@60/50fps, 720p@30/25fps
- NETWORK, HD-SDI, CVBS
- x12 Optical Zoom(7mm~84mm) & x32 Digital Zoom
- Day & Night(ICR)
- Real-time True WDR
- Digital Noise Reduction(2D+3D)
- Digital Image Stabilizer
- Privacy Mask Function
- High Light Compensation
- Defog Function
- 255 Presets, 8 Tours, 8 Scans, 4 Patterns, 16 Areas, 8 Alarms
- 360° Endless Pan Rotation
- -40°C~+60°C All weather High Tolerance
- Corrosion-resistant external PC housing
- Weather-proof IP66 outdoor housing
- Airflow Control System
- IPv4, IPv6 Support
- Triple Stream
- H.264, MJPEG
- ONVIF compliant API
- Industry leading latency of 200ms/2Mpix Bandwidth adaptive video streaming
- Dynamic IP support
- SD/SDHC memory slot
- Bi-directional audio support

Dimensions

Unit : mm



GENERAL	
Power Source	AC21~26V 60Hz / 50Hz(Power adaptor not included)
Power Consumption	12W / Max 75W(Fan & Heater)
Operating Temperature	-40°C ~ +60°C / 0% ~ 90% RH
Ingress Protection	IP66
Material	Aluminum
Dimensions	237(Ø) x 310(H) mm
Weight	3.8Kg

CAMERA	
Image Sensor	1/2" Sony CMOS Sensor
Total Pixels	1952(H) x 1241(V) = 2.42M Pixels
Active Pixels	1937(H) x 1097 (V) = 2.12M Pixels
Video Format	1080p@30/25fps, 720p@60/50fps, 720p@30/25fps
Min. Illumination	Color(1/30s) : 0.15 lux , BW(1/30s) : 0.01lux Color DSS(1/7.5s) : 0.0375 lux , BW DSS(1/7.5s) : 0.002 lux
S/N Ratio	more than 50dB (AGC off)
Video Output	NETWORK, HD-SDI, CVBS

LENS		x12		
Lens Type		x12 Day & Night Zoom Lens		
Zoom Ratio		Optical x12, Digital x32 Zoom		
Focal Length		f = 7.0mm ~ 84mm		
Aperture Ratio		F1.5 (wide) ~ F1.9 (tele)		
Angle Of View (D, H, V)	WIDE	58.3°	51.1°	30°
	TELE	6.5°	5.0°	3.2°

PAN / TILT	
Pan	360° Continuous Pan, 0.1° to 120°/sec
Pan Speed	360°/sec, ± 0.1° Accuracy
Tilt	0° to 90° tilt angle, 0.1° to 120°/sec.
Tilt Speed	250°/sec, ± 0.05° Accuracy
Preset	255 points, less than 0.1° accuracy

CAMERA FUNCTIONS	
Camera Title	ID / Title / Zoom Ratio / System Message
Day & Night	Auto / Day / Night / Ext-in
WDR/BLC	Off / WDR / BLC / HLC
ACE	Off / Low / Middle / High
DNR	Auto / Off / Low / Middle / High
Defog	Off / On(Auto / Manual)
Digital Image Stabilizer	Off / On
Privacy Mask	Off / On (24 positions)
Digital Slow Shutter	Off / x2 / x4
Gain Control	Off / On
White Balance	Auto / One Push / Manual / Indoor / Outdoor
Shutter Speed	1/30(25) ~ 1/30,000 sec
E.Zoom	Off / x2 ~ x32
Digital Flip	Off / H / V / H&V
Digital I/O	8 alarm / 2 relay out
Remote Control Interface	RS-422, 485
Protocol	Pelco-D / Pelco- P / WONWOO

NETWORK	
Ethernet	RJ-45 (10/100BASE-T)
Video Compression	H.264, MJPEG
Resolution	1920x1080,1280x960,1280x720,1024x768,800x600,720x576,640x480,320x240
Streaming Capability	Triple streaming
Alarm	In 1ch / Out 1ch
Audio In / Out	Mic In / Audio Out
Audio Compression	G.711 u-law
Audio Communication	Bi-directional audio
IP	IPv4, IPv6
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS
Storage	Micro SD(SDHC)
ONVIF	Support
Webpage Language	Korean, English
Web Viewer	WindowsXP/VISTA/MAC OS X
	Microsoft Internet Explorer, Firefox, GoogleChrome, Apple Safari