

IR PTZ CAMERA

INTERNATIONAL[®]
ARMOUR
DEFENSE SYSTEMS



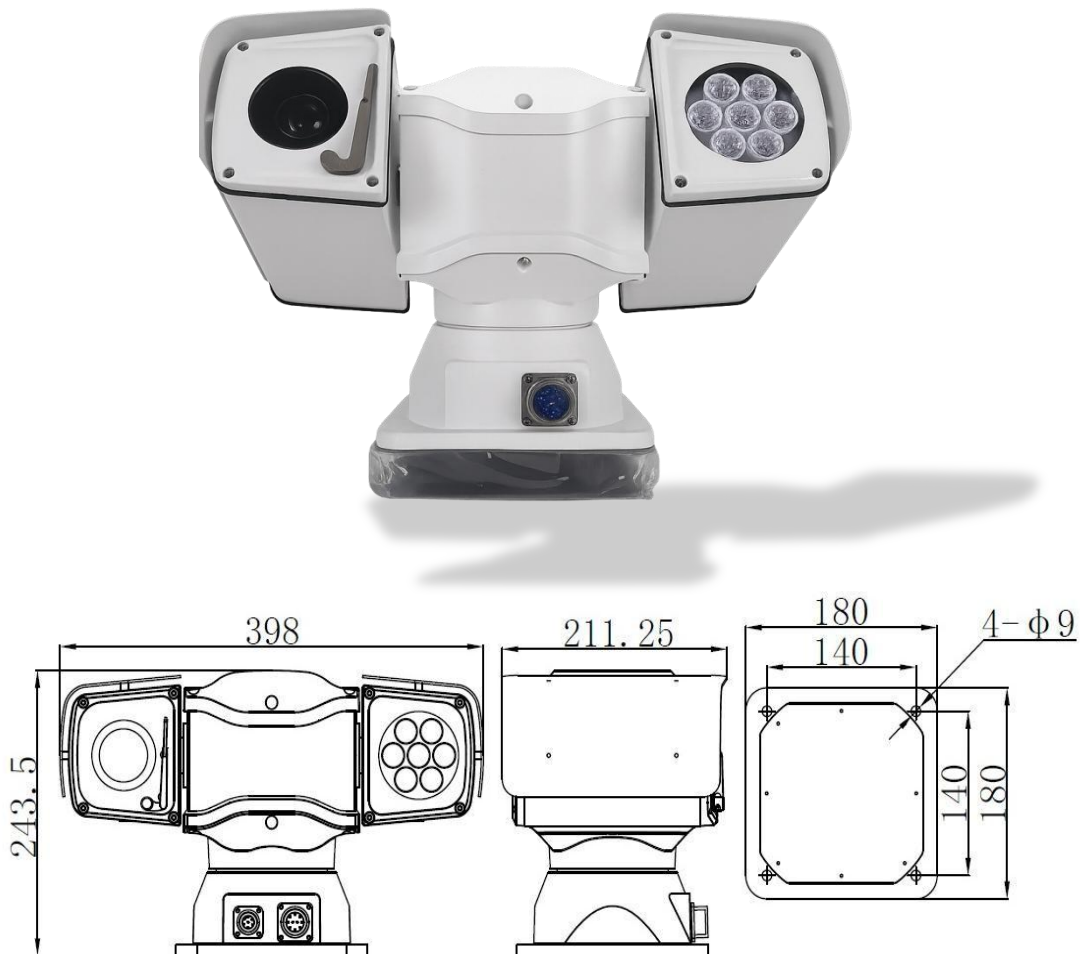
WL-HD-TW10 (HD IP)

Long range IR PTZ camera

Model: **WL-HD-TW10 (HD IP)**

PTZ Features:

- The first independent defogging defrosting module, solve the camera and lens fogging
- High-quality heating parts are used in the camera housing, so that the whole housing can work together to form an effective antifogging and defogging
- PTZ adopts the integrated upper and lower structure so that the PTZ and infrared housing will not bump and dislocate.
- PTZ standard with the original regulator module, filter the vehicle transient current instability, so that PTZ remains stable
- HD IP: PTZ support mainstream megapixel digital high-definition movement and HD SENSOR HD picture capture, compatible with mainstream HD platform and seamless docking, the maximum support
- 1080P output, support for dual-stream and high-definition capture, support IE browser



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PTZ Function	Specification
Pan preset speed	100°/s
Tilt preset speed	60°/s
Pan control speed	0°~60°/s
Tilt control speed	0°~40°/s
Pan range	360° endless rotation
Tilt range	-90° ~ +90°
Preset positions	256 positions, 8 tracking
IR Distance	2 groups lens, 150m night vision
Control Way	RS485, Built-in PELCO D/P protocol, Baud Rate from 2400bps to 19200bps optional
Relative Humidity	Less than 90%
IP Grade	IP66
Working Temperature	-35°C ~ +55°C
Impact Resistance	≥4G
Wiper	Support
Installation	Variety of installations according to environment
Weight	7 kg

Specifications	Details
Image Sensor	1/2.8" Progressive Scan CMOS
Resolution	Up to 2MP (1920×1080); Output Full HD: 1920×1080@30fps Live Image
Minimum Illumination	Color: 0.001 Lux @ (F1.5, AGC ON); B/W: 0.0005 Lux @ (F1.5, AGC ON)
Shutter	1/25s to 1/100,000s; Supports delayed shutter
Auto Iris	DC
Day/Night Switch	IR cut filter
Digital Zoom	16×

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Lens Specification	Value
Focal Length	5.5–180mm (33× Optical Zoom)
Aperture Range	F1.5–F4.0
Horizontal Field of View	60.5°–2.3° (wide–tele)
Minimum Working Distance	100mm–1000mm (wide–tele)
Zoom Speed	Approx. 3.5s (optical lens, wide to tele)

Compression Standard	Specification
Video Compression	H.265 / H.264 / MPEG
H.265 Type	Main Profile
H.264 Type	Baseline Profile / Main Profile / High Profile

Video and Audio Parameter	Specification
Video Bitrate	32 Kbps – 16 Mbps
Audio Compression	G.711a, G.711μ, G.722.1, G.726, MP2L2, AAC, PCM
Audio Bitrate	64 Kbps (G.711) / 16 Kbps (G.722.1) / 16 Kbps (G.726) / 32–192 Kbps (MP2L2) / 16–64 Kbps (AAC)

Vide & Audio	Specification
Main Stream	50 Hz: 25 fps (1920×1080, 1280×960, 1280×720); 60 Hz: 30 fps (1920×1080, 1280×960, 1280×720)
Third Stream	50 Hz: 25 fps (1920×1080); 60 Hz: 30 fps (1920×1080)
Image Settings	Corridor mode, saturation, brightness, contrast, sharpness adjusted via IE/Client
BLC	Support
Exposure Mode	AE / Aperture Priority / Shutter Priority / Manual Exposure
Focus Mode	Auto Focus / One Focus / Manual Focus / Semi-Auto Focus
Area Exposure / Focus	Support
Optical Fog	Support
Image Stabilization	Support
Day/Night Switch	Automatic, manual, timing, alarm trigger
3D Noise Reduction	Support
Picture Overlay Switch	Support BMP 24-bit image overlay, customizable area
Region of Interest (ROI)	Supports three streams and four fixed areas

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Image (Maximum Resolution: 1920×1080)	Specification
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3D Noise Reduction	Support
Picture Overlay Switch	Support BMP 24-bit image overlay, customizable area
Region of Interest (ROI)	Supports three streams and four fixed areas

Network	Specification
Image Overlay	Supports BMP 24-bit image overlay
Storage Support	Micro SD / SDHC / SDXC card (up to 256 GB); NAS (NFS, SMB / CIFS)
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, RTP, RTSP, RTCP, NTP, SMTP, SNMP, IPv6
Interface Protocol	ONVIF (PROFILE S, PROFILE G)

Smart Features	Specification
Smart Detection	Cross-border detection, area intrusion detection, entering/leaving area detection, hovering detection, personnel gathering detection, fast motion detection, parking detection, loitering detection, scene change detection, audio detection, false focus detection, face detection

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Interface	Specification
External Interface	36-pin FFC (Network port, RS485, RS232, CVBS, SDHC, Alarm In/Out, Line In/Out, Power)

General	Specification
Working Temperature	-30°C ~ +70°C, humidity ≤95% (non-condensing)
Power Supply	DC 12V ± 25%
Power Consumption	2.5W (Max), 4.5W (Max with heater)
Dimensions	97.5 × 61.5 × 80 mm
Weight	300 g

