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2MP 33X lightHunter Laser IR Network PTZ Camera

IPC6652EL-X33-VF



Features

- High quality image with 2 MP, 1/2.8" CMOS sensor
- 1920 × 1080@60 fps in the main stream
- Ultra 265, H.265, H.264, MJPEG
- 33X Optical Zoom
- Smart intrusion prevention, supports false alarm filtering, including cross Line, intrusion, enter area, leave area detection
- automatic selection of best snapshots, supports face detection masked area
- People Counting, supports people flow counting and crowd density monitoring, suitable for different statistical scenarios
- Lighthunter technology ensures ultra-high image quality in low illumination environment
- Vari-focal laser: 500 m (1640ft) distance, proportional to optical zoom of camera module
- AC 24 V ±25%, DC 24 V±25%, POE (PSE Required)
- Alarm 2 in and 1 out, Audio 1 in and 1 out
- IP66 ingress protection

Specifications

Model	IPC6652EL-X33-VF	
Camera		
Sensor	1/2.8" CMOS	

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Min. Illumination	Colour: 0.001Lux (F1.5, AGC ON)
	0Lux with IR
Day/Night	IR-cut filter with auto switch (ICR)
Shutter	Auto/Manual, 1 to 1/100000 s
WDR	120 dB
S/N	>52 dB
Lens	
Focal Length	4.5 to 148.5 mm
Optical Zoom	33X
Digital Zoom	16X
Iris	F1.5 to F4.0
Field of View (H)	56.2° ~ 2.6°
Field of View (V)	33.5° ~ 1.4°
Field of View (D)	69.2° ~ 3.0°
Illuminator	
Vari-focal Laser	Up to 500m(1640ft)
Light On/Off Control	Auto/Manual
Wavelength	850 nm
DORI	
DORI Distance (Lens)	4.5~148.5(mm)
DORI Distance (Detect)	72.9m~2187.9m(239.9ft~7178.3ft)
DORI Distance (Observe)	29.2m~875.2m(95.7ft~2871.3ft)
DORI Distance (Recognize)	14.6m~437.6m(47.9ft~1435.7ft)
DORI Distance (Identify)	7.3m~218.8m(23.9ft~717.8ft)
Video	
Video Compression	Ultra 265, H.265, H.264, MJPEG
	Main Stream: 2MP (1920*1080), Max 60fps
Frame Rate	Sub Stream: 2MP (1920*1080), Max 60fps
	Third Stream: D1 (720*576), Max 60fps
Video Bit Rate	128 Kbps to 16 Mbps
U-code	Support
ROI	Support
Video Stream	Triple Streams
Privacy Mask	24 areas, up to 4 areas per scene
OSD	Up to 10 OSDs
Events	
Basic Detection	Motion Detection, Tampering Alarm, Audio Detection, Object Removed, Object Left Behind
General Function	Watermark, IP Address Filtering, Access Policy, ARP Protection, RTSP Authentication, User
	Authentication, Alarm Input, Alarm Output
Audio	
Audio Compression	G.711U, G.711A
Audio Bitrate	128 Kbps
Two-way Audio	Support

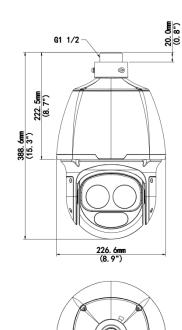
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Protocols DDNS, NTP, FTP, UPnP, HTTP, HTTPS, 802.1x, SNMP, QoS, SSL/TLS Compatible Integration ONVIF (Profile S, Profile G, Profile T, Profile M), API, SDK Security Basic and Digest Authentication for RTSP, Digest Authentication for HTTP, TLS 1.2, WSSE and Digest Authentication for RTSP, Digest Authentication for HTTP, TLS 1.2, WSSE and Digest Authentication for ONVIF Client EZStation, UNV-Link, UNV-Link Pro Web Browser Plug-in required live view: IE 10+, Chrome 45+, Firefox 52+, Edge 79+ Intelligent Exception Detection Smart Intrusion Prevention Cross line detection, intrusion detection, enter area detection, leave area detection (support false alarm filtering and the classification of human, non-motor vehicle and vehicle) People Counting Support People Flow Counting and Crowd Density Monitoring PTZ Recorded Patrol 16 patrols, up to 32 actions for each patrol Recorded Patrol 16 patrols, up to 128 actions for each patrol Number of Presets 1024 Preset Patrol 16 patrols, up to 128 actions for each patrol Patrol Support Support Patrol Support Support Preset Patrol 16 patrols, up to 42 presets for each patrol Preset Patrol 16 patrols, up to 42 presets for each patrol <th></th> <th></th>		
Storage Micro SD, up to 512 GB Edge Storage Micro SD, up to 512 GB Network Storage ANR, NA S (NFS) User/Host Up to 32 users. 3 user levels: administrator, common user and operator Protocols DSN, IGMP, RTP, RTCP, SMTP, IPA4, IPA6, ICMP, ARP, ICC, UDP, DHCP, PPPOE, RTSP, RTMP, DD, DDNS, NTP, FTP, UPNP, HTTP, HTTPS, 802.Lx, SNMP, QoS, SSL/TLS Compatible Integration ONNF (Profiles P, Profile, GN, Poli, PL, NAJ, NAJ, SOK Security Basic and Digest Authentication for RTSP, Digest Authentication for RTTP, LS 1.2, WSSE and Digest Authentication for NTFP Client EZStation, UWV-Link, UWV-Link Pro Web Browser Plug-in required live view: IE 10+, Chrome 45+, Firefox 52+, Edge 79+ Intelligent Exception Detection Smart Intrusion Prevention Cross line detection, intrusion detection, enter area detection, leave area detection (support false alarm filtering and the classification of human, non-motor vehicle and vehicle) Proje Counting Support People Flow Counting and Crowd Density Monitoring PTZ Total Sa patrols, up to 64 presets for each patrol Recorded Patrol 16 patrols, up to 64 presets for each patrol Number of Presets 1024 Preset Patrol 15 patrols, up to 64 presets for each patrol	Suppression	Support
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TLS 1.3, 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, UNV-Link, UNV-Link Pro Web Browser Plug-in required live view: IE 10+, Chrome 45+, Firefox 52+, Edge 79+ Intelligent Exception Detection Exception Detection Object Removed, Object Left Behind Smart Intrusion Prevention Cross line detection, intrusion detection, enter area detection, leave area detection (support false alarm filtering and the classification of human, non-motor vehicle and vehicle) People Counting Support People Flow Counting and Crowd Density Monitoring PTZ Recorded Patrol 16 patrols, up to 32 actions for each patrol Number of Presets 1024 Preset Image Freeze Support Preset Patrol 16 patrols, up to 32 actions for each patrol Number of Support Preset Support Preset Patrol 15 patrols, up to 32 actions for each patrol Number of Support Support Pareset Mange 360° (endless) Pan Range 360° (endless) Pan Speed 0.1's - 200'/s Tilt Range .15' - 90' (Protocols	DDNS, NTP, FTP, UPnP, HTTP, HTTPS, 802.1x, SNMP, QoS, SSL/TLS
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Preset Patrol16 patrols, up to 64 presets for each patrolPatrol Stay Time15 s to 1800 sHome PositionSupportPan Range360° (endless)Pan Speed0.1°/s ~ 200°/sTilt Range-15° ~ 90° (auto reverse)Tilt Speed0.1°/s ~ 200°/sImageUnit SpeedWhite BalanceAuto, Outdoor, Fine Tune, Sodium Lamp, Locked, Auto2Digital Noise Reduction2D/3D DNRFlipNormal, Flip Vertical, Flip Horizontal, 180°HLCSupportBLCSupportDefogDigital DefogHeatwave ReductionSupportInterface1 Input: impedance 1 kQ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Q, amplitude 2.5 V	Number of Presets	1024
Patrol Stay Time15 s to 1800 sHome PositionSupportPan Range360° (endless)Pan Speed0.1°/s ~ 200°/sTilt Range-15° ~ 90° (auto reverse)Tilt Speed0.1°/s ~ 200°/sImage0.1°/s ~ 200°/sWhite BalanceAuto, Outdoor, Fine Tune, Sodium Lamp, Locked, Auto2Digital Noise Reduction2D/3D DNRFlipNormal, Flip Vertical, Flip Horizontal, 180°HLCSupportBLCSupportDefogDigital DefogHeatwave ReductionSupportInterface1 Input: impedance 1 kQ. amplitude 2.5 V [p-p]. 1 Output: impedance 600 Q. amplitude 2.5 V	Preset Image Freeze	Support
Home PositionSupportPan Range360° (endless)Pan Speed0.1°/s ~ 200°/sTilt Range-15° ~ 90° (auto reverse)Tilt Speed0.1°/s ~ 200°/sImage0.1°/s ~ 200°/sWhite BalanceAuto, Outdoor, Fine Tune, Sodium Lamp, Locked, Auto2Digital Noise Reduction2D/3D DNRFlipNormal, Flip Vertical, Flip Horizontal, 180°HLCSupportBLCSupportDefogDigital DefogHeatwave ReductionSupportInterface1 Input: impedance 1 kQ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Q, amplitude 2.5 V	Preset Patrol	16 patrols, up to 64 presets for each patrol
Pan Range360° (endless)Pan Speed0.1°/s ~ 200°/sTilt Range-15° ~ 90° (auto reverse)Tilt Speed0.1°/s ~ 200°/sImageUnext (and (and (and (and (and (and (and (and	Patrol Stay Time	15 s to 1800 s
Pan Speed0.1°/s ~ 200°/sTilt Range-15° ~ 90° (auto reverse)Tilt Speed0.1°/s ~ 200°/sImageMite BalanceAuto, Outdoor, Fine Tune, Sodium Lamp, Locked, Auto2Digital Noise Reduction2D/3D DNRFlipNormal, Flip Vertical, Flip Horizontal, 180°HLCSupportBLCSupportDefogDigital DefogHeatwave ReductionSupportInterface1	Home Position	Support
Tilt Range-15° ~ 90° (auto reverse)Tilt Speed0.1°/s ~ 200°/sImageImageWhite BalanceAuto, Outdoor, Fine Tune, Sodium Lamp, Locked, Auto2Digital Noise Reduction2D/3D DNRFlipNormal, Flip Vertical, Flip Horizontal, 180°HLCSupportBLCSupportDefogDigital DefogHeatwave ReductionSupportInterface1 Input: impedance 1 kQ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Q, amplitude 2.5 V	Pan Range	360° (endless)
Tilt Speed 0.1°/s ~ 200°/s Image White Balance White Balance Auto, Outdoor, Fine Tune, Sodium Lamp, Locked, Auto2 Digital Noise Reduction 2D/3D DNR Flip Normal, Flip Vertical, Flip Horizontal, 180° HLC Support BLC Support Defog Digital Defog Heatwave Reduction Support Interface 1 Input: impedance 1 kQ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Q, amplitude 2.5 V	Pan Speed	0.1°/s ~ 200°/s
Image White Balance Auto, Outdoor, Fine Tune, Sodium Lamp, Locked, Auto2 Digital Noise Reduction 2D/3D DNR Flip Normal, Flip Vertical, Flip Horizontal, 180° HLC Support BLC Support Defog Digital Defog Heatwave Reduction Support Interface 1 Input; impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output; impedance 600 Ω, amplitude 2.5 V	Tilt Range	-15° ~ 90° (auto reverse)
White BalanceAuto, Outdoor, Fine Tune, Sodium Lamp, Locked, Auto2Digital Noise Reduction2D/3D DNRFlipNormal, Flip Vertical, Flip Horizontal, 180°HLCSupportBLCSupportDefogDigital DefogHeatwave ReductionSupportInterface1 Input; impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output; impedance 600 Ω, amplitude 2.5 V	Tilt Speed	0.1°/s ~ 200°/s
Digital Noise Reduction 2D/3D DNR Flip Normal, Flip Vertical, Flip Horizontal, 180° HLC Support BLC Support Defog Digital Defog Heatwave Reduction Support Interface 1 Input; impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output; impedance 600 Ω, amplitude 2.5 V	Image	
Flip Normal, Flip Vertical, Flip Horizontal, 180° HLC Support BLC Support Defog Digital Defog Heatwave Reduction Support Interface 1 Input; impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output; impedance 600 Ω, amplitude 2.5 V	White Balance	Auto, Outdoor, Fine Tune, Sodium Lamp, Locked, Auto2
HLC Support BLC Support Defog Digital Defog Heatwave Reduction Support Interface 1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2.5 V	Digital Noise Reduction	2D/3D DNR
BLC Support Defog Digital Defog Heatwave Reduction Support Interface 1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2.5 V	Flip	Normal, Flip Vertical, Flip Horizontal, 180°
Defog Digital Defog Heatwave Reduction Support Interface 1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2.5 V	HLC	Support
Heatwave Reduction Support Interface 1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2.5 V	BLC	Support
Interface 1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2.5 V	Defog	Digital Defog
1 Input: impedance 1 k Ω , amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω , amplitude 2.5 V	Heatwave Reduction	Support
1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2.5 V	Interface	
	Audio I/O	1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2.5 V
[p-p]		[p-p]

DATASHEET

WIFI	N/A
Alarm I/O	2/1
Serial Port	1 * RS485
Built-in Mic	N/A
Built-in Speaker	N/A
Network	1 × RJ45 10 M/100 M Base-TX Ethernet
Video Output	1 BNC (For debugging)
Certification	
EMC	CE-EMC (EN 55032:2015; EN 55024:2010+A1:2015; EN 61000-3-2:2014; EN 61000-3-3:2013)
	FCC (FCC CFR 47 part15 B, ANSI C63.4-2014)
Environment	CE-ROHS (2011/65/EU;(EU)2015/863)
Protection	IP66 (IEC 60529:1989+AMD1:1999+AMD2:2013)
General	
Power	AC 24V ±25%, DC 24V±25%, PoE (PSE Required)
Power Consumption	Max 53W
Power Interface	Wires with cold-pressed terminal
Dimensions	Ø 270 x 385mm (Ø 8.9" x 15.2") (Ø x H)
Weight	5.6kg(12.35lb)
Working Environment	-40 °C to 70 °C (-40 °F to 158 °F), Humidity: ≤ 95% RH (non-condensing)
Storage Environment	-40 °C to 70 °C (-40 °F to 158 °F), Humidity: ≤ 95% RH (non-condensing)
Surge Protection	6 KV
Reset Button	Support
Web Client Language	22 Languages: Traditional Chinese, English, Simplified Chinese, Polish, German, Russian,
	French, Korean, Dutch, Czech, Portuguese (Europe), Portuguese (Brazil), Japanese, Thai,
	Turkish, Spanish (Latin America), Spanish (Europe), Hungarian, Italian, Vietnamese, Arabic,
	Slovak
Heater	Support

Dimensions





Accessories

TR-UF45-A-IN Dome Indoor Ceiling Mounting Pedestal



TR-CE45-IN Dome Indoor Ceiling Mounting Bracket



TR-SE45-A-IN Dome Ceiling Mounting Pole 500



TR-WE45-IN Dome Wall Mounting Bracket



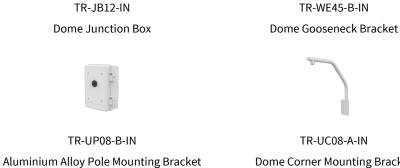
TR-SE45-IN Dome Ceiling Mounting Pole 200



TR-WE45-A-IN Long Wall Mounting Bracket for Dome



DATASHEET



TR-UC08-A-IN Dome Corner Mounting Bracket





TR-UP08-A-IN

Dome Pole Mounting Bracket

TR-UC08-B-IN Aluminium Alloy Corner Mounting Bracket







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