

# 4MP X33 Lighthunter IR Intelligent Network PTZ Camera IPC6624SR-X33-VD2A



## Features

- Wise-ISP image processing engine, intelligent noise reduction, stunning visual effects in low-light conditions
- Supports multiple deep-learning functions: smart intrusion prevention (SIP), target detection, people counting and auto tracking
- Smart intrusion prevention (SIP): supports cross line detection, enter area, leave area, and intrusion detection, detects and captures different types of targets including motor vehicles, non-motor vehicles, pedestrians, and raises alarms
- Auto tracking: supports classifying and tracking motor vehicles, non-motor vehicles, and pedestrians, and returning to the initial position at the end of the set tracking time
- People counting: supports people flow counting and crowd density monitoring, applicable to various scenarios
- 120 dB true WDR meets the image requirements in high-contrast scene
- Heatwave reduction effectively mitigates heatwave effect in high-temperature outdoor environment and ensures clear images
- Adaptive defog automatically adjusts the defog level according to fog and haze intensity
- 200 m (656.2 ft) illumination distance, smart IR illumination, automatically adjusts image settings according to the scene, offering natural and realistic night-time images
- Adaptive highlight compensation (HLC) automatically adjusts image brightness at night when moving vehicles are detected on the road
- Advanced H.265 and SVC video compression technologies, higher compression efficiency, flexible application
- Triple video streams provide live videos of different resolutions to meet different bandwidth and storage requirements
- ROI (region of interest) ensures image quality in areas of interest with low bandwidth
- Supports picture overlay and custom OSD, provides various custom effects (size, color, background, style)

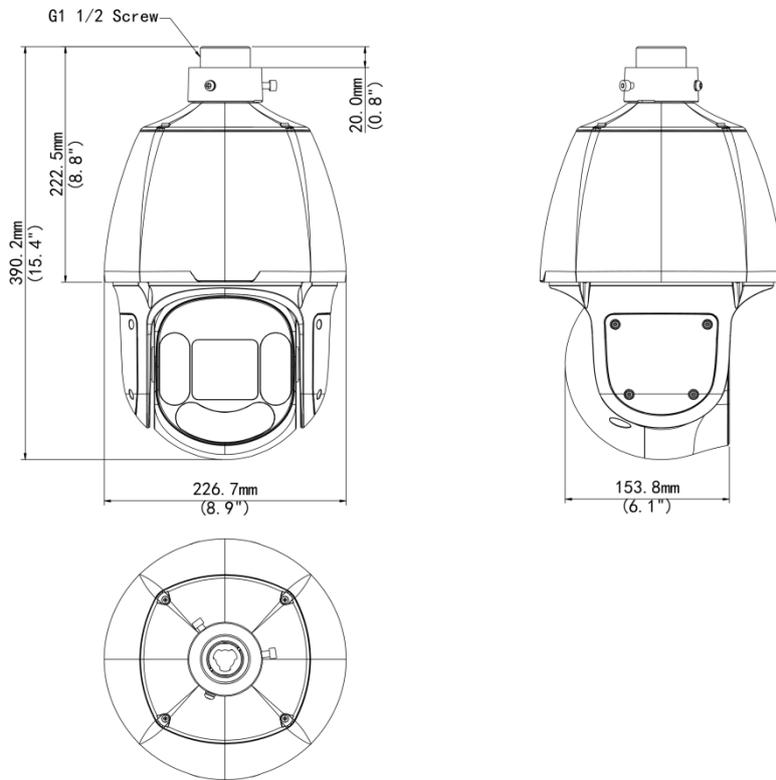
## Specifications

Model	IPC6624SR-X33-VD2A
<b>Camera</b>	
Max Resolution	4 MP
Sensor	1/2.7" CMOS
Min. Illumination	Color: 0.002 Lux (F1.5, AGC ON), 0 Lux with IR
Day/Night	IR-cut filter with auto switch (ICR)
Shutter	Auto/Manual, 1 to 1/100000 s
WDR	120 dB
S/N	> 56 dB
<b>Lens</b>	
Focal Length	4.5 to 148.5 mm
Digital Zoom	16X
Optical Zoom	33X
Iris	F1.5 to F4.0
Field of View (H)	54.77° to 2.69°
Field of View (V)	32.49° to 1.51°
Field of View (D)	67.37° to 2.96°
<b>DORI</b>	
DORI Distance (Lens)	4.5 to 148.5 mm
DORI Distance (Detect)	105.8 m to 3172.5 m (346.9 ft. to 10408.5 ft.)
DORI Distance (Observe)	42.3 m to 1269.0 m (138.8 ft. to 4163.4 ft.)
DORI Distance (Recognize)	21.2 m to 634.5 m (69.4 ft. to 2081.7 ft.)
DORI Distance (Identify)	10.6 m to 317.3 m (34.8 ft. to 1041.0 ft.)
<b>Video</b>	
Privacy Mask	24 areas, up to 8 areas per scene
Video Compression	H.265, H.264, MJPEG, Ultra 265
Frame Rate	Main Stream: 4 MP (2688 × 1520), max. 60 fps Sub Stream: 1080P (1920 × 1080), max. 30 fps Third Stream: D1 (720 × 576), max. 30 fps
Video Bit Rate	128 Kbps to 16 Mbps
U-code	Support
ROI	Up to 8 areas
Video Stream	Triple streams
OSD	Up to 10 OSDs
<b>Events</b>	
General Function	Watermark, IP address filtering, Access policy, ARP protection, RTSP authentication, User authentication, Alarm input, Alarm output, HTTP authentication
<b>Audio</b>	
Audio Compression	G.711U, G.711A
Audio Bitrate	128 Kbps
Two-way Audio	Support

Suppression	Support
Sampling Rate	8 kHz, 16 kHz
<b>Storage</b>	
Edge Storage	MicroSD, up to 512 GB
Network Storage	NAS (NFS)
<b>Network</b>	
Protocols	SSH, IGMP, RTP, RTMP, RTCP, IPv4, SSL/TLS, QoS, 802.1x, HTTPS, HTTP, UPnP, NTP, DDNS, DNS, RTSP, DHCP, UDP, TCP, ARP, ICMP, IPv6, SMTP, SNMP, FTP
Compatible Integration	ONVIF (Profile S, Profile G, Profile T, Profile M), SDK, API
User/Host	Up to 32 users. 3 user levels: administrator, common user and operator
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, TLS 1.3
Client	EZStation, UNV-Link, UNV-Link Pro
Web Browser	Plug-in required live view: IE 10+, Chrome 45+, Firefox 52+, Edge 79+, Plug-in free live view: Chrome 57+, Firefox 58+, Edge 16+
<b>PTZ</b>	
Pan Range	360° (endless)
Pan Speed	0.1°/s to 288°/s
Tilt Range	-15° to 90° (auto flip)
Tilt Speed	0.1°/s to 200°/s
Number of Presets	1024
Preset Patrol	16 patrols, up to 64 presets for each patrol
Patrol Stay Time	15 s to 1800 s
Preset Image Freeze	Support
Home Position	Support
<b>Image</b>	
Flip	Normal, Flip vertical, Flip horizontal, 180°
Digital Noise Reduction	2D/3D DNR
White Balance	Auto, Outdoor, Fine tune, Sodium lamp, Locked, Auto2
BLC	Support
Defog	Digital defog
HLC	Support
EIS	Support
Image Stabilization	DIS
<b>Interface</b>	
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]
Alarm I/O	2/1
Serial Port	1 × RS485
Network	1 × RJ45 10 M/100 M Base-TX Ethernet
<b>Certification</b>	
EMC	CE-EMC (EN 55032; EN IEC 61000-3-2; EN 61000-3-3; EN 50130) FCC SDoC (47 CFR Part 15; Subpart B)

Safety	UL (UL 62368-1) CUL (CAN/CSA C22.2 No. 62368-1) CE-LVD (EN IEC 62368-1)
Environment	CE-ROHS (2011/65/EU;(EU)2015/863;2012/19/EU)
Protection	IP66 (IEC 60529: 1989+AMD1: 1999+AMD2: 2013), IK10 (Anti-Vandalism Except for the Front Window)
<b>Intelligent</b>	
People Counting	Support people flow counting and crowd density detection
Exception Detection	Object removed, Object Left Behind
Auto Tracking	Support, target filtering: human, non-motor vehicle and vehicle
Multi-target Detection	N/A
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)
<b>Illuminator</b>	
Illumination Distance (IR)	200 m (656.2 ft.)
IR On/Off Control	Auto/Manual
<b>General</b>	
Power Interface	Wires with cold-pressed terminal
Dimensions	Ø226.7 mm × 390.2 mm (Ø8.9" × 15.4") (Ø × H)
Weight	5.35 kg (11.79 lb.)
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
Power	DC 24 V±25%, AC 24 V±25%, PoE (IEEE 802.3at)
Power Consumption	23.9 W

# Dimensions



# Accessories

**TR-WE45-IN**

Dome Wall Mounting Bracket

**TR-UF45-A-IN**

Dome Indoor Ceiling Mounting Pedestal

**TR-SE45-A-IN**

Dome Ceiling Mounting Pole 500



**TR-SE45-IN**

Dome Ceiling Mounting Pole 200

**TR-CE45-IN**

Dome Indoor Ceiling Mounting Bracket

**TR-WE45-IN**

Dome Wall Mounting Bracket



TR-WE45-A-IN

Long Wall Mounting Bracket for Dome



TR-JB12-IN

Dome Junction Box



TR-WE45-B-IN

Dome Gooseneck Bracket



TR-UP08-A-IN

Dome Pole Mounting Bracket



TR-UP08-B-IN

Aluminium Alloy Pole Mounting Bracket



TR-UC08-A-IN

Dome Corner Mounting Bracket



TR-UC08-B-IN

Aluminium Alloy Corner Mounting Bracket



浙江宇视科技有限公司



<http://www.uniview.com>



[overseasbusiness@uniview.com](mailto:overseasbusiness@uniview.com); [globalsupport@uniview.com](mailto:globalsupport@uniview.com)



South Tower, Building 10, Wanlun Science Park, 88 Jiangling Road, Hangzhou, P.R.China



©2023-2025 Zhejiang Uniview Technologies Co., Ltd. All rights reserved.

\*Product specifications and availability are subject to change without notice.

\*Despite our best efforts, technical or typographical errors may exist in this document.

Uniview cannot be held responsible for any such errors and reserves the right to change the contents of this document without prior notice.