

4 Inch 2MP Mini 20X POE IP PTZ Camera Auto-tracking

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**2MP PTZ Security Camera Outdoor with 20X Optical Zoom, Loyalty-SECU POE IP Dome
Surveillance Camera with 360°Pan 90°Tilt, Humanoid Detection, Auto-Tracking,
100M(328ft) Night Vision, Mini 4inch, IP66**

LY-E4-220P

1.Selling Points

- i. Mini 4inch 1080P Pan Tilt Zoom Camera: Compact size 4-inch mini long range IP camera, full HD 1080P video resolution with 1/2.8" CMOS, H.265 video compression saves half storage space, lower storage cost.
- ii. Smart Tracking Makes Surveillance Effective: This POE IP dome camera is able to distinguish between people and animals, reducing 95% false alarms caused by rain, leaves, and insects. It can automatically follow the people's movement and intelligently return to the original guard position until the human leave monitoring area, giving your family and property more protection without missing some important details. Meanwhile, our security network camera is powered by the high speed motors to deliver enhanced smooth tracking experiences.
- iii. Pan Tilt Zoom Capacity: 0.05~100°/s; PTZ range: Horizontal:0~360°, Vertical:-5~90°, 4.7~94mm lens, 20x Optical Zoom.
- iv. Night Vision Day/Night Switch: Intelligent Auto Switch, IR-Cut True Night Vision up to 100M(328ft) . It is able to see up to 100M(328ft) away from the camera with a switchable low beam/high beam LED set at night vision in response to different levels of zoom.
- v. Smartphone Setup & Control: Apart from watching live view & playbacks, controlling pan tilt zoom actions, you can also remotely set/delete/call presets and view motion detection snapshots (stored in cloud server with push alarms) through the Smartviewer Pro app.
- vi. Power of Ethernet Solution: The camera supports PoE+ 802.3at standard that draws 30w per port (a PoE+ injector/switch is NOT included). You can also power the camera using standard DC and it will come with a complimentary DC12V adapter.

2. Brief Introduction



Mini 2MP 20X IR Auto-tracking PTZ IP Dome Camera Outdoor

Loyalty-Secu Mini 4 Inch 2MP Network PTZ Camera not only completely solves the short distance troubles when comparing with traditional 2.5 or 3 inch ptz camera with 50m IR distance only, but also minimizes the heavy shipping cost for overseas clients when comparing with the 6 or 8 inch ptz cameras.

The 4 Inch IP Infrared PTZ Network Camera integrates the powerful features like Intelligent Analysis, Active Defense, Auto Tracking (high accuracy humanoid detection recognition, intelligent AI alert auto zoom tracking), high speed pan tilt zoom ability, perfect dynamic monitoring image display, brings an excellent security experience.

3. Features

- i. H.265 efficient decoding for reduced bandwidth and storage space while recording
- ii. 2 Megapixel (1920x1080p)@25fps, 960P@25fps, 1/2.8" CMOS comes with 20x optical zoom
- iii. High speed pan tilt zoom with 360 degrees endless horizontal rotation, -5 degrees upward tilt and 90 degrees downward movement
- iv. 4pcs OSRAM IR Array LEDs + 2pcs Laser LEDs, long range infrared LED night vision up to 100M(328ft)
- v. Compatible with the NVR of HIKVISION, DAHUA, XM, Video park etc. and compatible with

CMS of Milestone, NUUO and AXXON platform etc.

- vi. Industrial-level IP66 waterproof shell with an operating temperature rating at $-20\sim 60^{\circ}\text{C}$ to tackle extreme weathers.
- vii. **Power over Ethernet: Important- PoE(802.3at) required with at least 30W output.**

4.Other Features

4.1. Smart Tracking

Humanoid Detection + Active defense + Auto Tracking



The Network PTZ dome camera supports preset position guard and cruise guard to recognize humanoid automatically. Once the detection is triggered, the security PTZ dome camera automatically turns to the target position, flashing the visible light, and the audio output line drives the live speaker to send out the voice.

Any object enter to the intrusion area, the PTZ camera switches to the center of object immediately, security camera zooming automatically as the object moves, so the security guard can have a clear sight at the object, convenient the to track the suspicious person and collect on-site digital evidence.

In order to track the target in motion and keep it in the scene all the time, our Network PTZ camera can control the pan/tilt/zoom actions accurately. Once detection is triggered, the camera can zoom in and then track the target automatically.

4.2. Get Notified with Smartphone

Remotely watch live view & playback and control PTZ/Preset through Smartviewer Pro app (iOS & Android) with motion detection snapshot stored in cloud server. Cloud platform registration required to enable push notification.



4.3. Protect Your Property at Night

Your property will be covered by the superior night vision of LOYALTY-SECU PTZ camera with 4 pieces of IR LED. The infrared illumination distance can reach up to 100M(328ft) depending on the scene.

Excellent Night Vision



4.4. Smart Automatically Patrol

Support preset cruise points, time and speed-patrol in the monitoring zone you cared!

Patrol: Up to 4 patrol groups;

Preset: 10 presets per patrol group

Patrol time: Adjustable

Our PTZ Security Camera supports "Cruise" and "Auto Tracking" simultaneously!

Secure your cares through both Cruise and Auto Tracking

- i. When there is no human movement detected, the PTZ security camera will cruise according to your preset trajectory.
- ii. When there is human detection, this network security camera will auto tracking the human until the human disappears in the field of view. Then it will resume cruise.

Intelligent Cruise Tracking

Automatically Patrol



4.5. Waterproof IP66 & 6000V Thunder-proof

The security outdoor camera is equipped with an IP66 rated weatherproof metal shell and supports **6000V Thunder-proof**, designed to operate the security PTZ camera even in some real extreme weather conditions.



4.6. Playback anytime and anywhere

You can play videos via your mobile phone APP at anytime and anywhere



5. What's Included?

Manual, Camera, Wall Bracket (default), a complementary 12V2A Power Adapter (the PoE adapter is not included) and installation screws.

6. Specification

Camera	
Model	LY-E4-220P
Image Sensor	1/2.8" CMOS
Camera Solution	Hi3516Ev200+GC2053
Minimum Illumination	Color: 0.001Lux, B/W: 0.001Lux, 0 Lux with IR
3D NDR/WDR	Support

Electronic Shutter	AUTO
Day Night Mode	AUTO ICR Color to B/W
Focal Length:	4.7-94mm,20X Optical Zoom, (F1.6 to F2.7)
Zoom Speed	Approx.4s(Optical Wide~Tele)
Angle of View:	55.4-2.9°(Wide-Tele)
Resolution	1920(H)x1080(V)
Main Stream	25fps:(1920×1080) (1280×960) (1280×720)
Sub Stream	25fps: D1, VGA, 640×360
Video Compression	H.265/H.264/MJPEG
TF card	Max 128GB
Network protocol	HTTP/RTSP/RTMP/DHCP/NTP/ONVIF/NTP/UPNP/GB28181
Interface protocol	ONVIF 2.5
AI Functions	Humanoid Detection + Active defense + Auto Tracking
APP	Smartviewer Pro
PTZ Control	
IR Distance	100M(328ft)
LEDs	4PCS OSRAM IR Array LEDs + 2PCS Laser LEDs
Horizontal Range	0°~360° continuously
Vertical Range	-5°~90°
Vertical/Horizontal Speed	0.05°~100 °/s
Max Speed	100 °/S
Preset	256
Patrol scan	4groups (10 preset for each)
L/R Scan	1group
Horizontal Scan	1group
Power-off memory	Support
PARK Action	Watch position/ Area Scan /Horizontal 360°scan/ Cruise
Watch position	Support
Wide angle speed limit	Focus / speed automatic matching function
General	

POE supply voltage	DC48V
POE Supply Pin	1,2(+) 3,6(-) / 4,5(+) 7,8(-) Auto adapting
Power/Consumption	DC12V/2A,<15W
Mounting	Wall mounting or lifting
Work environment	Temperature : -20~60℃; Humidity<90%
Protection level	IP66 waterproof, 6000V lightning protection
Product Size	229*132mm
Packing Box Size (CM)	31*19*18CM (1PCS)
Packing Box Weight (KG)	2.35KG (1 PCS)
Carton Size (CM)	64*41*38CM (8 pcs in one carton)
Carton Weight (KG)	19.3KG (8 PCS in a carton)

7.Product Dimension

