

ESP-42 2MP 12x Starlight PTZ Network Camera



- 1/2.8" 2Megapixel STARVIS™ CMOS
- Powerful 12x optical zoom
- Support Triple-streams encoding
- Max. 25/30fps@1080P
- IVS
- Support PoE+
- IP66, IK10

System Overview

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, the camera provides a wide monitoring range and great detail. The camera delivers 1080P resolution at 25/30fps. The camera is equipped with smooth control, high quality image, and good protection, meeting compact size demands of video surveillance applications.

Functions

Starlight Technology

For challenging low-light applications, this Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Wide Dynamic Range

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, True WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

PFA technology

PFA technology has innovatively introduced new methods of judgment to ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms. PFA ensures clarity of the image throughout the process of zooming and shortens focus time. The realization of PFA technology substantially improves user experience and increases product value.

Environmental

This cameras operate in extreme temperature environments, rated for use in temperatures from -40 °C to +70 °C (-40 °F to +158 °F) with 95% humidity. Subjected to rigorous dust and water immersion tests and certified to the IP66 Ingress Protection rating makes it suitable for demanding outdoor applications.

Protection

The camera allows for 6KV lightning rating, which provides effective protection for both the camera and its structure against lightning.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.

Technical Specification

Image Sensor	1/2.8" STARVIS™ CMOS
Effective Pixels	1920(H) x 1080(V), 2 Megapixels
RAM/ROM	1024M / 128M
IR Distance	N/A
IR On/Off Control	N/A
IR LEDs	N/A
Optical Zoom	12x
Focal Length	5.3mm ~ 64mm
Angle of View	H: 58.2° ~ 4.8°
Focus Control	Auto/Manual
Close Focus Distance	100mm ~ 1000mm
Edge Storage	NAS (Network Attached Storage), Local PC for instant recording, Micro SD card 256GB
Web Viewer	IE, Chrome, Firefox, Safari
Smart Phone	IOS, Android
Video Compression	H.265+ / H.265 / H.264+ / H.264
Network Ethernet	RJ-45 (10XBase-T / 100Base-TX)
Pan/Tilt Range	Pan: 0° ~ 360° endless; Tilt: -2° ~ 90°, auto flip 180°
PTZ Mode	5 Pattern, 8 Tour, Auto Pan, Auto Scan
Video Digital Zoom	16x
Privacy Masking	Up to 24 areas

Video Resolution	1080P(1920×1080) / 720P(1280×720) / D1(704×576/704×480) / CIF(352×288/352×240)
Frame Rate	Main stream: 1080P/720P (1 ~ 25/30fps) Sub stream1: D1/CIF (1 ~ 25/30fps) Sub stream2: 720P/D1/CIF (1 ~ 25/30fps)
Day/Night	Auto(ICR) / Color / B/W
Motion Detection	Support
Smart IR	N/A
Audio Compression	G.711a / G.711Mu / G.726 / AAC
Power Supply	AC 24V/1.5A(±10%), PoE+(802.3at)
Power Consumption	12W
Ingress Protection	IP66
Vandal Resistance	IK10
Casing	Metal
Dimensions	Φ170(mm) x 155(mm)
Gross Weight	3.3kg (7.28lb)



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