

PT70 indoor dome HD IP

Complete PTZ camera station (safe)



Overview

Eaton's indoor series are highly advanced process and surveillance camera stations that are designed to meet world wide demanding environments.

Features

- Full HD resolution
- Fire pot
- Automatic image flip
- Automatic day/night function
- Internal cabling
- Audio (optional)
- Flexible powering (PoE, 30 VAC, 24 VDC)
- Scratch resistant hard coating
- Multi-cable accommodated
- Auto focus with manual override
- Auto iris with manual override
- Built-in heating
- IR sensitive
- Designed to accept future software upgrades remotely

The PT70 indoor dome is well suited for marine and oil & gas applications.

The dome offers 360° panoramic rotation and 180° tilt with vertical image flip. The design is optimised for position accuracy. In poor light conditions the camera will automatically turn to black and white for optimal image quality and autofocus further increases the user experience.

The PT70 dome can work with illumination as low as 0.01 lux, has 1080p resolution and uses Eaton HERNIS™ Flex IP control protocol. Additionally the future proof design can facilitate future software upgrades and diagnostics remotely.



Certifications

Type approval DNV GL Certificate No: TAA00000C8

Specification

Physical dimensions camera

Weight	3.1 kg
Dimensions (H x Ø)	221 x 241 mm (with cupola)
Ceiling mount hole Ø	190 mm
Material & finish	Steel housing made for fire resistant ceilings Polycarbonate dome cupola with decorative ring made of plastic

Operating conditions camera

IP protection rate	IP50 (≈ NEMA 3)
Operating temperature range	0° C to +50° C

Camera

Image sensor	1/2.8" progressive scan CMOS
Sync system	Internal
Frame rate	50 Hz: 25 fps (1920 × 1080), 25 fps (1280 × 720) 60 Hz: 30 fps (1920 × 1080), 30 fps (1280 × 720)

Min. illumination	Color: 0.05 lux @ (F1.6, AGC ON)
	B/W: 0.01 lux @ (F1.6, AGC ON)

S/N ratio / WDR > 50 dB / WDR

Lens

Focal length	4.7 - 94 mm, 20 x optical zoom
Aperture range	F1.6 - F3.5
Angle of view	61.4° - 2.9° (wide - tele)
Min. working distance	10 mm - 1500 mm (wide - tele)
Zoom speed	Approx. 2.7 s (optical, wide - tele)
Day & night	IR cut filter auto switch

Specifications IP

Protocol	IPv4/IPv6, TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, UPnP, SNMP, FTP, 802.1x, QoS, HTTPS, IPv6 (SIP, SRTP optional)
Compression	Main stream: H.264 Sub stream: H.264, MJPEG

H.264 compression profile Main profile, high profile

Dual-streaming Supported

Video bit rate 256 Kbps - 13 Mbps

Ethernet port Spring terminal, 10M/100M ethernet interface

Electrical data CAT6 cable AWG23

Attributes

Power supply 30VAC (+10% -30%, 50/60Hz) / 24VDC (+/-10%) / PoE (IEEE802.3at)
Camera works on 30VAC or 24VDC without any adjustments or settings
PoE operation need a dip switch setting on RX272 card

Power consumption 30VAC: 10W Min. (15W Max. PTZ on) (20W Max. heater on)
24VDC: 10W Min. (15W Max. PTZ on) (20W Max. heater on)
PoE at: 10W Min. (15W Max. PTZ on) (20W Max. heater on)

Heat dissipation 10 W min. (20 W max. PTZ on)

Rotating angle/variable speed Pan continuous 360° / speed 1.8°/sec. - 110°/sec.
Tilt 180° / speed 1.8°/sec. - 110°/sec.

Preset/home position 100 preset + 4 home positions, accuracy ≤ 0.1°

Electrical data IP connection: minimum CAT6 AWG 23 for PoE

Ordering requirements

The following code is designed to help in selection of the correct unit.

HERNIS™ part no: 097166-157/4662

157/4662 IP 24VDC / 30VAC / PoE 20xZ, 1080p, gland

General arrangement drawing (all dimensions in mm)

