

CM73-IP

Avonic PTZ Camera 30x Zoom IP

The Avonic CM73 is a premium-quality PTZ camera that includes a rich feature set usually found only on broadcast-grade cameras including PoE, low latency 3G-SDI and balanced audio embedding.

Optional premium features consist of SRT streaming, a Tally light and a customizable Color Matrix. The camera with IP, HDMI and 3G-SDI outputs is designed for fixed installations and works very well in low light conditions.

The camera is equipped with high quality components like a Panasonic high SNR CMOS sensor with digital noise reduction and a High Quality glass lens. Control the camera over IP, RS232 or RS485 with any controller with VISCA or PELCO support.



Features

Lens

High-quality glass lens, 30x optical zoom and Horizontal wide: 64.14° – tele: 2.55°, Vertical: wide: 38.01° – tele: 1.48°, field of view.

Low light

High SNR CMOS combined with digital noise reduction for a clear picture under very low light conditions.

Full HD 1080p60

The camera has a Full HD resolution of 1920 x 1080p60 and achieves a pristine image quality.

IP-features

The camera can be powered using PoE (802.3af) and can be accessed by webGUI. Controlled by VISCA over IP/ Onvif and stream the video.

Dual low-latency IP Stream

H265, H264, optional SRT and MJPEG compression at a bitrate up to 40Mbit enabling Full HD video stream by ultra-low latency over RTSP, RTMP, UDP, Unicast and Multicast.

Outputs

3G-SDI, HDMI, USB 2.0 (1080p30) and IP.

Control

Control the camera with common protocols: VISCA , Pelco-D / P via RS232, RS485, IP (VISCA), Onvif or IR. Remote control included. Supports up to 255 presets with 0.1° accuracy and High-Speed Pan Tilt function.

Audio embedding

Balanced audio input with embedding into IP stream, SDI, HDMI outputs. Includes configurable audio offset.

Optional Premium features

SRT streaming, Tally light, configurable Color Matrix. License AV-LC70-1 sold separately.

Applications

- Education
- Video Conferencing
- Broadcasting
- Live Events
- Churches
- Healthcare
- Courtroom
- And more

SPECIFICATIONS

Camera

| | |
|-----------------------------------|--|
| Video Systems | 1920x1080/1280x720 p60/ 50/ 30/ 25/ 59.94/ 29.97 i60/ 50/ 59.94 |
| Sensor | 1/3" CMOS, 2.12mp, 16:9 |
| Shutter | Auto, Manual, 1/25 ~ 1/10000 |
| Scanning mode | Progressive, Interlaced (not over IP) |
| Zoom/Aperture/Focal length | 30x optical/ F1.8-F11/ 4.3-129.0 mm |
| Minimal Illumination | 0.05 LUX |
| White Balance | Auto, Manual, OnePush, 2400K-7100K in steps of 100K |
| Backlight Compensation | supported |
| Digital Noise Reduction | 2D & 3D DNR |
| Signal Noise Ratio | >55 dB |
| Horizontal FOV wide ~ tele | 64.14° ~ 2.55° |
| Vertical FOV wide ~tele | 38.01° ~ 1.48° |
| Horizontal rotation | -170° ~ +170° |
| Vertical rotation | -30° ~ +90° |
| Pan speed range | 1.7 ~ 120°/s |
| Tilt speed range | 1.7 ~ 70°/s |
| H&V image flip | supported |
| Number of presets | 255 |
| Preset accuracy | 0.1 |

IP features

| | |
|-----------------------------------|---|
| Video coding standard | H.265 / H.264 / MJPEG |
| H.265 Profiles | main |
| H.264 Profiles | main, base, high |
| Main stream resolution | 1920x1080 / 1280x720 |
| Main stream max frame rate | 60fps |
| Main stream bitrate | 64 ~ 40960 Kbps |
| Sub stream resolution | 320x180 / 320x240 / 640x360 / 1280x720 / 1920x1080 |
| Sub stream max frame rate | 30fps |
| Sub stream bitrate | 64 ~ 40960 Kbps |
| Video bitrate type | Variable, Fixed |
| Support protocols | RTSP, RTMP, ONVIF, SRT, Multicast, Unicast |
| Audio standard | AAC / mp3 / G.711A |
| Audio bitrate | 32, 64, 96, 128 Kbps |
| Audio sample rate | 16, 32, 44.1, 48 Khz |
| Audio line in | balanced audio line in via 5-way Phoenix connector. |

Input / Output Interface

| | |
|--------------------------------|--|
| HDMI output | 1.4 |
| SDI output | 3G-SDI, SMPTE 425M level A, 10-bit YCbCr 4:2:2 |
| USB Output | USB 2.0 (max. 1080p30) |
| Network interface | RJ45 100 Mbit |
| Serial communication | RS232 mini DIN-8, RS485 2pin Phoenix |
| Serial control protocol | VISCA, PELCO-P, PELCO-D |
| IP control protocol | VISCA OVER IP, Onvif |

General Specifications

| | |
|--------------------------------------|---|
| Input voltage | 12V |
| PoE | PoE 12W (802.3af) |
| Power consumption | 12W |
| Power supply | 12V2A |
| Power connector | EIAJ-4 - Philmore 255 plug |
| Operating temperature | -5°C ~ 40°C |
| Storage temperature | -20°C ~ 60°C |
| Operating humidity | 20% ~ 95% non-condensing |
| Bottom fastening screw thread | 1/4" 20 UNC |
| Color | Black, White |
| Dimensions product wxhxd | 133 x 180 x 149 mm. excl. connectors |
| Weight product | 1.5 kg |
| Dimensions box | 26 x 24 x 24 cm |
| Weight box | 2.4 kg |
| Included | power adapter, remote control, RS232 cable, RS485 2-way Phoenix connector, Balanced Audio Line-In 5-way Phoenix connector |

Versions

| | |
|--------------|-----------|
| Black | CM73-IP-B |
| White | CM73-IP-W |

CE Marking



