

# AV-CM40-IP

## Avonic PTZ Camera 20x Zoom

The Avonic CM40-IP is a high-quality PTZ network camera with a fresh new design. The camera is extremely silent and gives a pristine video quality.

Our engineers in The Netherlands built the camera to last which results in the 3 year warranty on this camera.



## Features

**Lens:** High-quality glass lens, 20x optical zoom and 54.7° horizontal angle view.

**Low light:** High SNR CMOS combined with digital noise reduction, the picture is clear even under low illumination (0.5 lux @ F1.8) conditions.

**Full HD 1080p60:** With 1/2.8" high-quality CMOS sensor (2.07 Megapixel) the camera has a resolution of 1920 x 1080p60 and achieves a picture of great quality.

**Output:** 3G-SDI, HDMI, and IP (H.264/H.265) up to 1080p60. USB 2.0 up to 1080p30.

**Audio:** Line input via 3.5mm stereo. The audio is embedded onto the HDMI, SDI and IP outputs of the camera

**Control:** Control the camera with common protocols: VISCA, Pelco-D/P via RS232, RS485, Visca over IP, or IR, remote control included.

**Presets:** Up to 255 presets with 0.1° accuracy.

**IP:** The camera can be powered using PoE and can be accessed by webGUI. Control the camera using VISCA over IP and stream the video over the network. Dual H265, H264 and MJPEG compression at a bitrate of 64Kbit to 40Mbps enabling Full HD video stream by ultra-low bandwidth over RTSP, RTMP, UDP and Multicast.

**Kensington Lock:** the CM40-IP is equipped with a standard Kensington Lock for theft prevention purposes.

## Applications

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

# SPECIFICATIONS

## Camera

|                            |  |
|----------------------------|--|
| Video Systems              | 1920x1080 / 1280x720<br>p60/50/30/25/59.94/29.97 1920x1080<br>i60/50/59.94 |
| Sensor                     | 1/2.8"   |
| Shutter                    | Auto, Manual   |
| Scanning mode              | Progressive, Interlaced  |
| Zoom/Aperture/Focal length | 20x optical/ F1.8 - F11/ 4.9 - 98 mm                                       |
| Minimal Illumination       | 0.5 (F1.8, AGC On)   |
| White Balance              | Auto, Manual, OnePush, 3000K-7000K in steps of 500K                        |
| Backlight Compensation     | present  |
| Digital Noise Reduction    | 2D & 3D DNR  |
| Signal Noise Ratio         | >55 dB   |
| Horizontal FOV wide ~tele  | 57° ~ 3.3°   |
| Vertical FOV wide ~ tele   | 36.5° ~ 1.9°   |
| Horizontal rotation        | -170° ~ +170°  |
| Vertical rotation          | -30° ~ +90°  |
| Pan speed range            | 0.1 ~ 100°/s   |
| Tilt speed range           | 0.1 ~ 70°/s  |
| H&V image flip             | supported  |
| Number of presets          | 255  |
| Preset accuracy            | 0.1°   |
| Control protocols          | Visca, Visca over IP, Pelco-D, Pelco-P                                     |

## IP features

|                        |   |
|------------------------|---|
| Video coding standard  | H.265, H.264, MJPEG                         |
| H.265 Profiles         | Main Profile                                |
| H.264 Profiles         | Main, Base, High Profile                    |
| Main stream resolution | 1080p60                                     |
| Sub stream resolution  | 1080p30                                     |
| Max frame rate         | Main 60fps, Sub 30fps                       |
| Bit rate               | 64Kbps - 40960Mbps                          |
| Audio standard         | mp3, aac, G.711A                            |
| Audio rate             | 16Kbps - 48Kbps                             |
| Support protocols      | RTSP, RTMP, RTP, HTTP, ONVIF, VISCA OVER IP |

## Input/Output Interface

|                      |  |
|----------------------|--|
| HDMI output          | 1080p60  |
| SDI output           | 1080p60, SMPTE 425M Level A, 8-bit YCbCr 4:2:2 |
| USB output           | 1080p30 USB2.0                                 |
| Network interface    | RJ45 for IP control and FW update              |
| IP control protocol  | Visca over IP                                  |
| Serial communication | RS232 8DIN + RS485 2pin Phoenix                |
| Audio input          | Stereo line input via 3.5mm mini jack          |

## General specifications

|                               |  |
|-------------------------------|--|
| Input voltage                 | 12V  |
| PoE                           | 802.3af  |
| Power consumption             | 12W  |
| Power supply                  | 12V2A  |
| Power connector               | EIAJ-3 - Philmore 275 screw lock                               |
| 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                         | White, Black   |
| Dimensions product            | 132 x 180 x 153 mm   |
| Weight product                | 1.6 kg   |
| Dimensions box                | 27 x 25 x 23 cm  |
| Weight box                    | 2.5 kg   |
| Included                      | power adapter, remote control, RS232 cable, USB2.0 cable (A-A) |

## Versions

|       |           |
|-------|-----------|
| Black | AV-CM40-B |
| White | AV-CM40-W |

