CM82
PTZ CAMERA 4K & FULL HD - 20X ZOOM

The enhanced 4K PTZ camera

The CM82 is Avonic's enhanced 4K PTZ camera, made for conferencing, hybrid education, lecture halls, and live production. It delivers high-quality 4K video, features a wide-angle 20x zoom lens, has excellent low-light performance, and flexible outputs. With tracking included standard, low latency streaming, and the dependable performance that defines Avonic, the CM82 offers advanced functionality in a refined and compact design.

4K sensor

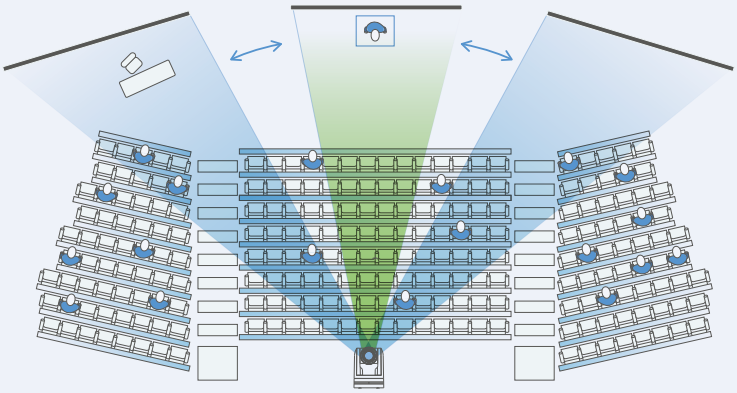
The CM82's 4K sensor delivers impressive clarity, also when outputting in Full HD. Enhanced detail and sharpness make every frame stand out.
It captures crisp, detailed visuals that elevate any presentation or stream. Optimized for lowlight settings, it performs reliably under any circumstance.

Features

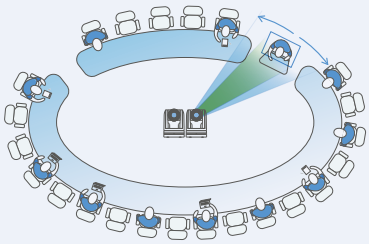
- Tracking
- 4K & Full HD output
- Low-latency Streaming
- 20x zoom in 4k or up to 30x in digital zoom
- Simultaneous HDMI, SDI, USB & IP output
- High Pan/Tilt speed

TRACKING FEATURES

Presenter Tracking



Hybrid Tracking



Conference Tracking Mode

SPECIFICATIONS

Camera

Resolution	Up to 4K30
Video Systems HDMI output	4k30, 4k25, 1080p60/59.94/50/30/29.97/25, 7020p60/59.94/50
Sensor	Sony 1/2.8",8.42MP, 16:9 High SNR CMOS Sensor
Shutter	Auto/ Manual 1/60th ~ 1/10000th
Scanning mode	Progressive
Zoom/Aperture/Focal length	20x zoom*/ F1.8 ~ F11/ 4.1mm ~ 43mm (+/-5%)
Minimal Illumination	0.5 LUX @F1.8
White Balance	Auto, Manual, One Push, Manual 2400 ~ 7100K in 50k steps
Backlight Compensation	Supported
Digital Noise Reduction	Supported
Signal Noise Ratio	>50 dB
Horizontal FOV	80° (+/-3%)
Vertical FOV	48° (+/-3%)
Horizontal rotation	+/- 170°
Vertical rotation	120° (30° down, 90° up)
Pan speed range	0.15° ~ 120° p/s
Tilt speed range	0.15° ~ 70° p/s
H&V image flip	supported
Number of presets	255 with 0.1 accuracy
Control	UVC, IR Remote, IP
Control protocol	Visca over IP, Sony Visca over IP, Onvif, HTTP API

IP Features

Video coding standard	H.265 / H.264 / MJPEG
H.265 Profiles	main
H.264 Profiles	base, main, high
Main stream resolution	3840x2160 / 1920x1080 / 1280x720
Main stream max frame-rate	30fps
Main stream bitrate	64 ~ 40960 Kbps
Sub stream resolution	1920x1080/ 1280x720 / 720x480/ 640x480/ 640x360/ 320x240 / 320x180
Sub stream max frame-rate	30fps max
Sub stream bitrate	64 ~ 40960 Kbps
Video bitrate type	CBR, VBR
Supported protocols	RTSP, RTMP, ONVIF, Multicast, Unicast

Input / Output Interface

HDMI output	HDMI up to 4K30
USB Output	USB2.0 Type B, 2160p30 max.
Network interface	RJ45 1Gb.
SDI Output	3G-SDI, 1080p60 max.

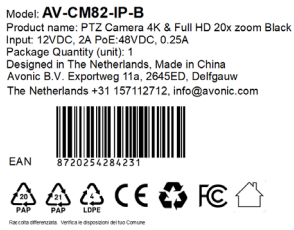
General specifications

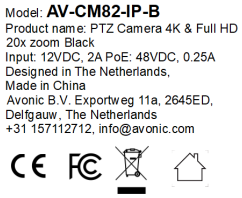
Input voltage	12V
PoE	PoE 802.3AT (PoE+) at 18 watt
Power consumption	15W
Power supply	12V2A
Power connector	EIAJ-4 - Philmore 255 plug 12V DC
Operating temperature	-5°C ~ 35°C
Storage temperature	-20°C ~ 60°C
Operating humidity	20% ~ 95% non-condensing
Bottom fastening screw thread	1/4" 20 UNC
Color	Black, White
Dimensions product wxhxd	13.3 x 18 x 15.3 cm. excl. connectors
Weight product	1.6 kgs
Dimensions box	26 x 24 x 24 cm
Included	power adapter, remote control, USB cable

SKU

Black	CM82-IP-B
White	CM82-IP-W
Included Features	Presenter Tracking mode Conference Tracking mode, preset based Conference Tracking mode, API based Hybrid Tracking mode Tally light

Product label markings





*Avonic's Optimal Zoom

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