

# CM83 PTZ CAMERA 4K & FULL HD – 30X ZOOM



## The enhanced 4K PTZ camera

The CM83 is Avonic’s enhanced 4K PTZ camera, made for conferencing, hybrid education, lecture halls, and live production. It delivers high-quality 4K video, long-range 30x zoom lens, excellent low-light performance, and flexible outputs. With tracking included standard, low latency streaming, and the dependable performance that defines Avonic, the CM83 offers advanced functionality in a refined and compact design.

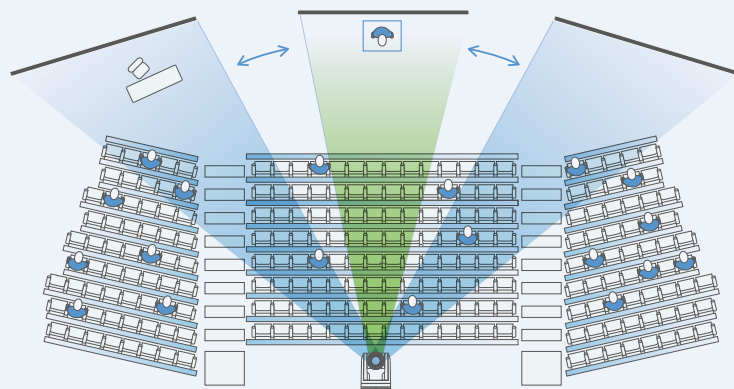
### 4K sensor

The CM83’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
- 30x zoom in 4k or up to 50x in digital zoom
- Simultaneous HDMI, SDI, USB & IP output
- High Pan/Tilt speed

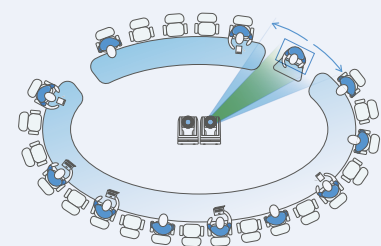
## TRACKING FEATURES



Hybrid Tracking



Presenter 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 Inch 8.29MP CMOS Sensor
Shutter	Auto/ Manual 1/60th ~ 1/10000th
Scanning mode	Progressive
Zoom/Aperture/Focal length	30x 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	60.4° (+/-3%)
Vertical FOV	35.1° (+/-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	CM83-IP-B
White	CM83-IP-W

Included Features	Presenter Tracking mode Conference Tracking mode, preset based Conference Tracking mode, API based Hybrid Tracking mode Tally light
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## Product label markings

Model: **AV-CM83-IP-B**  
Product name: PTZ Camera 4K & Full HD 30x zoom Black  
Input: 12VDC, 2A PoE:48VDC, 0.25A  
Package Quantity (unit): 1  
Designed in The Netherlands, Made in China  
Avonic B.V. Exportweg 11a, 2645ED, Delfgauw  
The Netherlands +31 157112712, info@avonic.com



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\*Avonic's Optimal Zoom

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