

CM93 PTZ CAMERA 4K60 30X ZOOM



The standard in 4K60 PTZ cameras

The CM93 is the most versatile PTZ camera from Avonic, delivering 4K Ultra HD output at 60fps. Designed for fixed installations, the CM93 comes with a powerful 30x zoom in 4K Ultra HD and an impressive 50x zoom in Full HD, setting the new standard in ultra-low latency performance. With a 59.2° wide-angle lens and simultaneous HDMI 2.0, 3G-SDI, USB 2.0, and IP stream outputs, this camera offers unparalleled versatility. The CM93 is also a popular choice in rental environments, often used for large conferences, live events, and broadcast settings where reliability and image quality are critical.

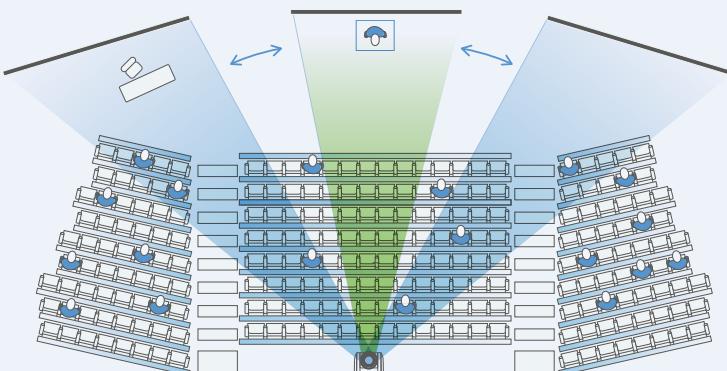
Fast over IP

Distribute high-quality video over IP, fast and reliable with close to zero latency. This new standard in ultra-low latency encoding, using open standards like H.264 and HVEC, is the closest thing to real-time available on the market today. Less delay means a better experience for everyone watching. From streaming and recording lectures and large conferences to healthcare applications.

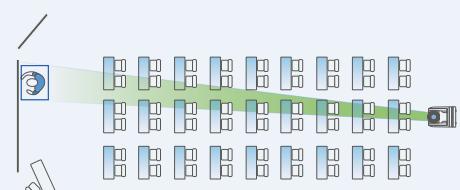
Features

- 4K60
- Pan, Tilt, Zoom
- 30x zoom (4k), 50x zoom (HD)
- IP, NDI, Dante, SRT
- Tracking
- Broadcast image quality

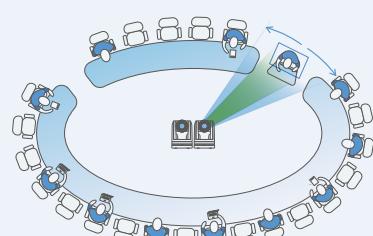
TRACKING FEATURES



Hybrid Tracking



Presenter Tracking



Conference Tracking Mode

APPLICATIONS

Camera

Resolution	Up to 4K60
Video Systems HDMI output	2160p60, 2160p59, 2160p50, 2160p30, 2160p25, 1080p60, 1080p59, 1080p50, 1080i60, 1080i59, 1080i50, 1080p30, 1080p29, 1080p25, 720p60, 720p59, 720p50
Video Systems SDI	1080p60, 1080p59, 1080p50, 1080i60, 1080i59, 1080i50, 1080p30, 1080p29, 1080p25, 720p60, 720p59, 720p50
Sensor	Sony 1/1.8", 8.42MP, 16:9 High SNR CMOS Sensor
Shutter	Auto/ Manual 1/60th ~ 1/10000th
Scanning mode	Progressive/ Interlace
Zoom/Aperture/Focal lenght	30x zoom (4k)*, 50x zoom (HD)* / F1.6 ~ F11/ 7mm ~ 172mm (+/-5%)
Minimal Illumination	0.05LUX @F1.6
White Balance	Auto, Manual, One Push, Manual 2400 ~ 7100K in 100K steps
Backlight Compensation	Supported
Digital Noise Reduction	Supported
Signal Noise Ratio	>50 dB
Horizontal FOV	59.2° - 2.5°
Vertical FOV	34.6° - 1.4°
Horizontal rotation	+/- 170°
Vertical rotation	120° (30° down, 90° up)
Pan speed range	0.15° ~ 120° p/sec
Tilt speed range	0.15° ~ 70° p/sec
H&V image flip	Supported
Number of presets	255 with 0.1° accuracy
Control	UVC, IR Remote, IP, Serial

IP Features

Video coding standard	H.265 / H.264 / MJPEG
H.264 Profiles	main
H.264 Profiles	base, main, high
Main stream resolution	3840x2160/ 1920x1080/ 1280x720
Main stream max frame-rate	60fps
Main stream bitrate	64 ~ 81920 Kbps
Sub stream resolution	1920x1080/ 720x480/ 640x480/ 640x360/ 320x240
Sub stream max frame-rate	30fps max
Sub stream bitrate	64 ~ 5120 Kbps
Video bitrate type	CBR, VBR
Supported protocols	RTSP, RTMP, ONVIF, SRT, Multicast, Unicast
Audio standard	AAC
Audio bitrate	32, 64, 96, 128 Kbps
Audio sample rate	48Khz
Audio line in	balanced audio by 5-way Phoenix connector

Input / Output Interface

HDMI output	HDMI 2.0 up to 4K60
SDI output	3G-SDI, 1080p60 max.
USB Output	USB2.0 Type B, 2160p30 max.
Network interface	RJ45 1 Gb.
Serial interface	RS232 mini DIN-8, RS485 2-pin phoenix

General Specifications

Input Voltage	12V
PoE	PoE 802.3AT (PoE+) at 18 watt
Power consumption	18W
Power supply	12V2A
Power connector	EIAJ-4 - Philmore 255 plug
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
Features	SRT and Tally Light
Color	Black, White
Dimensions product wxhxd	20.7 x 16.7 x 22.5 cm
Weight product	2.5 kg
Dimensions box	30 x 30 x 24 cm
Weight box	3.4 kg
Included	power adapter, remote control, RS232 cable, RS485 2-way Phoenix connector, Balanced Audio, Line-In 5-way Phoenix connector

Versions

Black	CM93-IP-B • CM93-NDI-B • CM93-DAV-B
White	CM93-IP-W • CM93-NDI-W • CM93-DAV-W

CM93-IP

Over IP	-
PTZ control over IP	-

CM93-NDI

NDI standard	NDI® HX 2 & NDI® HX 3
PTZ control over NDI	Enable via WebGUI

CM93-DAV

Dante standard	Dante AV-H (Optional)
PTZ control over Dante	-

License required features

Feature	Dante AV-H (Optional)
Tracking distance	0 ~ 15 meters **
License SKU	AV-LC90-1
License type	Life-time License

Product label markings

 AVONIC	   
<p>Model: AV-CM93-IP-W Product Name: 4K60 PTZ Camera 30x Zoom Input: 12VDC, 2A PoE: 48VDC, 0.25A Package Quantity/unit: 1 Serial & MAC ID: 9814D22210AF  EAN: 8715112112124 Avonic B.V. Exporting 11a, 2545ED Den Dolder, The Netherlands Tel: +31 15 7112712 Mail: info@avonic.com</p>	

*Avonic's Optimal Zoom

Datasheet CM93-IP / CM93-NDI / CM93-DAV • © March 2025 •
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