Reach Auto Tracking Camera REA490

Reach REA4900 auto tracking cameras integrates panoramic cameras, close-up cameras, and positioning array microphones.

Through professional voice positioning and 4K image analysis technology, it realizes accurate automatic tracking, frees the hands of conference personnel, making more engaged communication. It is a perfect choice for medium and large conference rooms.

Features:

☐ Built in high-speed processor and face detection algorithm, it can automatically detect the participants and provide the optimal framing,Within the range of panoramic view, if anyone move or enter into the room, the camera will automatically adjust to make sure all participants are at the center of the screen.

☐ Intelligent Voice Tracking,With array mics and advanced audio algorithm, this camera can locate the sound source to track the speaker in the real time,Close-up lens can smoothly switch between speakers when there are different people speaking.

☐ 4K ultra-high-definition images : using 850 Megapixel high quality SONY CMOS Image sensor with a maximum resolution of 4K (38 4 0 × 21 6 0), and a 4K output frame rate of up to 30 frames per second . Presents clear and lifelike ultra-high-definition video, vividly showing people's expressions and movements, and can provide image quality with superb clarity and resolution.

☐ Leading auto-focus technology: advanced auto-focus algorithm enables the lens to complete auto-focus quickly, accurately and stably.

☐ Low noise and high signal-to-noise ratio : The low-noise CMOS effectively guarantees the ultra-high signal-to-noise ratio of the camera video. Adopt advanced 2D and 3D noise reduction technology to further reduce noise while ensuring image clarity.

☐ Multiple video output interfaces: support HDMI, USB3.0, wired LAN interface; support POE power supply, USB3.0 supports dual stream .

☐ Multiple audio and video compression standards: support YUY2, MJPEG, H.264, H.265 , NV12 Video coding format , MJPEG, H.264, H.265 support up to 38 4 0 × 21 6 0 resolution 30 frames per second compression; support AAC, MP3, G.711A audio compression.

☐ Audio input interface: support AAC, MP3, G.711A audio encoding, AAC, MP3 encoding support 16000, 32000, 44100, 48000 sampling frequency.

☐ Multiple network protocols: support ONVIF, GB/T28181, RTSP, RTMP, VISCA OVER IP, IP VISCA, RTMPS, SRT protocols; support RTMP push mode, easy to link streaming media servers (Wowza, FMS); support RTP multicast mode.

☐ Super quiet pan/tilt: It adopts high-precision stepping motor and precision motor drive controller to ensure that the pan/tilt runs smoothly at low speed and has no noise.

☐ Low-power sleep function: support low-power sleep/wake-up, power consumption is less than 400mW during sleep.

☐ Multiple remote controls: Users can choose infrared remote control or wireless remote control according to the environmental conditions used. 2.4G wireless remote control is not affected by angle, distance and infrared interference. Support the transparent transmission function of the remote control signal, which is convenient for the use of back-end equipment.

☐ Intelligent voice positioning and tracking: Built-in 6 omnidirectional microphone arrays, intelligent sound source positioning algorithm, real-time positioning of the speaker's position, voice tracking can be set to on/off

1.1 Technical Parameters

Parameter/Model	REA490
Equipment, lens parameters	
Image Sensor	1/2.8 inch high quality CMOS sensor
Effective Pixels	8.5 million, 16:9
video signal	HDMI: 4KP30, 4KP25, 1080P30, 1080P25, 1080P29.97; USB3.0 output supports video formats including Main stream: YUY2/NV12: 1920×1080/1280×720/1024×576/800×600/800×448/640×360/480×270/320×180@30/25fps; MJPG/H264: 3840*2160/1920×1080/1600×896/1280×720/1024×576/960×540/800×600/800×448/720×576/720×480/640×360/640×480/480×270/352×288/320×240@30/25/20/15/10/5fps; Secondary stream: YUY2/NV12: 1280×720/1024×576/800×600/800×448/640×360/640×480/480×270/320×180@30/25/20/15/10/5fps; MJPG/H264: 1920×1080/1600×896/1280×720/1024×576/960×540/800×600/800×448/720×576/720×480/640×360/640×480/480×270/352×

	288/320×240@30/25/20/15/10/5fps;
close-up parameters	12x optical zoom
angle of view	Horizontal: 7.6° (narrow angle) ~ 80.5° (wide angle)
Aperture factor	F1.8 ~ F3.6
digital zoom	X15
Minimum illumination	0.5Lux(F1.8, AGC ON)
digital noise reduction	2D & 3D digital noise reduction
white balance	Auto/manual/one-key white balance/designated color temperature
focus mode	Auto/manual/one key focus
exposure mode	Auto, Manual, Shutter Priority, Aperture Priority, Brightness Priority
aperture	F1.8 ~ F3.6, CLOSE
Shutter speed	1/25～1/20000
BLC	switch
Dynamic Range	off, 1 to 8
video adjustment	Brightness, hue, saturation, contrast, sharpness, black and white mode, gamma curve
SNR	>50dB
panoramic lens	fixed focus lens
angle of view	110.2°\101.8°\69.5°（D\H\V)
aperture	F2.0±5%
focal length	F=1.89mm

Interface function performance	
product interface	HDMI, LAN (support POE), USB3.0, LINE-IN, RS232-IN, DC12V power supply, power switch
Video output interface	HDMI, LAN, USB3.0
video compression format	LAN interface support: H.264, H.265 USB 3.0 interface support: MJPG, H264, YUY2, NV12
audio input interface	Dual channel 3.5mm line input
audio output interface	HDMI, LAN, USB3.0
audio compression format	AAC, MP3, G.711A
Network Interface	10M/100M adaptive Ethernet port, support POE power supply, support audio and video output
Network protocol	RTSP, RTMP, ONVIF, GB/T28181, VISCA OVER IP, IP VISCA, RTMPS, SRT, support remote upgrade, remote restart, remote reset
control interface	RS232-IN
Serial communication protocol	VISCA/Pelco-D/Pelco-P; support baud rate 115200/38400/9600/4800/2400
USB communication	UVC (video communication protocol), UAC (audio communication protocol)

protocol	
power interface	HEC3800 power socket (DC12V)
Power Adapter	Input AC110V~AC220V; output DC12V/2.5A
Input voltage	DC12V±10%
Input Current	<1A
Overall power consumption	<12W

PTZ parameters	
horizontal rotation	-110°～+110°
pitch roll	-30°～+30°
Horizontal control speed	0.1°/s～100°/s
pitch control speed	0.1°/s～70°/s
Preset speed	Horizontal: 78.8°/s, Tilt: 31.7°/s
Number of preset positions	The user can set up to 255 preset positions (10 on the remote control)
Other parameters	
stored temperature	-10℃～+60℃
storage humidity	20%～95%
Operating temperature	-10℃～+50℃
Working humidity	20%～80%
size	220 (L) mm×136mm (W)×159mm (H)
weight (approx.)	about 1.7kg
use environment	indoor
appendix	
Random accessories	Power adapter, RS232 control cable, USB3.0 cable, remote control, manual, warranty card & certificate
attached	Mounting brackets
AI function	
Smart framing	Built-in high-speed processor and built-in face detection algorithm to automatically detect participants and provide ideal framing
Intelligent voice location tracking	Built-in 6 omnidirectional microphone arrays, intelligent sound source positioning algorithm, can locate the speaker's position in real time, and can set voice tracking on/off

Dimensions:

132

ø84.6

159

38

1.5

136

127.6

126

220

86.5

1/4"UNC
ø5.5

14

91

140