Reach AI Auto Tracking PTZ Camera

Rea-420

Reach Rea-420 information and communication high-definition camera series have perfect functions, excellent performance, and rich interfaces; advanced ISP processing technology and algorithms make the image effect vivid and lifelike, the screen brightness is uniform, the light and color layering is strong, the definition is high, and the color reproduction is good. good. Support H.265 /H.264 encoding, which makes the picture smoother and clearer under low bandwidth.

Features:

- ☐ 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.
- ☐ Optical zoom lens : 12 ,70 ° optical zoom lens .
- ☐ 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, SDI, USB3.0, wired LAN interface; support POE power supply, USB3.0 supports dual stream, SDI supports 1080P60 format transmission 100 meters.
- ☐ 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 3840 × 2160 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.
- ☐ Built-in gravity sensor: built-in gravity sensor, supports automatic flip function of the gimbal, convenient for engineering installation.
- ☐ 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.
- ☐ Control interface: RS422 is compatible with RS485, RS232-IN, RS232-OUT, RS232 interface supports cascading.
- ☐ Multiple control protocols: support VISCA, PELCO-D, PELCO-P protocols, and support automatic identification protocols.
- ☐ 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.
- ☐ Multi-preset position: Support up to 255 preset positions (10 are set by the remote control).
- ☐ 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.
- ☐ AI humanoid tracking, built-in high-speed processor and exclusive advanced image processing and analysis algorithm, users can choose real-time tracking and area tracking according to the usage environment.
- ☐ There are many application places: distance education, teaching recording and broadcasting, conference system, distance training, telemedicine, court trial system, emergency command system, etc.

Spec Information

Parameter/Model	12 times
Equipment, lens parameters	
Image Sensor	1/2.8 inch high quality CMOS sensor
Effective Pixels	851M, 16:9
video signal	HDMI: 4KP30, 4KP25, 1080P30, 1080P25, 1080P29.97; Video formats supported by SDI output include 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@10/5fps; 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;
Lens optical zoom	12x optical zoom
angle of view	Horizontal: 6.5° (narrow angle) ~ 70.9° (wide angle)
Aperture factor	F1.6 ～ F2.8±5%
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 ~ F11, 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

Interface function performance	
product interface	HDMI, SDI, LAN (support POE), USB3.0, A-IN, RS232-IN, RS232-OUT, RS422 (compatible with RS485), DC12V power supply, DIP switch, power switch
Video output interface	HDMI, SDI, 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, SDI, LAN, USB3.0
audio compression format	AAC, MP3, G.711A
Network Interface	10M/100M/1000M 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, RS232-OUT, RS422 compatible with RS485
Serial communication protocol	VISCA/Pelco-D/Pelco-P; support baud rate 115200/38400/9600/4800/2400
USB communication protocol	UVC (video communication protocol), UAC (audio communication 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	-170° ～+170°
pitch roll	-30° ～+90°
Horizontal control speed	0.1° /s～60° /s
pitch control speed	0.1° /s～45° /s
Preset speed	Horizontal: 60° /s, Tilt: 45° /s
Number of preset positions	The user can set up to 255 preset positions (10 on the remote control)

Other parameters	
stored temperature	-10℃～+70℃
storage humidity	20%～95%
Operating temperature	-10℃～+50℃
Working humidity	20%～80%
size	181 (L) mm×115mm (W)×149mm (H)
weight (approx.)	about 1.2kg
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	
real-time tracking	The farthest tracking distance can reach 6-7 meters , and can support the speaker to walk at a speed of 3-4 miles
area tracking	Support setting 4 tracking areas, support horizontal -170° ～+170° , vertical Setting area within -30° ～+90°