

interAct6 – All-in-One Video Switching, Capture & Streaming Bundle

TSA1062i-S (small room up to 25 x 25 ft) or TSA1062i-M (medium room up to 40 x 40 ft)

Introducing the interAct6 auto tracking and smart switching lecture/event capture and streaming bundle from Reach. Reach's 5th generation streaming and recording engine uses Artificial Intelligence to automate wide and close up shots of the presenter and audience to make any presentation, town hall meeting or lecture look professional; all without the need for mats, fobs, volunteers, editors, or production assistance. Let the interAct6 take control and automatically manage your event, or go manual and take control of cameras, image switching, transition and titling. With an onboard 11" touchscreen and POE switch, the interAct6 is easy to set up and operate. The included Director Software turns the interAct6 into a powerful production device.

Key Features

- ✓ All in one system - Includes: 1 - 11" Touch screen server (TSA1062i), 2 - 4k IP cameras with wall mounts (HD901 T & S), 2 - IP microphones (AM10), and for M bundle 1 - 12x PTZ Camera (HD840)
- ✓ 5 Video inputs - 1 x HDMI, 4 x SDI or 2 x IP input - each IP camera outputs a close up view and a full view, & 1 x HDMI IN (PC or PPT)
- ✓ High quality - 1080p@60 recording and streaming
- ✓ Efficient compression - H.264 Compression codec
- ✓ Superior Audio - Built in Audio DSP, supports ANC, AEC, AFC
- ✓ 6 Encoders - Simultaneous 5-channel recording and choice of single output movie mode or individual channel MP4 file output
- ✓ 4 port POE power supply for connecting cameras and microphones.
- ✓ Quick start - One key to enable recording and/or streaming
- ✓ Web-based user interface for updating settings or for remote control
- ✓ PTZ Camera control
- ✓ AI Driven Smart Switching during live streaming and recording

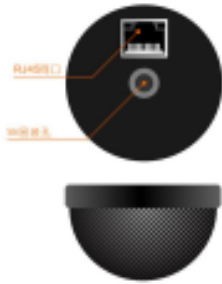
1 - interAct6 Touchscreen Recording & Streaming Device

Specifications	
Model	TSA1062i
Video input	4x POE (PSE)-IN, 4xSDI, 1xHDMI (4K@30)
Audio input	2x RJ45 Mic in, 2x 3.5mm line in
Video output	2x HDMI, HDMI 1 for program, HDMI for director visual
Audio output	2x 3.5mm Line out
Video encoding	Codec: H.264
	Bitrate: 1 to 30 Mb/s
	Resolution: User selectable up to 1920 × 1080 and 3840 × 2160
Video switching	During live streaming and recording via the touch screen, web UI, 3rd party control system
Streaming protocol	TS, RTSP, UDP, RTMP, RTMPS
Interactive protocol	WebRTC
Video layout	PIP, POP, Single video, Size by size and up to 10 groups of layout
Encoded programs	5 simultaneous 1080p/60, up to 2160p/30 programs (with up to 2 Full HD / UHD sources)
Audio encoding	AAC (sampling @ 48 kHz), opus, ISAC
Security	One-button lock screen & User management and Password login
Network	1 × 100 Ethernet port (RJ45)
Storage	Hard disk, 128G (optional selection of 1T, 2T capacity)
	USB 3.0, Automatic or manual copy via 1 USB 3.0 ports
Network Storage	FTP
Recording formats	Mp4
Control	Browser, 11' touch screen, RS232 API, Telnet
Remote control camera	Pan/Tilt/Zoom over RS485 API



Port Information	
Name	Detail
DC-48V	Power
USB	1x USB 2.0, 1x USB 3.0
COM	RJ45, support RS485
NET	RJ45, 100MB
POE 1-4	RJ4 network (with POE power supply)
HDMI OUT 1-2	Program/director visual, online interactive image
SDI1-4	Video input, 1080@P60
HDMI IN	PPT or PC input, max support 4K@30
MIC 1-2	Mic input
LINE OUT 1-2	3.5mm Line out, OUT1 (SPEAKER), OUT2 (AEC OUT)
LINE IN 1-2	3.5mm line in (line in 1 connect wireless Mic, line, 2 connect, PC audio)

2 - Unidirectional Microphone – AM10



Specifications:	
Product Name	AM10
Sensor Type	Electret condenser pole head
Pick up distance	6m in radius
Sensitivity	-42dB + 3dB (0db=1V/Pa@1kHz)
Signal to noise ratio	71dB

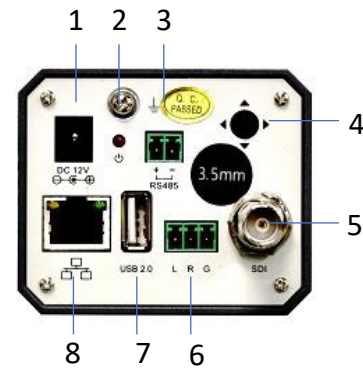
2 - interAct6 4K EPTZ Box Cameras – HD901

-1 Teacher View (T) $f=7.35\text{mm}$, FOV 46°

-1 Student View (S) $f=3.5\text{mm}$, FOV 84°

Key Features

- ✔ **4K Ultra High Definition** - Supports 4K ultra high definition, with ultra high resolution, maximum output 4K@30fps/25fps image, while down compatible with 1080p, 720p and other resolutions.
- ✔ **Intelligent Tracking** - Built-in leading image recognition and tracking algorithm, you can achieve smooth and natural tracking without any auxiliary positioning camera or tracking host. Supports teacher tracking mode and student tracking mode.
- ✔ **AF Lens** - Full custom auto focus without distortion lens, wide angle field of view up to $46^\circ/84^\circ/120^\circ$, small len, wide vision. Supports EPTZ.
- ✔ **Low Light** - The application of 2D and 3D noise reduction algorithm greatly reduces the image noise. Even under low illumination conditions, the camera still keeps the picture clean and clear, and the SNR of image is as high as 55dB.
- ✔ **PoE** - Support PoE power supply, and control, power supply, video and audio can be completed with only one network cable.



Port Information	
No.	Connector
1	DC 12V Interface
2	Power Indicator
3	RS485 Interface
4	Menu Button
5	SDI Interface
6	LINE IN Interface
7	USB 2.0 Interface (optional)
8	Network Interface

Specifications	
Product	interAct6 4k IP Box Cameras (1 Teacher View, 1 Student View)
Model	HD901 (T) & (S)
Camera	
Sensor	1/2.5" CMOS, 8.51 Megapixels
Scanning Mode	Progressive
Lens Mount	M12
Lens 1 (teacher)	Focus: f=7.35mm, FOV: 46°
Lens 2 (student)	Focus: f=3.5mm, FOV: 84°
Auto Focus	Supported
Minimal Illumination	0.05Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual, VAR
Digital Noise Reduction	2D, 3D digital noise reduction
Backlight Compensation	Support
EPTZ	Support
Digital Zoom	8x
PoE	Support
Auto Tracking Function	Teacher mode/Student mode (optional)
Network Features	
Encode Protocol	H.264/H.265/MJPEG
Video Stream	First/Second/Third/Four Stream
First Stream Resolution	1920x1080, 1280x720, 1024x576, 960x540, 640x480, 640x360
Second Stream Resolution	3840x2160, 1920x1080, 1280x720, 1024x576, 720x576 (50Hz support), 720x480 (60Hz support), 720x408, 640x360, 480x270, 320x240, 320x180
Third/Four Stream Resolution	1024x576, 960x540, 720x576 (50Hz support),
Resolution	720x480 (60Hz support), 720x408, 640x360, 480x270, 320x240, 320x180
Video Bit Rate	32Kbps ~ 102400Kbps
Bit Rate Control	Variable Rate, Fixed Rate
Frame Rate	50Hz: 1fps ~ 25fps, 60Hz: 1fps ~ 30fps
Audio Compression	AAC
Audio Bit Rate	48Kbps, 64Kbps, 96Kbps, 128Kbps
Protocols	TCP/IP, HTTP, RTSP, RTMP, ONVIF, DHCP etc.
Input/Output Interface	
Network Interface	1 x RJ45: 10/100/1000M Ethernet Interface (Support PoE)
Audio Interface	1 x Line In: 3pin (Phoenix Interface)
Control Interface	1 x RS485: 2pin, Max Distance: 1200m, Protocol: VISCA/Pelco-D/Pelco-P
Power Interface	DC 12V
USB Interface	1 x USB 2.0: Type A, female (optional)
Physical Parameter	
Input Voltage	DC 12V / PoE (IEEE802.3af)
Current Consumption	0.5A
Operating Temperature	14°F ~ 104°F / -10°C ~ 40°C
Storage Temperature	-40°F ~ 140°F / -40°C ~ 60°C
Power Consumption	6W
Size	2.83in x 2.36in x 5.11in / 72mm x 60mm x 130mm (without bracket)
Net Weight	0.5Kg
MTBF	> 30000h

*For TSA1062i-M bundle ONLY (medium room up to 40 x 40 ft)

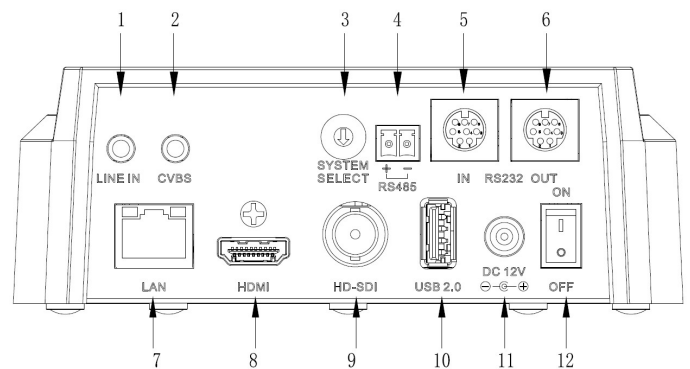
1 - interAct6 12x PTZ Camera – HD840

The HD840 PTZ Camera uses unique facial detection to enable the interAct6 to map and track subjects and participate in the “Smart Switching” feature. Its sharp 12x Zoom lens allows the interAct6 to work in medium sized (40’x40’) rooms and give one crystal clear zoomed shots of the presenter along with the white board or chalk board. Its smooth variable Pan and Tilt motors are calibrated to work and track with the interAct6 Eco-System using the HD-SDI outputs and IP control.



Key Features

- ✓ 12x Optical Zoom with a high-quality telephoto lens
- ✓ H.265 support that enables full HD 1080p60 video stream with ultra-low bandwidth
- ✓ 1080p Full HD can reach a maximum of 1920x1080 high resolution & achieve high-quality images
- ✓ Ultra-High Frame Rate can be from 60fps in 1080p, up to 120fps in 720p, and up to 240fps in 640x480p
- ✓ Face Detection Module is built in which enables PTZ tracking
- ✓ AAC Audio Encoding makes for better sound quality and smaller bandwidth
- ✓ Recordings can be directly stored to a local USB flash drive without an NVR
- ✓ High SNR of CMOS sensor combined with a 2D and 3D noise reduction algorithm allow for clear image output, even in low-light situations
- ✓ HDMI output and 3G-SDI interface (allows for effective transmission within a distance of up to 100m)
- ✓ All parameters of the camera can be remotely controlled using the IP interface
- ✓ Supports “Freeze During Preset” function and can mask the image when calling the preset



Port Information	
No.	Connector
1	Audio LINE IN Interface
2	CVBS Interface
3	System Select Switch
4	RS485 Interface
5	RS232 IN Interface
6	RS232 OUT Interface
7	Network Interface
8	HDMI Interface
9	SDI Interface
10	USB2.0
11	DV 12V Jack
12	Power Switch

Specifications:	
Model	HD840
Video System	HD: 1080p/60, 1080p/50, 1080i/60, 1080i/50, 1080p/30, 1080p/25, 720p/60, 720p/50, 720p/30, 720p/25 SD: 480i, 576i
Sensor	1/2.7", CMOS, Effective Pixel: 2.12M
Scanning Mode	Progressive
Lens	12x Optical Zoom , f3.5mm ~ 42.3.5mm, F1.8 ~ F2.8
Digital Zoom	16x (optional)
Minimal Illumination	0.05 Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual, Specified color temperature
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
Video S/N	≥55dB
Horizontal Angle of View	72.5° ~ 6.9°
Vertical Angle of View	44.8° ~ 3.89°
Horizontal Rotation Range	±170°
Vertical Rotation Range	-30° ~ +90°
Pan Speed Range	1.7° ~ 100°/s
Tilt Speed Range	1.7° ~ 69.9°/s
H & V Flip	Supports
Image Freeze	Supports
Wall Mount	Included
POE (802.3af)	Support
Number of Preset	255
Preset Accuracy	0.1°
Video Compression	H.265 / H.264 / MJPEG
Video Stream	Main Stream, Sub Stream
Main Stream Resolution	1920x1080, 1280x720, 1024x576, etc.
Sub Stream Resolution	720x576, 720x480, 320x240, etc.
Video Bit Rate	32Kbps ~ 20480Kbps
Bit Rate Type	Variable Rate, Fixed Rate
Frame rate	50Hz: 1fps ~ 25fps, 60Hz: 1fps ~ 30fps
Audio Compression	AAC
Audio Bit Rate	96Kbps, 128Kbps, 256Kbps
Support protocols	TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast, etc.
HD Output	1xHDMI: Version 1.3V 1x3G-SDI: BNC type, 800mVp-p, 75Ω, Along to SMPTE 424M standard
Specs continued...	

HD840 Specs Continued...

SD Output	1xCVBS: 3.5mm mini jack, 1Vp-p, 75Ω
Network Interface	1xRJ45: 10M/100M Ethernet Interface
Audio Interface	1-ch: 3.5mm Audio Interface, Line In
USB	1xUSB2.0: Type A female jack
Communication Interface	1xRS232 In: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA/Pelco-D/Pelco-P 1xRS232 Out: 8pin Min DIN, Max Distance:30m, Protocol: VISCA network use only 1xRS485: 2pin Phoenix Port, Max Distance: 1200m, Protocol: VISCA/Pelco-D/Pelco-P
Power Jack	JEITA type (DC IN 12V)
Input Voltage	DC 12V
Current Consumption	1.0A (Max)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F)
Storage Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
Power Consumption	12W (Max)
SD Output	1xCVBS: 3.5mm mini jack, 1Vp-p, 75Ω
Network Interface	1xRJ45: 10M/100M Ethernet Interface
Audio Interface	1-ch: 3.5mm Audio Interface, Line In

