

# Interactive online Teaching system-Bee4

Model name :TCN2000

Course content capture,streaming,Muti-Classrooms Realtime Interactive

All over IP connection,Camera Auto Tracking,Auto switching,Audio Realtime interactive

Media Master TCN2000,HD901L,M10

## Features:

- ▶ All in one system of 11" Touch screen
- ▶ Simultaneous 5-channel recording
- ▶ 1080p@60 recording and streaming
- ▶ H.264 / H.265 Compression codec
- ▶ POE power supply for camera and Mic
- ▶ Realtime interactive online teaching
- ▶ PTZ Camera movement control
- ▶ Video switching during live streaming and recording
- ▶ More video layouts , up to 10 groups,10 local video resource preview
- ▶ 5 \* video input port (1 x HDMI, 4\*SDI or 2 \*IP input{each IP camera output 2 streams (a close up view and a full view ) } +1 \*HDMI(PC or PPT),Max 10 video feeds local preview
- ▶ PIP, POP, Single video layout
- ▶ Online interactive with multi-classroom ,WebRTC protocol to support multi-points real time video interactive
- ▶ Auto-tracking, auto-switch & recording , can auto tracking teacher movement, detect the signal source change and auto-switch the images
- ▶ Built in Audio DSP, support ANC,AEC,AFC for audio interactive
- ▶ 4-way signals from teacher close-up, podium panorama, student panorama, and 1 presentation signal from PC.
- ▶ 4K resolution sources simultaneously input via IP connection
- ▶ Wireless keyboard and mouse operate
- ▶ Video auto tracking base on High speed 4 K image cut and analysis,Motion detection



## Specifications

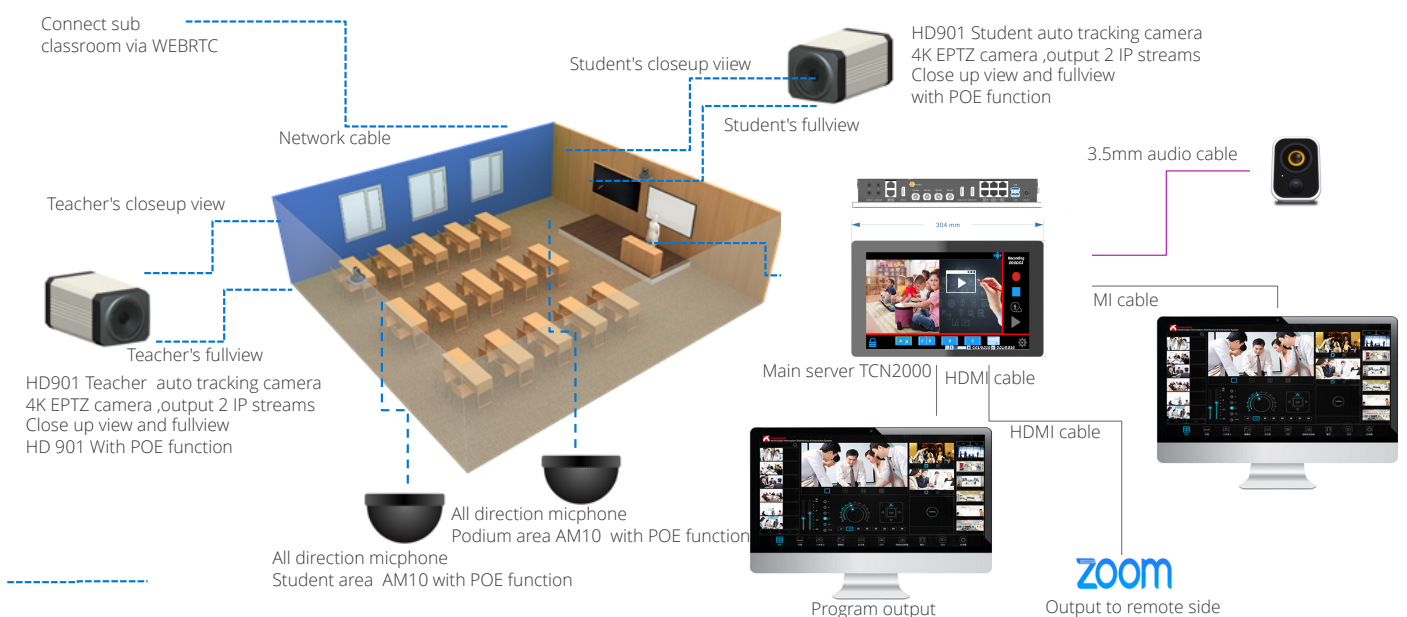
Video input	4*POE(PSE)-IN,4*SDI,1*HDMI(4K@30)
Audio input	2* RJ45 Mic in,2*3.5mm line in,Built in Audio DSP,AFC,ANC support
Video output	2* HDMI ,HDMI 1 for program,HDMI 2 for local director visual
Audio output	2*3.5mm Line out
Video encoding	Codec: H.264 HP ,H.264 MP, H.265,
	Bitrate: 1 to 40 Mb/s
	Resolution: User selectable up to 1920 × 1080 up to 3840 × 2160
Video switching	During live streaming and recording via the touch screen, web UI, 3 <sup>rd</sup> party control system
Streaming protocol	TS, RTSP, UDP, RTMP ,RTMP
Interactive protocol	WebRTC realtime interactive,Cloud interactive support
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

## Real Panel



Item	Mark	Detail
1	DC-48V	Power
2	USB	USB2.0*1, USB3.0*1
3	COM	RJ45*1, support RS485
4	NET	RJ45*1, 100MB
5	POE1-4	RJ4 network (with POE power supply)
6	HDMI-OUT-1-2	Program/director visual, online interactive image
7	SDI1-4	Video input,1080@P60
8	HDMI-IN	PPT or PC input, max support 4K@30;
9	MIC 1-2	Mic input
10	LINE OUT 1-2	3.5mm Line out , OUT1(SPEAKER),OUT2(AEC OUT)
11	LINE IN 1-2	3.5mm line in (line in1 connect wireless Mic, line 2 connect PC audio)

## System Connection



**Packing List**

Item	Model	Qty	Unit
1	TCN2000 server	1	Set
2	HD901-T	1	Set
3	HD901-S	1	Set
4	M10	2	Set
5	Power supply cable	1	Set
6	Wall mount accessory	1	Set
7	Power adapter	1	Set