

datavideo



4K 30x Tracking PTZ Camera
PTC-325/ PTC-325T/ PTC-325G

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4K 30x Tracking PTZ Camera

Brand New 4K Auto tracking PTZ Camera

The PTC-325 series is equipped with a 1/2.8" CMOS lens featuring 30x optical zoom, making it suitable for applications such as auditoriums, classrooms, and conference halls. The PTC-325 includes an Auto Tracking (AT) system and can also be controlled using a professional camera controller or remote control, delivering smooth and natural camera movements similar to those of a cameraman.

The HDMI output supports 4K-50/60P format with YUV 4:2:2 color sampling, and it also has simultaneous 3G-SDI video output. In addition, it features built-in H.264, H.265, and Motion JPEG encoding, allowing real-time live streaming to two platforms with just one unit, enabling both on-site and online live playback. For audio, it supports 3.5mm microphone and line-in audio inputs, with mixing control and settings adjustable directly via the web UI interface to meet live sound requirements.

The PTC-325 series fully complies with the ONVIF Profile S standard, ensuring compatibility and interoperability in various network video environments. For power input, it also supports PoE, allowing dual-mode power supply, which is ideal for system installation and on-site wiring configuration.

To meet different workflow needs, Datavideo offers multiple models, including the PTC-325T 4K HDBaseT version for long-distance high-quality signal transmission and the PTC-325G with 12G-SDI output for professional-grade video production requirements. Users can flexibly choose according to their actual working environment and personal preferences to achieve the desired shooting effect. Additionally, the PTC-325 and PTC-325G cameras support NDI functionality.



PTC-325T



deo

PTC-325



PTC-325/ PTC-325T/ PTC-325G

- 2160p50/59.94/60 PTZ camera
- Supports Auto tracking function
- 1/2.8" CMOS
- 30x Optical Zoom, 16x Digital Zoom
- Video Output: 4K HDMI, 3G-SDI, 12G-SDI (PTC-325G), IP streaming (H.264 & H.265), HDBaseT (PTC-325T)
- 2160p and 1080p (3G-SDI) Simultaneous video output
- Excellent low light performance (0.5 Lux @ F1.8, AGC ON)
- RS-422 Serial Control
- DVIP (Datavideo Proprietary Protocol) Control
- Supports Sony VISCA via browser and VISCA over IP Protocol
- External audio input: 3.5mm audio in (mic in or line in)
- User friendly web UI via browser & app (iOS and Android)
- Dual streaming: 2160p and 480p simultaneously
- The PTC-325 and PTC-325G cameras support NDI | HX3 and NDI | HX2 technology.
- Compliant with the ONVIF Profile S standard.
- Support DC and POE power supply

PTC-325 SERIES



PTC-325

NDI HX3



PTC-325T

HDBaseT



PTC-325G

12G

NDI HX3





Quick Access to Camera's Auto tracking

You will be allowed direct access to auto tracking via various external controllers such as the supplied RMC-1AT remote control and DVIP controllers (RMC-300A, PTC View Assist, etc.)

In addition to camera controllers, you can also easily enable auto tracking on smart switchers which include KMU-200, SHOWCAST 100, etc as well as complete solution systems like ZR-1 Hybrid Video Production Solution.



SHOWCAST 100

RMC-300A

PTC View Assist

TPC-700P

RMC-1AT

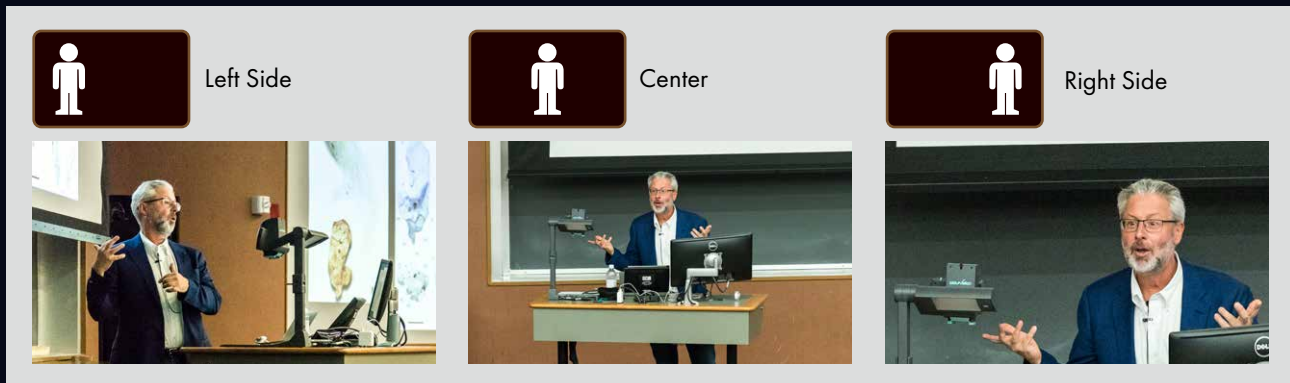
Custom AI Object Tracking

If you are filming multiple people, you can designate a person for Auto tracking. Once linked to the camera, only the designated person will be tracked, avoiding interferences such as the desks, people coming back and forth, large objects, etc.



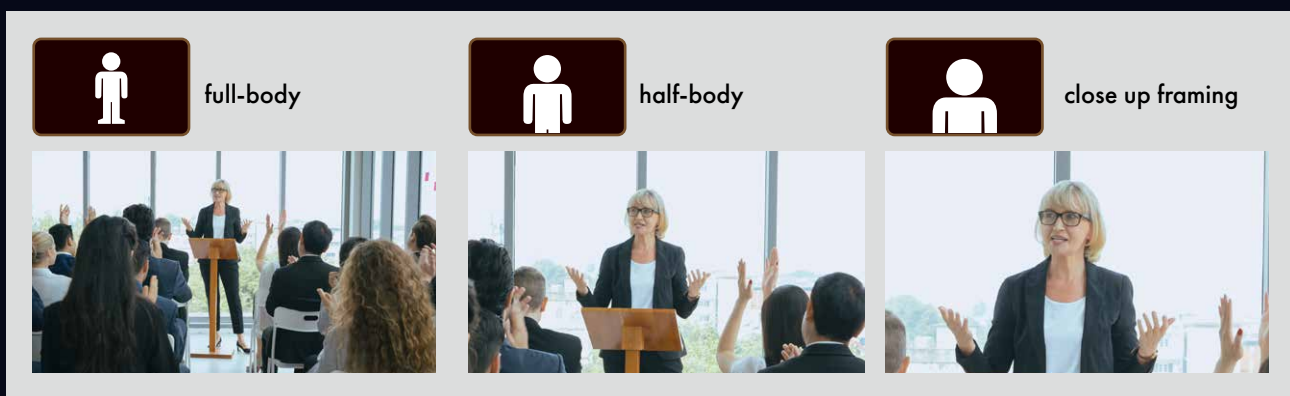
Talent Position: Center / Left Side / Right Side

The positioning of talent depends on the videographer's creativity and intent rather than strict rules. Different positions can convey various emotions, messages, or visual effects. A centered composition provides a sense of stability and balance, suitable for scenes that require highlighting the main subject. Videographers may also place the talent on the left third or right third of the frame, leaving adequate space in the foreground to showcase the talent's sight direction or potential future possibilities.



Quick Access to Framing Options

All of the PTC-325 camera series include RMC-1 controller. User can quickly select full-body, half-body and close up framing, making it easy to change the shooting scene and framing requirements.



Smart PTZ Speed Adaptation

The integrated PID algorithm is able to detect the movement speed of the identified object and automatically adjust the camera's corresponding pan, tilt and zoom speeds in such a way that the lens movement will be smooth, avoiding common camera lens movement problems like jerky movements or unpredicted halts.



Various Control Options

Control real-time pan, tilt, and zoom camera movements with Datavideo PTZ View Assist APP, RMC-300A and RMC-180 series. With configurable preset positions supported.



SHOWCAST 100



PTZ View Assist



RMC-180 MARK II



RMC-300A

Multiple simultaneous video output

Supports simultaneous HDMI 2.0 output up to 2160p 50/60 and also 3G-SDI output up to 1080p60/50.



streaming

4K HDMI

3G-SDI

Supports 12G-SDI Output

The PTC-325G is equipped with a 12G-SDI input/output port, specifically designed to deliver ultra-high-definition 4K SDI video content, ensuring detailed and smooth images. It is also seamlessly compatible with other professional broadcast-grade 12G-SDI devices, creating an integrated, high-standard video production experience.

12G



Multiple Network Protocol with Dual Stream function

Support RTSP and RTMPS protocols, easy to stream directly to two different CDN platforms and Datavideo dvCloud as well.



One Ethernet Cable with NDI® | HX Technology

There is no need for multiple cables and complicated setup. Single-wire concept helps you to transfer video, audio, power, tally, and control over only one Ethernet cable.

Power Over Ethernet (PoE) functionality allows you transmit all the information and power over only one cable. NDI® is a registered trademark of Newtek, Inc.

NDI HX3

NDI® Virtual Input

PTC-325 as an video input source can be applied to various platforms: Skype, GoToMeeting, WebEx, Zoom, and more.



Broadcast quality 4K HDMI / 3G-SDI PTZ camera

Resolution is up to 2160p 50/60. 30x optical zoom for PTC-325 series which you a high quality video.



Low Noise in low light CMOS effectively ensures high SNR of video quality.

Advanced 3D noise reduction technology is also used to further reduce the noise while ensuring image sharpness.



RS-422, DVIP and Ethernet Camera Control

RS-422 and ethernet to use DVIP or VISCA over IP commands to integrate with larger control systems.



Compliant with the ONVIF Profile S standard

The PTC-325 series cameras are compliant with the ONVIF Profile S standard, ensuring seamless integration and interoperability in network video systems.



Supports H.264/H.265 video compression

Support compression of resolution up to 3840x2160 with frame up to 59.94, 60fps and the second channel 730x480p compression. AAC, MP3 and PCM audio compression also supported.



Tally Light

Green and red tally lights to show the preview and program status for broadcast applications.





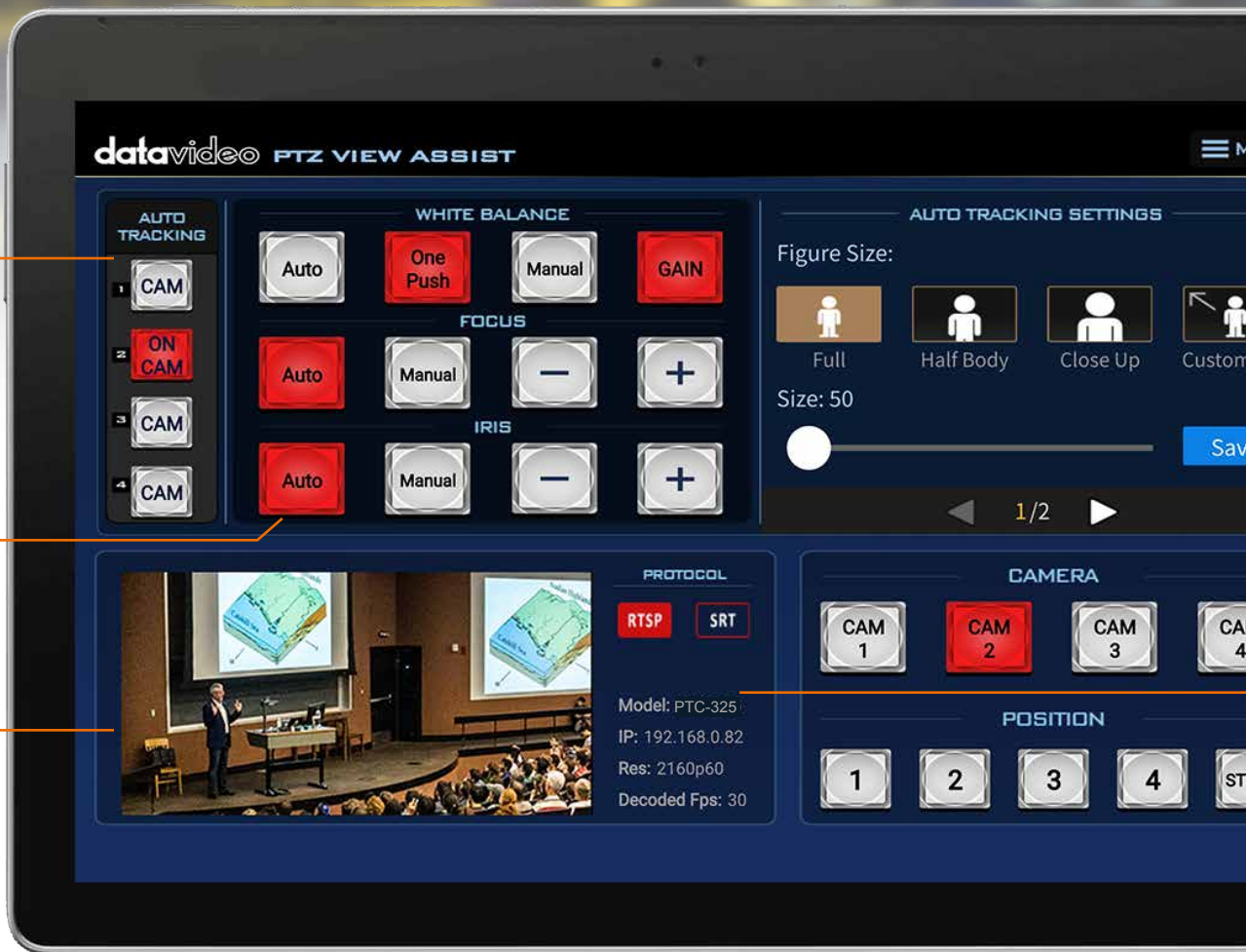
Simply enable Auto tracking
with your IR remote control

RMC-1AT PTZ Controller



All you need is a remote control to set and control all four cameras and save the four presets.





Auto Tracking

White Balance
Focus
Iris

Monitoring

PTZ View Assist

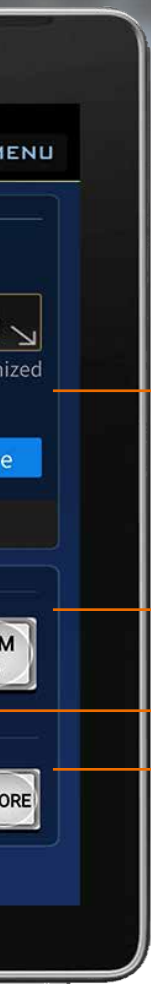
Control up to four cameras with your Tablet



The camera control app is tailored for the Datavideo PTZ camera series. It can monitor the live streaming video from PTC-140, PTC-145, PTC-280, PTC-285, PTC-300 and PTC-325 series. The app can control up to 4 cameras simultaneously via DVIP, you can intuitively set up and recall the presets, and adjust white balance, focus, and IRIS. The app can decode the live streaming via RTSP and SRT, easily monitor the live streaming video and set up the parameters promptly in one application. Datavideo provides iOS and Android versions, you can download on Google Play and App Store for free!



Mobile phone version available soon



Camera Control

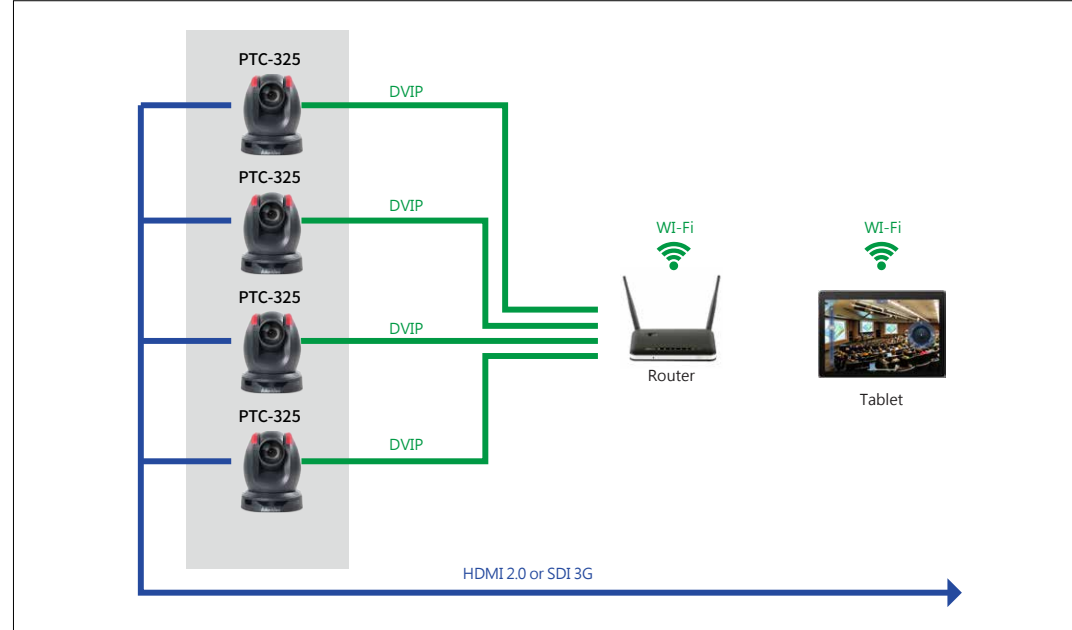
Camera

Protocol

Position

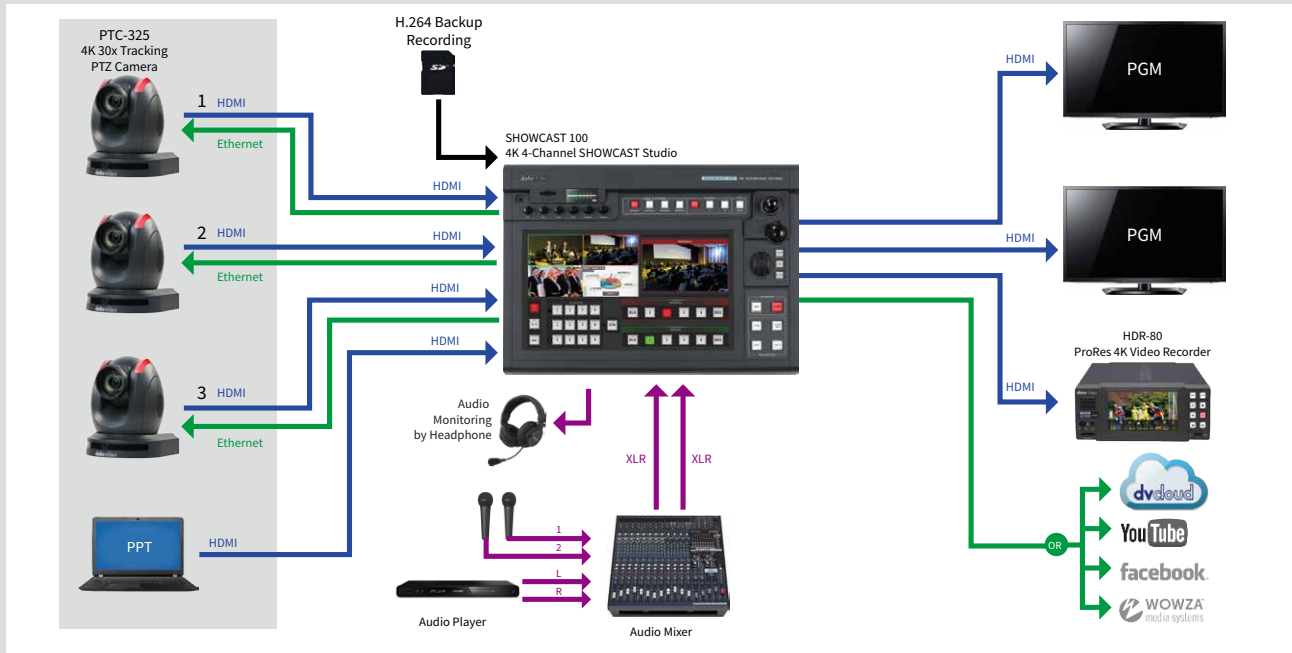


Camera control via web UI APP control

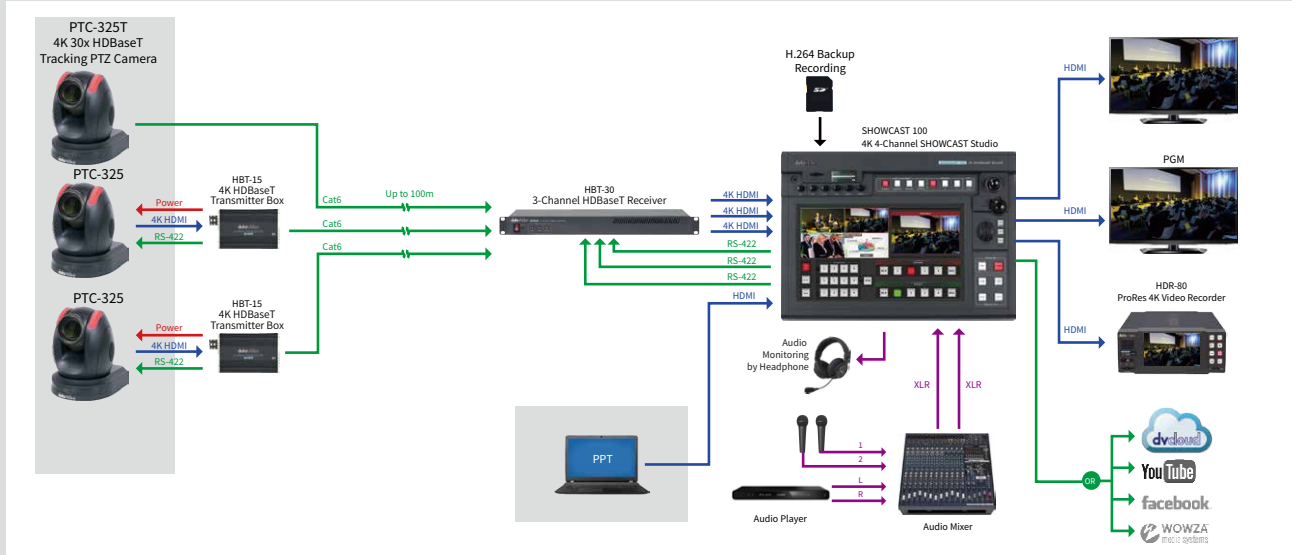


The camera control app is able to control datavideo PTZ cameras. Once you install the app on the tablet, it is easy to control the cameras in the same network!

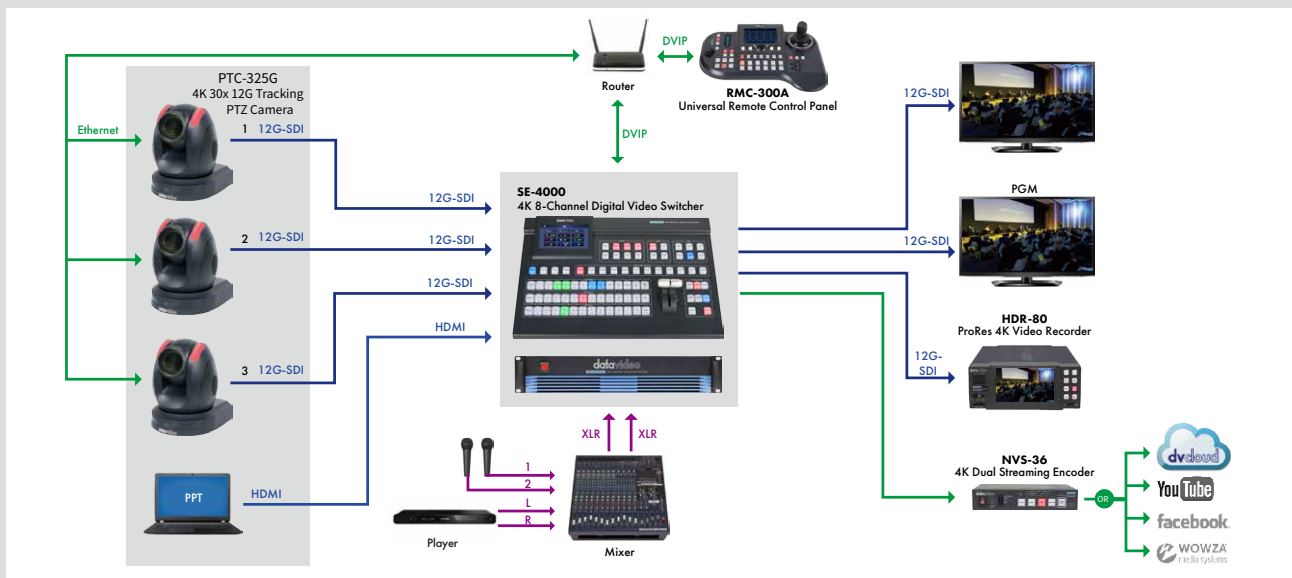
PTC-325



PTC-325T



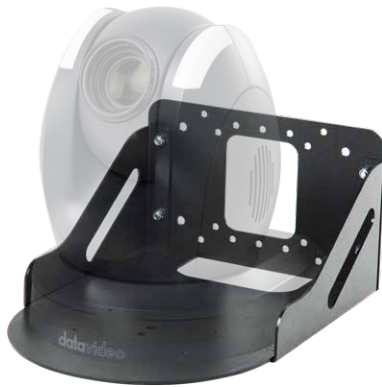
PTC-325G



Optional accessories



VP-929
HDMI 4K Repeater



WM-1
Wall Mount



WM-1W
Wall Mount (White)

The WM-1 can be positioned upside-down or rightside-up to suit various applications. The three-piece design is sturdy, and easy to install onto any wall.

What's in the box accessories



RMC-1AT
IR remote control



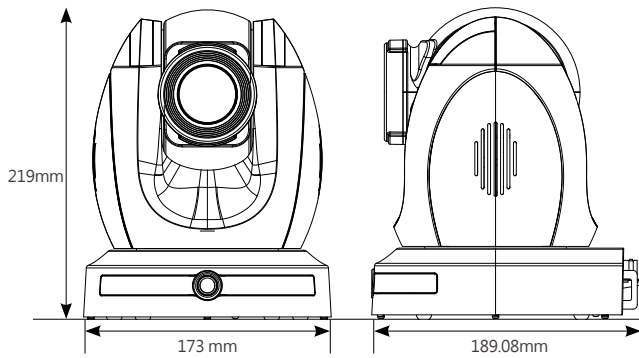
Ceiling mount bracket



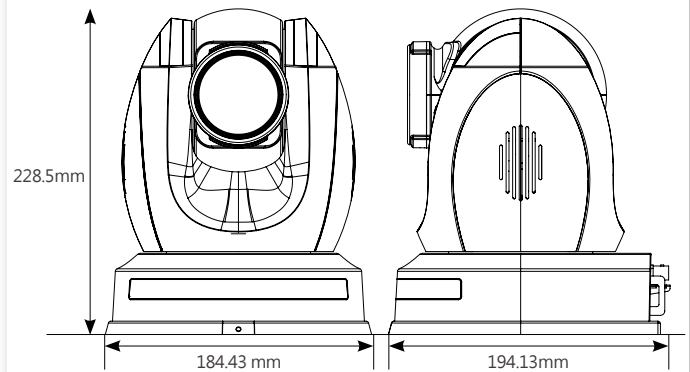
DC 12V Adaptor

Dimension

PTC-325 and PTC-325G



PTC-325T



Specification

NDI HX3

HDBaseT

12G

| | PTC-325 | PTC-325T | PTC-325G |
|------------------------------------|---|---|--|
| Product Name | 4K Tracking PTZ Camera | 4K HDBaseT Tracking Camera | 4K Tracking PTZ Camera |
| Video format/Resolution | HDMI: 2160p60/59.94/50/30/29.97/25 1080p60/59.94/50/30/29.97/25 1080i60/59.94/50 720p60/59.94/50 *2160p60/59.94/50 YUV 4:2:2 SDI: 1080p 60/59.94/50/30/29.97/25 1080i 60/59.94/50 720p 60/59.94/50 | HDMI/HDBaseT: 2160p60/59.94/50/30/29.97/25 1080p60/59.94/50/30/29.97/25 1080i60/59.94/50 720p60/59.94/50 *2160p60/59.94/50 YUV 4:2:2 SDI: 1080p 60/59.94/50/30/29.97/25 1080i 60/59.94/50 720p 60/59.94/50 | HDMI: 2160p60/59.94/50/30/29.97/25 1080p60/59.94/50/30/29.97/25 1080i60/59.94/50 720p60/59.94/50 *2160p60/59.94/50 YUV 4:2:2 SDI: 2160p 60/59.94/50/30/29.97/25 1080p 60/59.94/50/30/29.97/25 1080i 60/59.94/50 720p 60/59.94/50 |
| Image Sensor | 1/2.8" CMOS | 1/2.8" CMOS | 1/2.8" CMOS |
| Effective Pixels (approx.) | 8.46Mega Pixels | 8.46Mega Pixels | 8.46Mega Pixels |
| S/N Ratio | ≥55dB | ≥55dB | ≥55dB |
| Min. Illumination | 0.5 Lux @ (F1.8, AGC ON) | 0.5 Lux @ (F1.8, AGC ON) | 0.5 Lux @ (F1.8, AGC ON) |
| Electronic Shutter | 1/30s ~ 1/10000s | 1/30s ~ 1/10000s | 1/30s ~ 1/10000s |
| Zoom Ratio | 30x Optical, 16x Digital Zoom | 30x Optical, 16x Digital Zoom | 30x Optical, 16x Digital Zoom |
| Effective Zoom Ratio | 30x | 30x | 30x |
| Iris Control | Auto / Manual | Auto / Manual | Auto / Manual |
| Digital Noise Reductions | 3D | 3D | 3D |
| On-Screen Display (OSD) | English/Simplified Chinese/Traditional Chinese | English/Simplified Chinese/Traditional Chinese | English/Simplified Chinese/Traditional Chinese |
| White Balance | Auto, Indoor, Outdoor, OnePush, Manual, VAR | Auto, Indoor, Outdoor, OnePush, Manual, VAR | Auto, Indoor, Outdoor, OnePush, Manual, VAR |
| AGC / Gain Control | Yes | Yes | Yes |
| Mirror / Flip Image | Yes | Yes | Yes |
| Focus Mode | Auto/Manual | Auto/Manual | Auto/Manual |
| Panning / Tilting Range | Pan: 300°, Tilt: +130° to -15° | Pan: 300°, Tilt: +130° to -15° | Pan: 300°, Tilt: +130° to -15° |
| Panning / Tilting Speed | Pan: 0.876°/s~43°/s Tilt: 0.693°/s~21.32°/s | Pan: 0.876°/s~43°/s Tilt: 0.693°/s~21.32°/s | Pan: 0.876°/s~43°/s Tilt: 0.693°/s~21.32°/s |
| Preset | 255 Position | 255 Position | 255 Position |
| Focal Length | 30x, f = 4.5mm ~135mm, F1.8 ~ F4.7 | 30x, f = 4.5mm ~135mm, F1.8 ~ F4.7 | 30x, f = 4.5mm ~135mm, F1.8 ~ F4.7 |
| Field of View (Horizontal, Wide) | 62.3° | 62.3° | 62.3° |
| Image Compensation | Back light compensation | Back light compensation | Back light compensation |
| Video Output | HDMI 2.0 x1, 3G-SDI x1 10/100/1000M RJ45 (PoE) x1 | HDMI 2.0 x1, 3G-SDI x1 HDBaseT (PoE) x1 | HDMI 2.0 x1, 3G-SDI x1, 12G-SDI x1 10/100/1000M RJ45 (PoE) x1 |
| Audio Input | 3.5 mm x1 (mic in/line in) switch from Web UI | 3.5 mm x1 (mic in/line in) switch from Web UI | 3.5 mm x1 (mic in/line in) switch from Web UI |
| Tally LED | Yes | Yes | Yes |
| Control Protocol | Pelco-D, Pelco-P, VISCA, VISCA over IP, DVIP, ONVIF, NDI | Pelco-D, Pelco-P, VISCA, VISCA over IP, DVIP, ONVIF | Pelco-D, Pelco-P, VISCA, VISCA over IP, DVIP, ONVIF, NDI |
| Remote Control Interface | IR, Web GUI, RS-422/RS-232, DVIP, NDI | IR, Web GUI, RS-422/RS-232, DVIP, HDBaseT(RJ-45)/Serial control on Receiver Box: Transmit up to 100m | IR, Web GUI, RS-422/RS-232, DVIP, NDI |
| Video Compression Format | H.264/H.265/MJPEG | H.264/H.265/MJPEG | H.264/H.265/MJPEG |
| Audio Compression Format | AAC, G711 | AAC, G711 | AAC, G711 |
| Audio Bitrate | 96Kbps, 128Kbps, 256Kbps | 96Kbps, 128Kbps, 256Kbps | 96Kbps, 128Kbps, 256Kbps |
| Streaming Protocols | RTSP, RTMP(S), ONVIF, Multicast, SRT, NDI Hx3 (1080p) | RTSP, RTMP(S), ONVIF, Multicast, SRT | RTSP, RTMP(S), ONVIF, Multicast, SRT, NDI Hx3 (1080p) |
| First Stream Supported Resolution | 3840x2160, 1920x1080, 1280x720 1024x576, 960x540, 640x480, 640x360 | 3840x2160, 1920x1080, 1280x720 1024x576, 960x540, 640x480, 640x360 | 3840x2160, 1920x1080, 1280x720 1024x576, 960x540, 640x480, 640x360 |
| Second Stream Supported Resolution | 720x480, 640x360, 480x270, 320x240 | 720x480, 640x360, 480x270, 320x240 | 720x480, 640x360, 480x270, 320x240 |
| Video Bitrate | 32Kbps ~ 50Mbps (Single Stream) | 32Kbps ~ 50Mbps (Single Stream) | 32Kbps ~ 50Mbps (Single Stream) |
| Video Bitrate Mode | VBR, CBR | VBR, CBR | VBR, CBR |
| Encoding Frame rate | 50Hz: 1-50fps 60Hz: 1-60fps | 50Hz: 1-50fps 60Hz: 1-60fps | 50Hz: 1-50fps 60Hz: 1-60fps |
| POE | IEEE 802.3at | IEEE 802.3at | IEEE 802.3at |
| F/W Update | Via Web UI or USB 2.0 | Via Web UI or USB 2.0 | Via Web UI or USB 2.0 |
| IR Control | Yes | Yes | Yes |
| Camera Control Unit | RMC-2P RMC-180 series/ RMC-300 series/ PTZ View Assist APP | HS-1650T/HS-1600T Mark II/RMC-2P/RMC-180 series/RMC-300 series/PTZ View Assist APP | RMC-2P RMC-180 series/ RMC-300 series/ PTZ View Assist APP |
| Tripod Mount | 1/4-20 UNC | 1/4-20 UNC | 1/4-20 UNC |
| Optional Accessories | WM-1/ WM-10/ WM-11 | WM-1/ WM-10/ WM-11 | WM-1/ WM-10/ WM-11 |
| Color | Dark Blue/White | Dark Blue/White | Dark Blue/White |
| Dimension (LxWxH) | 173 (W) x 219 (H) x 189.08 (D) | 173 (W) x 219 (H) x 189.08 (D) | 173 (W) x 219 (H) x 189.08 (D) |
| Weight | 2.6 kg | 2.6 kg | 2.6 kg |



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