

A Guide to Robotic Cameras for Production & Presentation

Datavideo offers a wide range of PTZ cameras for various applications and venue size. There are many factors to consider when choosing a PTZ camera and this guide should help clarify which camera would be best for your application.



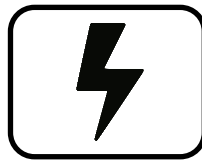
In this guide we will indicate which cameras are 4K models for your reference.

Choosing A PTZ Camera For Your Application

Here are four features to consider when selecting a PTZ Camera:



1. Auto Tracking



2. Power & Video Signal Transmission



3. Optical Zoom & Distances

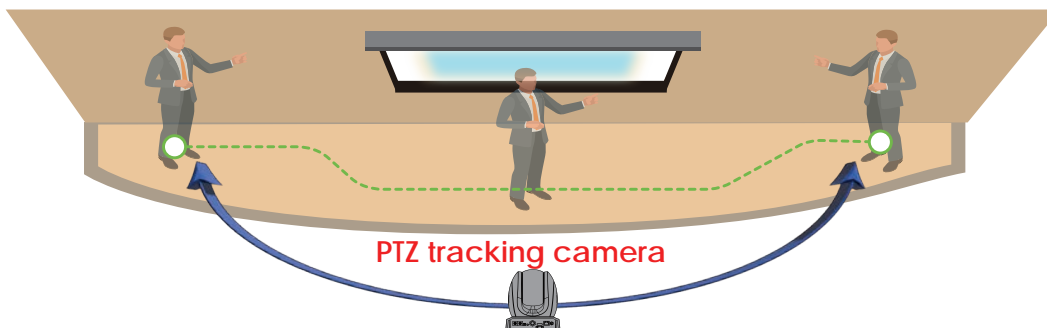


4. Camera Control

Auto Tracking

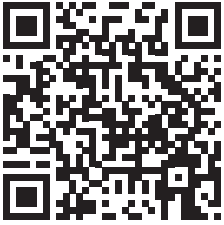


A Datavideo Auto Tracking camera uses AI technology built into the camera, so no software or external device is needed to use this function.



Once auto-tracking is turned off, the camera will still work as a regular PTZ camera. When there is no operator available for a live video event, the presenter has the ability to turn on/off the tracking feature. Auto-tracking cameras are popular solutions for lecture capture, corporate, conferencing, or even houses of worship venues where technical operators are not available.

Auto Tracking



SCAN QR CODE TO WATCH YOUTUBE COMPARISON VIDEO



HX3

PTC-145(W)

PTC-285(W)

PTC-305(W)

PTC-305NDI

Part #

Optical Zoom

Dual Streaming

Video Resolution

HDBaseT Compatible TX/RX

PoE

20x

12x

20x

20x

RTMP, SRT, HLS

RTMP, SRT, HLS

RTMP, SRT, HLS

RTMP, SRT, HLS

up to 4K60p

up to 4K60p

up to 4K60p

up to 4K60p

ALL

ALL

ALL

ALL

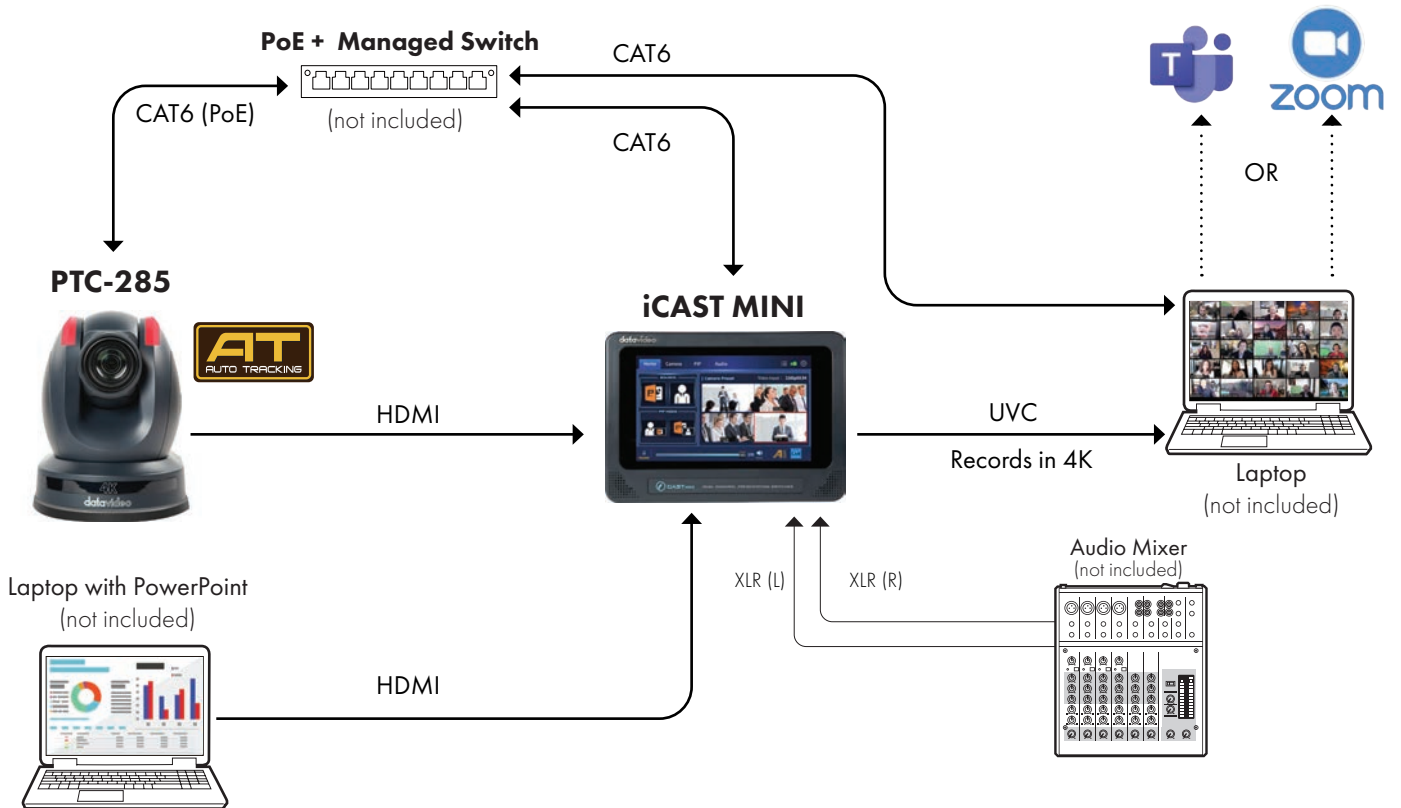
PoE+

PoE+

PoE+

PoE+

Auto Tracking PTZ Camera Example Workflow



NDI

SDI / HDMI



PTC-285NDI

PTC-280NDI(W)

PTC-140NDI(W)

PTC-280(W)

PTC-140(W)

PTC-150(W)

12x

12x

20x

12x

20x

30x

RTMP, SRT, HLS

RTMP, SRT, HLS

RTMP, SRT, HLS

RTMP, SRT, HLS

RTMP, SRT, HLS

N/A

up to 4K60p

up to 4K60p

up to 1080p60

up to 4K60p

up to 1080p

up to 1080p 59.94

ALL

ALL

ALL

ALL

ALL

ALL EXCEPT HBT-5 & HBT-6

PoE+

PoE+

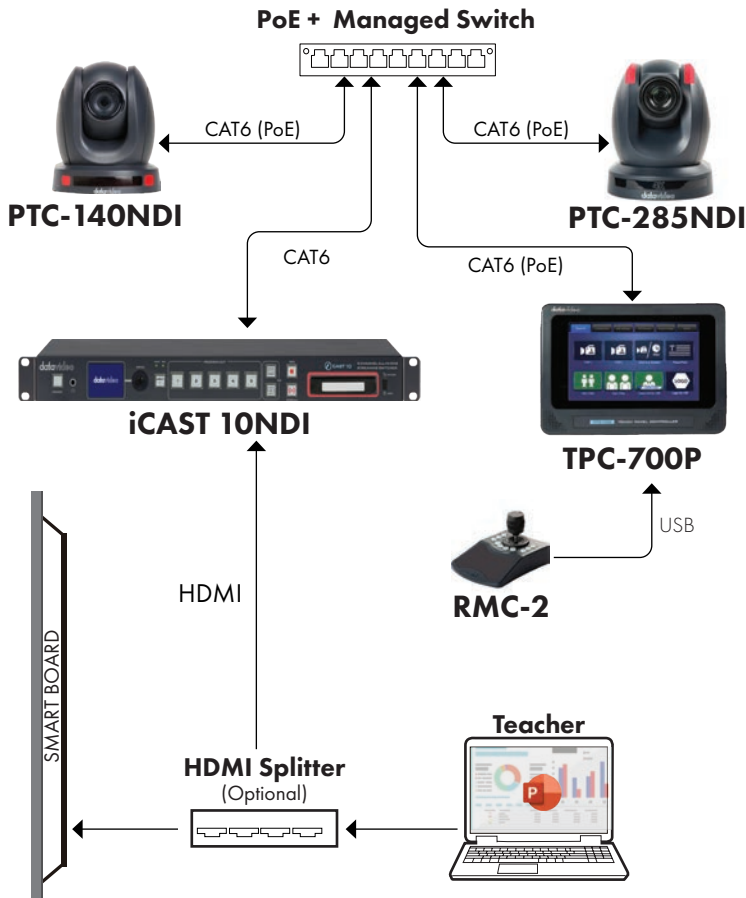
PoE+

PoE+

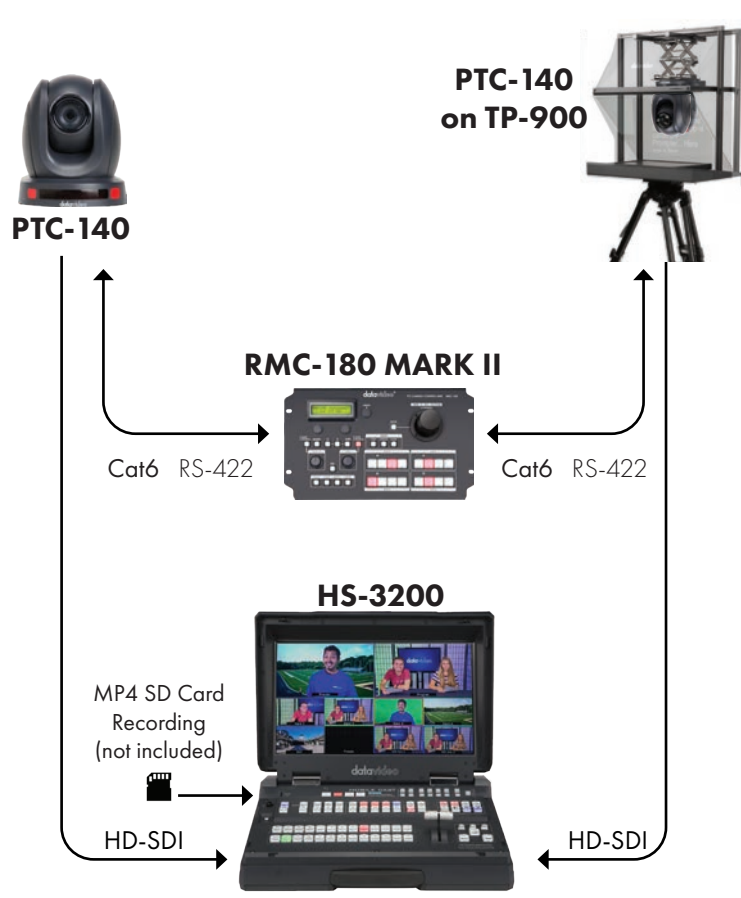
Requires AD-PoE-140

N/A

NDI Camera Example Workflow



SDI/HDMI Camera Example Workflow



HDBaseT



PTC-285T(W)

12x

RTMP, SRT, HLS

up to 4K60p

ALL

PoE+



PTC-140T(W)

20x

RTMP, SRT, HLS

up to 1080p60

ALL

PoE+



PTC-150TL(W)

30x

N/A

up to 1080p 59.94

ALL EXCEPT HBT-5 & HBT-6

PoE++



SCAN QR CODE TO WATCH YOUTUBE COMPARISON VIDEO

Part #

Optical Zoom

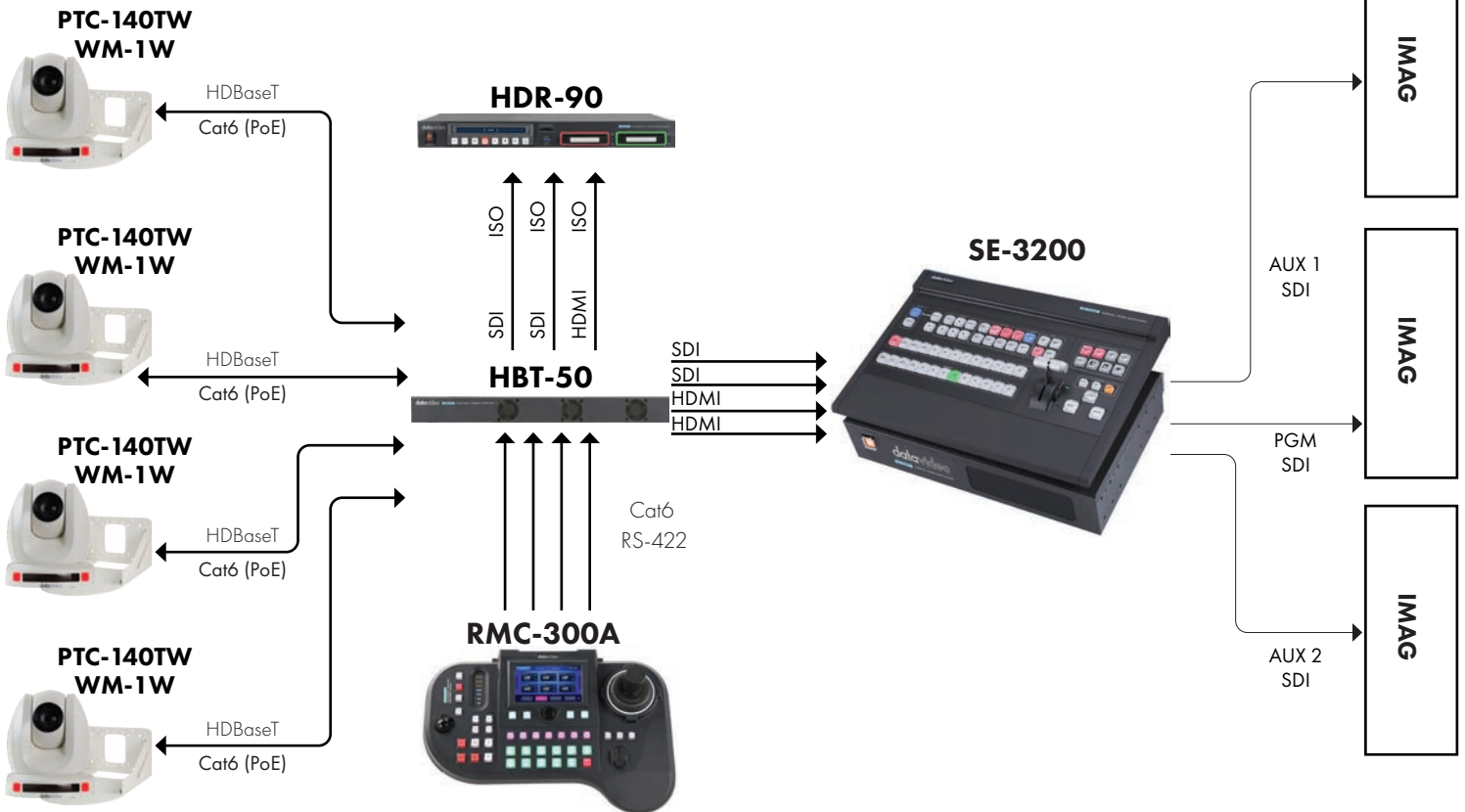
Dual Streaming

Video Resolution

HDBaseT Compatible TX/RX

PoE

HDBaseT Camera Example Workflow



Optical Zoom Distances



Most PTZ production cameras have three different optical zoom distances which include 12x, 20x and 30x. Optical zoom is preferred over digital because it uses the lens to magnify the subject you're shooting whereas, digital zoom crops the image instead of using a lens to magnify the subject. Here are the Datavideo cameras options:

12x



PTC-280

12x optical zoom
(30-40ft distance)



PTC-285

12x optical zoom
(30-40ft distance)

20x



PTC-140

20x optical zoom
(50-75ft distance)



PTC-305

20x optical zoom
(50-75ft distance)

30x



PTC-150

30x optical zoom
(75-120ft distance)

Control Protocols: IP or Serial

CONTROL

Serial



RMC-180 MARK II

- Controls up to 4 PTC cameras
- Up to 8 presets for 2 cameras

IP



PTZ View Assist

- Free app for Android or IO's
- Control up to 4 cameras

Serial or IP Control



RMC-300A

- Controls up to 24 cameras thru IP
- Controls up to 8 camera serial (RS-422)

IP Control



RMC-2

- Controls up to 3 cameras
- Works with TPC-700 via USB

IR



RMC-1AT

- Controls Auto Tracking PTZ Cameras

IP Control



TPC-700 & ZR-1

- Touch Panel Controller with PTZ Auto Tracking

Datavideo HDBaseT Transmitters



| Model | HBT-5 | HBT-15 | PTC-150TL | PTC-140T | PTC-285T | PTC-305T | PTR-10T |
|--------------------------------|------------------|--------------------------|------------------|----------------|---|---|------------------|
| Max Resolution | 4K30p | 4K60p | 1080p59.94 | 1080p60 | 4K60p60 | 4K60p60 | 4K30p |
| Transmission Distance | 60m | 100m | 100m | 100m | 100m | 100m | 100m |
| Volts | 48v | 56v | 48v | 48v | 48v | 48v | 56v |
| Compatible Datavideo Receivers | HBT-6 | HBT-16 | ALL EXCEPT HBT-6 | ALL | HBT-6 HBT-11 HBT-12 HBT-30 HS-1600T MK II | HBT-6 HBT-11 HBT-12 HBT-30 HS-1600T MK II | HBT-11 HBT-12 |
| Control | RS-422 RS-232 | DVIP RS-422 RS-232 | DVIP RS-422 | DVIP RS-232 | DVIP RS-232 | DVIP RS-232 | DVIP RS-422 |
| MSRP | \$259 | \$649 | \$1,899 | \$1,299 | \$2,849 | \$3,199 | \$2,699 |

Datavideo HDBaseT Receivers



| Model | HBT-6 | HBT-11 | HBT-12 | HBT-16 | HBT-30 | HBT-50 | HS-1600T MARK II |
|-----------------------------------|-------------------------|------------------------------|---|--------------------------|--------------------------|--|---|
| Max Resolution | 4K30p | 4K30p | 4K30p | 4K60p | 4K60p | 4K30p HDMI 1080p60 HD-SDI | 1080p60 |
| Volts | 48v | 48v | 56v | 56v | 56v | 100~240 VAC | 56v |
| Transmission Distance | 1080p 60m 4K30p 35m | 1080p 100m | 4K 100m | 4K 100m | 4K 100m | 1080p 100m | 1080p 100m |
| Compatible Datavideo Transmitters | HBT-5, PTC-140T | all except HBT-5, PTR-10T | HBT-5, PTC-140T, PTR-10T MKII, PTC-285T, PTC-305T | HBT-15 | HBT-15 | HBT-15, HBT-11, HBT-5, PTC-140T, PTC-150TL | PTC-140T, PTC-150TL HBT-5, HBT-15, PTR-10T |
| Channels | 1 | 1 | 1 | 1 | 3 | 4 | 3 |
| SDI & HDMI Output Simultaneously | NO | NO | NO | NO | NO | YES | NO |
| Datavideo Camera Controllers | ALL EXCEPT PTC-150TL | ALL | ALL | ALL | ALL | ALL | BUILT IN CONTROLLER |
| Control | RS-422 RS-232 | DVIP RS-422 RS-232 | DVIP RS-422 RS-232 | DVIP RS-422 RS-232 | DVIP RS-422 RS-232 | DVIP RS-422 RS-232 | RS-422 |
| MSRP | \$319 | \$449 | \$549 | \$699 | \$2,199 | \$2,749 | \$5,599 |

Disclaimers of Product and Services: This sheet is intended as a guide only. We reserve the right to change specifications, prices, and availability without prior notice. MSRP listed in USD. While we strive for complete accuracy, be aware that it may contain errors and omissions. Prior to purchase, please check with your local Datavideo office or authorized distributor.

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