datavideo

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.



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 Al 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.

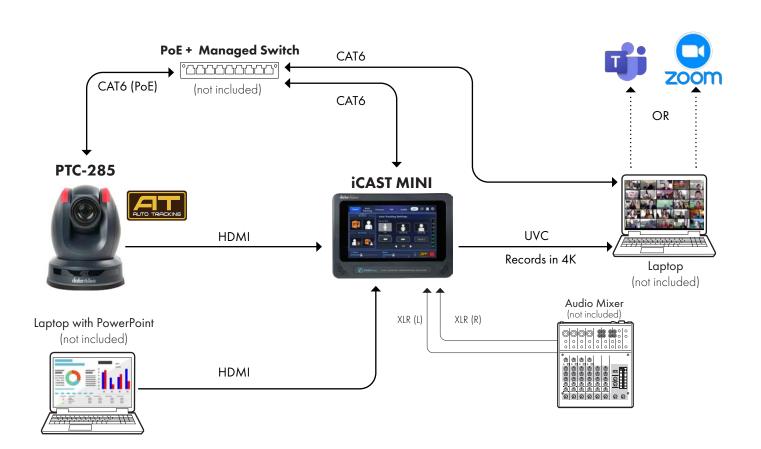


Auto Tracking





Auto Tracking PTZ Camera Example Workflow













PTC-280NDI(W)

PTC-140NDI(W)
20x

PTC-280(W) PTC-

PTC-140(W) PTC-150(W)

RTMP,	SRT,	HLS
,	- ,	

12x

PTC-285NDI

RTMP, SRT, HLS

12x

RTMP, SRT, HLS

RTMP, SRT, HLS RTMP, SRT, HLS

30x N/A

un to 4K60n

up to 4K60p

up to 1080p60

up to 4K60p

12x

up to 1080p

20x

ALL

ALL

ALL

AH

AH

ALL EXCEPT HBT-5 &

HBT-6

PoE+

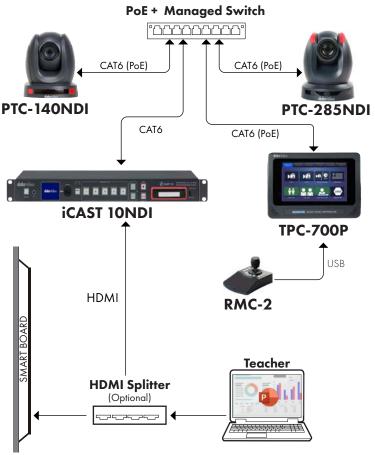
PoE+

PoE+

PoE+

Requires AD-PoE-140

NDI Camera Example Workflow

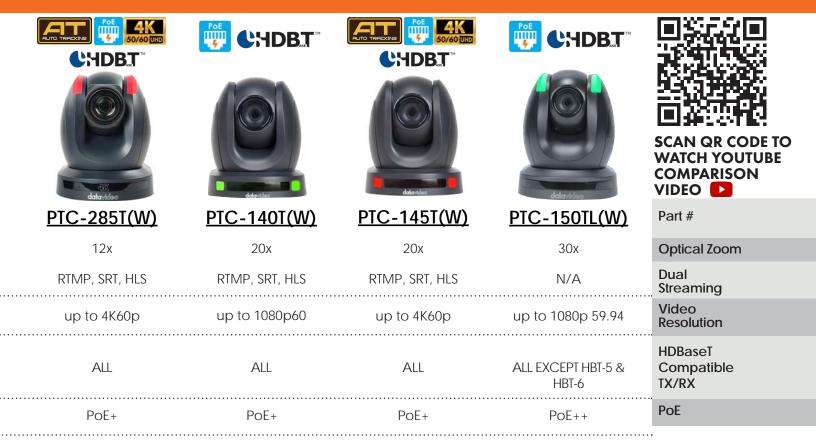


SDI/HDMI Camera Example Workflow

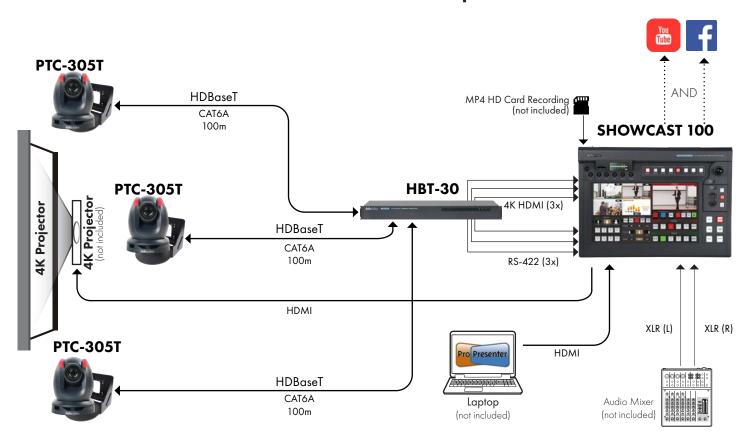


HDBaseT





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

12x optical zoom (30-40ft distance)



PTC-280



PTC-285

20x

20x optical zoom (50-75ft distance)



PTC-140



PTC-145



PTC-305

30x

30x optical zoom (75-120ft distance)



PTC-150

Control Protocols: IP or Serial

CONTROL

Serial



RMC-180 MARK II

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



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-145T	PTC-285T	PTC-305T	PTR-10T
Max Resolution	4K30p	4K60p	1080p59.94	1080p60	4K60p60	4K60p60	4K60p60	4K30p
Transmission Distance	60m	100m	100m	100m	100m	100m	100m	100m
Volts	48v	56v	48v	48v	48v	48v	48v	56v
Compatible Datavideo Receivers	НВТ-6	HBT-16	ALL EXCEPT HBT-6	ALL			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-232	DVIP RS-422

Datavideo HDBaseT Receivers



RS-422

RS-232

Control









RS-422



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.

RS-422

RS-232

RS-422

RS-232

RS-422

RS-232

RS-422

RS-232

RS-422

RS-232