

# 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.



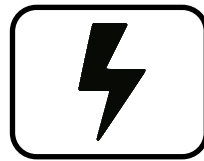
In this guide we will indicate which cameras are 4K models for your reference.

## 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

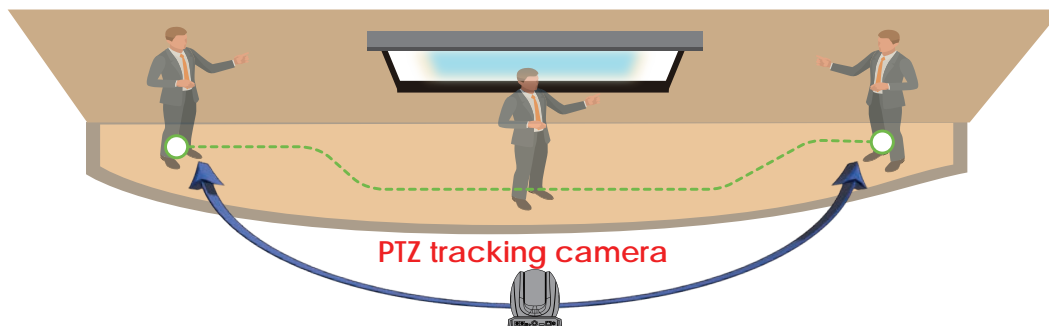


4. Camera Control

## 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



**PTC-145(W)**



**PTC-285(W)**



**PTC-305(W)**

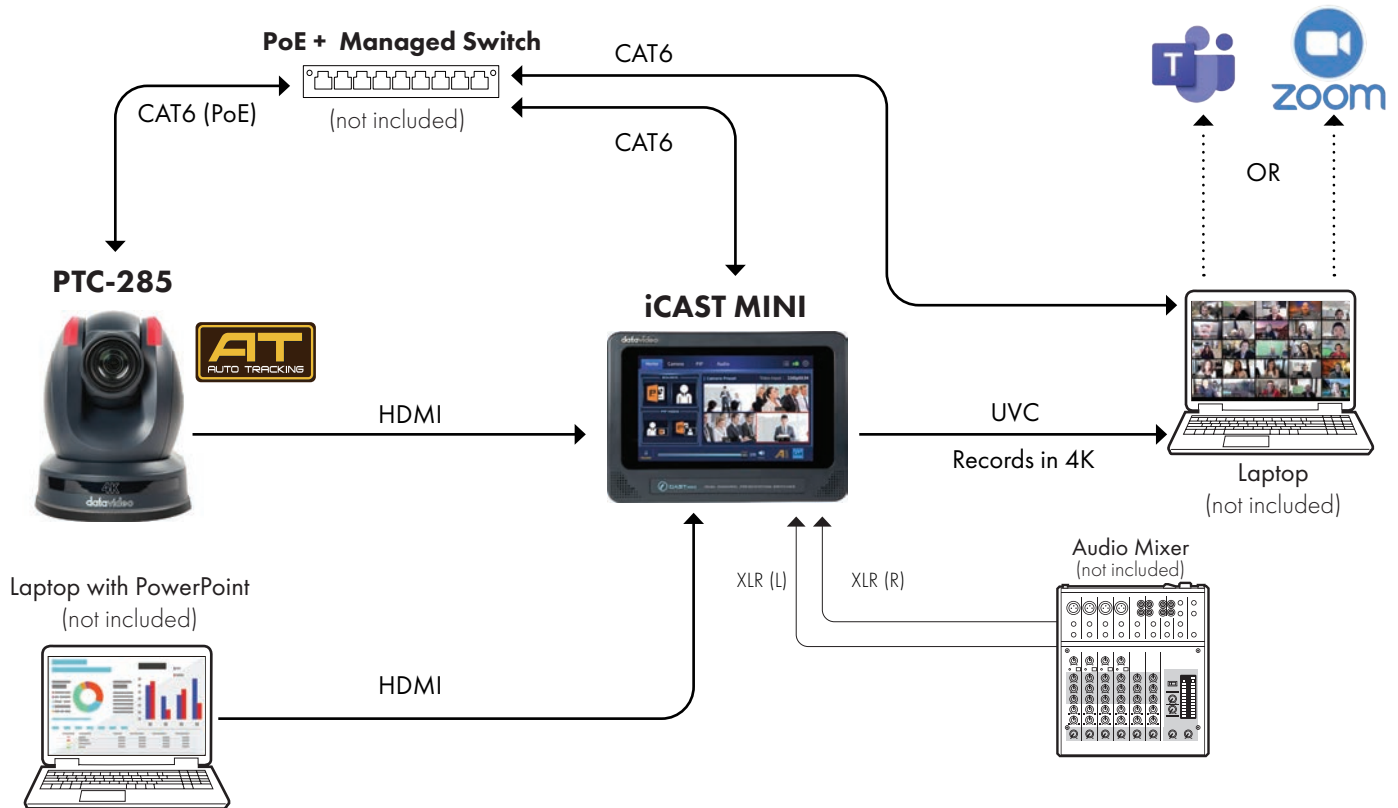


**PTC-305NDI**

HX3

Part #	PTC-145(W)	PTC-285(W)	PTC-305(W)	PTC-305NDI
Optical Zoom	20x	12x	20x	20x
Dual Streaming	RTMP, SRT, HLS	RTMP, SRT, HLS	RTMP, SRT, HLS	RTMP, SRT, HLS
Video Resolution	up to 4K60p	up to 4K60p	up to 4K60p	up to 4K60p
HDBaseT Compatible TX/RX	ALL	ALL	ALL	ALL
PoE	PoE+	PoE+	PoE+	PoE+

## Auto Tracking PTZ Camera Example Workflow

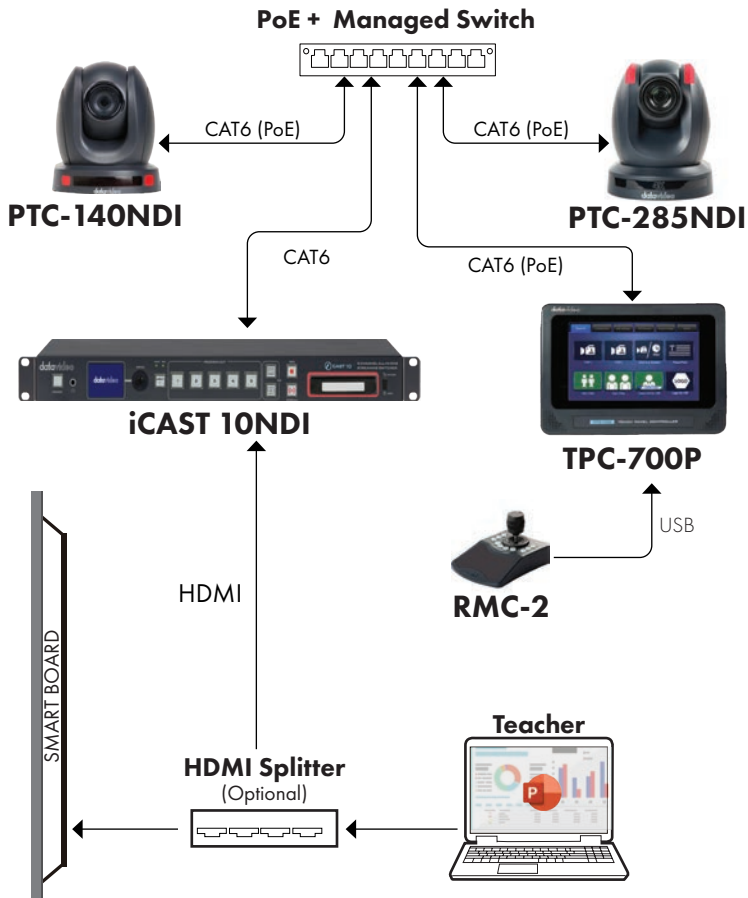


# NDI

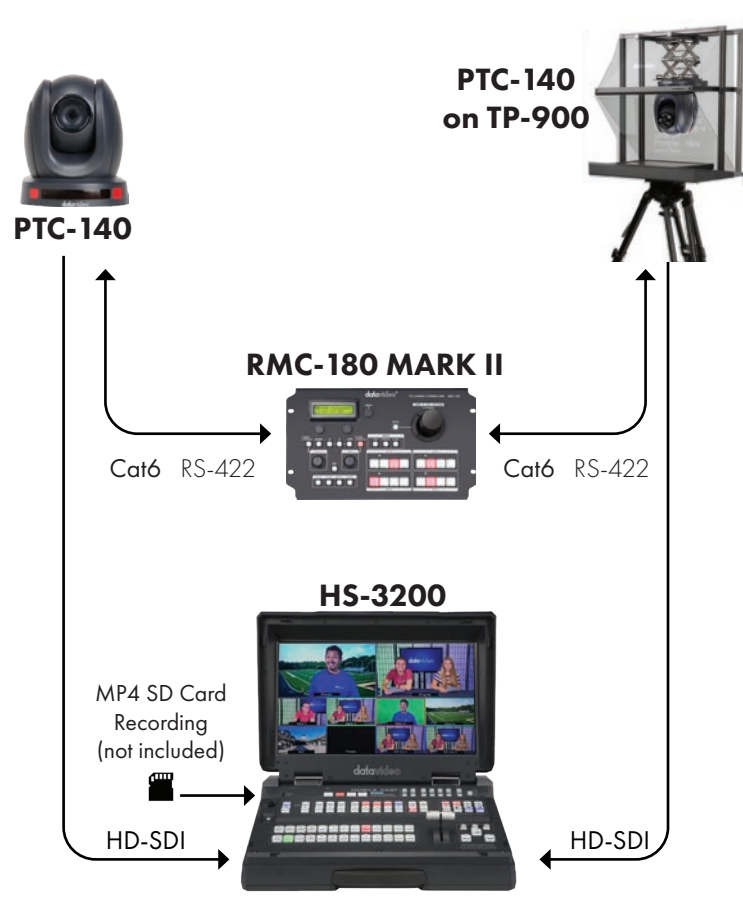
# SDI / HDMI

  	 		 		
 <b>PTC-285NDI</b>	 <b>PTC-280NDI(W)</b>	 <b>PTC-140NDI(W)</b>	 <b>PTC-280(W)</b>	 <b>PTC-140(W)</b>	 <b>PTC-150(W)</b>
HX	HX	HX			
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++



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Part #

Optical Zoom

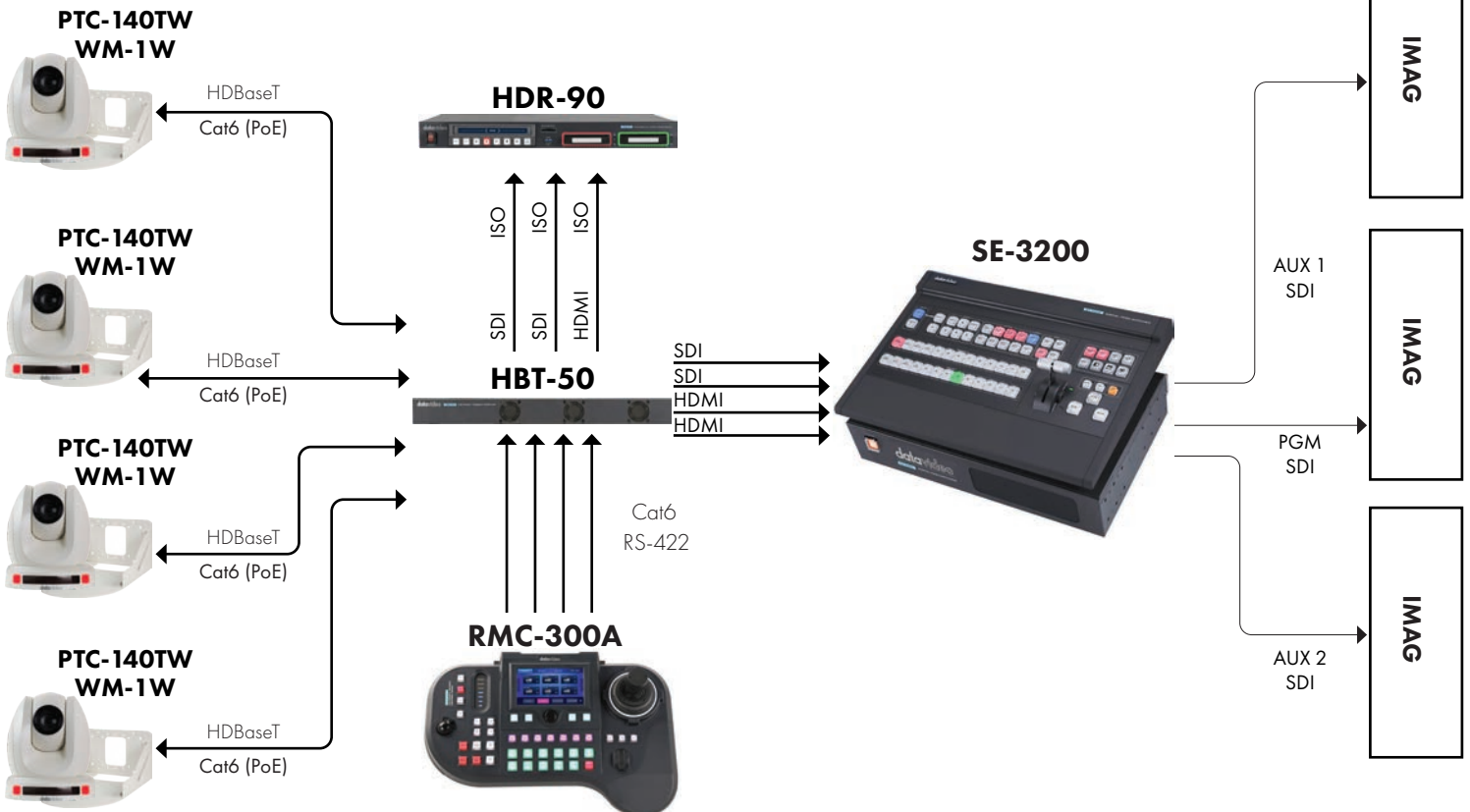
Dual Streaming

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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