![datavideo]

# PTZ Camera Series
## PTC-140/ PTC-140NDI/ PTC-140T

PTZ Camera
PTC-140 series

The PTC-140 series is a cost-effective SDI/HDMI PTZ camera, which features 1/2.8 inch CMOS sensor, 1920x1080px Full HD resolution 20x optical zoom, 10x digital zoom gives you sharp images no matter where you mount the camera.

The PTC-140's onboard streaming encoder can encode up to 2 simultaneous streams to any cloud service, including Datavideo's dvCloud. It supports H.264 /H.265 video compression and dual stream output. Advanced 2D/3D noise reduction allows you to create high quality images even in low light conditions.

The PTC-140 series comes in various models for different settings.  PTC-140 NDI features NDI® | HX, which is the first NDI camera launched by Datavideo, and supports simultaneous NDI® | HX, 3G-SDI, HDMI up to 1080P60 hardware output. PTC-140 works with HDBaseT Technology, which allows you to shoot 1080p video, tally, power, and remote by using only one ethernet cable without a need for IP connection.

# PTZ Camera
## PTC-140 SERIES

PTC-140
PTC-140NDI
PTC-140T

# PTC-140 series feature

**Broadcast quality 1/2.8-inch CMOS sensor**
Resolution is up to 1920x1080 with a frame rate up to 60fps.



**Low Noise CMOS effectively ensures high SNR of camera video**
Advanced 2D/3D noise reduction technology is used to further reduce the noise, while ensuring image sharpness.



**Multiple Network Protocol**
Support RTSP, RTMPS protocols, easy to stream directly to your desired CDN streaming platform.



**Control thru many ways**
Control real-time pan, tilt, and zoom camera movements with Datavideo RMC-300A, 300C, and 180.



Control

| DVIP | DVIP & RS-422 |
| IR | RS-422 |

### Dark blue and white color models
PTC-140 is available in two colors, dark blue and white. Suitable for broadcast, worship, video conferencing and etc.



### Tally Light
Tally lights show the preview and program status.



### Supports H.264/H.265 video compression
Support compression of resolution up to 1920x1080 with frame up to 60fps and 2 channel 1920x1080p with 30fps compression. AAC, MP3 and PCM audio compression also supported.



### RS-232/RS-422/RS-485 Camera Control
RS-232, RS-422 and RS-485 ports to use DVIP and VISCA commands to integrate with larger control systems.

# PTC-140NDI feature

## 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.



NDI®|HX

Video   Audio   Power   Tally   Control

## Control thru many ways

Control real-time pan, tilt, and zoom camera movements with Datavideo RMC-300A, 300C, and 180, as well as, the NDI controller, which supports configurable preset positions.
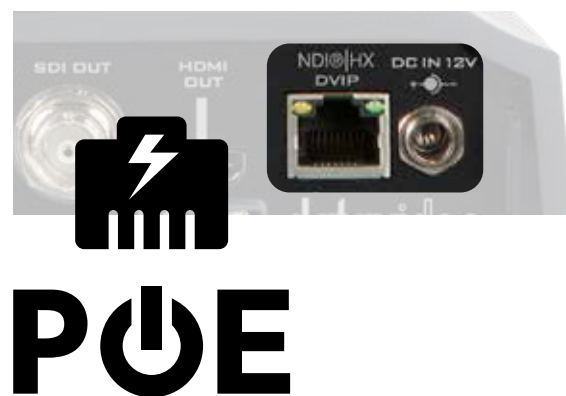


3G-SDI     NDI®|HX

HDMI

## NDI® Virtual Input

Present PTC-140NDI as the video input source to video streaming applications Skype, GoToMeeting, WebEx, Zoom, and more.



## Power over Ethernet

Power Over Ethernet (PoE) functionality allows you transmit all the information and power over only one cable.



POE

# PTC-140T feature

## Made with HDBaseT Technology

Instead of using separate cables for video, power and camera control, you can transmit all the information over an Ethernet cable.

Uncompressed video
Tally light signal
PoE to camera
Camera control
DVIP/VISCA protocol

**HDBT**



over a single Cat-6 cable up to 100m

## Control thru many ways

Control real-time pan, tilt, and zoom camera movements with Datavideo HS-1600T MobileCast switcher , RMC-300A, 300C, and 180.
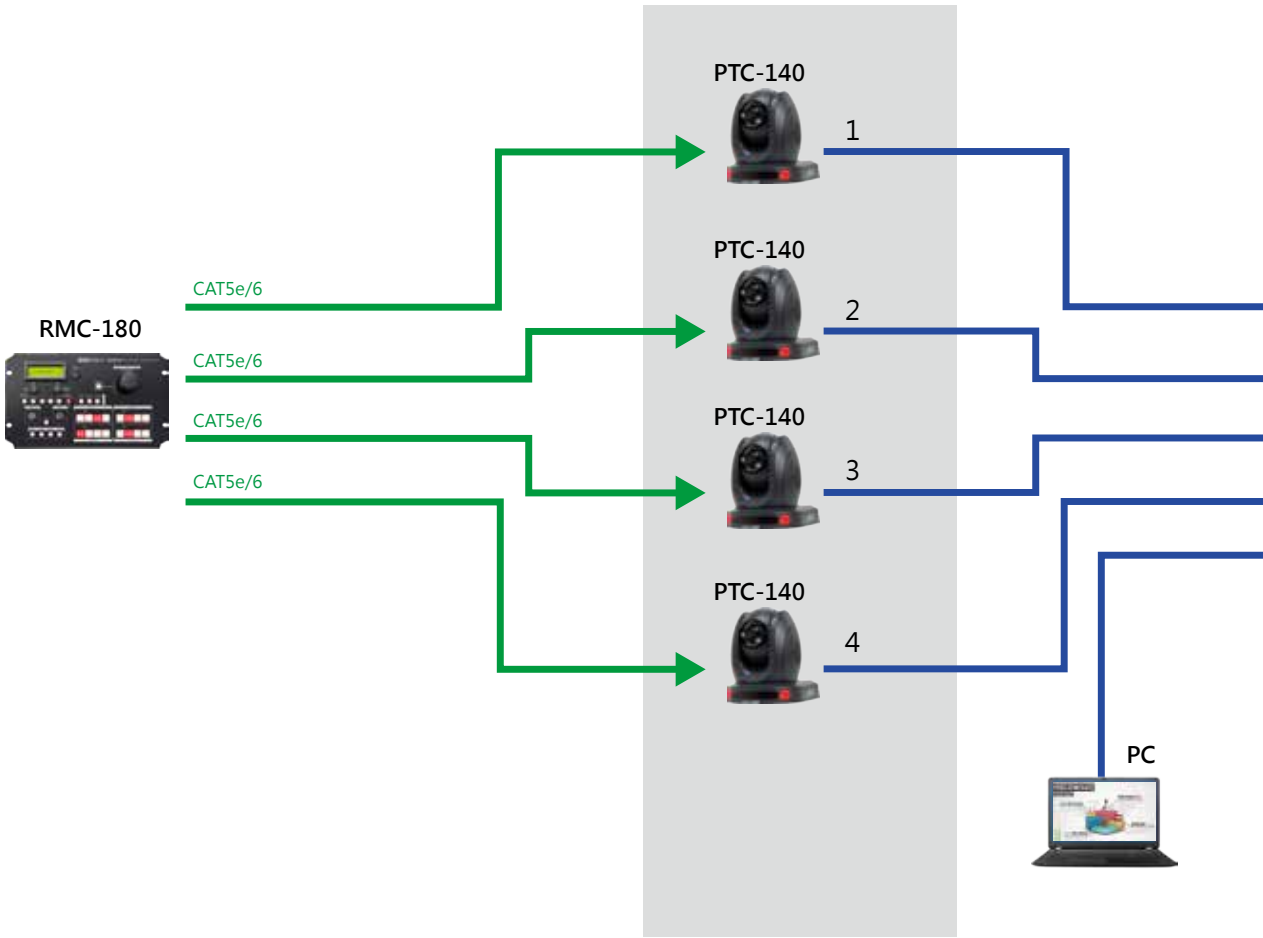


## One Ethernet cable with HDBaseT  technology

You can mount the camera in various locations without the need for a power outlet. This helps you reduce to the setup time and be more flexible in term of choosing a location for the camera.
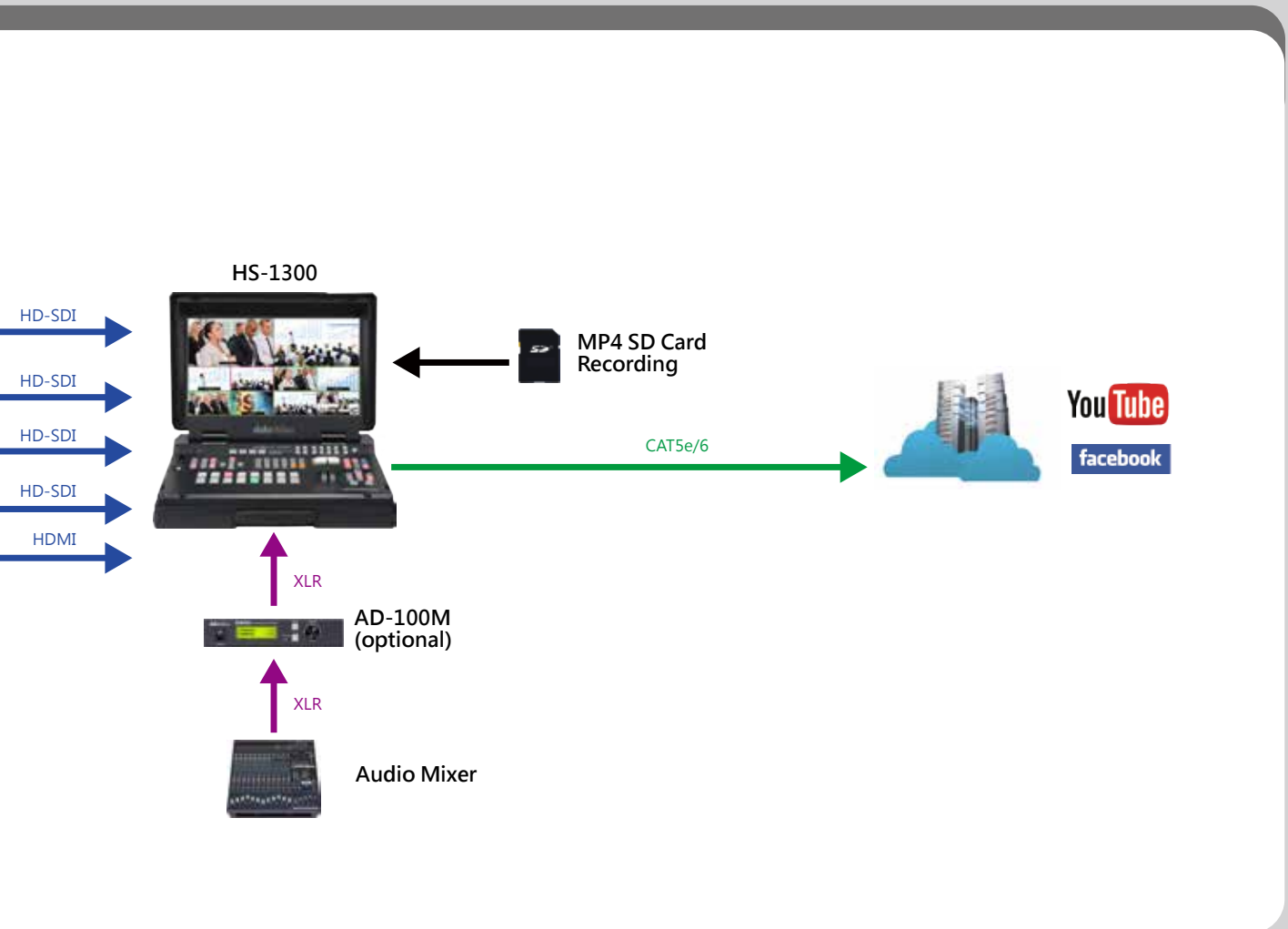
PTZ Camera
PTC-140

## PTC-140 System Diagram

PTC-140

1

PTC-140

CAT5e/6

RMC-180

2

CAT5e/6

CAT5e/6

PTC-140

CAT5e/6

3

PTC-140

4

PC

RS-232  RS-422/RS-485  AUDIO IN  SDI OUT  HDMI OUT  LAN  DC IN 12V

PTC-140  PTZ IP STREAMING CAMERA

datavideo

HS-1300

HD-SDI

HD-SDI

HD-SDI

HD-SDI

HDMI

MP4 SD Card Recording

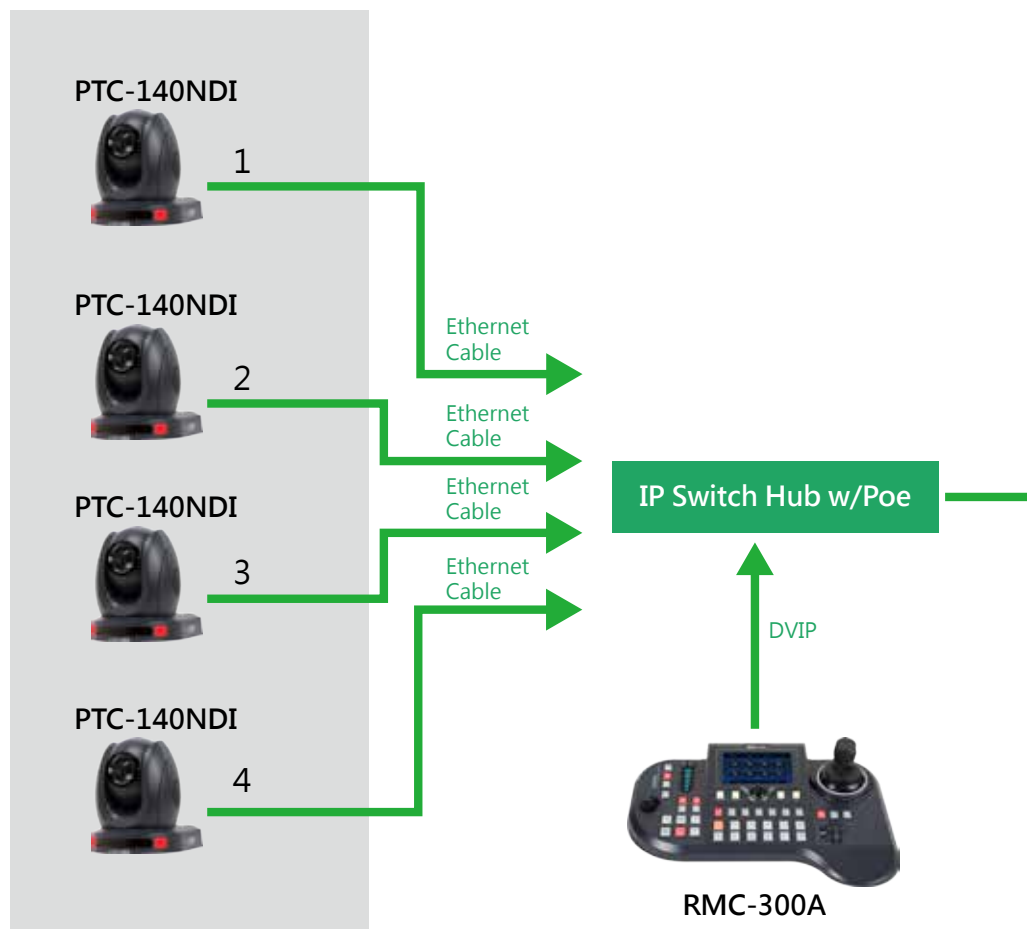CAT5e/6

You Tube

facebook

XLR

AD-100M (optional)

XLR

Audio Mixer

NDI PTZ Camera
**PTC-140NDI**

## PTC-140NDI System Diagram

**PTC-140NDI**

1

**PTC-140NDI**

2

Ethernet
Cable

Ethernet
Cable

**PTC-140NDI**

Ethernet
Cable

IP Switch Hub w/Poe

3

Ethernet
Cable

DVIP

**PTC-140NDI**

4

RMC-300A

RS-232 · RS-422/RS-485 · AUDIO IN · SDI OUT · HDMI OUT · NDI®|HX DVIP · DC IN 12V

PTC-140 NDI    NDI PTZ CAMERA    datavideo

NDI Switcher

HDMI → Multiview

HDMI → Program

HDMI → HDR-1

CAT5e/6 → You Tube  facebook

HDbaseT PTZ Camera
PTC-140T

## PTC-140T System Diagram

PTC-140T

1

PTC-140T

2

PTC-140T

3

PPT

4

PPT

HDMI

HS-1600T

HDBaseT

HDBaseT

HDBaseT

HDMI

X

X

RS-232 · AUDIO IN · HDBaseT · LAN · DC IN 12V

datavideo PTC-140T HDBaseT PTZ CAMERA

Program

HDMI

Mark II

HDR-80

HDMI

PGM

MP4 SD Card
Recording

HD BaseT
Projector

HDBaseT
Maximum 60m

LR

AD-100M
(optional)

LR

Router

Audio Mixer

CAT5e/6

CAT5e/6

You Tube

facebook
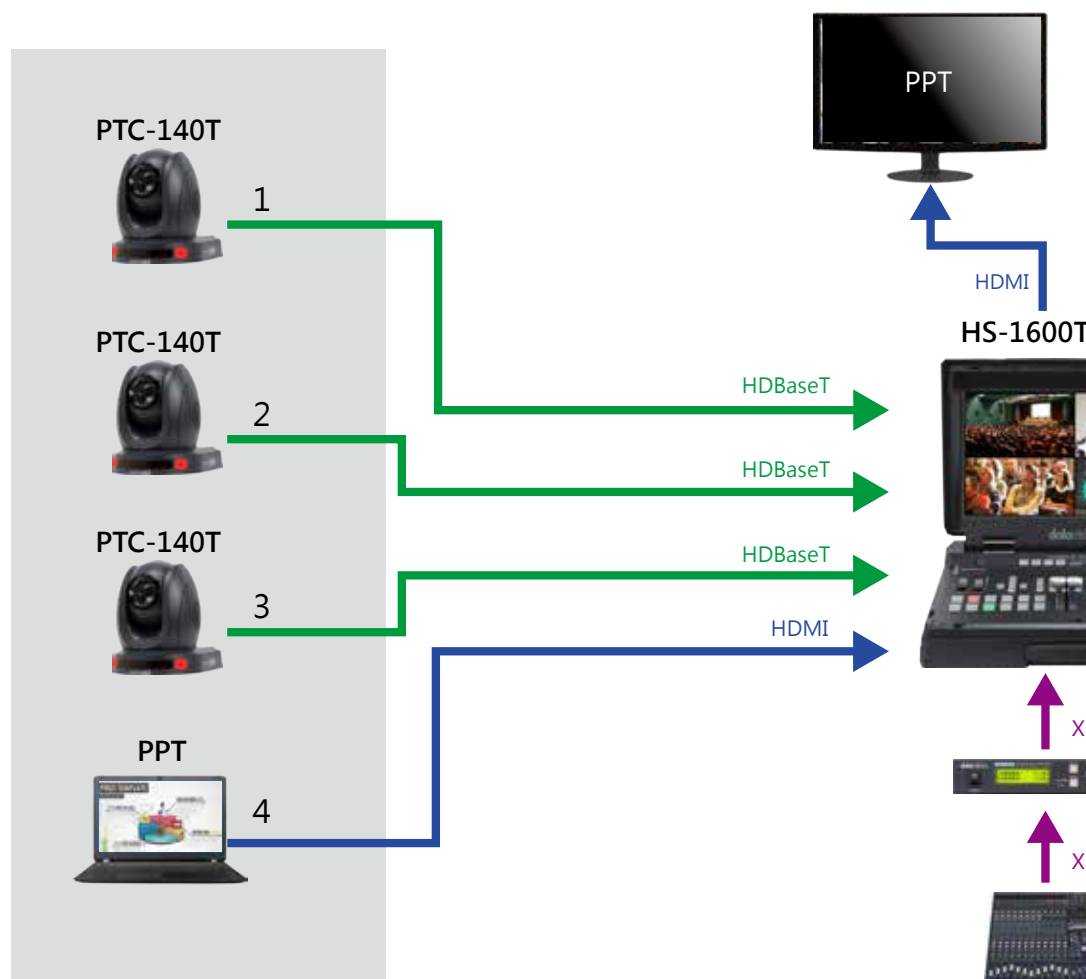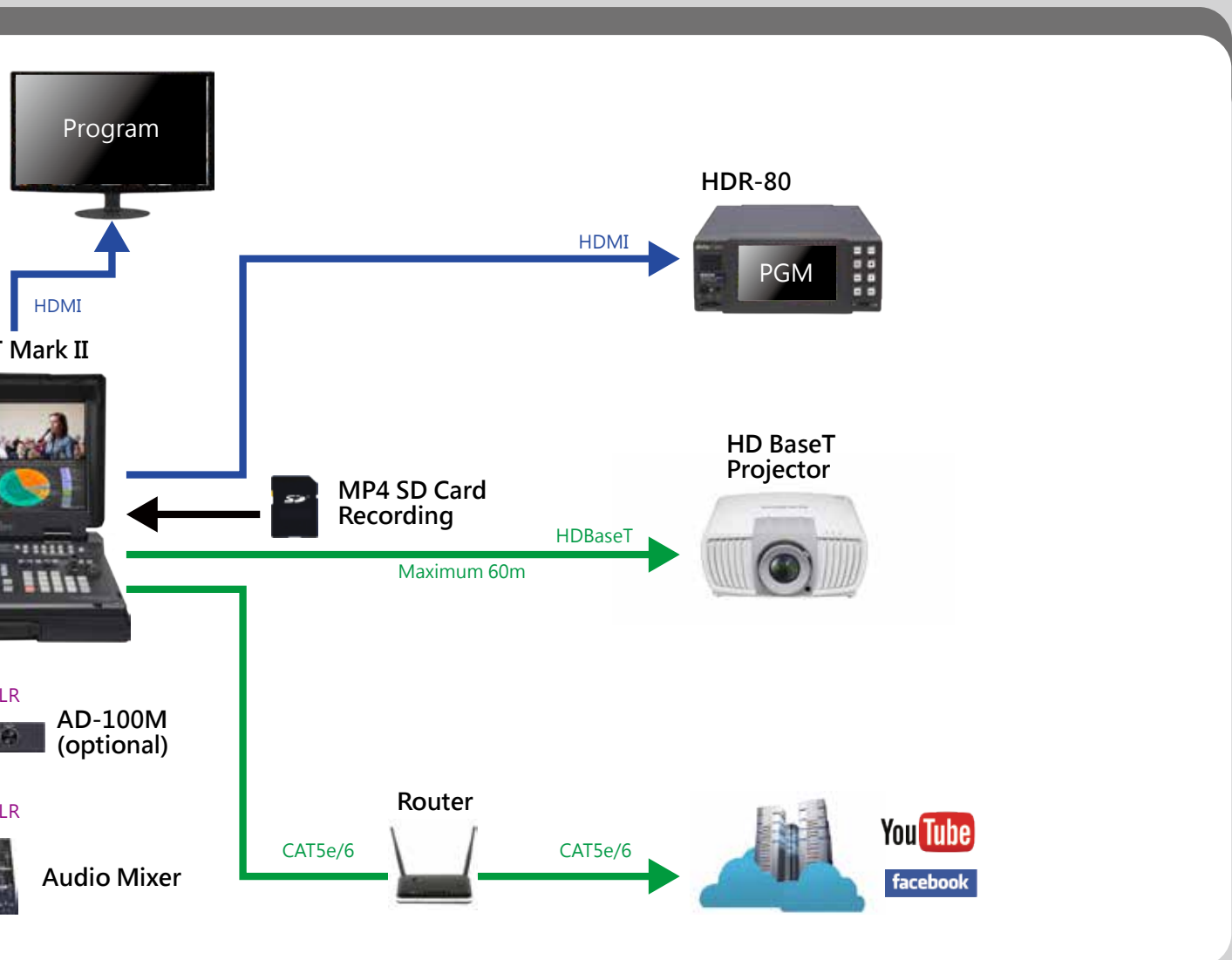
| Model Name | PTC-140 | PTC-140NDI | PTC-140T |
|---|---|---|---|
| Product Name | HD PTZ Camera | NDI PTZ Camera | HDBaseT PTZ Camera |
| Video format | 1080p 60/59.94/50/30/29.97/25<br>1080i 60/59.94/50<br>720p 60/59.94/50 | 1080p 60/59.94/50/30/29.97/25<br>1080i 60/59.94/50<br>720p 60/59.94/50 | 1080p 60/59.94/50/30/29.97/25<br>1080i 60/59.94/50<br>720p 60/59.94/50 |
| Image Sensor | 1/2.8 inch high quality HD CMOS sensor | 1/2.8 inch high quality HD CMOS sensor | 1/2.8 inch high quality HD CMOS sensor |
| Effective Pixels (approx.) | 2.07 Mega pixels | 2.07 Mega pixels | 2.07 Mega pixels |
| S/N Ratio | >55dB | >55dB | >55dB |
| Min. Illumination | 0.5Lux (F1.8, AGC ON) | 0.5Lux (F1.8, AGC ON) | 0.5Lux (F1.8, AGC ON) |
| Electronic Shutter | Auto / Manual | Auto / Manual | Auto / Manual |
| Zoom Ratio | 20x Optical Zoom, 10x Digital Zoom | 20x Optical Zoom, 10x Digital Zoom | 20x Optical Zoom, 10x Digital Zoom |
| Gamma Control | Off / Normal | Off / Normal | Off / Normal |
| Iris Control | Auto / Manual | Auto / Manual | Auto / Manual |
| Digital Noise Reductions | Yes | Yes | Yes |
| On-Screen Display (OSD) | English, Simplified Chinese | English, Simplified Chinese | English, Simplified Chinese |
| White Balance | Auto, Manual, One Push, 3000K, 4000K, 5000K, 6500K | Auto, Manual, One Push, 3000K, 4000K, 5000K, 6500K | Auto, Manual, One Push, 3000K, 4000K, 5000K, 6500K |
| AGC / Gain Control | Auto / Manual | Auto / Manual | Auto / Manual |
| Mirror / Flip Image | Yes | Yes | Yes |
| Focus Mode | Auto / Manual | Auto / Manual | Auto / Manual |
| Panning / Tilting Range | Pan: 340° , Tilt: +90° to -30° | Pan: 340° , Tilt: +90° to -30° | Pan: 340° , Tilt: +90° to -30° |
| Panning / Tilting Speed | Pan: 0.1~60°/sec<br>Tilt: 0.1~30°/sec | Pan: 0.1~60°/sec<br>Tilt: 0.1~30°/sec | Pan: 0.1~60°/sec<br>Tilt: 0.1~30°/sec |
| Preset | 255 Position | 255 Position | 255 Position |
| Focal Length | f=5.2 (wide) to 98 (tele) mm<br>F1.6 to F3.5 | f=5.2 (wide) to 98 (tele) mm<br>F1.6 to F3.5 | f=5.2 (wide) to 98 (tele) mm<br>F1.6 to F3.5 |
| Field of View (Horizontal, Wide) | Approx. 54.7° (WIDE END) / 3.3° (TELE END) | Approx. 54.7° (WIDE END) / 3.3° (TELE END) | Approx. 54.7° (WIDE END) / 3.3° (TELE END) |
| Image Compensation | Backlight Compensation | Backlight Compensation | Backlight Compensation |
| Video Output | HDMI x 1<br>SDI x 1 | HDMI x 1<br>SDI x 1 | HDBaseT (PoE) x1<br>RJ-45 x1 |
| Audio Input | 3.5mm Line in | 3.5mm Line in | 3.5mm Line in |
| Tally LED | Dual color (Red, Green) | Dual color (Red, Green) | Dual color (Red, Green) |
| Lens Filter | M52.0 x 0.75 Thread with UV Protection | M52.0 x 0.75 Thread with UV Protection | M52.0 x 0.75 Thread with UV Protection |
| Control Protocol | VISCA, Pelco-D, Pelco-P, DVIP | VISCA/Pelco-D/Pelco-P; Baud Rate:115 200/38400/9600/4800/2400bps<br>DVIP, NDI | VISCA, Pelco-D, Pelco-P, DVIP |
| Remote Control Interface and Transmit Distance | RJ-45: for IP control (DVIP)<br>RS-232: Mini DIN 8-pin (IN / OUT)<br>RS-485 | LAN: for IP control (DVIP / NDI)<br>RS-232, RS-422, RS-485 | RS-232<br>Lan (RJ-45)<br>HDBaseT(RJ-45)/Serial control on Receiver Box: Transmit up to 100m |
| Video Compression Format | H.264, H.265, Dual stream output | H.264, H.265, Dual stream output | H.264, H.265, Dual stream output |
| Audio Compression Format | AAC/MP3/PCM Audio compression | AAC/MP3/PCM Audio compression | AAC/MP3/PCM Audio compression |
| HD IP Interface | 100M IP port(100BASE-TX);<br>Support DVIP | 100M IP port(100BASE-TX); Support DVIP and NDI | 100M IP port(100BASE-TX);<br>Support DVIP |
| Network Protocol | TCP/IP, HTTP, RTSP, RTMP(S), DHCP, Multicast, etc | TCP/IP, HTTP, RTSP, RTMP(S), DHCP, Multicast, NDI etc | TCP/IP, HTTP, RTSP, RTMP(S), DHCP, Multicast, etc |
| POE | -- | IEEE802.3af | -- |
| F/W Update | Ethernet | Ethernet | Ethernet |
| IR Control | Yes | Yes | Yes |
| Camera Control Unit | RMC-180/RMC-300C | RMC-180/RMC-300C | HS-1500T/HS-1600T/RMC-180/RMC-300C |
| Tripod Mount | 1/4-20 UNC | 1/4-20 UNC | 1/4-20 UNC |
| Optional Accessories | WM-1/ WM-10 | WM-1/ WM-10 | WM-1/ WM-10 |
| Color | Dark Blue/White | Dark Blue/White | Dark Blue/White |
| Dimension (LxWxH) | 156 x 184 x 186 mm | 156 x 184 x 186 mm | 156 x 184 x 186 mm |
| Weight | 1.6 kg | 1.6 kg | 1.6 kg |
| Operating Temp. Range | 0~40 °C | 0~40 °C | 0~40 °C |
| Power | DC 12V 12W | DC 12V 12W | DC 12V 12W |

@DatavideoUSA    @DatavideoAsia
@DatavideoEMEA   @DatavideoIndia2016
@DatavideoTaiwan @Datavideojapan

@Datavideo
@Datavideo_EMEA
@Datavideo_Taiwan

@DatavideoUSA
@DVTWDVCN

@DatavideoUSA
@DatavideoEurope