



# PTZ-HN Series

Full HD Video Broadcast Camera - NDI|HX2 ready

**ON-AIR**

**NDI** | HX



STANDBY POWER



LINE IN CVBS

30X

SYSTEM SELECT

RS485

IN RS232 OUT

LAN

HDMI

3G-SDI

USB 2.0

DC 12V

ON  
OFF

# Main features

## 1080P Full HD

Applying Panasonic's 1/2.7 inch, 2.07 million effective pixels high quality HD CMOS sensor, reach maximum 1920 x 1080 high resolution and achieve quality image.

## Ultra-high Frame Rate

The output frame rate up to 60fps in 1080P, up to 120fps output in 720P (supported by network only)

## AAC Audio Encoding

Support! AAC audio encoding, better sound quality and smaller bandwidth

## Local Storage Support

Local storage module, directly recording to local USB flash disk without NVR

## Low-lighting

High SNR of CMOS sensor combined with 2D and 3D noise reduction algorithm, effectively reducing the noise. Even under low illumination conditions, picture can still keep clean and clear.

## Multiple Interfaces

Support! HDMI, 3G-SDI interface, effective transmission distance up to 150 meters (under 1080p30). HDMI, SDI, Network can output at the same time. It also support CVBS interface

## 20x Optical + 32x Digital Zoom

Use TAMRON high quality super telephoto lens, support! 20x optical zoom, and 32x digital zoom (optional) HDMI, SDI, Network can output at the same time. It also support CVBS interface

## Remote Control

Using R232 and RS485 interface, all the parameters of the camera can be controlled remotely HDMI, SDI, Network can output at the same time. It also support CVBS interface

## Power Supply

DC 12 V AC Adapter/PoE (802.3af)

## Current Consumption

1.0A (Max)

## Operating Temperature

-10°C ~ 40°C (14°F ~ 104°F)

## Storage Temperature

-40°C ~ 60°C (-40°F ~ 140°F)

## Power Consumption

12W (Max)

## Size

127.5mm x 72.0mm x 60.0mm

## Net Weight

1.35kg (3.0LB)

## MTBF

>30000h

# Camera

## Video System

HD: 1080p/60, 1080p/50, 1080i/60, 1080i/50,  
1080p/30, 1080p/25, 720p/60, 720p/50, 720p/30,  
720p/25, SD: 480i, 576i

## Sensor

1/2.7"; CMOS, Effective Pixel: 2.07M

## Scanning Mode

Progressive

## Lens Mount

**12X** - F3.5mm ~ 42.3mm, F1.8 ~ F2.8  
**20X** - F4.42MM ~ 88.SMM, F1.8 ~ F2.8  
**30X** - F4.42mm ~ 132.6mm, F1.8 ~ F2.8

## Digital Zoom

32x (optional)

## Minimal Illumination

0.5 Lux@ (Fl .8, AGC ON)

## Shutter

1/30s ~ 1/10000s

## White Balance

auto, 3000K</indoor, 5000K</outdoor, VAR 2500 -  
8000 K, one push, manual

## Digital Noise Reduction

2D&3D Digital Noise Reduction

## Video S/N

>55dB

## Horizontal angle of view

**12X** 72.5° ~ 6.9° - **20X** 60.7° ~ 3.36° - **30X** 60.7° ~ 2.28°

## Vertical angle of view

**12X** 44.8° ~ 3.9° - **20X** 34.1° ~ 1.89° - **30X** 34.1° ~ 1.28°

## Horizontal rotation range

±170°

## Vertical rotation range

-30° ~ +90°

## Pan speed range

1.7° ~ 100°/s

## Tilt speed range

1.7° ~ 69.9°/s

## H&V FLIP

Yes

## Imagefreeze

Yes

## PoE

Yes

## Local storage

Yes

## Number of preset

255

## Preset accuracy

0.1°

# Input Output Interfaces

## HD output

1X HDMI: VERSION 1.3  
1 X3G-SDI: BNC TYPE, 800MVP-P, 750, along to SMPTE 424M standard

## Network interface Audio Interface

1 x rj45: 1 Om/1 OOm ethernet interface  
1-ch: 3.5mm audio interface, line in

## Communication Interface

1xRS232 In: Spin Min DIN,  
Max Distance:30m, VISCA/PelcoD/Pelco-P Protocol  
1xRS232 Out: Spin Min DIN, Max Distance: 30m,  
VISCA networkProtocol 1xRS485: 2pin Phoenix  
Port, Max Distance:1200m, VISCA/Pelco-D/Pelco-P  
Protocol

## Powerjack

eita type (DC in 12V)

# IPC Features

## Video Compression

H.265/H.264/MJPEG

## Video Stream

Main stream, Sub stream

## Main stream resolution

1920X1080, 1280X720, 1024X576, 960x540, 640x480, 640x36

## Sub stream resolution

720X576, 720X480, 320X240, 1280x720, 1024x576, 640x360,  
480x270, 320x180

## Video bit rate

32Kbps ~ 20480Kbps

## Bit rate type

variable rate, fixed rate

## Frame rate

50hz: lfps ~ 50fps, 60hz: lfps ~ 60fps, 720p 120: 120fps

## Audio compression

AAC

## Audio bit rate

96kbps, 128kbps, 256kbps

## Supported protocols

TCP/IP, HTTP, RTSP, RTMP, ONVIF, DHCP, MULTICAST, etc.



# ON-AIR

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