

Full HD Remote Camera with NDI®*1 HX Support

AW-HN38H

The AW-HN38 pan/tilt/zoom camera incorporates newly-developed 1/2.3-type full HD MOS sensors and Digital Signal Processors (DSP) for high sensitivity, high resolution and superior video capture in a wide range of shooting conditions.

Key Features

1/2.3-Type MOS

22x Optical Zoom plus 30x i.Zoom & 16x Digital Zoom

IP Connectivity for web interface and control plus PoE+ support for single cable power, streaming and camera control

HDMI Video Output, in addition to USB and microSD card built-in recording

NDI®*1 HX - PoE+ for Power, Ultra Low Latency Audio/Video, Tally & Control via a Single Cable







AW-HN38H

https://eu.connect.panasonic.com/n o/en/broadcast-proav/aw-hn38h

General -> Ambient Operating	0 °C to 40 °C (32 °F to 104 °F)
Temperature	
General -> Ambient Operating	20 % to 90 % (no condensation)
Humidity	20.90 + 2.50.90 (4.95 + 2.4.22.95)
General -> Storage Temperature	-20 °C to 50 °C (-4 °F to 122 °F)
General -> Weight General -> Dimensions	Approx. 1.5 kg (3.30 lb)
general -> Dimensions	W 160 mm x H 186 mm x D 166 mm
	(6-5/16 inches x 7-41/128 inches x 6-17/32 inches)
	(excluding protrusions, direct ceiling mount bracket)
General -> Finish	AW-HN38HW: Pearl white AW-HN38HK: Metallic black
General -> Controller Supported <sup< th=""><th>>See the "Compatibility Chart for Operation Devices and Application Software" page</th></sup<>	>See the "Compatibility Chart for Operation Devices and Application Software" page
*1	
Camera Unit -> Imaging Sensor	1/2.3-type MOSx1
Camera Unit -> Focus	Switching between auto and manual
Camera Unit -> Focus Distance	Entire zooming range: 1.2 m (3.94 ft) Wide end: 10 cm (0.33 ft)
Camera Unit -> Color Separation Optical System	On-chip color filter system
•	n 0.7 lx (50 IRE, F1.6, 48 dB, 1/60 without accumulation)
> 59.94Hz	0.35 lx (50 IRE, F1.6, 48 dB, 1/30 with accumulation [Frame Mix 6 dB])
Camera Unit -> Minimum Illuminatio	n 0.7 lx (50 IRE, F1.6, 48 dB, 1/50 with accumulation)
> 50Hz	
	0.35 lx (50 IRE, F1.6, 48 dB, 1/25 with accumulation [Frame Mix 6 dB])
Camera Unit -> Horizontal Resolution	1-1000 TV lines Typ (Center area)
> HD	Auto O dD to 40 dD (2 dD stops)
Camera Unit -> Gain Selection ^{ 2}	Auto, 0 dB to 48 dB (3 dB steps)
Camera Unit -> Frame Mix ^{ *3}	Auto, Off, 6 dB, 12 dB, 18 dB, 24 dB
Camera Unit -> Electronic Shutter	1/30 to 1/2000[59.94 Hz]
Speed -> FullAuto	1/25 to 1/2000 [50 Hz]
Camera Unit -> Electronic Shutter	1/60 to 1/2000 [59.94 Hz]
Speed -> Auto	1/50 to 1/2000 [50 Hz]
Camera Unit -> Electronic Shutter	1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 [59.94 Hz]
Speed -> Manual	
Camana Iluit > Comebus Casa >	1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 [50Hz]
Camera Unit -> Synchro Scan -> 59.94Hz	59.94 Hz to 660.09 Hz
Camera Unit -> Synchro Scan -> 50Hz	: 50.00 Hz to 570.12 Hz
Camera Unit -> Gamma	Off, Normal (Low, Mid, High), Cinema
Camera Unit -> White Balance	AWB A, AWB B, ATW, 3200K, 5600K, VAR (2400K to 9900K)
Camera Unit -> Chroma Amount	±3 steps
V ariability	
Camera Unit -> Scene File	Full Auto, Manual1, Manual2, Manual3
Synchronization System	Internal synchronization
nput Connector -> DC IN	DC 12 V IN, PoE+ (IEEE802.3at standard)
Output Connector -> HDMI	HDMI connector
	• HDCP is not supported.
	VIERA Link is not supported.
Input/Output Connector -> LAN	LAN connector for IP control (RJ-45),
	Equipped with straight/crossover cable auto detection function
Input/Output Connector -> RS-232C	Mini DIN 8-pin (IN), Mini DIN 8-pin (OUT)
Input/Output Connector -> RS-422	CONTROL IN RS422A (RJ-45)
Input/Output Connector -> USB Input/Output Connector -> SD Card	Mini-B port microSD card slot

Innut/Outnut Connector -> MIC/LINE	
	Stereo mini-jack (ø3.5 mm)
Input	Input impedance: Approx. 2 kΩ (unbalanced)
	Mic input
	Supported microphones: Stereo mic (plug-in power, on/off switching via menu)
	• Supplied voltage: 2.5 V ± 0.5 V
	• Mic input level: -60 dBV ± 3 dBV
	·
	Line input
USB Connection -> Video Output	Input level: -10 dBV ± 3 dBV USB Video Class Ver1.0
USB Connection -> Video Compressio	
Format	
USB Connection -> Resolution	1920 x 1080, 1280 x 720, 640 x 360
USB Connection -> Frame Rate USB Connection -> Audio Output	max 30 fps (System frequency 59.94 Hz), max 25 fps (System frequency 50 Hz) USB Audio Class Ver1.0
·	nLinear PCM, 48 kHz, 16-bit, 2 channels
Format	
	Devices standardly equipped with a USB 2.0 compatible port • When connecting through a hub: LAN cable *7 (category 5 or above), max. 100 m (328 ft)
Pan-tilt Head Unit -> IP connecting cable	
	• When using a PoE+ hub: LAN cable *7(category 5e or above), max. 100 m (328 ft)
	When a hub is not used: LAN cable(category 5 or above), max. 100 m (328 ft) LAN cable *7(category 5 or above, straight cable), max. 1000 m (3280 ft)
Pan-tilt Head Unit -> AW protocol connecting cable	LAN cable (category 5 or above, straight cable), max. 1000 m (3280 ft)
Pan-tilt Head Unit -> Standard	Mini DIN 8-pin cable, male
Protocol Connecting Cable	*5
Pan-tilt Head Unit -> Installation Method	Stand-alone (Desktop) or suspended (Hanging) *5
	nMaximum speed during preset: 300°/s, Maximum speed during manual: 90°/s
Speed	
Pan-tilt Head Unit -> Panning Range Pan-tilt Head Unit -> Tilting range	±175° -30° to 90° *6
Pan-tilt Head Unit -> Quietness	During preset: NC40 or less
	During manual: NC35 or less
SD Card Recording -> SD Card	During manual: NC35 or less MPEG-4 AVC file standard compliant (.MP4)
Recording	MPEG-4 AVC file standard compliant (.MP4)
Recording SD Card Recording -> SD Card Type	MPEG-4 AVC file standard compliant (.MP4) micro SDHC (4 GB to 32 GB), micro SDXC (64 GB to 128 GB), Speed class 10 or higher
Recording	MPEG-4 AVC file standard compliant (.MP4)
Recording SD Card Recording -> SD Card Type SD Card Recording -> System Frequency SD Card Recording -> Video	MPEG-4 AVC file standard compliant (.MP4) micro SDHC (4 GB to 32 GB), micro SDXC (64 GB to 128 GB), Speed class 10 or higher
Recording SD Card Recording -> SD Card Type SD Card Recording -> System Frequency SD Card Recording -> Video Compression Format	MPEG-4 AVC file standard compliant (.MP4) micro SDHC (4 GB to 32 GB), micro SDXC (64 GB to 128 GB), Speed class 10 or higher 59.94 Hz/50 Hz MPEG-4 AVC/H.264 High Profile
Recording SD Card Recording -> SD Card Type SD Card Recording -> System Frequency SD Card Recording -> Video	MPEG-4 AVC file standard compliant (.MP4) micro SDHC (4 GB to 32 GB), micro SDXC (64 GB to 128 GB), Speed class 10 or higher 59.94 Hz/50 Hz
Recording SD Card Recording -> SD Card Type SD Card Recording -> System Frequency SD Card Recording -> Video Compression Format SD Card Recording -> Audio Compression Format SD Card Recording -> Recording	MPEG-4 AVC file standard compliant (.MP4) micro SDHC (4 GB to 32 GB), micro SDXC (64 GB to 128 GB), Speed class 10 or higher 59.94 Hz/50 Hz MPEG-4 AVC/H.264 High Profile AAC-LC (48 kHz, 16 bit, 2 ch, 128 kbps) 1920 x 1080/59.94p, 1920 x 1080/50p, 1920 x 1080/29.97p, 1920 x 1080/25p, 1280 x
Recording SD Card Recording -> SD Card Type SD Card Recording -> System Frequency SD Card Recording -> Video Compression Format SD Card Recording -> Audio Compression Format SD Card Recording -> Recording Format -> 59.94Hz	MPEG-4 AVC file standard compliant (.MP4) micro SDHC (4 GB to 32 GB), micro SDXC (64 GB to 128 GB), Speed class 10 or higher 59.94 Hz/50 Hz MPEG-4 AVC/H.264 High Profile AAC-LC (48 kHz, 16 bit, 2 ch, 128 kbps) 1920 x 1080/59.94p, 1920 x 1080/50p, 1920 x 1080/29.97p, 1920 x 1080/25p, 1280 x 720/59.94p, 1280 x 720/50p, 1280 x 720/29.97p, 1280 x 720/25p
Recording SD Card Recording -> SD Card Type SD Card Recording -> System Frequency SD Card Recording -> Video Compression Format SD Card Recording -> Audio Compression Format SD Card Recording -> Recording	MPEG-4 AVC file standard compliant (.MP4) micro SDHC (4 GB to 32 GB), micro SDXC (64 GB to 128 GB), Speed class 10 or higher 59.94 Hz/50 Hz MPEG-4 AVC/H.264 High Profile AAC-LC (48 kHz, 16 bit, 2 ch, 128 kbps) 1920 x 1080/59.94p, 1920 x 1080/50p, 1920 x 1080/29.97p, 1920 x 1080/25p, 1280 x
Recording SD Card Recording -> SD Card Type SD Card Recording -> System Frequency SD Card Recording -> Video Compression Format SD Card Recording -> Audio Compression Format SD Card Recording -> Recording Format -> 59.94Hz SD Card Recording -> Recording	MPEG-4 AVC file standard compliant (.MP4) micro SDHC (4 GB to 32 GB), micro SDXC (64 GB to 128 GB), Speed class 10 or higher 59.94 Hz/50 Hz MPEG-4 AVC/H.264 High Profile AAC-LC (48 kHz, 16 bit, 2 ch, 128 kbps) 1920 x 1080/59.94p, 1920 x 1080/50p, 1920 x 1080/29.97p, 1920 x 1080/25p, 1280 x 720/59.94p, 1280 x 720/50p, 1280 x 720/29.97p, 1280 x 720/25p 1920 x 1080/59.94p, 1920 x 1080/50p, 1920 x 1080/29.97p, 1920 x 1080/25p, 1280 x
Recording SD Card Recording -> SD Card Type SD Card Recording -> System Frequency SD Card Recording -> Video Compression Format SD Card Recording -> Audio Compression Format SD Card Recording -> Recording Format -> 59.94Hz SD Card Recording -> Recording Format -> 50Hz	MPEG-4 AVC file standard compliant (.MP4) micro SDHC (4 GB to 32 GB), micro SDXC (64 GB to 128 GB), Speed class 10 or higher 59.94 Hz/50 Hz MPEG-4 AVC/H.264 High Profile AAC-LC (48 kHz, 16 bit, 2 ch, 128 kbps) 1920 x 1080/59.94p, 1920 x 1080/50p, 1920 x 1080/29.97p, 1920 x 1080/25p, 1280 x 720/59.94p, 1280 x 720/50p, 1280 x 720/29.97p, 1280 x 720/25p 1920 x 1080/59.94p, 1920 x 1080/50p, 1920 x 1080/29.97p, 1920 x 1080/25p, 1280 x 720/59.94p, 1280 x 720/50p, 1280 x 720/29.97p, 1280 x 720/25p
Recording SD Card Recording -> SD Card Type SD Card Recording -> System Frequency SD Card Recording -> Video Compression Format SD Card Recording -> Audio Compression Format SD Card Recording -> Recording Format -> 59.94Hz SD Card Recording -> Recording Format -> 50Hz Network -> Resolution -> JPEG	MPEG-4 AVC file standard compliant (.MP4) micro SDHC (4 GB to 32 GB), micro SDXC (64 GB to 128 GB), Speed class 10 or higher 59.94 Hz/50 Hz MPEG-4 AVC/H.264 High Profile AAC-LC (48 kHz, 16 bit, 2 ch, 128 kbps) 1920 x 1080/59.94p, 1920 x 1080/50p, 1920 x 1080/29.97p, 1920 x 1080/25p, 1280 x 720/59.94p, 1280 x 720/50p, 1280 x 720/29.97p, 1280 x 720/25p 1920 x 1080/59.94p, 1920 x 1080/50p, 1920 x 1080/29.97p, 1920 x 1080/25p, 1280 x 720/59.94p, 1280 x 720/50p, 1280 x 720/29.97p, 1280 x 720/25p VGA (640 x 360), QVGA (320 x 180) max.30 fps 1920 x 1080, 1280 x 720, 640 x 360, 320 x 180 max.30 fps 1920 x 1080, 1280 x 720, 640 x 360, 320 x 180 max.30 fps
Recording SD Card Recording -> SD Card Type SD Card Recording -> System Frequency SD Card Recording -> Video Compression Format SD Card Recording -> Audio Compression Format SD Card Recording -> Recording Format -> 59.94Hz SD Card Recording -> Recording Format -> 50Hz Network -> Resolution -> JPEG Network -> Resolution -> H.264 Network -> Supported Protocol ->	MPEG-4 AVC file standard compliant (.MP4) micro SDHC (4 GB to 32 GB), micro SDXC (64 GB to 128 GB), Speed class 10 or higher 59.94 Hz/50 Hz MPEG-4 AVC/H.264 High Profile AAC-LC (48 kHz, 16 bit, 2 ch, 128 kbps) 1920 x 1080/59.94p, 1920 x 1080/50p, 1920 x 1080/29.97p, 1920 x 1080/25p, 1280 x 720/59.94p, 1280 x 720/50p, 1280 x 720/29.97p, 1280 x 720/25p 1920 x 1080/59.94p, 1920 x 1080/50p, 1920 x 1080/29.97p, 1920 x 1080/25p, 1280 x 720/59.94p, 1280 x 720/50p, 1280 x 720/29.97p, 1280 x 720/25p VGA (640 x 360), QVGA (320 x 180) max.30 fps 1920 x 1080, 1280 x 720, 640 x 360, 320 x 180 max.30 fps 1920 x 1080, 1280 x 720, 640 x 360, 320 x 180 max.30 fps 1920 x 1080, 1280 x 720, 640 x 360, 320 x 180 max.60 fps TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, DHCP, DNS, NTP, IGMP, UPnP, ICMP,
Recording SD Card Recording -> SD Card Type SD Card Recording -> System Frequency SD Card Recording -> Video Compression Format SD Card Recording -> Audio Compression Format SD Card Recording -> Recording Format -> 59.94Hz SD Card Recording -> Recording Format -> 50Hz Network -> Resolution -> JPEG	MPEG-4 AVC file standard compliant (.MP4) micro SDHC (4 GB to 32 GB), micro SDXC (64 GB to 128 GB), Speed class 10 or higher 59.94 Hz/50 Hz MPEG-4 AVC/H.264 High Profile AAC-LC (48 kHz, 16 bit, 2 ch, 128 kbps) 1920 x 1080/59.94p, 1920 x 1080/50p, 1920 x 1080/29.97p, 1920 x 1080/25p, 1280 x 720/59.94p, 1280 x 720/50p, 1280 x 720/29.97p, 1280 x 720/25p 1920 x 1080/59.94p, 1920 x 1080/50p, 1920 x 1080/29.97p, 1920 x 1080/25p, 1280 x 720/59.94p, 1280 x 720/50p, 1280 x 720/29.97p, 1280 x 720/25p VGA (640 x 360), QVGA (320 x 180) max.30 fps 1920 x 1080, 1280 x 720, 640 x 360, 320 x 180 max.30 fps 1920 x 1080, 1280 x 720, 640 x 360, 320 x 180 max.30 fps
Recording SD Card Recording -> SD Card Type SD Card Recording -> System Frequency SD Card Recording -> Video Compression Format SD Card Recording -> Audio Compression Format SD Card Recording -> Recording Format -> 59.94Hz SD Card Recording -> Recording Format -> 50Hz Network -> Resolution -> JPEG Network -> Resolution -> JPEG Network -> Supported Protocol -> IPv4 Network -> Supported Protocol -> IPv6	MPEG-4 AVC file standard compliant (.MP4) micro SDHC (4 GB to 32 GB), micro SDXC (64 GB to 128 GB), Speed class 10 or higher 59.94 Hz/50 Hz MPEG-4 AVC/H.264 High Profile AAC-LC (48 kHz, 16 bit, 2 ch, 128 kbps) 1920 × 1080/59.94p, 1920 × 1080/50p, 1920 × 1080/29.97p, 1920 × 1080/25p, 1280 × 720/59.94p, 1280 × 720/50p, 1280 × 720/29.97p, 1280 × 720/25p 1920 × 1080/59.94p, 1920 × 1080/50p, 1920 × 1080/29.97p, 1920 × 1080/25p, 1280 × 720/59.94p, 1280 × 720/50p, 1280 × 720/29.97p, 1280 × 720/25p VGA (640 × 360), QVGA (320 × 180) max.30 fps 1920 × 1080, 1280 × 720, 640 × 360, 320 × 180 max.30 fps 1920 × 1080, 1280 × 720, 640 × 360, 320 × 180 max.60 fps TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, DHCP, DNS, NTP, IGMP, UPnP, ICMP, ARP, RTSPoverTCP, RTSPoverHTTP, SSL (TLS), MultiCast/UniCast TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, DHCPv6, DNS, NTP, ICMPv6 (MLD), RTSPoverTCP, RTSPoverHTTP, SSL (TLS), MultiCast/UniCast
Recording SD Card Recording -> SD Card Type SD Card Recording -> System Frequency SD Card Recording -> Video Compression Format SD Card Recording -> Audio Compression Format SD Card Recording -> Recording Format -> 59.94Hz SD Card Recording -> Recording Format -> 59.94Hz SD Card Recording -> Recording Format -> 50Hz Network -> Resolution -> JPEG Network -> Resolution -> H.264 Network -> Supported Protocol -> IPv4 Network -> Supported Protocol -> IPv6 Network -> iOS, Android Support	MPEG-4 AVC file standard compliant (.MP4) micro SDHC (4 GB to 32 GB), micro SDXC (64 GB to 128 GB), Speed class 10 or higher 59.94 Hz/50 Hz MPEG-4 AVC/H.264 High Profile AAC-LC (48 kHz, 16 bit, 2 ch, 128 kbps) 1920 × 1080/59.94p, 1920 × 1080/50p, 1920 × 1080/29.97p, 1920 × 1080/25p, 1280 × 720/59.94p, 1280 × 720/50p, 1280 × 720/29.97p, 1280 × 720/25p 1920 × 1080/59.94p, 1920 × 1080/50p, 1920 × 1080/29.97p, 1920 × 1080/25p, 1280 × 720/59.94p, 1280 × 720/50p, 1280 × 720/29.97p, 1280 × 720/25p VGA (640 × 360), QVGA (320 × 180) max.30 fps 1920 × 1080, 1280 × 720, 640 × 360, 320 × 180 max.30 fps 1920 × 1080, 1280 × 720, 640 × 360, 320 × 180 max.60 fps TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, DHCP, DNS, NTP, IGMP, UPnP, ICMP, ARP, RTSPoverTCP, RTSPoverHTTP, SSL (TLS), MultiCast/UniCast TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, DHCPv6, DNS, NTP, ICMPv6 (MLD),
Recording SD Card Recording -> SD Card Type SD Card Recording -> System Frequency SD Card Recording -> Video Compression Format SD Card Recording -> Audio Compression Format SD Card Recording -> Recording Format -> 59.94Hz SD Card Recording -> Recording Format -> 50Hz Network -> Resolution -> JPEG Network -> Resolution -> JPEG Network -> Supported Protocol -> IPv4 Network -> Supported Protocol -> IPv6	MPEG-4 AVC file standard compliant (.MP4) micro SDHC (4 GB to 32 GB), micro SDXC (64 GB to 128 GB), Speed class 10 or higher 59.94 Hz/50 Hz MPEG-4 AVC/H.264 High Profile AAC-LC (48 kHz, 16 bit, 2 ch, 128 kbps) 1920 x 1080/59.94p, 1920 x 1080/50p, 1920 x 1080/29.97p, 1920 x 1080/25p, 1280 x 720/59.94p, 1280 x 720/50p, 1280 x 720/29.97p, 1280 x 720/25p 1920 x 1080/59.94p, 1920 x 1080/50p, 1920 x 1080/29.97p, 1920 x 1080/25p, 1280 x 720/59.94p, 1280 x 720/50p, 1280 x 720/29.97p, 1280 x 720/25p VGA (640 x 360), QVGA (320 x 180) max.30 fps 1920 x 1080, 1280 x 720, 640 x 360, 320 x 180 max.30 fps 1920 x 1080, 1280 x 720, 640 x 360, 320 x 180 max.60 fps TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, DHCP, DNS, NTP, IGMP, UPnP, ICMP, ARP, RTSPoverTCP, RTSPoverHTTP, SSL (TLS), MultiCast/UniCast TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, DHCPv6, DNS, NTP, ICMPv6 (MLD), RTSPoverTCP, RTSPoverHTTP, SSL (TLS), MultiCast/UniCast JPEG image display
Recording SD Card Recording -> SD Card Type SD Card Recording -> System Frequency SD Card Recording -> Video Compression Format SD Card Recording -> Audio Compression Format SD Card Recording -> Recording Format -> 59.94Hz SD Card Recording -> Recording Format -> 59.94Hz SD Card Recording -> Recording Format -> 50Hz Network -> Resolution -> JPEG Network -> Resolution -> H.264 Network -> Supported Protocol -> IPv4 Network -> Supported Protocol -> IPv6 Network -> iOS, Android Support	MPEG-4 AVC file standard compliant (.MP4) micro SDHC (4 GB to 32 GB), micro SDXC (64 GB to 128 GB), Speed class 10 or higher 59.94 Hz/50 Hz MPEG-4 AVC/H.264 High Profile AAC-LC (48 kHz, 16 bit, 2 ch, 128 kbps) 1920 x 1080/59.94p, 1920 x 1080/50p, 1920 x 1080/29.97p, 1920 x 1080/25p, 1280 x 720/59.94p, 1280 x 720/50p, 1280 x 720/29.97p, 1280 x 720/25p 1920 x 1080/59.94p, 1920 x 1080/50p, 1920 x 1080/29.97p, 1920 x 1080/25p, 1280 x 720/59.94p, 1280 x 720/50p, 1280 x 720/29.97p, 1280 x 720/25p VGA (640 x 360), QVGA (320 x 180) max.30 fps 1920 x 1080, 1280 x 720, 640 x 360, 320 x 180 max.30 fps 1920 x 1080, 1280 x 720, 640 x 360, 320 x 180 max.60 fps TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, DHCP, DNS, NTP, IGMP, UPnP, ICMP, ARP, RTSPoverTCP, RTSPoverHTTP, SSL (TLS), MultiCast/UniCast TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, DHCPv6, DNS, NTP, ICMPv6 (MLD), RTSPoverTCP, RTSPoverHTTP, SSL (TLS), MultiCast/UniCast JPEG image display It may be necessary to upgrade the version of the controller so that the controller will
Recording SD Card Recording -> SD Card Type SD Card Recording -> System Frequency SD Card Recording -> Video Compression Format SD Card Recording -> Audio Compression Format SD Card Recording -> Recording Format -> 59.94Hz SD Card Recording -> Recording Format -> 59.94Hz SD Card Recording -> Recording Format -> 50Hz Network -> Resolution -> JPEG Network -> Resolution -> H.264 Network -> Supported Protocol -> IPv4 Network -> Supported Protocol -> IPv6 Network -> iOS, Android Support	MPEG-4 AVC file standard compliant (.MP4) micro SDHC (4 GB to 32 GB), micro SDXC (64 GB to 128 GB), Speed class 10 or higher 59.94 Hz/50 Hz MPEG-4 AVC/H.264 High Profile AAC-LC (48 kHz, 16 bit, 2 ch, 128 kbps) 1920 x 1080/59.94p, 1920 x 1080/50p, 1920 x 1080/29.97p, 1920 x 1080/25p, 1280 x 720/59.94p, 1280 x 720/50p, 1280 x 720/29.97p, 1280 x 720/25p 1920 x 1080/59.94p, 1920 x 1080/50p, 1920 x 1080/29.97p, 1920 x 1080/25p, 1280 x 720/59.94p, 1280 x 720/50p, 1280 x 720/29.97p, 1280 x 720/25p VGA (640 x 360), QVGA (320 x 180) max.30 fps 1920 x 1080, 1280 x 720, 640 x 360, 320 x 180 max.30 fps 1920 x 1080, 1280 x 720, 640 x 360, 320 x 180 max.60 fps TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, DHCP, DNS, NTP, IGMP, UPnP, ICMP, ARP, RTSPoverTCP, RTSPoverHTTP, SSL (TLS), MultiCast/UniCast TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, DHCPv6, DNS, NTP, ICMPv6 (MLD), RTSPOVETCP, RTSPoverHTTP, SSL (TLS), MultiCast/UniCast JPEG image display It may be necessary to upgrade the version of the controller so that the controller will support the unit.
Recording SD Card Recording -> SD Card Type SD Card Recording -> System Frequency SD Card Recording -> Video Compression Format SD Card Recording -> Audio Compression Format SD Card Recording -> Recording Format -> 59.94Hz SD Card Recording -> Recording Format -> 59.94Hz SD Card Recording -> Recording Format -> 50Hz Network -> Resolution -> JPEG Network -> Resolution -> H.264 Network -> Supported Protocol -> IPv4 Network -> Supported Protocol -> IPv6 Network -> iOS, Android Support	MPEG-4 AVC file standard compliant (.MP4) micro SDHC (4 GB to 32 GB), micro SDXC (64 GB to 128 GB), Speed class 10 or higher 59.94 Hz/50 Hz MPEG-4 AVC/H.264 High Profile AAC-LC (48 kHz, 16 bit, 2 ch, 128 kbps) 1920 x 1080/59.94p, 1920 x 1080/50p, 1920 x 1080/29.97p, 1920 x 1080/25p, 1280 x 720/59.94p, 1280 x 720/50p, 1280 x 720/29.97p, 1280 x 720/25p 1920 x 1080/59.94p, 1920 x 1080/50p, 1920 x 1080/29.97p, 1920 x 1080/25p, 1280 x 720/59.94p, 1280 x 720/50p, 1280 x 720/29.97p, 1280 x 720/25p VGA (640 x 360), QVGA (320 x 180) max.30 fps 1920 x 1080, 1280 x 720, 640 x 360, 320 x 180 max.30 fps 1920 x 1080, 1280 x 720, 640 x 360, 320 x 180 max.60 fps TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, DHCP, DNS, NTP, IGMP, UPnP, ICMP, ARP, RTSPoverTCP, RTSPoverHTTP, SSL (TLS), MultiCast/UniCast TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, DHCPv6, DNS, NTP, ICMPv6 (MLD), RTSPoverTCP, RTSPoverHTTP, SSL (TLS), MultiCast/UniCast JPEG image display It may be necessary to upgrade the version of the controller so that the controller will support the unit. During Auto, 6 dB to 48 dB (6 dB steps) are available for AGC Max Gain setting.
Recording SD Card Recording -> SD Card Type SD Card Recording -> System Frequency SD Card Recording -> Video Compression Format SD Card Recording -> Audio Compression Format SD Card Recording -> Recording Format -> 59.94Hz SD Card Recording -> Recording Format -> 59.94Hz SD Card Recording -> Recording Format -> 50Hz Network -> Resolution -> JPEG Network -> Resolution -> H.264 Network -> Supported Protocol -> IPv4 Network -> Supported Protocol -> IPv6 Network -> iOS, Android Support	MPEG-4 AVC file standard compliant (.MP4) micro SDHC (4 GB to 32 GB), micro SDXC (64 GB to 128 GB), Speed class 10 or higher 59.94 Hz/50 Hz MPEG-4 AVC/H.264 High Profile AAC-LC (48 kHz, 16 bit, 2 ch, 128 kbps) 1920 × 1080/59.94p, 1920 × 1080/50p, 1920 × 1080/29.97p, 1920 × 1080/25p, 1280 × 720/59.94p, 1280 × 720/50p, 1280 × 720/29.97p, 1280 × 720/25p 1920 × 1080/59.94p, 1920 × 1080/50p, 1920 × 1080/29.97p, 1920 × 1080/25p, 1280 × 720/59.94p, 1280 × 720/50p, 1280 × 720/29.97p, 1280 × 720/25p VGA (640 × 360), QVGA (320 × 180) max.30 fps 1920 × 1080, 1280 × 720, 640 × 360, 320 × 180 max.30 fps 1920 × 1080, 1280 × 720, 640 × 360, 320 × 180 max.60 fps TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, DHCP, DNS, NTP, IGMP, UPnP, ICMP, ARP, RTSPoverTCP, RTSPoverHTTP, SSL (TLS), MultiCast/UniCast TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, DHCPV6, DNS, NTP, ICMPv6 (MLD), RTSPoverTCP, RTSPoverHTTP, SSL (TLS), MultiCast/UniCast JPEG image display It may be necessary to upgrade the version of the controller so that the controller will support the unit. During Auto, 6 dB to 48 dB (6 dB steps) are available for AGC Max Gain setting. During Auto, 0 dB, 6 dB, 12 dB and 18dB are available for Auto F. Mix Max Gain setting.
Recording SD Card Recording -> SD Card Type SD Card Recording -> System Frequency SD Card Recording -> Video Compression Format SD Card Recording -> Audio Compression Format SD Card Recording -> Recording Format -> 59.94Hz SD Card Recording -> Recording Format -> 59.94Hz SD Card Recording -> Recording Format -> 50Hz Network -> Resolution -> JPEG Network -> Resolution -> H.264 Network -> Supported Protocol -> IPv4 Network -> Supported Protocol -> IPv6 Network -> iOS, Android Support	MPEG-4 AVC file standard compliant (.MP4) micro SDHC (4 GB to 32 GB), micro SDXC (64 GB to 128 GB), Speed class 10 or higher 59.94 Hz/50 Hz MPEG-4 AVC/H.264 High Profile AAC-LC (48 kHz, 16 bit, 2 ch, 128 kbps) 1920 x 1080/59.94p, 1920 x 1080/50p, 1920 x 1080/29.97p, 1920 x 1080/25p, 1280 x 720/59.94p, 1280 x 720/50p, 1280 x 720/29.97p, 1280 x 720/25p 1920 x 1080/59.94p, 1920 x 1080/50p, 1920 x 1080/29.97p, 1920 x 1080/25p, 1280 x 720/59.94p, 1280 x 720/50p, 1280 x 720/29.97p, 1280 x 720/25p VGA (640 x 360), QVGA (320 x 180) max.30 fps 1920 x 1080, 1280 x 720, 640 x 360, 320 x 180 max.30 fps 1920 x 1080, 1280 x 720, 640 x 360, 320 x 180 max.60 fps TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, DHCP, DNS, NTP, IGMP, UPnP, ICMP, ARP, RTSPoverTCP, RTSPoverHTTP, SSL (TLS), MultiCast/UniCast TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, DHCPv6, DNS, NTP, ICMPv6 (MLD), RTSPoverTCP, RTSPoverHTTP, SSL (TLS), MultiCast/UniCast JPEG image display It may be necessary to upgrade the version of the controller so that the controller will support the unit. During Auto, 6 dB to 48 dB (6 dB steps) are available for AGC Max Gain setting.

Depending on the pan or tilt position, the camera may be reflected in the image.

Use of an STP (shielded twisted pair) cable is recommended.