

DESCRIPTION

This is a PoE+ compatible full HD network PTZ camera that uses the highly efficient H.265 image compression method. This combination camera is equipped with a high-speed rotating platform with a horizontal rotation speed of 400°/s (maximum speed) and a 30x optical zoom lens, and can preset up to 255 positions of your choice, allowing you to instantly move to any preset position. It also has 12x electronic zoom, tour function, auto flip, day/night, privacy mask, vibration compensation, and WDR functions. In addition, it is equipped with a color night mode function that allows color shooting through signal processing even in low-light environments, allowing you to capture highly visible images even at night. It has audio input/output terminals, allowing two-way audio communication. It is possible to supply power to the microphone, and you can select whether to supply power with phantom power or power the microphone power line separately from the audio input terminal according to the power specifications of the microphone, and sound can be collected by connecting the microphone directly to the camera. It has an SD card slot, and the camera's images can be recorded to the SD card. It is dustproof and waterproof (IP66), so it can be installed directly on an outdoor wall or ceiling. The dome cover is coated with a hydrophilic coating, so good visibility is obtained even when it rains.

SPECIFICATIONS

Power Source		PoE+ (IEEE802.3at) or 60W injector
Power Consumption		23.0 W: PoE+ (DC 54 V, 426 mA) 48.8 W: 60 W injector (DC 54 V, 904 mA)
Voice Input		1 system unbalanced line/mic (switched by software) ø3.5 mini jack (monaural) Line: -10 dB (*1), Input impedance 10 kΩ Microphone: -60 dB (*1), Input impedance 2.2 kΩ Power supply for microphone: +15 V/for microphone unit N-MC10 (set with switch) Power supply: Phantom power/microphone power line (set by switch) (*2)
Audio Output		1 system -10 dB (*1), Applicable load impedance 10 kΩ or more Unbalanced ø3.5 mini jack (monaural)
Contact input		3 systems, no-voltage make contact input, open voltage: DC 3.3 V, short-circuit current: 10 mA or less, loop resistance 200 Ω or less
Contact output		1 system open collector output, withstand voltage: DC 30 V, allowable current: 50 mA
Number of preset registrations		255+ home operation
Automatic operation		Auto pan, tour (4 patterns)
Camera	Image Sensor	1/2.8 type CMOS
	Effective number of pixels	1936 (H) x 1100 (V) 2.12 million pixels
	Scanning method	Progressive
	Minimum subject illuminance	[When color night mode function is enabled] 0.0002 lx (50%, color, F1.6, slow shutter off) [When color night mode function is disabled] 0.01 lx (50%, color, F1.6, slow shutter off) 0.004 lx (20%, color, F1.6, slow shutter off, converted value) 0.0003 lx (20%, color, F1.6, slow shutter 15/30 seconds, converted value) 0.0002 lx (50%, black and white, F1.6, slow shutter off)
	Dynamic range	100 dB or more (wide dynamic: at HIGH)
	Slow shutter (sensitivity increased)	Off, maximum 2/30 seconds, maximum 3.75/30 seconds, maximum 7.5/30 seconds, maximum 15/30 seconds
	Shutter speed	Automatic, flickerless, fixed at 1/100 seconds, fixed at 1/120 seconds, fixed at 1/250 seconds, fixed at 1/500 seconds, fixed at 1/1000 seconds, fixed at 1/2000 seconds, fixed at 1/4000 seconds, fixed at 1/10000 seconds fixed
	White balance	ATW1/ATW2/AWB/Sodium lamp/Mercury lamp

SPECIFICATIONS

Camera	Wide dynamic	Off, E-WDR, LOW, HIGH
	Image quality correction	Off, backlight correction, fog correction, strong light correction
	Electronic zoom	12 times
	Auto focus	Stop AF/Fixed (preset)
	Character display	Event-linked message, stream information, date and time, name, preset, sector
	Function	Brightness (9 levels), color depth (9 levels), enhancer (9 levels), digital noise reduction (2 levels), AGC, day/night switching (always day, auto (day priority), auto (standard), always night, schedule)
Lens	Zoom magnification	30 times
	Focal length	f=4.3~129.0 mm
	Maximum angle of view	[Shooting mode 16:9] Horizontal: 63.7° (W) ~ 2.3° (T), Vertical: 37.8° (W) ~ 1.3° (T) [Shooting mode 3:2] Horizontal: 52.9° (W) ~ 2.1° (T), Vertical: 37.8° (W) ~ 1.3° (T) [Shooting mode 4:3] Horizontal: 48.3° (W) ~ 1.6° (T), Vertical: 37.8° (W) ~ 1.3° (T)
	Maximum aperture ratio	1:1.6-4.7
	Focus range	WIDE end: 0.1 m to infinity TELE end: 1.5 m to infinity
Swivel Base	Rotation range	Horizontal: 360° (endless) Vertical: +5° to -185°
	Rotational speed	Preset maximum 400°/s (manual maximum 150°/s)
Network	Network I/F	10BASE-T/100BASE-TX automatic/fixed: RJ45
	Network protocol	TCP, UDP, RTP, RTCP, RTSP, IGMP, HTTP, HTTPS, FTP, NTP, SNMP, SMTP, SSL/TLS, RTMP
	Image compression method	Streams 1, 2, 4: H. 265, H. 264 Stream 3: JPEG
	Image size (resolution)	[Shooting mode 16:9] Stream 1,4: 1920 x 1080, 1280 x 720, 640 x 360, 320 x 180 Stream 2: 1280 x 720, 640 x 360, 320 x 180 Stream 3: 1920 x 1080, 1280 x 720, 640 x 480, 640 x 360, 320 x 240, 320 x 180 [Shooting mode 3:2] Stream 1-4: 720 x 480 [Shooting mode 4:3] Stream 1,3,4: 1280 x 960, 640 x 480, 320 x 240 Stream 2: 640 x 480, 320 x 240
	Image quality	6 stages
	Frame rate	H. 265, H. 264: up to 30 fps JPEG: up to 15 fps
	Bit rate	Maximum 40 Mbps (When using voice function: Maximum 20 Mbps, When using HTTPS function: Maximum 16 Mbps) ※ 1 Mbps=1024 kbps Per stream H.265: 56 kbps to 5120 kbps H. 264: 64 kbps to 8192 kbps JPEG: 32 kbps to 33600 kbps
	Audio compression method	G. 711 μ -law, AAC-LC
	Audio sampling frequency	G. 711 μ -law: 8 kHz AAC-LC: 16 kHz, 32 kHz
	Number of concurrent accesses	14 (when using HTTPS function: 8)

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SD card recording (*3)	Resolution: 1920 x 1080, 1280 x 720, 640 x 360, 320 x 180 Recording rate: max. 15 fps Compression method: H. 264 Compatible SD card: SDXC (*4)
Other features	Tampering detection (*5), Privacy mask (8 locations), Motion detection (3 locations) (*5), Shake correction, Auto flip, Access restriction function, Point view, Zoom view, Sector (direction, area), On-screen character display (alphabet, numbers, symbols, hiragana, katakana, kanji), HTTP(S) event notification function, SD card password lock
Operating temperature limit	When supplying PoE+ power: -15 °C to +50 °C (continuously energized below -10 °C) When using 60 W injector: -40 °C to +50 °C (continuously energized below -30 °C)
Operating humidity range	90% RH or less (no condensation)
Place of use	Indoors, outdoors (excluding coasts and industrial areas with strong corrosive conditions, places with a lot of dust, and high places subject to strong wind pressure)
Dustproof / waterproof performance	IP66
Impact Resistance	20 J (IK10)
Finishing	Case: Polycarbonate black (Munsell N1.0 approximate color) Decorative frame: Polycarbonate black (Munsell N1.0 approximate color) painted Sunshade: ASA resin pearl white paint Dome cover: Polycarbonate (transparent) hydrophilic coat
Dimensions	Camera part external size: Ø209 x 250 (H) mm (Dome part external size: Ø148.5 mm)
Weight	3 kg
Accessories	Camera mounting screws...4, Humidity control sheet...2, L-shaped wrench...1

(*1) 0 dB = 1 V

(*2) Please use the recommended microphone.

(*3) When recording on an SD card, stream 4 is used only for recording.

(*4) SDXC cards of up to 256 GB formatted with this unit can be used. Please use the recommended industrial SDXC card.

(*5) It operates at position no. 1.

SPECIFICATIONS

Hardware	CPU : 4th generation Intel Core i series or later, 4 cores or more Memory : 4 GB or more HDD free space : 50 MB or more LAN : 100 BASE-TX or above Grapics : VRAM 256 MB or higher Display : Resolution 1280 x 768 or higher, High Color (65536 colors) or higher
OS	Windows 7 Professional (32/64 bit) Service Pack1 Windows 8.1 Pro (32/64 bit) Windows 8.1 (32/64 bit) Windows 10 Pro (32/64 bit) Windows 10 Home (32/64 bit) Windows 11 Pro (64 bit) Windows 11 Home (64 bit)
Browser	Internet Explorer 11 (32 bit) Microsoft Edge

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