

Network Camera ME20F-SHN

Specifications

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■ Camera

Image Sensor	35mm full-frame CMOS sensor Effective pixels (approx.): 2,260,000 pixels
Minimum subject illumination (ISO 4,000,000 equivalent)	Less than 0.0005 lux * * Under the following conditions: color, no light accumulation, f/1.2, shutter speed 1/30, 50 IRE, maximum gain 75 dB, custom picture [Off].
Lens Mount	Canon EF mount (Cinema Lock type)
System Frequency	59.94 Hz, 50.00 Hz * * A 1920 x 1080 black video is output on the network connection when selecting a system frequency 50.00 Hz.
Frame Rate (Output from 3G/HD-SDI Terminal or HDMI OUT Terminal)	59.94P, 59.94i *, 50.00P, 50.00i *, 29.97P **, 25.00P, 25.00PsF *, 23.98P * Only when the resolution is 1920 x 1080. ** A 1920 x 1080 black video is output on the network connection when selecting a frame rate other than 29.97P.
Frame Rate (Output from Network Terminal)	JPEG: 0.1 – 30 fps MPEG4-AVC/H.264: 1/2/3/5/6/10/15/30 fps – Only the following combination is available for video output via a network. System frequency: 59.94 Hz, Frame rate: 29.97P, Resolution: 1920 x 1080 – Values represent streaming performance from the camera. – The frame rate may be reduced due to Viewer computer's specs, the number of clients accessing at the same time, network loads, video quality setting, type or movement of the subject or other reasons. Maximum frame rate when used in the following combinations: When streaming H.264(1) (1920 x 1080) and H.264(2) (all sizes) simultaneously: 15 fps When streaming H.264(1) (all sizes) and H.264(2) (1920 x 1080) simultaneously: 15 fps
Exposure	AE shift, light metering modes (standard, spotlight, backlight)
White Balance	Auto, White Balance Set A, White Balance Set B, Daylight, Tungsten, Color Temperature
Iris	Manual (1/2-stop increments, 1/3-stop increments, fine adjustment), push auto iris, automatic aperture (linked with gain, shutter speed and ND filter)
Gain	0.0 – 75.0 dB (3.0 dB increments)
Shutter Speed	1/3 – 1/2000 (specific values depend on the system frequency and frame rate)
Optical filters	ND filter: Built-in (two density levels, 1/8 or 1/64), motor operated, automatic/manual Infrared-cut filter: Motor operated, manual only
Focus	Manual focus, one-shot AF
Lens Correction	Peripheral illumination correction is available for Canon EF lenses – Some Canon EF lenses are not compatible with peripheral illumination correction.
Gamma	Normal (4 types), EOS Std., Wide DR, Canon Log, Crisp Img
AGC Limit	Off (75 dB), 72 – 36 dB (3 dB increments)
Digital tele-converter	2x, 3x, 4x

■ Server

Video Compression Method	JPEG, MPEG4-AVC/H.264
Video Size	JPEG, MPEG4-AVC/H.264: 1920 x 1080, 1280 x 720 * * A 1920 x 1080 black video is output on the network connection when selecting a video size 1280 x 720.
Video Quality	JPEG, MPEG4-AVC/H.264: 10 levels
I-Frame Interval	0.5/1/1.5/2/3/4/5 sec.
Simultaneous Client Access	Max. 30 Clients + 1 Admin Client – H.264: Max. 10 Clients
Bit Rate Control	Target Bit Rate: 64/128/256/384/512/768/1024/1536/2048/3072/4096/6144/8192/10240/12288/14336/16384 kbps
ADSR: Area-specific Data Size Reduction	Number of Specified Areas: Max. 8 areas Data Size Reduction Level: 3 levels
Security	Camera Control: Administrator, Authorized user, Guest user (level of control varies depending on user) Access Control: User authority (user name and password), Host Access Restrictions (IPv4, IPv6) IEEE802.1X: EAP-MD5, EAP-TLS, EAP-TTLS, EAP-PEAP Encrypted Communications: SSL/TLS, IPsec
Protocol	IPv4, IPv6, TCP/IP, UDP, HTTP, FTP, SNMPv1/v2c/v3 (MIB2), DHCP, DNS, AutoIP, mDNS, ARP, ICMP, POP3, NTP, SMTP, RTP/RTCP, RTSP, SSL/TLS, IPsec, ONVIF, WV-HTTP (Canon proprietary)
ONVIF Profile	Profile-S, Profile-G
Audio Compression Method	G.711 μ -law (64 kbps)
Audio Communication Method	Full-duplex (two-way)/half-duplex RTP, Sound Transfer Protocol by Canon
Privacy Mask	Number of registration: Max. 8 places, Number of mask colors: 1 (select from 9 colors)
Preset	Number of registers: Max. 20 positions (+Home Position)
Intelligent Function (Video)	Moving Object Detection, Abandoned Object Detection, Removed Object Detection, Camera Tampering Detection, Passing Detection, Intrusion Detection Detection Settings: Max. 15 Non-detection Area Settings: Available
Event Trigger Type	External Device Input, Intelligent Function (Video), Timer, Infrared Switching
Log Notification	SMTP (e-mail)
Image Cropping Function	Digital PTZ Cropping sizes: 640 x 360/512 x 288/384 x 216/256 x 144/128 x 72
On-Screen Display	Available German/English/Spanish/French/Italian/Russian/Turkish/Japanese
Daylight Saving Time	Available
Language	German/English/Spanish/French/Italian/Russian/Turkish/Japanese

■ Interface

Network Terminal	LAN x 1 (RJ45, 100Base-TX (auto/full-duplex/half-duplex))
3G/HD-SDI Terminal	BNC jack, output only, 0.8 Vp-p/75 Ω, unbalanced; onscreen displays can be output 3G-SDI: SMPTE 424, SMPTE 425, SMPTE ST 299-2 HD-SDI: SMPTE 292, SMPTE ST 299-1
HDMI OUT Terminal	Type A, output only; onscreen displays can be output 1080P/1080i/720P/576P */480P * * A 480P/576P video signal is output only when a monitor that supports only 480P/576P is connected to the camera.
MIC Terminal	φ3.5 mm stereo mini jack (power can be supplied to a plug-in power microphone) Supplied power: 2.8 V DC (bias resistance 2.2 kΩ) Input Impedance: -72 dB (full scale -18 dB)/600 Ω
REMOTE Terminal	φ2.5 mm stereo sub-mini jack
LENS Terminal	Circular 12-pin jack
External Device I/O Terminal	Input x 1, Output x 1, RS-422/RS-485 x 1
Memory Card	microSD Memory Card, microSDHC Memory Card, microSDXC Memory Card Compatible. Recorded Content: Log, Video (Event, Manual, ONVIF, Timer, Upload) Frame Rate: Max. 1 fps (JPEG) Max. 30 fps (H.264) – Only the following combination is available for recording video to a memory card. System frequency: 59.94 Hz, Frame rate: 29.97P, Resolution: 1920 x 1080 – To insure reliability in the recording speed, it is recommended to use CLASS 10 rated products. Even when using CLASS 10 products, reliability cannot be guaranteed during heavy access loads (e.g., when recording and deleting data at the same time).

■ Other

Power Supply	PoE: PoE+ power supply via LAN connector (IEEE802.3at Type2 compliant) – PoE cannot be used. – Some lens may not operate due to a power shortage when using PoE+. External power source: 11 – 17 V DC
Power Consumption (camera body only)	PoE+: Max. approx. 18.0 W * DC: Max. approx. 16.0 W * Class 4 power sourcing equipment (requests 30.0 W)
Operating Temperature	0°C – +40°C (+32°F – +104°F)
Storage Environment	Temperature -30°C – +60°C (-22°F – +140°F) Humidity 5% – 90% (without condensation)
Dimensions (W x H x D, excluding protrusions)	Approx. 102 x 116 x 113 mm (4.0 x 4.6 x 4.4 in.)
Weight (camera body only)	1300 g (2.87 lb.)

Physical Measurements

