

Network Camera ME20F-SHN**Camera****Image Sensor**

Sensor	35mm Full Size CMOS Sensor
Filter	RGB Primary Colour Filter (Bayer array)
Effective pixels per sensor	Approx. 2.26MP (2000 x 1128)
Minimum illumination	0.0005 lux or less (Gain 75dB, f/1.2, shutter speed 1/30, 50 IRE, custom picture [Off])
Horizontal Resolution	Depending on selected lens

Lens

Lens Mount	Canon EF mount with Cinema Lock
ND filter	Yes, 2 density (1/8, 3 stops or 1/64, 6 stops) Manually selected electronic control
Focus control	Manual Focus, One Shot AF
Iris control	Manual; 1/2 stop increments, 1/3 stop increments, fine adjustment. Push Auto Iris via assignable button. Auto (combined function combining Iris, Gain, Shutter and ND filter operation)
Aperture range	Depending on selected lens
Filter diameter	Depending on selected lens
Image stabilization system	No
Digital Tele Converter	Yes : X2/X3/X4 tele converter

Image Processor

Type	DIGIC DV 4
Sampling accuracy	YbCbCr 422 via 3G/HD-SDI; RGB 444, YCbCr 444, YCbCr 422 via HDMI
Bit depth	10 bit (8 bit effective)

Network processor

Type	DIGIC NET II
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Server	
Simultaneous Client Access	Max. 30 Clients + 1 Admin Client – H.264: Max. 10 Clients
Bit Rate Control	Variable bit rate / Constant bit rate 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	Digital PTZ and Camera setting Number of registration: Max. 20 positions (+Home Position)
Intelligent Function (Video)	Moving Object Detection, Abandoned Object Detection, Removed Object Detection, Camera Tampering Detection, Passing Detection, Intrusion Detection Number of registration: 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	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

Video output	
Network Terminal	
Video Compression Method	JPEG, MPEG4-AVC/H.264
Video Quality	10 levels
Video size and Frame Rate	<p>JPEG: 1920 x 1080: 0.1 – 30 fps MPEG4-AVC/H.264: 1920 x 1080: 1/2/3/5/6/10/15/30 fps</p> <p>– 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.</p> <p>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</p>
I-Frame Interval	0.5/1/1.5/2/3/4/5 sec.
3G/HD-SDI or HDMI Terminal	
Video size and Frame Rate	<p>3G/HD-SDI Output: 1920x1080: 59.94P/59.94i/50P/50i/29.97P/25P/23.98P 1280x720: 59.94P/50P/29.97P/25P/23.98P HDMI Output: 1920x 1080: 59.94P/59.94i/50P/50i/29.97PsF/25PsF 1280x720: 59.94P/50P 640x480: 59.94P 768x576: 50P</p> <p>* A 1920 x 1080 black video is output on the network connection when selecting a frame rate other than 29.97P</p>

System	
Inputs/Outputs	
Automatic Exposure Setting	Shutter Priority, Aperture Priority, Auto Gain Control (AGC)
Audio IN	3.5mm stereo mini jack, plug-in power mic supported
Headphone output	No
Video output	Yes, Ethernet x 1 (RJ45, 100Base-TX (auto/full-duplex/half-duplex)) , 3G/HD-SDI (BNC) , HDMI.
Ethernet	Yes (RJ45, 100Base-TX (auto/full-duplex/half-duplex))
HDMI output	Yes
USB	No
3G/HD-SDI output	Yes, OSD compatible.
Time code	No
Genlock	No
Component out	No
AV terminal	No
DC input	Yes. 2-Pin connection. Input voltage 11 - 17V
Lens Terminal	Yes, 12-pin connector
Remote Control Terminal	Yes, 2.5mm mini jack (Canon Unique Protocol)
Alarm IN/OUT	Input x 1, Output x 1
Serial Port	RS-422/RS-485 x 1
Memory Card connector	1x microSD Memory Card (for recording) – microSD Memory Card, microSDHC Memory Card, microSDXC Memory Card Compatible. 1x microSD Memory Card (for firmware update only, no recording capability)
Colour Bars	Yes, SMPTE, EBU and ARIB depending on system frequency
Misc	
Tally lamp	No
Custom key	No
User Assigned Functions	Yes, 4 buttons. Assignable items: One-Shot AF / Push Auto Iris / ABB / AE Shift + / AE Shift - / Color Bars / Aspect Marker / Set WB / Tele-converter / Infrared / External Rec / Custom Picture / Camera Mode A/M. Assignable button 4 is located on the optional RC-V100 Remote Controller.
Custom Dial	No

Shooting functions	
Exposure	
Exposure metering	Backlight, Standard, Spotlight
Exposure compensation	Yes: ± 2.0 , ± 1.75 , ± 1.50 , ± 1.25 , ± 1.0 , ± 0.75 , ± 0.50 , ± 0.25 or ± 0
Exposure Lock	No
Auto Gain Control setting	Yes, OFF (75dB) or value from 36dB to 75 dB (in 3 dB increments)
ISO Sensitivity	Maximum in excess of ISO 4,000,000 equivalent at -75dB
Dynamic Range	Canon Log/Wide DR mode: 800%/12 stops at +9.0dB (Approx. ISO2300)
Gain setting	0dB to -75dB in 3dB intervals.
Shutter speed	
Control Modes	Manual 1/4 stop increments, Auto (combined function combining Iris, Gain, Shutter and ND filter operation)
Shutter speed	1/3 sec - 1/2000 sec depending on system frequency and frame rate
Shutter Angle	No
Slow Shutter (SLS)	Yes
Scan Reverse	Yes
Clear Scan	No
Infrared	
Infrared shooting mode	Yes: IR Cut-out filter, electrically operated, manual only
Built-in IR lamp	No
White balance	
Auto	YES
Preset	Daylight/Tungsten/Color Temperature
Shockless WB	Yes, via Custom Function Menu
Manual setting	Set A, Set B (Default 5,500K) Kelvin (2,000K - 15,000K)
Custom Picture	
Custom Picture Options	Ten Custom Picture options: Canon Log, Wide DR, EOS Standard, Blue Scr, Green Scr, Crisp Img, CP1 - CP4. User customisable settings: Black, Black Gamma, Knee, Sharpness, Noise Reduction, White Balance
Time Code	
Countup system	No
Start value setting	No
Audio	
Input	Linear PCM 48 kHz 16-bit digital conversion, 2 channels
Accessories	
Supplied	Power connector (L-shaped) Power connector (straight)
Optional	RC-V100 remote Control Unit, Tripod Adapter RB-1
Power Input	
Power Supply	PoE+ power supply via Ethernet connector (IEEE802.3at Type2 compliant) DC 11 – 17 V – Some lens operates only on DC power supply
Power Consumption (camera body only)	PoE+: Max. approx. 17.5 W * (TBC) DC: Max. approx. 15.0 W (TBC) * Class 4 power sourcing equipment (requests 30.0 W)
Miscellaneous	
Dimensions (excluding protrusions)	Approx. 102mm x 116mm x 113mm (W xH x D) 4.0 x 4.6 x 4.4 inches
Weight (camera only)	Approx. 1.3 kg (2.87 lb)
Operating Temperature range	0 to 40°C
Storage Temperature range	Temperature -30°C – +60°C Humidity 5% – 90% (without condensation)

Application	
Operating Environment	Setting page, Viewer
Language	German/English/Spanish/French/Italian/Russian/Turkish/Japanese
PC	CPU (Recommended): Intel Core i7-2600 or higher Graphics Board (Recommended): Not specified Memory (Recommended): 2 GB or higher Viewer Display (Recommended): 1920 x 1080 or higher
OS and Compatible Web Browser	Windows 7 Ultimate/Windows 7 Professional/Windows 7 Enterprise/Windows 7 Home Premium SP1 32/64-bit; Internet Explorer 11 32/64-bit, Chrome 61*2 Windows 8.1/Windows 8.1 Pro/Windows 8.1 Enterprise 32/64-bit*1; Internet Explorer 11 32/64-bit, Chrome 61*2 Windows 10 Pro/Windows 10 Enterprise/Windows 10 Education/Windows 10 Home 32/64-bit; Internet Explorer 11 32/64-bit, Microsoft Edge*2, Chrome 61*2 Windows Server 2008 Standard SP2 32/64-bit; Internet Explorer 9 32-bit Windows Server 2008 R2 Standard SP1 64-bit; Internet Explorer 11 32/64-bit, Chrome 61*2 Windows Server 2012 Standard 64-bit*1; Internet Explorer 10 32/64-bit, Chrome 61*2 Windows Server 2012 R2 Standard 64-bit*1; Internet Explorer 11 32/64-bit, Chrome 61*2 Windows Server 2016 Standard 64-bit; Internet Explorer 11 64-bit, Chrome 61*2 *1 Cannot be started from the Windows start screen *2 Does not support playback of Video (H.264) or audio transmission/reception – Must be configured to allow use of JavaScript, IFRAME (html tag), and web storage – For Camera Viewer only, cookies must be enabled
Operating System Language	German/English/Spanish/French/Italian/Russian/Turkish/Japanese
All specifications are subject to change without notice	