ME20F-SH

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Capture ultra low light footage as 'never seen before' in colour and IR

Compact and lightweight this innovative full-frame, Full HD video camera delivers ultra low light performance and infrared capability at unrivalled sensitivity, over ISO 4 million (+75dB), to open up a new world of creative shooting possibilities.

FULL **HD** 1080   **WIDE** DR Gamma   CANON DIGIC DV4

- Ultra low-light performance at ISO 4 million
- High quality Full HD 1080p / 1080i / 720p output
- Flexible control with auto and custom settings
- Compatible with a wide range of EF lenses*
- Remote control of camera settings and built-in ND and IR cut filters possible
- Small and lightweight for ease of integration

  * A list of compatible lenses to be confirmed

RANGE

ME20F-SH

ME200S-SH

RC-V100

ME20F-SH
ME200S-SH
RC-V100

Canon

Technical Specifications

ME20F-SH

CAMERA

IMAGE SENSOR

Sensor	35 mm 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, 29.97P, 50 IRE)
Horizontal Resolution	Depends on the lens used.

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. Auto ND option.
Focus control	Manual Focus using lens or via RC-V100 Remote Control; One Shot AF via assignable button
Iris control	Manual; 1/2 stop increments. 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	Depending on selected lens
Digital Tele Converter	Yes : X2 / 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)

RECORDING

Video storage media	External Recording Device
Recording file format	Depending on External Device
Recording frame rate	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
Slow/Fast motion	No
Interval Record	No
Frame Record	No
Pre Record (cache record)	No
Scan Reverse	No
Custom Picture Options	Nine Custom Picture options: Canon Log, Wide DR, EOS Standard, CP1 - CP6 . User customisable settings: Black, Black Gamma, Knee, Sharpness, Noise Reduction, White Balance. Adjustable for Chroma Key performance[2]
HD->SD conversion	No

SYSTEM

INPUTS/OUTPUTS

Automatic Exposure Settings	Shutter Priority, Aperture Priority, Auto Gain Control (AGC)[2]
Audio in	3.5mm stereo mini jack, plug-in power mic supported
Headphone output	No
Video monitor output	Yes, 3G/HD-SDI (BNC) OSD output compatible, HDMI. 25PsF option via mon out
HDMI	Yes. Output only,
USB	No
3G/HD-SDI output	Yes, X2; Output 1 OSD compatible, Output 2 Clean output only.
Time code	No
Genlock	Yes, input only, BNC
Component out	No
AV terminal	No
DC input	Yes. 4-Pin XLR, 2-Pin connection. Input voltage 11 - 17V
Lens Terminal	Yes, 12-pin connector[1]
Remote Control Terminal	Yes, x2: Remote A: 2.5mm mini jack/Remote B: Circular 8-pin. Both utilise Canon Unique Protocol.
Memory Card connector	Yes, microSD 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 - / Bar / Set WB /Tele-converter / Infrared / External Rec / Custom Picture / Camera Mode A / M. These items work with the 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 - 1/200 sec depending on recording mode and system frequency
Shutter Angle	No
Slow Shutter (SLS)	No
Scan Reverse	Yes
Clear Scan	No

INFRARED

Infrared shooting mode	Yes: IR Cut-out filter, electrically operated.
Built-in IR lamp	No

WHITE BALANCE

Auto	Yes
Preset	Daylight / Tungsten
Shockless WB	Yes, via Custom Function Menu
Manual setting	Set A, Set B (Default 5,500K) Kelvin (2000K - 15000K)

TIME CODE

Countup system	No
Start value setting	No

AUDIO

Recording	Linear PCM 48 kHz 16-bit digital conversion, 2 channels

ACCESSORIES

Supplied	2-pin Power Connector
Optional	RC-V100 remote Control Unit, Tripod Adapter RB-1, RS-422 8-pin remote cables RR-10 (10m)/ RR-100 (100m) AC-E19 Compact Power Adapter

POWER INPUT

Operating Voltage	DC: 11 - 17V via 4-pin XLR or 2pin connector
Power Consumption	Approx 12W (Body Only)

MISCELLANEOUS

Dimensions	102 mm x 116 mm x 113 mm (W xH x D) 4.0 x 4.6 x 4.4 inches
Weight (camera only)	Approx. 1.1 kg (2.4 lbs)
Operating Temperature range	Approx. 0 to 40°C, 85% (relative humidity), Approx. -5 to 45°C, 60% (relative humidity)

Disclaimers

[1] Connector activation requires firmware update

[2] Firmware upgrades may be required to enable all camera features.

Visit the Canon Support website for more information, or contact your local Canon representative.

All specifications are subject to change without notice

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Sales Start Date: December 2015

Product Details:

Product Name	Mercury Code	EAN Code
ME20F-SH	1002C003AA	4549292059823
AC-E19	1171C003AA	4549292068795
RC-V100	9660B001AA	4549292014013
RR-10	1185C001AA	4549292061703
RR-100	1186C001AA	4549292061710

Measurement / Logistic Information:

Product Name	Mercury code	Pack type	Pack description	Quantity per pack	Length (mm)	Width (mm)	Height (mm)	Gross Weight (Kg)
ME20F-SH	1002C003AA	EA	Each	1	274	247	263	1787g
		CT	Carton	2	513	293	302	

What's in the box?

• ME20F-SH
• Power connector
• Instruction Manual (English/French)
• Instruction Manual (German)
• Guarantee
• Guarantee (EUR)