



## CANON ME20F-SH MULTI-PURPOSE CAMERA

Canon's new ME20F-SH Multi-Purpose Camera features a newly designed Canon 2.2MP high sensitivity CMOS sensor, along with Canon's DIGIC DV 4 image processor, enabling users to shoot crisp, clean, high definition, full-color video in extreme low light conditions. The camera's versatile, rugged, modular design, combined with a 35mm full frame CMOS sensor with an equivalent sensitivity in excess of ISO 4,000,000, make it ideal for a wide variety of markets.

### KEY FEATURES

- 0.0005 lux (min. scene illumination)
- 12 Stop Dynamic Range
- 1080P / 720P Video to 60fps
- 3G/HD-SDI Terminals
- HDMI Terminal
- Compatible with EF-mount lenses
- Push Auto Iris
- One-Shot AF
- Auto Exposure
- Built-in Motorized ND Filters
- Motorized IR Cut Filter for Infrared Shooting
- Digital Teleconverter
- RS-422 Remote Control Terminal

### APPLICATIONS

- Cinema
- Security
- Documentary
- Law Enforcement
- Reality
- Military
- Television
- Scientific
- Astronomy
- Nature and Wildlife
- Underwater

# ME20F-SH MULTI-PURPOSE CAMERA

PRODUCT NAME: ME20F-SH

ITEM CODE: 1002C002

UPC CODE: 013803 271249

## SPECIFICATIONS

IMAGE SENSOR	SENSOR	35mm Full Frame CMOS (16:9 extract)
	TOTAL PIXELS	Approx. 2.59M (2160 x 1200)
	EFFECTIVE PIXELS	Approx. 2.26M (2000 x 1128)
	RESOLUTION	1920 x 1080, 1280 x 720
	PIXEL SIZE	19µm x 19µm
	MIN. SUB. ILLUM.	0.0005 lux or less (at 75dB, F1.2, 29.97P, 50IRE)
	COLOR FILTER ARRAY	RGB Bayer
LENS SYSTEM	CANON EF MOUNT	Cinema Lock type
	CANON EF LENSES	EF, EF-S & Cinema (EF) (compatible lenses to be confirmed)
INPUT TERMINALS	GEN LOCK	Black burst or Tri-level reference
	MICROPHONE	φ3.5mm stereo mini jack (plug-in power mic supported)
	REMOTE CONTROL	Remote A: φ2.5mm stereo mini jack (Canon protocol) Remote B: Circular 8-pin for RS-422 (Canon protocol)
OUTPUT TERMINALS	3G/HD-SDI	Terminal 1 (On screen display optional) Terminal 2 (Clean out only) Bit Depth: YCbCr422 10bits (effective bits: 8) Frame Rates: 1920 x 1080: 59.94P/59.94i/50P/50i/29.97P/25P/23.98P 1280 x 720: 59.94P/50P/29.97P/25P/23.98P *Cannot set framerate and output size separately by SDI and HDMI.
	HDMI	Terminal 1 (On screen display optional) Bit Depth: RGB444, YCbCr422, YCbCr444 (effective bits: 8 for each format) Frame Rates: 1920 x 1080: 59.94P/59.94i/50P/50i/29.97P/25P/23.98P 1280 x 720: 59.94P/50P/29.97P/25P/23.98P *Cannot set framerate and output size separately by SDI and HDMI. **640 x 480: 59.94P & 768x576: 50P will be output when connected with a monitor that support 480P and 576P inputs. Cannot be set from the menu and the on screen display will not show.
EXPOSURE MODES	AUTO EXPOSURE (AE)	Iris, Gain, Shutter and ND filter operating together (Cannot set auto/manual separately) AE shift/AE response selectable AGC limit can be set from 36dB to Off/75dB (3-dB intervals)
	MANUAL	Iris: 1/2 stops (push auto iris can be set to an assign button) Gain: 0dB to 75dB @ 3-dB intervals (approx. ISO 4,560,000 equivalent at 75dB) Shutter: 1/3 to 1/2000 (1/4 stops)
IMAGE CONTROL	FOCUS CONTROL	Manual focus (when used with RC-V100) ONE SHOT AF (can be set to an assign button)
	W/B	AWB (2,000K-15,000K), Daylight, Tungsten, Custom Set A, Custom Set B
	OPTICAL FILTERS	ND filters: 1/8 & 1/64 Built-in (auto or motorized manual) IR cut filter: On/Off (motorized manual)
	DIGITAL TELECONVERTER	2x, 4x
	CUSTOM PICTURE SETTINGS	EOS Standard, Wide DR, Canon Log, Custom 1-6
	OTHER FUNCTIONS	Auto black balance, color bar, test tone (interlocking with color bar), assign buttons, peripheral illumination correction, focus limit, crop for EF-S Lens, scan reverse, flicker reduction, noise reduction, time display, hour meter
POWER INPUT	TERMINALS	XLR 4-pin or terminal block 2-pin jack
	INPUT	DC +11V ~ +17V
	CONSUMPTION	Power consumption Approx. 12W (body only)
OTHER	OPERATING TEMPERATURE	Approx. 0 - 40° C (32-104° F)
	DIMENSIONS	4.0 x 4.6 x 4.4 in. (102 x 116 x 113mm)
	WEIGHT	Approx. 2.4 lbs. (1,100g)
	INCLUDED IN THE BOX	ME20F-SH, 2-pin DC Power Contact
	RELATED ACCESSORIES	Canon RC-V100 Remote Controller, Canon EF Lenses

### EXCEPTIONAL LOWLIGHT PERFORMANCE

The ME20F-SH Multi-Purpose Camera features a newly developed Canon full frame 35mm CMOS sensor with an equivalent sensitivity in excess of 4,000,000 ISO. Able to capture full color 1080p video up to 60fps, the ME20F-SH camera is ideal when shooting in extreme low light environments.

### LARGE PHOTO SITES

The 35mm full-frame CMOS image sensor was specifically developed to shoot Full-HD video in low light, by increasing the light-sensing surface area of each pixel on the sensor. Photo sites measuring 19 micrometers square allow for exceptional low light performance, with a minimum subject illumination of below 0.0005 (at maximum 75 dB gain).

### FLEXIBLE MULTI-PURPOSE DESIGN

The ME20F-SH Multi-Purpose Camera was designed specifically with many mounting points along the top and bottom of the camera to allow the freedom for users to customize the rigging of the camera for almost any purpose from a minimal compact size to a fully rigged configuration.

### COMPATIBLE WITH EF MOUNT LENSES

The ME20F-SH Multi-Purpose Camera is compatible with Canon's line of

EF mount lenses. The camera comes equipped with a Canon locking EF mount, allowing the lens to be attached or removed without the need to rotate the lens barrel. This facilitates changing lenses in applications where multiple accessories are attached to the lens.



### REMOTE CONTROL

The ME20F-SH Multi-Purpose Camera can be controlled via either of the two remote terminals offering a mini-pin or RS-422 connection that utilize Canon's OK protocol and is compatible with the RC-V100 Remote Controller.

The front of the camera features a 12-pin lens terminal enabling power connectivity with EF mount CINE-SERVO lenses or 2/3" broadcast lenses with a third party adapter. Support for lens communication will be added in a future firmware update.



RC-V100 Remote Controller

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