

## CANON'S FIRST ULTRA-HIGH-SENSITIVITY MULTI-PURPOSE CAMERA FEATURES ISO EQUIVALENT OF MORE THAN 4,000,000

**MISSISSAUGA, ON., July 30, 2015** — Canon Canada Inc., a leader in digital imaging solutions, today has introduced the Company's first multi-purpose camera, the new ME20F-SH, which delivers exceptionally high sensitivity to capture Full HD video with a minimum subject illumination of less than 0.0005 lux<sup>1</sup> (at maximum 75 dB gain setting, equivalent to an ISO sensitivity of over 4,000,000). Nighttime surveillance and security, cinematic production, reality television, and nature/wildlife documentaries are just some of the ME20F-SH's many possible usage applications. With the ability to capture colour video in extreme low-light conditions and its simplistic and versatile design, the ME-20F-SH Multi-purpose Camera can be easily incorporated into existing infrastructures and systems to provide high-quality video capture even where subjects might not be seen with the naked eye.

Canon's new multi-purpose camera employs an enhanced version of the 35mm full-frame CMOS sensor for Full HD video use that was originally developed by the Company in 2013<sup>2</sup>. Its compact, modular body design allows easy custom configurations for diverse usage scenarios. While capturing video in extreme low-light conditions often requires the use of infrared illumination (a technique that only yields video in black and white), the ME20F-SH camera achieves impressive high-sensitivity performance enabling the capture of colour Full HD video with reduced noise in low-light conditions without the need for infrared illumination.

### **Ultra-High-Sensitivity CMOS Sensor Enables Colour Video Capture in Extreme Low-Light Conditions**

The ME20F-SH camera's CMOS sensor has pixels measuring 19  $\mu\text{m}$  square<sup>3</sup>, which is more than 5.5 times the surface area of the pixels on the CMOS sensor featured in select top-of-the-line interchangeable lens cameras<sup>4</sup>. Furthermore, the sensor's pixels and readout circuitry make use of Canon proprietary technologies to achieve both reduced noise and exceptionally high sensitivity on subjects with a minimum illumination of less than 0.0005 lux. This multi-purpose camera allows users to discern subjects under even some of the dimmest lighting conditions, such as environments lit by artificial illumination or under a moonless night sky. Furthermore, similar to Canon's Cinema EOS System of professional digital cinematography cameras, the ME20F-SH camera includes Canon Log and Wide DR, which make possible a wide dynamic range, delivering high-image-quality video results across a range of illumination environments, from low- to brightly lit conditions.

### **Canon's Diverse Interchangeable EF Lens Lineup Enables Wide Range of Imaging Possibilities**

The new ME20F-SH employs the same EF mount (Cinema Lock type) as Canon's SLR cameras and Cinema EOS System-series of professional digital cameras, allowing users to make use of the Company's extensive lineup of interchangeable EF lenses<sup>5</sup>. By letting users select the ideal lens based on their shooting or application requirements, taking into consideration such factors as angle of view and level of brightness, this multi-purpose camera facilitates a wide spectrum of imaging possibilities.

### **Supports various standard video-recording interfaces**

Employing output-only 3G/HD-SDI and HDMI terminals, Canon's ME20F-SH camera enables users working on location to output video via a single cable to a variety of peripheral equipment, including external recorders and monitors. Equipped with a  $\phi 2.5\text{mm}$  stereo mini-jack and a round 8-pin jack for RS-422, the multipurpose camera is capable of connecting with Canon's RC-V100 Remote Controller (released in June 2014; sold separately)<sup>6</sup>. By allowing users to operate the camera or change settings from a remote location, the camera facilitates video capture from inaccessible locations as well as fixed-point surveillance. Furthermore, a  $\phi 3.5\text{mm}$  stereo mini-jack allows the camera to connect with an external microphone, enabling users working on location to output audio and video signals to connected peripheral equipment.

The Canon ME20F-SH is expected to be available in December 2015 at a suggested retail price of \$36,000.

### **About Canon Canada Inc.**

Headquartered in Mississauga, Ontario, Canon Canada Inc., a wholly owned subsidiary of Canon USA, is a leading provider of consumer, business-to-business and medical digital imaging solutions. Innovation and cutting-edge technology have been essential ingredients in Canon's success. Canon Canada Inc. is committed to the highest level of customer satisfaction and loyalty, providing 100 per cent Canadian-based service and support for all of the products it distributes.

Canon Canada Inc. is dedicated to its Kyosei philosophy of social and environmental responsibility. For more information, please visit: [www.canon.ca](http://www.canon.ca), join us on Facebook at: [www.facebook.com/CanonCanada](http://www.facebook.com/CanonCanada) or follow us on Twitter @CanonCanada.

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1. Compliant with the specification method for CCTV devices (TTR-4602B) issued by the Japan Electronics and Information Technology Industries Association (JEITA). Theoretical value based on the following shooting conditions: colour, no light accumulation, f/1.2, 30P, 50 IRE
2. For more information, please refer to the press release announced on March 4, 2013, available on the Canon Global website: <http://www.canon.com/news/2013/mar04e.html>
3. 1  $\mu\text{m}$  (micrometer) equals one millionth of a meter
4. 19  $\mu\text{m}$  pixel pitch (361  $\mu\text{m}^2$  surface area) compared to 4.88  $\mu\text{m}$  (23.81  $\mu\text{m}^2$ ) of Nikon D810, 8.4  $\mu\text{m}$  (70.56  $\mu\text{m}^2$ ) of Sony Alpha ILCE-A7S, and 6.94  $\mu\text{m}$  (48.16  $\mu\text{m}^2$ ) of Canon EOS-1D X
5. Details regarding supported EF-series interchangeable lenses are scheduled to be made available in mid-December 2015 on Canon's Japanese-language broadcasting and professional video camcorder homepage: [canon.jp/bctv](http://canon.jp/bctv)
6. The RC-V100 requires a firmware update when using the round 8-pin jack for RS-422. Details regarding the firmware are scheduled to be made available in mid-December 2015 on Canon's Japanese-language broadcasting and professional video camcorder homepage: [canon.jp/bctv](http://canon.jp/bctv)

<b>Product name</b>	ME20F-SH Multi-purpose Camera	
<b>Image sensor</b>	35mm full-frame CMOS sensor (single), effective pixel count: approx. 2.26 million pixels	
<b>Minimum subject illumination</b>	Less than 0.0005 lux (at maximum 75 dB gain setting, equivalent to an ISO sensitivity of over four million)	
<b>Pixel Pitch</b>	19 Microns	
<b>Lens mount</b>	Canon EF mount (Cinema Lock type)	
<b>Optical filters</b>	ND filter with two density levels (motorized manual / auto) IR cut filter (motorized manual)	
<b>Frame rates</b>	59.94P / 59.94i / 50.00P / 50.00i / 29.97P / 25.00P / 23.98P	
<b>Gamma</b>	Canon Log, Wide DR, etc.	
<b>Video output terminals</b>	<b>3G / HD-SDI</b>	BNC jack (output only) Terminal count: 2 1080P / 1080i / 720P
	<b>HDMI</b>	HDMI connector (output only)
<b>Genlock terminal</b>	BNC jack (input only)	
<b>Remote terminal</b>	ø2.5mm stereo mini-mini-jack (Canon-proprietary protocol) Round 8-pin jack (for RS-422, Canon-proprietary protocol)	
<b>Microphone terminal</b>	ø3.5mm stereo mini-jack	
<b>AF</b>	One-shot AF	
<b>Auto-exposure</b>	Combined interlocking (iris / gain / ND / shutter)	
<b>White balance</b>	AWB, colour-temperature setting (setting range: 2000 to 15000 degrees Kelvin), natural light, light bulb, Setting A, Setting B	
<b>Digital teleconverter</b>	2x, 4x	
<b>Power input</b>	4-pin XLR DC11-17V Terminal block 2-pin jack DC11-17V	
<b>Operating temperature</b>	32 degrees F (0 degrees C) to 104 degrees F (40 degrees C)	
<b>Body dimensions</b>	Approx. 4 inches (102mm) (w) x 4.5 inches (116mm) (h) x 4.4 inches (113mm) (d) (excluding protrusions)	
<b>Weight</b>	Approx. 2.4 lbs (1.1 kg) (body only)	

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