

# Ultra-High-Sensitivity Camera MS-500

## SEE THE UNSEEN

See distant subjects in the dark and output them in Full HD colour. ULTRA-HIGH SENSITIVITY CAMERA MS-500 combines a high sensitivity, 1-inch type SPAD sensor with a B4 mount that's compatible with Canon's powerful telephoto broadcast lenses. It's a compelling choice for long range monitoring.



- High sensitivity 2.1MP SPAD sensor
- B4 lens mount for exceptional versatility
- Long range colour monitoring, day or night
- Durable and dependable
- Manual and automatic removable IR cut filter
- Remote operation made easy
- Haze Compensation and Smart Shade Control (SSC)



### PRODUCT RANGE



#### ULTRA-HIGH SENSITIVITY CAMERA MS-500

ME20F-SH  
ME20F-SHN  
ML-105 EF  
ML-100 EF

# Canon

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# TECHNICAL SPECIFICATIONS

# Ultra-High-Sensitivity Camera MS-500

<b>Image Sensor</b>	1.0" SPAD Sensor	<b>Focus</b>	Manual, One-shot AF
<b>Total Pixels</b>	Approx. 3,200,000 (3.2MP)		AF frame: Large, small
<b>Effective Pixels</b>	Approx. 2,100,000 (2.1MP)		AF frame position: Center, specified area
<b>Minimum subject illumination</b>	0.001 lux (F1.4 equivalent, colour night mode, shutter speed 1/30 sec, 50 IRE, Maximum Gain)		Off /72.0 - 48.0 dB
<b>Lens Mount</b>	B4 Bayonet lens mount based on BTA S-1005B standards	<b>AGC Limit</b>	Available
<b>Frame Rate</b>	1920 x 1080: 59.94P (Level A/B supported), 59.94i, 50.00P (Level A/B supported) ac, 50.00i, 29.97P, 29.97PsF, 25.00P, 25.00PsF 1280 x 720: 59.94P, 50.00P	<b>Day/Night Switch</b>	Auto / Day Mode / Night Mode
<b>Exposure</b>	Manual, Auto, Av, Tv, AGC AE Shift	<b>Color Bars</b>	SMPTE, ARIB, EBU
<b>Metering Mode</b>	Standard, Spotlight, Backlight, AF frame metering	<b>Smart Shade Control (SSC)</b>	Available
<b>White Balance</b>	Manual (MWB), AWB, White Balance Set A (WB-A), White Balance Set B (WB-B), Daylight (Dytl), Tungsten (Tung), Colour Temperature (Kelv) – Preset setting/color temperature setting: available	<b>Haze Compensation</b>	Available
<b>Auto Black Balance</b>	Available	<b>Diffraction Correction</b>	Available (excluding certain non-supported lenses)
<b>Iris</b>	Manual (control range varies depending on the lens)	<b>Chromatic Aberration Correction</b>	Available (excluding certain non-supported lenses)
<b>Gain</b>	0.0 – 72.0 dB	<b>Digital Zoom</b>	Available (10x max.)
<b>Custom Picture</b>	Crisplmg2 (preset)	<b>On-Screen Display</b>	Yes, Available languages: English / Japanese
<b>Shutter Speed</b>	Frame Rate 59.94P: 1/4, 1/8, 1/15, 1/30, 1/60, 1/75, 1/90, 1/100, 1/120, 1/150, 1/180, 1/210, 1/250, 1/300, 1/360, 1/420, 1/500, 1/600, 1/720, 1/840, 1/1000, 1/1200, 1/1400, 1/1700, 1/2000  Frame Rate 29.97P: 1/4, 1/8, 1/15, 1/30, 1/34, 1/40, 1/48, 1/50, 1/60, 1/75, 1/90, 1/100, 1/120, 1/150, 1/180, 1/210, 1/250, 1/300, 1/360, 1/420, 1/500, 1/600, 1/720, 1/840, 1/1000, 1/1200, 1/1400, 1/1700, 1/2000  Frame rate 50.00P: 1/3, 1/6, 1/12, 1/25, 1/50, 1/60, 1/75, 1/90, 1/100, 1/120, 1/150, 1/180, 1/210, 1/250, 1/300, 1/360, 1/420, 1/500, 1/600, 1/720, 1/840, 1/1000, 1/1200, 1/1400, 1/1700, 1/2000  Frame Rate 25.00P: 1/3, 1/6, 1/12, 1/25, 1/30, 1/33, 1/40, 1/50, 1/60, 1/75, 1/90, 1/100, 1/120, 1/150, 1/180, 1/210, 1/250, 1/300, 1/360, 1/420, 1/500, 1/600, 1/720, 1/840, 1/1000, 1/1200, 1/1400, 1/1700, 1/2000  – 1/600 – 1/2000 can be selected only when the Extended Shutter Speed is ON.	<b>Protocol</b>	Network Protocol: IPv4, IPv6, TCP/IP, UDP, HTTP, DHCP, AutoIP, ARP, ICMP, SSL/TLS Control Protocol: NU (Canon proprietary, Serial), Pelco-D (Serial) RJ45 x 1 (for firmware update only)
<b>Shutter Speed Limit (Lower)</b>	Enable Frame Rate 59.94P: 1/4, 1/8, 1/15, 1/30 Frame Rate 29.97P: 1/4, 1/8, 1/15 Frame Rate 50.00P: 1/3, 1/6, 1/12, 1/25 Frame Rate 25.00P: 1/3, 1/6, 1/12	<b>LAN Terminal</b>	BNC jack (output only) x 1, 0.8 Vp-p/75 Ω, unbalanced
<b>Flicker Reduction</b>	Available	<b>3G/HD-SDI Terminal</b>	3G-SDI: SMPTE 424, SMPTE 425, SMPTE ST 299-2 HD-SDI: SMPTE 292, SMPTE ST 299-1 Time code (VITC/LTC)
<b>Optical filters</b>	ND filter: motor operated insertion-extraction (manual/automatic), 1 density level (Approx. 1/64) IR cut filter: motor operated insertion-extraction (manual/automatic)	<b>GENLOCK Terminal</b>	BNC jack (input only) x 1, 1.0 Vp-p/75 Ω
		<b>REMOTE Terminal</b>	Circular 8-pin jack x 1 (RS-232C / RS-422 / RS-485) switchable by DIP switch
		<b>LENS Terminal</b>	Circular 12-pin jack x 1
		<b>External Device I/O Terminal</b>	Input x 2, output x 2 (for future extension)
		<b>Memory Card</b>	MicroSD card slot x 1 (for future extension, not recordable)
		<b>Power Supply</b>	External power source: 12 – 30 V DC (connector included)
		<b>Power Consumption</b>	23.7W (camera body only)
		<b>Operating Temperature</b>	Temperature Operating temperature range -20°C – +45°C (-4°F – +113°F)  Start-up temperature range -10°C – +45°C (-14°F – +113°F)
		<b>Storage Environment</b>	Temperature -30°C – +60°C (-22°F – +140°F)  Humidity 5% – 90% (without condensation)
		<b>Dimensions (W x H x D)</b>	Approx. 128 x 128 x 184 mm (5.04 x 5.04 x 7.24 in.) (excluding protrusions)
		<b>Weight</b>	Approx. 2.2 kg (camera body only)

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English edition  
Canon Europa NV 2023

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Sales Start Date: September 2023



### PRODUCT DETAILS:

Product Name	Mercury Code	EAN Code
Ultra-High Sensitivity Camera MS-500	9915B001AA	4549292228281

### What's in the box?

- ULTRA-HIGH SENSITIVITY CAMERA MS-500
- Body Cap
- User Manual

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