

**Specifications**

<b>IMAGE SENSOR</b>	
<b>Sensor</b>	1" SPAD Sensor
<b>Total Pixels</b>	3.2M
<b>Effective Pixels</b>	2.1M
<b>Maximum Resolution</b>	1920x1080
<b>Minimum Subject Illumination</b>	0.0006 lux (Color (Night Mode), no light accumulation, f/1.4 equivalent, shutter speed 1/30, 50IRE, maximum gain 84 dB, Custom Picture [CrispImg2])
<b>LENS SYSTEM</b>	
<b>Lens Mount</b>	Bayonet lens mount based on BTA S-1005B standards
<b>TERMINALS</b>	
<b>SDI Terminal</b>	3G/HD-SDI (4:2:2 10-bit) BNC jack (output only) x 1, 0.8 Vp-p/75 Ω, unbalanced 3G-SDI: SMPTE 424, SMPTE 425, SMPTE ST 299-2 HD-SDI: SMPTE 292, SMPTE ST 299-1 Time code (VITC/LTC)
<b>LAN Terminal</b>	RJ-45 for IP Video Streaming and Control
<b>Remote Terminal</b>	RS-232C/RS-422/RS-485 NU Protocol (Canon proprietary, Serial), Pelco-D™
<b>GenLock Terminal</b>	BNC jack (input only) x 1, 1.0 Vp-p/75 Ω
<b>Lens Terminal</b>	Circular 12-pin Jack x1
<b>Ext. Device I/O Terminal</b>	Input x2, Output x2 (for future expansion)
<b>Memory Card</b>	microSD card slot x1 (not recordable, for future expansion)
<b>IMAGE CONTROL</b>	
<b>Focus Control</b>	Manual, One-shot AF AF frame: Large, Small AF frame position: Center, Specified area
<b>Resolution/Frame Rate</b>	<b>Frame Frequency 59.94P:</b> 1920 x 1080: 59.94P*, 59.94i (4:2:2 10 bit) 1280 x 720: 59.94P (4:2:2 10 bit) * 3G-SDI mapping Level A/B supported <b>Frame Frequency 29.97P:</b> • 1920 x 1080: 29.97P, 29.97PsF (4:2:2 10-bit) <b>Frame Frequency 50.00P:</b> • 1920 x 1080: 50.00P*, 50.00i (4:2:2 10-bit) • 1280 x 720: 50.00P (4:2:2 10 bit) *3G-SDI mapping Level A/B supported <b>Frame Frequency 25.00P:</b> • 1920 x 1080: 25.00P, 25.00PsF (4:2:2 10-bit)
<b>Shutter Speed</b>	1/4000s to 1/4s [59.94P], 1/4000s to 1/4s [29.97P], 1/4000s to 1/3s [50.00P], 1/4000s to 1/3s [25.00P]
<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>Exposure</b>	Auto, Tv, Av, AGC, Manual AE Shift
<b>Metering Mode</b>	Standard, Spotlight, Backlight, AF Frame Metering

<b>White Balance</b>	Manual (MWB), AWB, White Balance Set A (WB-A), White Balance Set B (WB-B), Daylight (Dylt), Tungsten (Tung), Color Temperature (Kelv) – Preset setting/color temperature setting: available
<b>Auto Black Balance</b>	Available
<b>Iris</b>	Manual
<b>Gain</b>	0.0-84.0 dB (3.0 – 84.0 dB if gamma is BT.709 Standard, 12.0 – 84.0 dB if Canon 709)
<b>AGC Upper/Lower Limit</b>	Available
<b>Custom Picture</b>	Crisplmg2, BT.709 Standard, Canon 709
<b>Day/Night Switch</b>	Auto/Day Mode/Night Mode
<b>Color Bars</b>	SMPTE, ARIB, EBU
<b>Smart Shade Control (SSC)</b>	Available
<b>Haze Compensation</b>	Available
<b>Diffraction Correction</b>	Available (excluding certain non-supported lenses)
<b>Chromatic Aberration Correction</b>	Available (excluding certain non-supported lenses)
<b>Digital Zoom</b>	Available 10x (Max.)
<b>On-Screen Display</b>	Available (English/Japanese)
<b>IP VIDEO OUTPUT AND CONTROL</b>	
<b>Video Compression</b>	JPEG, MPEG-4 AVC/H.264, H.265/HEVC
<b>Video Size</b>	1920 x 1080, 1280 x 720, 640 x 360, 320 x 180
<b>Video Output Frame Rate</b>	JPEG: 0.1 – 15 fps MPEG-4 AVC/H.264, H.265/HEVC Frame Frequency 59.94P/29.97P: 0.99/4.99/9.99/14.98/29.97/59.94 fps Frame Frequency 50.00P/25.00P: 1/5/12.5/25/50 fps
<b>Network Protocol</b>	IPv4, IPv6, TCP/IP, UDP, HTTP, SNMPv1/v2c/v3 (MIB2), RTP/RTCP, RTSP, DHCP, AutoIP, DNS, mDNS, ARP, ICMP, NTP, SSL/TLS
<b>Control Protocol</b>	ONVIF™ (Profile S), WV-HTTP (Canon proprietary), WVCOM (Canon proprietary)
<b>POWER</b>	
<b>External Power Input</b>	External power source: 12 – 30 V DC (connector included)
<b>Power Consumption</b>	DC input: Max. 23.7 W (camera body only)
<b>OTHER</b>	
<b>Temperature</b>	Operating temperature range: -20°C – +45°C (-4°F – +113°F) Start-up temperature range: -10°C – +45°C (-14°F – +113°F) Storage temperature range: -30°C – +60°C (-22°F – +140°F), 5%-90% Humidity without condensation
<b>Dimensions</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 (4.86 lb.) (camera body only)
<b>Included In Box</b>	MS-510 Camera, Power Supply Connector, Remote Terminal Connector, "Before Using This Camera" Guide, Warranty Card

Additional specifications for MS-510 camera and SPAD sensor available under NDA.