

New Flagship Release · China Launch

FCB-ER9100

Sony 4K 10x Optical Zoom Camera Module

- 4K High Frame Rate: Crystal clear capture with zero motion blur in dynamic scenes
- Advanced Imaging: Sony's proprietary algorithms deliver true-to-life colors even in complex lighting
- Rapid Deployment End-to-end support solutions designed to shorten your integration cycle

Target Markets:
Medical Device Manufacturers | System Integrators | OEMs



1/2.8-inch STARVIS CMOS Sensor

Powered by a Sony STARVIS CMOS sensor, the FCB-ER9100 features a 1/2.8-inch format that balances light sensitivity and body compatibility. Leveraging Sony's advanced sensing technology, it delivers high-definition imaging even in low-light environments, effectively minimizing noise and loss of detail in dim conditions for medical inspection, outdoor operations, and other scenarios, ensuring exceptional low-light image quality.

10x Optical Zoom

Equipped with 10x optical zoom, the Sony FCB-ER9100 maintains sharp and clear imaging for long-distance observation, achieving an ideal balance between field of view and detail rendition. It excels in capturing tiny lesions in medical endoscopy and locking in details for remote monitoring, delivering crisp performance at both close and far distances.

4K/60p Video Output

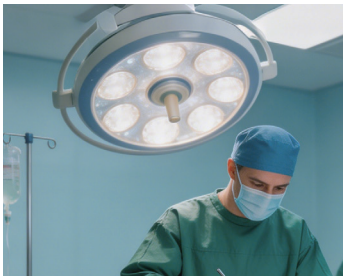
The FCB-ER9100 supports video output at up to 4K/60p. Combining ultra-high definition resolution with high frame rate, it ensures rich image details while eliminating motion blur and stuttering in dynamic scenes. For surgical training, dynamic inspection, and similar applications, every moment is recorded clearly without missing critical frames.

COMPATIBLE INTERFACE BOARDS

			
FCB-ER9100+ 12-SDI Interface Board	FCB-ER9100+4K P60 AI Capable & Addable IP Interface Board	FCB-ER9100+4K P60 HDMI-Compatible Interface Board	FCB-ER9100 +4K HDMI-Compatible to MIPI Interface Board
 (This combination is the ideal choice for commissioning engineers)	Under Development	Under Development	Under Development
FCB-ER9100+LVDS to 4K USB Type-C Interface Board (HDMI- Compatible Loop-Out Supported)			

Note: The images are for reference only. The actual product shall prevail.

TYPICAL APPLICATIONS



Built-in camera system for
surgical lights



Surgical field camera in
operating rooms



Precision imaging for dermatoscopes
and colposcopes



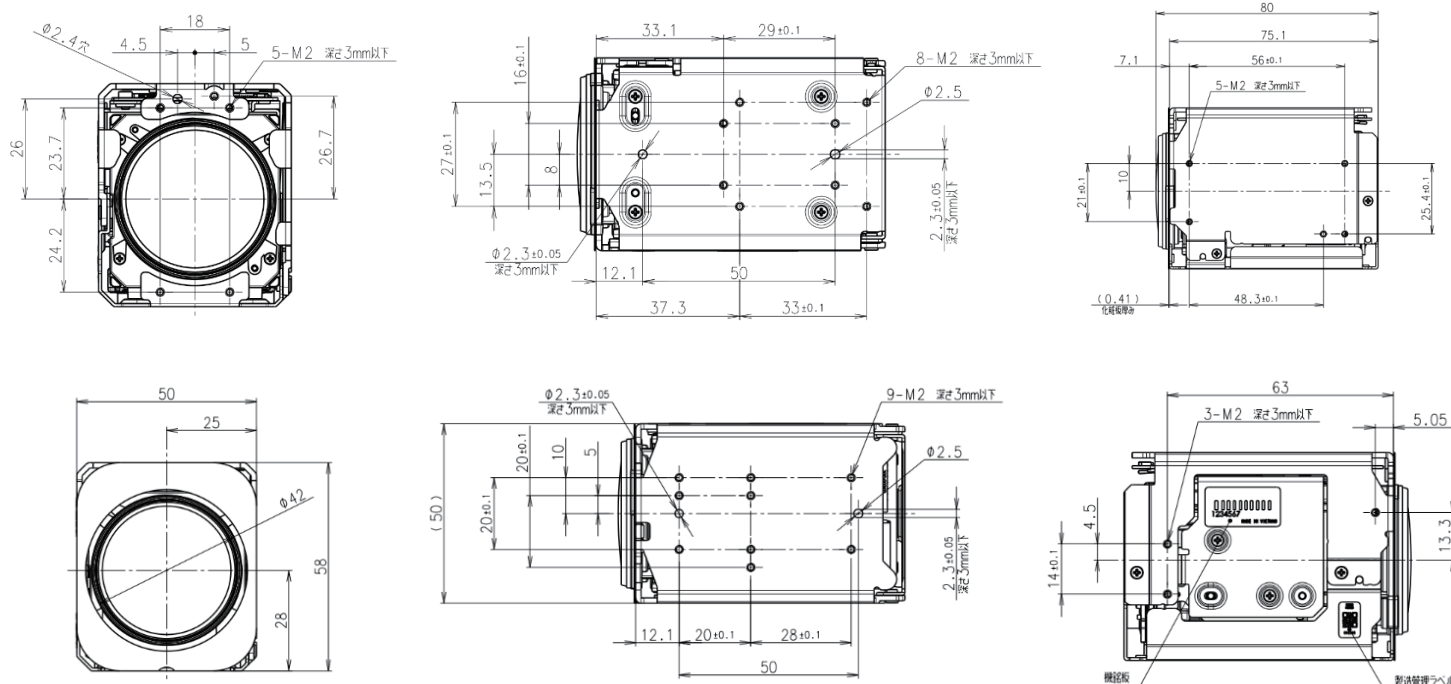
Dental diagnosis & treatment recording and
teaching systems

► COMPARISON OF KEY FUNCTIONS FOR SONY 4K CAMERA BLOCKS

Product Model	FCB-ER9100	FCB-ER9500	FCB-ER8530
Image Sensor	1/2.8" 4K STARVIS™ CMOS Sensor	1/1.8 inch STARVIS™2 CMOS Sensor	1/2.5-type Exmor R CMOS Sensor
Camera Output	2060 60p	2060 60p	2060 30p
Minimum Illumination ICR OFF, 50%, 1/30s	TBD	0.028 lx (HS mode ON) 0.17 lx (HS mode OFF)	0.4 lx (HS mode ON) 1.6 lx (HS mode OFF)
WDR	Yes (2 Frames) as a FW Version UP	Yes (3 Frames)	—
Optical Zoom	10x	25x	20x
Horizontal FOV	Approx 70.0° (TBD)	Approx 59.0°-2.8°	Approx 70.2°-4.1°
EIS	Super Stabilizer	Super Stabilizer	EIS
Optical Axis Gap Compensation	Yes	Yes	—
Spot Focus/AE/AWB	Yes	Yes	Spot AWB unavailable
ICR ON COLOR	Yes	Yes	—
Power Consumption	TBD	5.8W (7.0W during motor operation)	3.0W (4.0W during motor operation)
I/F	HDMI	HDMI	HDMI
Operating Temperature	-5 to +50 deg C (TBD)	-5 to +60 deg C	-5 to +60 deg C
Dimensions	50 × 58 × 80 mm	56 × 64 × 125 mm	50 × 60 × 93.3 mm
Mass	Approx 250g	Approx 464g	Approx 275g

Note: The final product specifications are subject to Sony's official announcement.

► DIMENSIONS



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