

HARSHCAM

HARSHCAM-9520

HarshCam FCB-EV9520L Sony Camera

- FCB-EV9520L Camera Ruggedized by Iberoptics
- 30X Optical zoom
- 1/2.8-type CMOS
- Full HD Model



PRODUCT DESCRIPTION

The HarshCam-7520r is a ruggedized variant of the Sony FCB-EV7520A/EV9520L block camera, engineered for machine-vision applications in severe environments. It retains the same 1/2.8" colour CMOS STARVIS sensor delivering Full-HD (2.13 MP) imagery at 1080p/60 (and multiple 1080i/720p formats), with a 30× optical zoom and up to 12× digital zoom for a combined 360×"super zoom" range. The modifications are entirely internal, fixing the zoom and focus mechanisms, to remain fully boresight-aligned under shock and vibration. The system is verified to withstand impacts up to 40 G for more than 11 milliseconds, compliant with MIL-STD-810 standards, without losing focus or zoom position and operating identically to the original Sony block in footprint and interface.

HarshCam is purpose-built for deployments where image continuity under mechanical stress is critical. Typical applications include military and defence systems (such as armoured vehicle turrets and shooting sights), public safety and law enforcement vehicles, drones and RPAS/UGV/USV platforms, construction and civil-works machinery, disaster-relief rescue vehicles, and sport-event broadcasting in dynamic setups. Key features such as auto ICR day/night switching, wide dynamic range (up to 90–130 dB depending on frame rate), visibility enhancer, defogging, motion detection, privacy masking, noise suppression, slow-shutter modes, and VISCA/RS-232 digital control ensure it performs reliably in low light, high contrast, foggy or vibrating conditions, without compromising the high-quality Full HD video stream.

TECHNICAL DATA

Auto ICR	Yes
Defog	Yes
Dimension (mm)	50.0 x 60.0 x 89.7mm
Field of view	63.7° - 2.4°
Frame rate max	60 fps
Image freeze	Yes
Image stabilization	Yes
Noise reduction	Yes
Optical zoom	30
Power consumption	4 W

Resolution	FHD (1920x1080)
Sensor model	1/2,8 - type Exmor R CMOS
Sensor Type	CMOS
Shutter type	Rolling
Slow AE response	Yes
Slow shutter	No
Spherical privacy zone masking	Yes
Stable zoom	Yes
Supply voltage dc max	12 V DC
Supply voltage dc min	6 V DC
Temperature operational max	60 °C
Temperature operational min	-5 °C
Weight	250 kg
Wide dynamic range	Yes
Wide-D	Yes
Video format	1080p
Visibility enhancer	Yes
Zoom digital	12