

EWC

ENVIRONMENTAL WEB CAMERA

- Designed for X3 data logger systems
- Integrated cellular modem & antenna
- Wi-Fi embedded web for configuration
- Rugged IP68 waterproof enclosure



The **EWC** Environmental Web Camera is designed for capturing and transmitting videos and still images on remote NexSens monitoring stations. The camera simply plugs into the sensor port of an **X3** Data Logger for deployment on data buoys, tide gauges, weather stations, and more. Low power consumption means that the **EWC** can be added to existing systems without requiring changes to the power supply.

EWC is flexible and efficient at optimizing high-quality visuals. Video can be sized up to 1080p and images to 8MP. An internal USB flash drive stores high-resolution files, while lower-resolution files are transmitted on time-based intervals via 4G LTE cellular telemetry along with measurement parameters to **WQData LIVE**.

Housed in a marine anodized aluminum enclosure with a scratch-resistant lens and waterproof connections, the **EWC** is ideal for deployment in harsh conditions without the fear of moisture ingress. Optional mounting brackets are available to support both buoy-based and pole-mounted configurations.

specifications

Weight	3lbs (1.36kg)
Dimensions	2.95" (7.49cm) OD, 9.812" (24.92cm) Length, 6.625" (16.83cm) Height (includes antenna)
Power Requirements	5 to 16VDC, 2A
Current Draw	>1mA sleep, 400mA active, 1.75A peak powerup
Operating Temperature	-20-60 °C
Rating	IP68
Interface	RS-485, Wi-fi access point (for configuration only) - embedded antenna
Protocol	Modbus RTU over RS-485
Speed	Up to 64 kbps with RS-485, 2.4GHz 802.11b/g/n (Wi-fi)
Connector	UW6
Storage	USB flash memory, 64GB standard
Sensor Interface	Modbus RTU over RS-485
Lens	Fix focus 1m to infinity
Focal Length	3.04mm
F-Stop	F2.0
Horizontal FOV	62.2 degrees
Vertical FOV	48.8 degrees
Still Resolution	8 Megapixels
Video	1080p, 1640 x 1232, 640 x 480
Video Frame Rate	Default 30 (adjustable)
Image Sensor	Sony IMX219
Sensor Resolution	3280 x 2464
Sensor Image Area	3.68 x 2.76mm
Optical Size	1/4"
Image Format	JPG
Video Format	H.264
Wake Time	30 second from sleep or off
Still Capture Time	32 seconds from sleep or off, 0.5 to 6 seconds from wake up
Video Length	5 to 30 seconds



accessories

Part #	Description
EWC-M	EWC environmental webcam mount for 1.5" to 2" pipe
CB-EWC-M	EWC environmental webcam mount for CB-Series data buoys
X3	X3 environmental data logger with Wi-Fi telemetry
X3-4G	X3 environmental data logger with Wi-Fi & 4G LTE cellular telemetry
X3-IR	X3 environmental data logger with Wi-Fi & Iridium satellite telemetry
X3-4G-IR	X3 environmental data logger with Wi-Fi, 4G LTE cellular & Iridium satellite telemetry



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