



CloudMule

SOLAR VMS

OFF-GRID VESSEL MONITORING POWERED BY THE SUN

THE CLOUDMULE SOLAR VMS IS A SELF-SUSTAINING, SOLAR-POWERED VESSEL MONITORING SYSTEM BUILT FOR MAXIMUM RELIABILITY IN REMOTE AND OFF-GRID ENVIRONMENTS. DESIGNED SPECIFICALLY FOR SMALL-SCALE FISHERIES, VESSELS WITHOUT ENGINE POWER, AND OPERATIONS IN HARD-TO-REACH WATERS, IT ENABLES REAL-TIME TRACKING, VIDEO RECORDING, AND SECURE DATA TRANSMISSION—ENTIRELY POWERED BY THE SUN.

THIS RUGGED UNIT FEATURES INTEGRATED GPS, OPTIONAL MULTI-CAMERA VIDEO SURVEILLANCE, AND AUTOMATED EVENT LOGGING, ALL ENCLOSED IN A MARINE-RATED, WEATHER-SEALED HOUSING. POWERED BY A HIGH-EFFICIENCY SOLAR CHARGING SYSTEM WITH BATTERY BACKUP, THE SOLAR VMS CAN OPERATE 24/7 WITHOUT RELIANCE ON EXTERNAL POWER.

FOR CONNECTIVITY, THE SYSTEM OFFERS FLEXIBLE COMMUNICATION OPTIONS:

WI-FI OFFLOAD WHEN NEAR SHORE

LTE UPLINK FOR COASTAL CELLULAR COVERAGE

OPTIONAL IRIDIUM SATELLITE COMMUNICATIONS FOR GLOBAL DATA TRANSMISSION, EVEN IN THE MOST REMOTE OCEANS

WHETHER USED FOR ELECTRONIC MONITORING, COMPLIANCE IN PROTECTED WATERS, OR COASTAL SECURITY, THE CLOUDMULE SOLAR VMS BRINGS INTELLIGENT VISIBILITY TO ANY VESSEL—ANYWHERE ON EARTH.



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Category	Details
Mounting Style	External (pole, rail, or cabin-mounted)
Solar Panel	5-watt high-efficiency monocrystalline
Battery Bank	12V 10Ah LiFePO4 (base model – sun belt capable, 3+ days autonomy)
Cold Climate Option	12V 35Ah LiFePO4 (-20°C rated for Canadian/temperate environments)
Power Draw	~3W average (AutoPi + GPS + LTE idle/data mode)
Connectivity	LTE (global), Wi-Fi (host/client), optional Iridium satellite module
GPS Module	Integrated with geozone alerting
Camera Support	Optional IP or USB camera (based on configuration)
Data Offload	Auto-sync via Wi-Fi or real-time via LTE/Satellite
Enclosure	Galvanized steel, satin black powder coat, IP-rated, sealed & ruggedized
Operating Temp.	-20°C to 60°C (-4°F to 140°F)
Deployment Time	Under 10 minutes (pre-wired, drop-in ready)
Unit Weight	Approx. 5-7 kg (varies with battery config)



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