CloudMule

SOLAROCEANGUARD

HEAVY-DUTY SOLAR MONITORING FOR REMOTE WATERS & UNPOWERED ENVIRONMENTS

THE CLOUDMULE SOLARGUARD IS A HIGH-CAPACITY, SOLAR-POWERED SURVEILLANCE AND DATA CAPTURE SYSTEM PURPOSE-BUILT FOR OPERATIONS WHERE GRID POWER IS UNAVAILABLE OR UNRELIABLE. DESIGNED FOR UNPOWERED VESSELS, OFFSHORE TESTING, AND BROOKSIDE OR RIVERSIDE DATA COLLECTION, SOLARGUARD DELIVERS ADVANCED VIDEO, GPS TRACKING, AND CLOUD-CONNECTED INTELLIGENCE IN EVEN THE MOST REMOTE LOCATIONS.

AT THE HEART OF THE SYSTEM IS A 90AH SEALED AGM (ABSORBENT GLASS MAT) BATTERY, PROVIDING UP TO 30 HOURS OF CONTINUOUS OPERATION WITHOUT SUNLIGHT. THE UNIT SUPPORTS UP TO TWO SOLAR PANELS (50–150 WATTS EACH) FOR A TOTAL OF 300W INPUT, ENSURING QUICK RECHARGING EVEN IN CHALLENGING LIGHT CONDITIONS. A 120VAC SHORE CHARGING PORT IS BUILT IN, OFFERING AN ALTERNATIVE CHARGING METHOD WHEN SOLAR ISN'T PRACTICAL.

SOLARGUARD SUPPORTS TWO 8MP IP CAMERAS OR ONE 180° PANORAMIC CAMERA, AND FEATURES BUILT-IN LTE, GPS, AND WI-FI (HOST/CLIENT) FOR FLEXIBLE DATA ACCESS AND REMOTE VISIBILITY. RUGGED AND WEATHERPROOF, IT'S READY TO DEPLOY IN FIELD CONDITIONS FOR REAL-TIME MONITORING AND RECORDING— WITHOUT RELIANCE ON VESSEL POWER OR INFRASTRUCTURE.

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Category	Details
Enclosure	Pelican 1440 Case - Weather-sealed, lockable, field-rugged
Battery Bank	12V 90Ah Sealed AGM (maintenance-free)
Power Runtime	~30+ hours of continuous use (no sun)
Solar Panel Support	2x 50-150W monocrystalline (300W max)
Charging Optionns	Solar + 120VAC shore/generator plug
Camera Support	2x 8MP IP cameras or 1x 180° panoramic IP camera
Connectivity	LTE (global bands), Wi-Fi host/client, GPS
Data Offload	Live via LTE or local offload over Wi-Fi
Mounting Method	Surface-mount — ratchet straps strongly recommended due to weight
Weight	~90-100 lbs (including battery and components)
Operating Temp.	-20°C to +60°C (-4°F to 140°F)
Deployement Time	Under 15 minutes (plug-and-play setup)