

Scarlet Apollo M1 Wireless Crane Camera System



The Scarlet Apollo M1 Wireless Crane Camera System is a solar-powered safety camera system for cranes, designed by [Scarlet Tech](#). It features wide-angle cameras for a view of the hook and winch, a touchscreen monitor, and app connectivity for remote monitoring. The system was the recipient of a Red Dot Design Award in 2020.

Specifications

- **Power supply:** Smart Solar Power Station and DC 9V, 0.8A.
- **Operation temperature:** -20°C to 55°C.
- **Waterproof rating:** IP67.
- **Video resolution:** Default HD (1280x720) or FHD (1920x1080).
- **Wireless transmission range:** Up to 400 meters.
- **Display:** 10.1-inch touch panel LCD.
- **Night vision:** Equipped with 20 IR LEDs.
- **Audio:** One-way audio via a built-in microphone.
- **Zoom:** 2x digital zoom.

Key Features

- **Dual wide-angle cameras:** The system comes equipped with two cameras—a hook-view camera and a winch-view camera—to provide comprehensive coverage of the lifting area and blind spots.
- **Renewable solar power:** The Apollo M1 features a smart solar power station with dual power integration from a high-efficiency solar panel and a rechargeable lithium-ion battery. This setup ensures a continuous power supply for up to 7 days of normal use, even with minimal sunlight.
- **High-definition live feed:** The cameras transmit a full-HD live audio-visual feed to a 10.1-inch touchscreen LCD monitor inside the crane cabin.
- **Long-range wireless transmission:** A 2.4 GHz wireless transmission offers a range of up to 400 meters, ensuring a stable, uninterrupted live feed.
- **Multi-camera support:** The 10.1-inch monitor can support up to four cameras simultaneously, allowing for monitoring of different areas or angles.
- **Remote monitoring:** With the optional Scarlet 4G router and the free "Apollo Cam" app, managers can monitor multiple crane operations remotely from anywhere in the world on a smartphone or tablet.
- **Durable and weatherproof:** The cameras are housed in a rugged, IP67-rated, shock-resistant aluminum casing, designed to withstand tough working conditions. A magnetic mount allows for quick and easy installation.
- **Night vision:** Equipped with 20 IR LEDs, the system provides night vision capabilities for clear visibility in low-light conditions.
- **Built-in microphone:** The cameras include a microphone, allowing the crane operator to receive audio confirmation of the load and surrounding area.