

LumiGuardian Solar Security Trailer

TG-113A



Overview

- Integrated Cloud-Based Recording With LumiCloud*
- One-Year LumiCloud Trial License Included
- One-Month Trial Subscription for 100 GB of 4G Data Included
- GPS Tracking**
- 4G LTE communication With Built-In eSIM Card***
- Autonomous Power for 7 to 10 Days Without Sun****
- One-Person Assembly
- Four (4) 12.8V Lithium Iron Phosphate Batteries
- Dual Charging: Solar Power or AC Charging
- Lockable and Secure Design
- C5-I Corrosion Protection
- Level 12 (Up to 73 mph) on the Beaufort Wind Scale
- IP67 Ingress Protection
- Department of Transportation (DoT) Approved

Warranty

- Trailer: Three (3) Years
- Solar Panels: Thirty (30) Years

Key Features

All-In-One Control Interface

The LumiGuardian solar mobile trailer seamlessly integrates with LumiCloud* for efficient, cloud-based recording. Users benefit from a streamlined platform where all essential functions and data are centralized. Additionally, it handles software updates automatically, removing the need for manual intervention.

Enhanced Cybersecurity With LumiCloud*

LumiCloud offers robust cybersecurity measures. These safeguards prevent unauthorized access, data breaches, and ensure system reliability.



*A LumiCloud license is required to perform cloud-based recording and must be purchased separately after the trial license expires.

**GPS tracking is only available when using LumiCloud.

***4G data plans must be purchased separately after one-month trial ends.

****Time may vary based on energy consumption.

An Upclose Look at the LumiGuardian



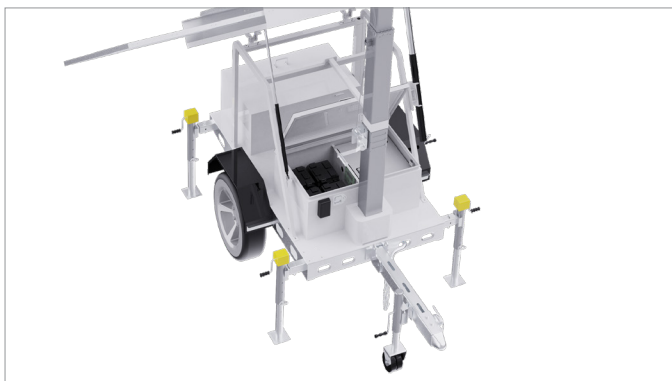
Control Box

The mast has a control box to shield electrical components from damage. The weatherproof and waterproof box ensures the trailer's continuous operation. Attached to the box are two built-in speakers and mounts to deploy up to four (4) user-supplied cameras.



Storage Box

The storage box is able to hold all of the assembly elements of the trailer, making transportation and deployment easy and seamless.



Integrated Electrical Box

The integrated electrical box allows for on-site configuration and wiring to save time and enhance convenience.



Built-in Floodlight and Red and Blue Flashing Lights

The built-in floodlight illuminates the area around the trailer for sufficient lighting during recording. Red and blue flashing lights act as a visual deterrent and warning to ward off any potential trespassers and perpetrators.



460-Watt Monocrystalline PERC Silicon Solar Panels

The trailer comes with three (3) 460-watt monocrystalline silicon solar panels to autonomously power itself for 7 to 10 days without sun*. The panels have PERC technology to improve electron collection and light absorption for better performance and efficiency, especially in low light.

*Time may vary based on energy consumption.



Rugged, Anti-Corrosive Build

The trailer is rated **C5-I for corrosion protection**, Level 12 (**Up to 73 mph**) on the Beaufort Wind Scale, and **IP67** for ingress protection. The trailer's mast is retractable, enabling flexibility and customization during setup. The mast's generous height of 8 m (26 ft) allows the installed cameras to see over obstructions and have a greater field of view.

Specifications

General

| | | | |
|----------------|--------------------------------|----------------------|---|
| Luminys Series | Speciality | Charge Time | 26 Hours (AC) |
| System Voltage | 48 VDC | Corrosion Class | C5 |
| PV Controller | MPPT 30A, 96.9% | Roof Rack Components | 3 x Red and Blue Strobe Lights 2 x Speakers 1 x 4G Router 1 x Floodlight 1 x Power Supply Board (12/48 VDC) 1 x Edge Controller 1 x Hard Drive (4 TB) |
| IP Rating | IP67 | | |
| Control | Remote Control | | |
| Battery Supply | Solar Power, Mains Electricity | | Note: No cameras are included. |

Trailer Computer

| | | | |
|----------------|--|-------------------|--|
| System Frame | Embedded Linux System Watchdog Hard Disk Storage HDMI UHD Display IP Network Video Access | Audio Functions | Audio and Video Recording HDMI Audio Output APP Audio and Video Preview/Playback |
| Video Input | Supported Resolutions 16MP, 12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 960P, 720P, D1, CIF | Audio Compression | G.711a, G.711u, PCM, G726 |
| | Max. Input Eight (8) Cameras | Storage | Built-In 4 TB HDD Cloud Backup Recording Type: Motion Detection, Alarm, Schedule, Intelligent, General |
| | Access Bandwidth 256 Mbps | Power Consumption | Total Output for NVR: ≤ 10W (No HDD) Total Output for PoE: 100 W Max. Output for One Port: 25.5 W |
| Video Playback | 1/4/8 Simultaneous, APP | | |

PV Controller

| | | | |
|------------------------|----------------------------|-------------------------------|----------|
| Nominal System Voltage | 48 VDC | Relative Humidity | ≤ 95% |
| Working Voltage Range | 8 to 68 VDC | Self-Consumption | ≤ 0.624% |
| Communication | RS-485 (RJ45 5 VDC/200 mA) | Certifications and Compliance | FCC |

4G CPE

| | | | |
|------|--|-----------------------|------------------------------------|
| 4G | LTE FDD: B1/B2/B3/B4/B5/B7/B8/B9/B12/ B13/B17/B18/B19/B20/B25/B26/B28/B66 LTE TDD: B34/B38/B39/B40/B41 | Power | 12 VDC 1A |
| SIM | 1.8V/3V SIM/UIM Cards Built-In 15kV ESD protection | Operating Temperature | −30 °C to 70 °C (−22 °F to 158 °F) |
| | | Power Consumption | 2.88 W (Max.) |
| Port | LAN: Two (2) RS-485/RS-232: One (1) | LAN Protocol | ARP, Ethernet |
| | | WAN Protocol | IP, DHCP, PPPoE |

Solar Panel

| | | | |
|-------------------|-------------------------|-----------------------|---|
| Number of Panels | Three (3) | Operating Temperature | −40 °C to 80 °C (−40 °F to 185 °F) |
| Solar Cell Type | Monocrystalline Silicon | Dimensions | 1757.0 mm x 1134.0 mm x 30.0 mm (69.2 in. x 44.6 in. x 1.2 in.) |
| Wattage | 460 W per Panel | Weight per Panel | 21.5 kg (47.4 lb) |
| Voltage Range | 10 to 40.9 VDC | Certifications | TUV, CQC, CE |
| Energy Efficiency | 23.80% | | |

Battery

| | | | |
|---------------------|------------------------|-----------------------|---|
| Number of Batteries | Four (4) | Operating Temperature | 0 °C to 60 °C (32 °F to 140 °F) |
| Cathode Material | Lithium Iron Phosphate | Weight | 4 x 22.0 kg (4 x 48.5 lb) |
| Voltage per Battery | 12.8 V | Life Cycle | ≥ 5000 Cycle at 25 °C, 0.5 C, and 80% DOD |
| Capacity | 4 x 230 Ah/11.8 kWh | | |

Mast

| | | | |
|---------------------|---------------------------------|----------|------------------------------|
| Height | 8.0 m (26.0 ft), Retractable | Coating | Electrophoretic Preservative |
| Control | Hand-Operated | Material | Aluminum Alloy |
| Beaufort Wind Scale | Level 12 (Up to 73 mph/118 kph) | | |

AC Charging

| | | | |
|-----------------|-------------------------------|-------------------------------|--|
| Voltage Range | 90 to 264 VAC, 127 to 370 VDC | Optimal Operating Temperature | −30 °C to 70 °C (−22 °F to 158 °F) |
| Frequency Range | 47 to 63 Hz | Charging Protection | Low Voltage, Over Current, Over Voltage, Short Circuit, Over Temperature |
| Power | 450 W | Certifications and Compliance | TUV, EAC, CE, CB |
| Output Voltage | 42 to 80 VDC (Adaptable) | | |
| Output Current | 6.8 A | | |

Trailer

| | | | |
|--------------------|---|---------------------|---|
| Trailer Coupler | Suitable for 2 in. (50 mm) Trailer Ball | Packaging Dimenions | 2200.0 mm x 1600.0 mm x 2389.0 mm (86.6 in. x 63.0 in. x 94.1 in.) |
| Speed Limit | Standard: 80 km/h (50 MPH) Maximum: 100 km/h (62 MPH) | Product Weight | < 780.0 kg (< 1719.6 lb) |
| Hand Brake | One (1) | Protection Measures | <ul style="list-style-type: none">Tamper-proof, removable hand crank for mast and PV bracketTheft-proof control box and trailer support footGPS positioning |
| Tire Type | Aluminum Rim, 175R13 | | |
| Support Legs | Four (4) | | |
| Product Dimensions | 3087.0 mm x 3464.0 mm x 7941.0 mm (121.5 in. x 136.4 in. x 312.6 in.) | | |



Ordering Information

LumiGuardian Trailer

The table below provides the SKU number for the LumiGuardian trailer, required licenses, and the extended warranty.

| SKU | Product | Description |
|------------|---|--|
| TG-113A | LumiGuardian Solar Security Trailer With LumiCloud License and 4G Data 100GB USA/Canada/Puerto Rico | Single Axle Trailer, Three (3) 460-Watt Monocrystalline Silicon Solar Panels, Four (4) 12.8V Lithium Iron Phosphate Batteries for 7–10 Days of Autonomous Power, Retractable 26 ft. Mast, Integrates with LumiCloud for Cloud-Based Recording, C5 Corrosion Protection, Three (3) Red and Blue Flashing Lights, One (1) Floodlight, and Two (2) Speakers for Deterrence, Level 12 Beaufort Wind Scale (Resistant Against Winds up to 73 mph), IP67 Ingress Rating, Third-Party Camera Support, DoT Approved with VIN. Free 1 Year LumiCloud License (LCL-ST4) and 100GB First Month 4G Data. (Extra Data and License Sold Separately.) |
| LC-ST4 | LumiCloud Four-Channel Solar Security Trailer License | The LumiCloud Four-Channel Solar Security Trailer License is a 1-year license that enables the LumiGuardian to act as a complete security solution for outdoor surveillance. This license allows the trailer to support up to four channels and transmit information such as battery life, solar panel status, and location in real time. One year of this license is included with initial purchase of the LumiGuardian. Subsequent years must be purchased separately. This license is required for full functionality of the product. |
| TG-113A-1Y | LumiGuardian Solar Security Trailer Extended Warranty (1 Year) | One-Year Extended Warranty for the LumiGuardian Solar Security Trailer |
| TG-113A-S | LumiGuardian Solar Security Trailer Ground Shipping Fee | Shipping Fee for the LumiGuardian Solar Trailer |

LumiCloud Data Plans

The LumiGuardian is designed to be used with the LumiCloud platform to function as a complete security solution. A LumiCloud license and data plan enables the trailer’s full functionality to act as a command center. Plans in the United States, Canada, and Puerto Rico are offered in durations from 30 days to 12 months.

| SKU | Product | Description |
|-----------------|--|---|
| LCL-DATA10GU | LumiCloud 4G Data 10GB USA: 30 Day Data Plan | LumiCloud 4G Data 10GB USA is an enterprise-grade data package designed to meet the high data demands of business users. It offers up to 10 GB of high-speed 4G data with a 30 day validity period. This plan supports AT&T, Verizon, and T-Mobile cellular networks in the USA. |
| LCL-DATA100GU | LumiCloud 4G Data 100GB USA: 1 Month Data Plan | LumiCloud 4G Data 100GB USA is an enterprise-grade data package designed to meet the high data demands of business users. It offers up to 100 GB of high-speed 4G data for one calendar month. This plan supports AT&T, Verizon, and T-Mobile cellular networks in the USA. |
| LCL-DATA200GU | LumiCloud 4G Data 200GB USA: 1 Month Data Plan | LumiCloud 4G Data 200GB USA is an enterprise-grade data package designed to meet the high data demands of business users. It offers up to 200 GB of high-speed 4G data for one calendar month. This plan supports AT&T, Verizon, and T-Mobile cellular networks in the USA. |
| LCL-6DATA100GU | LumiCloud 4G Data 100GB USA: 6 Month Data Plan | LumiCloud 4G Data 100GB is enterprise-grade data package which is designed to meet the high data demands of business users, offering 100GB of high-speed 4G data with a 6 month validity period. This supports AT&T, Verizon and T-Mobile cellular networks in USA. Supports LumiGuardian Solar Trailer. |
| LCL-6DATA200GU | LumiCloud 4G Data 200GB USA: 6 Month Data Plan | LumiCloud 4G Data 200GB is enterprise-grade data package which is designed to meet the high data demands of business users, offering 200GB of high-speed 4G data with a 6 month validity period. This supports AT&T, Verizon and T-Mobile cellular networks in USA. Supports LumiGuardian Solar Trailer. |
| LCL-12DATA100GU | LumiCloud 4G Data 100GB USA: 12 Month Data Plan | LumiCloud 4G Data 100GB is enterprise-grade data package which is designed to meet the high data demands of business users, offering 100GB of high-speed 4G data with a 12 month validity period. This supports AT&T, Verizon and T-Mobile cellular networks in USA. Supports LumiGuardian Solar Trailer. |
| LCL-12DATA200GU | LumiCloud 4G Data 200GB USA: 12 Month Data Plan | LumiCloud 4G Data 200GB is enterprise-grade data package which is designed to meet the high data demands of business users, offering 200GB of high-speed 4G data with a 12 month validity period. This supports AT&T, Verizon and T-Mobile cellular networks in USA. Supports LumiGuardian Solar Trailer. |
| LCL-DATA10GP | LumiCloud 4G Data 10GB Puerto Rico: 30 Day Data Plan | LumiCloud 4G Data 10GB is enterprise-grade data package which is designed to meet the high data demands of business users, offering 10GB of high-speed 4G data with a 30 day validity period. This supports AT&T, Verizon and T-Mobile cellular networks in Puerto Rico. Supports LumiGuardian Solar Trailer. |



LumiCloud Data Plans (Cont.)

| SKU | Product | Description |
|-----------------|---|---|
| LCL-DATA100GP | LumiCloud 4G Data 100GB Puerto Rico: 1 Month Data Plan | LumiCloud 4G Monthly Data 100GB is an enterprise-grade data package designed to meet the high data demands of business users. It offers up to 100GB of high-speed 4G data for one calendar month. This plan supports AT&T, Verizon, and T-Mobile cellular networks in the Puerto Rico. Supports LumiGuardian Solar Trailer. |
| LCL-DATA200GP | LumiCloud 4G Data 200GB Puerto Rico: 1 Month Data Plan | LumiCloud 4G Monthly Data 200GB is an enterprise-grade data package designed to meet the high data demands of business users. It offers up to 200GB of high-speed 4G data for one calendar month. This plan supports AT&T, Verizon, and T-Mobile cellular networks in the Puerto Rico. Supports LumiGuardian Solar Trailer. |
| LCL-6DATA100GP | LumiCloud 4G Data 100GB Puerto Rico: 6 Month Data Plan | LumiCloud 4G Data 100GB is an enterprise-grade data package which is designed to meet the high data demands of business users, offering 100GB of high-speed 4G data with a 6 month validity period. This supports AT&T, Verizon and T-Mobile cellular networks in Puerto Rico. Supports LumiGuardian Solar Trailer. |
| LCL-6DATA200GP | LumiCloud 4G Data 200GB Puerto Rico: 6 Month Data Plan | LumiCloud 4G Data 200GB is an enterprise-grade data package which is designed to meet the high data demands of business users, offering 100GB of high-speed 4G data with a 6 month validity period. This supports AT&T, Verizon and T-Mobile cellular networks in Puerto Rico. Supports LumiGuardian Solar Trailer. |
| LCL-12DATA100GP | LumiCloud 4G Data 100GB Puerto Rico: 12 Month Data Plan | LumiCloud 4G Data 100GB is an enterprise-grade data package which is designed to meet the high data demands of business users, offering 100GB of high-speed 4G data with a 12 month validity period. This supports AT&T, Verizon and T-Mobile cellular networks in Puerto Rico. Supports LumiGuardian Solar Trailer. |
| LCL-12DATA200GP | LumiCloud 4G Data 200GB Puerto Rico: 12 Month Data Plan | LumiCloud 4G Data 200GB is an enterprise-grade data package which is designed to meet the high data demands of business users, offering 200GB of high-speed 4G data with a 12 month validity period. This supports AT&T, Verizon and T-Mobile cellular networks in Puerto Rico. Supports LumiGuardian Solar Trailer. |
| LCL-DATA10GC | LumiCloud 4G Data 10GB Canada: 30 Day Data Plan | LumiCloud 4G Data 10GB is an enterprise-grade data package which is designed to meet the high data demands of business users, offering 10GB of high-speed 4G data with a 30 day validity period. This supports Rogers, Bell and Telus cellular networks in Canada. Supports LumiGuardian Solar Trailer. |
| LCL-DATA100GC | LumiCloud 4G Data 100GB Canada: 1 Month Data Plan | LumiCloud 4G Monthly Data 100GB is an enterprise-grade data package which designed to meet the high data demands of business users, offering 100GB of high-speed 4G data with a one calendar month validity period. This supports Rogers, Bell and Telus cellular networks in Canada. Supports LumiGuardian Solar Trailer. |
| LCL-DATA200GC | LumiCloud 4G Data 200GB Canada: 1 Month Data Plan | LumiCloud 4G Monthly Data 200GB is an enterprise-grade data package which designed to meet the high data demands of business users, offering 200GB of high-speed 4G data with a one calendar month validity period. This supports Rogers, Bell and Telus cellular networks in Canada. Supports LumiGuardian Solar Trailer. |
| LCL-6DATA100GC | LumiCloud 4G Data 100GB Canada: 6 Month Data Plan | LumiCloud 4G Data 100GB is an enterprise-grade data package which is designed to meet the high data demands of business users, offering 100GB of high-speed 4G data with a 6 month validity period. This supports Rogers, Bell and Telus cellular networks in Canada. Supports LumiGuardian Solar Trailer. |
| LCL-6DATA200GC | LumiCloud 4G Data 200GB Canada: 6 Month Data Plan | LumiCloud 4G Data 200GB is an enterprise-grade data package which is designed to meet the high data demands of business users, offering 200GB of high-speed 4G data with a 6 month validity period. This supports Rogers, Bell and Telus cellular networks in Canada. Supports LumiGuardian Solar Trailer. |
| LCL-12DATA100GC | LumiCloud 4G Data 100GB Canada: 12 Month Data Plan | LumiCloud 4G Data 100GB is an enterprise-grade data package which is designed to meet the high data demands of business users, offering 100GB of high-speed 4G data with a 12 month validity period. This supports Rogers, Bell and Telus cellular networks in Canada. Supports LumiGuardian Solar Trailer. |
| LCL-12DATA200GC | LumiCloud 4G Data 200GB Canada: 12 Month Data Plan | LumiCloud 4G Data 200GB is an enterprise-grade data package which is designed to meet the high data demands of business users, offering 200GB of high-speed 4G data with a 12 month validity period. This supports Rogers, Bell and Telus cellular networks in Canada. Supports LumiGuardian Solar Trailer. |