



INSTALLING  
RELIABILITY

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# SKYRAY LIGHT 1200

The SKYRAY Light 1200 is ND SATCOM's response to the demand for lightweight, yet robust, automatically-pointing transmit and receive antennas for mobile IP VSAT and SNG applications. The system is easy to operate and provides affordable communication infrastructure – anytime – anywhere – within minutes.

The SKYRAY Light 1200, with its aerodynamic carbon fibre casing, can also be quickly mounted on smaller vehicles. The system features a high performance 1.2 m antenna reflector, a rugged tri-axis positioner, GPS receiver and compass-enabling auto-pointing and auto-network acquisition. It can host up to 100 W redundant SSPAs.

Set-up is fast and easy, with one connector linking all your indoor equipment (power, RF, serial communication, motor drivers) to the antenna. Special PIN assignment is available on request.

## PLUG AND PLAY

- Automatic pointing and network acquisition in less than 300 seconds – no technician needed
- Easy to install – only one cable required

## KEY FEATURES

- Patented technology for the highest levels of reliability
- Extremely lightweight – easy to lift and use on any passenger car
- Robustness and precision
- Maintenance-free Azimuth/Elevation positioner
- Aerodynamic casing and antenna locking system for high-speed travel
- Complete SKYWAN set of features: affordable, always-on, broadband field communications

## TECHNICAL SPECIFICATIONS SKYRAY LIGHT 1200

### ANTENNA SPECIFICATIONS

Antenna Diameter	1.2 m
Antenna Pointing (SKYWAN, DVB carrier)	Antenna Control Unit ACU 5010/one button operation. Option: Automatic Pointing System (APS) supports GPS, compass and inclinometer. Polarisation fine tuning done by true measurement
Azimuth Travel	±185°
Elevation Travel	5° to 65°
Antenna Backup System	Manually stowable by hand crank Azimuth/Elevation
Drive Rates	Variable drive speed up to 6°/sec
Reflector	Single piece, Prime Focus, Offset Feed, OEM Product

### PHYSICAL SPECIFICATIONS

Dimensions (L x W x H)	214 cm x 129 cm x 51 cm
Weight	65 kg (fully covered, without RF equipment)

### ENVIRONMENTAL SPECIFICATIONS

Temperature Range	-25 °C to +55 °C
Survival Temperature	-25 °C to +55 °C
Humidity	10 to 95 %
Operational Wind Speed	70 km/h (43 mph)
Rain	Survival in heavy rainstorm
Survival Wind Speed (Deployed)	120 km/h (74 mph)
Solar Radiation	1,000 W/m <sup>2</sup>



### ELECTRICAL SPECIFICATIONS

Tx Frequency Range	13.75 – 14.50 GHz
Rx Frequency Range	10.70 – 12.75 GHz
Tx Antenna Gain	43.3 dBi@14.25 GHz
Rx Antenna Gain	41.8 dBi@11.95 GHz
Antenna Noise Temperature	24 K@30° Elevation
VSWR	Rx: 1.5:1/Tx: 1.3:1
Waveguide Interface Flange	WR75/UBR120
Max. allowed EIRP	Approval related



Available with following SSPAs: 6 W, 16 W, 25 W, 40 W, 100 W

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