



ND SATCOM

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 an affordable communication infrastructure – anytime – anywhere – within minutes.

The ND SatCom SKYRAY Light 1200 with its aerodynamic carbon fiber casing can be quickly mounted also to 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 100W redundant SSPAs.

PLUG AND PLAY

- Automatic pointing and network acquisition below 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 AZ/EL positioner
- Aerodynamic casing and antenna locking system for high speed travel
- Complete SKYWAN set of features: affordable, always-on, broadband field communications

TECHNICAL SPECIFICATIONS

ANTENNA SPECIFICATIONS

Antenna Diameter	1.2 m
Antenna Pointing (SKYWAN, DVB carrier)	Antenna Control Unit ACU 5020 / 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 Az/EI
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	1000 W/m ²



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	24K @ 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: 6W, 16W, 25W, 40W, 100W

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