EXPLORER 3075GX

0.75m Manual Fly-Away Antenna System for Inmarsat Global Xpress® Operation

February 2016 Product Sheet

The most important thing we build is trust

EXPLORER 3075GX

This Cobham EXPLORER manual point Fly-Away system is lightweight, rugged and portable. The terminal includes a fully integrated iDirect Core Module and is configured specifically for operation on the Inmarsat Global Xpress® (GX) Ka-band network. Its user friendly design allows operators with little satellite experience to access GX services within minutes. EXPLORER 3075GX comes in two hard cases both below 23kg and is thereby easy airline checkable.

Versatile system

The EXPLORER 3075GX system includes a separate GX base and stands apart from other GX antennas as it offers the possibility of switching between ka-band networks. By simply swapping the RF feed assembly and the modem, EXPLORER 3075GX can switch between Inmarsat's GX services and Eutelsat KA-SAT services. The tripod, the manual panning head and the reflector panels are shared components.

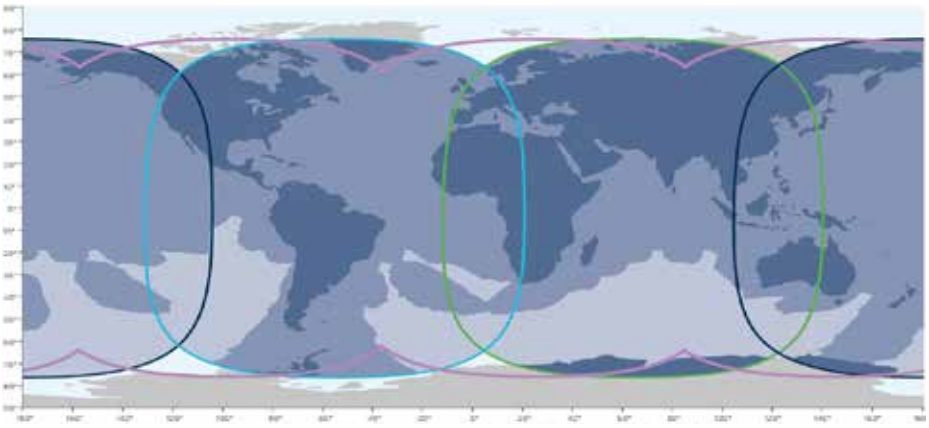
Reliable EXPLORER

EXPLORER 3075GX is developed completely in-house by Cobham SATCOM. It features genuine EXPLORER design, which is already established and proven with Cobham SATCOM's highly regarded EXPLORER BGAN and VSAT terminals. Its unique design and system versatility ensures high-quality connectivity, which means you can count on EXPLORER 3075GX to provide you with vital communication whatever the conditions.

System Features

- Easy to set up and use
- 4-Piece 0.75 m Carbon Fiber Reflector
- IP65-compliant
- WLAN Access Point and LAN interface
- LCD Display and Web-Based User Interface
- 2 Case Solution, Airline Checkable
- Modular design - switch feed assembly and modem to access EutelSat KA-SAT

Global coverage with Inmarsat Global Xpress®



Cobham SATCOM is an official launch partner for the new Inmarsat Global Xpress® Ka-band network. Inmarsat Global Xpress is the first high-speed broadband network to span the world. Regardless of the application, our suite of EXPLORER GX terminals will provide the reliability and functionality required to fast and effectively connect users to the Global Xpress® network.

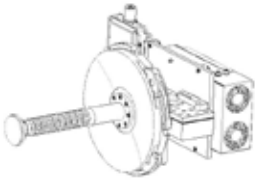
Subject to change without further notice.

EXPLORER 3075GX

0.75m Manual Fly-Away Antenna System for Inmarsat Global Xpress® Operation

Antenna Characteristics		
Feed		2 Port Circular
Frequency (GHz)	Rx	19.2 - 20.2
	Tx	29 - 30
Gain (dBi ± 0.2)	Rx	41.0
	Tx	44.5
Axial Ratio (AR) (dB) w	Rx	≤ 1.5
	Tx	≤ 1.0
Polarization	Rx	LHCP
	Tx	RHCP
G/T - Comm @ 30° EL, Midband (dB/°K)		17.3
EIRP @ Midband (dBW)		51.5
BUC power (P linear) (Watts)		5

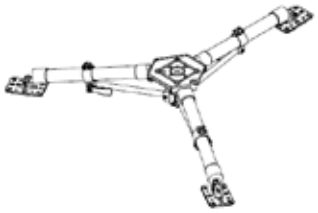
EXPLORER GX Base Unit



EXPLORER 3075GX Feed Package

Generic EXPLORER 3075 Panning Head

4x Generic EXPLORER 3075 Reflector Panels



Generic EXPLORER 3075 Tripod

Environmental		
Wind Speed	- Operational	48 km/h (30 mph) gusts up to 72 km/h (45 mph) (anchored)
Temperature	- Operational	-25° to +55°C (-13° to +131°F)
	- Survival	-40° to +80°C (-40° to +176°F)
Rain		<100 mm/hr
Humidity		0 to 100% (condensing)

Assembly Time	Approximately 10 Minutes (typical)

Alignment
Interactive user interface providing look angles for the intended satellite using positional information from an integreated GPS. Internal receiver provides signal strength for peaking.

Reflector	
Size	0.75 m
Optics	Axis-Symmetric
Construction	4-piece segmented

Mechanical	
Axis Drive System	2-Axis Positioner (manual point)
Mount Geometry	Elevation over Azimuth
Travel - Azimuth - Elevation	 27° (fine adjustment) 0° to 90° (15° Fine-Tuning)

Weights & Measures (approximate)	
Terminal	21.5 kg (47.5 lbs)
Packaging (2 cases)	Airline checkable
Base unit + feed case (L/W/D) Weight	62.5 / 50 / 29.7 cm 24.6 / 19 .7 / 11.7 inches <23 kg / 50.7 lbs
Reflector + tripod case (L/W/D) Weight	79 .5 / 51.8 / 31 cm 31.3 / 20.4 / 12.2 inches <23 kg / 50.7 lbs

Power Requirement
90 - 260 VAC 150W (max)

User Interface
Embedded web server for configuration, control and management using external PC.

Product number	
407164A-00550	EXPLORER 3075GX

Accessories	
TS3075230-100	EXPLORER 3075GX to KA-SAT Conversion Kit

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