

# EXPLORER 3100 Ku

1m Manual-Point Fly-Away Antenna System for Ku-band Operation

**COBHAM**

June 2020 Product Sheet



## EXPLORER 3100 Ku

This 1m Manual Fly-Away system provides users with a lightweight, ruggedized, and modular mobile terminal for Ku-band operation. Its ease of use allows for operators with minimal satellite experience to access Ku broadband applications within minutes.

## Reliable EXPLORER

EXPLORER 3100 Ku 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 3100 Ku to provide you with vital communication whatever the conditions.

## Applications

- Continuity of Business Operations
- Remote Business Videoconferencing
- Internet Cloud Services: Voice, Radio, Data, Live Broadcast

## Markets

- Emergency Response
- Media: Live Streaming Video, TV Broadcasting
- Homeland Security & Defense
- Law Enforcement
- Remote Office Communications
- Telemedicine: Critical Medical Information Transmission
- Energy and Mining

## System Features

- Fast assembly with less than 5 minutes setup time
- Easy Pointing
- 1m 7-Piece Carbon Fiber Reflector
- Light and Robust Carbon Fiber Tripod
- 8W BUC Configuration for Ku-Band
- Exchangable Ku-Band Feed Horn
- Rugged and lightweight
- Single Case Configuration, Airline Checkable



**Marine Electronics &  
Satellite Communications**

[www.mackaymarine.com](http://www.mackaymarine.com)

**Mackay Marine – High Seas**

+1 281 479 1515 [marinesales@mackaymarine.com](mailto:marinesales@mackaymarine.com)

**Mackay Communications, Satellite Solutions**

+1 919 850 3100 [satserv@mackaycomm.com](mailto:satserv@mackaycomm.com)

**Mackay Marine Canada**

+1 902 469 8480 [sales.canada@mackaymarine.com](mailto:sales.canada@mackaymarine.com)

**Mackay Marine Alaska & Pacific Northwest**

+1 206 282 8080 [ballard@mackaymarine.com](mailto:ballard@mackaymarine.com)

**Related Products:** EXPLORER 3075GX, EXPLORER 6100 Ku

[www.cobham.com/satcom](http://www.cobham.com/satcom)

# EXPLORER 3100 Ku

1m Manual-Point Fly-Away Antenna System for Ku-band Operation

**COBHAM**

Antenna Characteristics		
Feed		2 Port Linear
Frequency (GHz)	Rx	10.7 - 12.75
	Tx	13.75 - 14.5
Gain (dBi $\pm$ 0.2) @ Midband	Rx	39.9
	Tx	41.6
Cross Pol Isolation (dB) within 1dB contour	Rx	>30
	Tx	>30
G/T - Comm @ 30° EL, Midband (dB/°K)		19.5
System EIRP (dBW)		50.6
Standard BUC options		8 Watt

Assembly Time	Approximately 5 Minutes
---------------	-------------------------

Reflector	
Size	1.0 m
Optics	Axis-Symmetric
Construction	7-Piece Segmented Carbon Fiber

Mechanical	
Axis Drive System	3-Axis Positioner (manual point)
Mount Geometry	Elevation over Azimuth
Travel	
- Azimuth	$\pm 14^\circ$ Fine-Tuning
- Elevation	0° to 90°



Field replaceable Feed Horn



Peli Storm Case iM2975: Custom foam for safe transportation



Environmental	
Wind Speed - Operational	45 km/h / 28 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)

Weights & Measures	
Terminal (excl. power supply)	<14 kg (<38 lbs)
1 Case Packaging (Peli Storm Case iM2975)	Airline checkable
Dimensions (L/W/D)	79.5 / 51.8 / 39.4 cm 31.2 / 23.1 / 15.5 inches
Weight (total pack-up)	<30 kg / <66 lbs

What's in the Box	
<ul style="list-style-type: none"><li>- RF Assembly including 8 Watt BUC, LNB and Pol mechanism</li><li>- Carbon Fiber Tripod with Manual Point Panning Head</li><li>- 7 Reflector Panels (in 2 soft bags)</li><li>- BUC Power Kit, 48 VDC Power Supply and Bias-Tee</li><li>- Replaceable Feed Horn</li><li>- Cables: 5m Rx (F- to F-), 1m Tx (F- to F-), 5m Tx (N- to N-)</li></ul>	

Product number	
403327A-50214	EXPLORER 3100 Ku (8 Watt)

For further information please contact:

Cobham SATCOM Land  
Lundtoftegaardsvej 93 D  
DK-2800 Kgs. Lyngby, Denmark  
Tel: +45 3955 8800

Subject to change without further notice

**Related Products:** EXPLORER 3075GX, EXPLORER 6100 Ku

[www.cobham.com/satcom](http://www.cobham.com/satcom)