



TECHNICAL SPECIFICATION (contd)

OPTIONS

Flyaway Cases:	ABS Plastic / Composite
Encoding:	HD MPEG-2, SD MPEG-4, HD MPEG-4
Video and Audio Monitoring:	RouteCase® - full HD/SD production studio
Fibre Link:	Allows controller and inputs to be remote from the uplink
High Definition MPEG-4 Windows Media DVB-S2	



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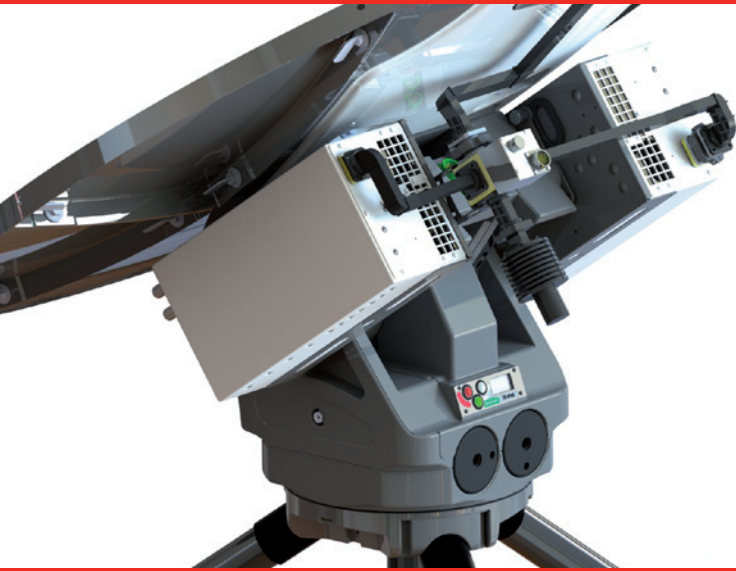
Tr-uPod® MULTI-BAND UPLINK TRIPOD

Multi-band 0.75, 1.0, 1.2 and 1.5m tripod antenna, developed using cutting edge award winning technology.

Tr-uPod® is an exceptionally flexible, compact satellite uplink system with tool-less assembly available fully automated or with simple manual operation.

All size antennas pack in to 2 x IATA carry cases which can be flown as standard airline baggage and easily carried over rough terrain.

All antenna sizes are capable of Ka, DBS, Ku and X band with the 1.5m also available in C band.



FEATURES

- All composite construction reflector
- 0.75, 1.0, 1.2 or 1.5m reflector
- Highly portable – 2 IATA compliant cases
- Ka, DBS, Ku, X and C bands available
- Tool-less assembly and operation
- Fully automated or manual acquisition
- Optional dual redundant 400W TWTA compatible
- High stability
- Rugged

TECHNICAL SPECIFICATION

UPLINK

Ka Band	Tx 27.5 - 30GHz, Rx 18.2 - 20.2GHz
Tx Gain:	0.75m = 45.3dBi (typ), 1.0m = 47.8dBi (typ), 1.2m = 49.4dBi (typ), 1.5m = 51.4dBi (typ)
Rx Gain:	0.75m = 42.1dBi (typ), 1.0m = 44.6dBi (typ), 1.2m = 46.1dBi (typ), 1.5m = 48.1dBi (typ)
G/T @ 19.7GHz:	0.75m = 19.5dBk, 1.0m = 22dBk, 1.2m = 23.6dBk, 1.5m = 25.5dBk,
Polarisation:	Circular, linear option
Ku Band:	Tx 13.75 - 14.5GHz, Rx 10.95 - 12.75GHz
Tx Gain:	0.75m = 39.2dBi (typ), 1.0m = 41.7dBi (typ), 1.2m = 43.3dBi (typ), 1.5m = 45.3dBi (typ)
Rx Gain:	0.75m = 37.1dBi (typ), 1.0m = 39.6dBi (typ), 1.2m = 41.2dBi (typ), 1.5m = 43.2dBi (typ)
G/T @ 11.2GHz:	0.75m 15.9dBk, 1.0m = 18.4dBk, 1.2m = 19.9dBk, 1.5m = 21.9dBk
Polarisation:	Tx linear (H/V), Rx Orthogonal to Tx
X Band	Tx 7.9 - 8.4GHz, Rx 7.25 - 7.75GHz
Tx Gain:	0.75m = 34.4dBi (typ), 1.0m = 36.9dBi (typ), 1.2m = 38.5dBi (typ), 1.5m = 40.4dBi (typ)
Rx Gain:	0.75m = 33.5dBi (typ), 1.0m = 36.0dBi (typ), 1.2m = 37.6dBi (typ), 1.5m = 39.6dBi (typ)
G/T @ 7.4GHz:	0.75m = 11.5dBk, 1.0m = 14dBk, 1.2m = 15.5dBk, 1.5m = 17.5dBk,
Polarisation:	Circular

UPLINK (contd)

Antenna:	Segmented 0.75, 1.0, 1.2 & 1.5m motorised antenna Fully automated satellite acquisition and tracking
Communications:	IP connection
Controller:	Intuitive Windows based user interface (touch screen capable)
Power Consumption:	Less than 10 Amps fully redundant

BASEBAND

Video Standards:	NTSC or PAL Composite or SDI
Video Encoding:	MPEG-2 4:2:0 or 4:2:2 HD/SD MPEG-4 4:2:0 or 4:2:2 HD/SD
Video Inputs:	SDI/Composite (BNC)
Audio Inputs:	4 x Balanced line 2 x Mic (XLR)
Modulator:	DVB-S/DVB-S2, QPSK, 8-PSK & 16 QAM

FITMENT

Antenna Unit Weight:	From 30kg (66lbs) depending on options
Ground Mounting:	Lightweight stable tripod with ground fixing points