

## CF-Broadcaster

### Ultra Lightweight Flyaway Antenna

- **1.0m antenna system**
- **Full auto-pointing solution**
- **X, Ku, and Ka-bands**
- **80W SSPA / 180W HPA**
- **DVB-S encoder / modulator**
- **RX integrated receiver decoder (IRD)**
- **Audio / video monitoring**



#### Compact and Powerful

The complete system is housed in two flight cases that weigh less than 23kg each, making the **CF-Broadcaster** a single-person deployable flyaway that can be transported world-wide with no IATA export restrictions.

The CF-Broadcaster can be supplied with System EIRP's of:- X-Band 54dBw (max), Ku-Band 56dBw (max) and Ka-Band 61dBw (Max)

Once at location, the CF-Broadcaster only takes minutes to set-up, point and acquire your desired satellite.

Within the weight limit of 23kg the CF-Broadcaster includes GPS receiver, inclinometer, flux gate compass and ACU, ensuring fast accurate satellite line up anywhere in the world without the need for expensive equipment and resource.

#### Highly Versatile

The CF-Broadcaster can be fitted with X, Ku and Ka-Band RF assemblies which consists of a BUC, waveguide and feed OMT (including LNB).

The band change-over mechanism has been designed to allow fast reliable inter-change without the need for any tool's, making the CF-Broadcaster a highly versatile unit designed for War-fighters, Peace-Keepers and News Gathers worldwide.



	<b><i>Ku-Band</i></b>	<b><i>X-Band</i></b>	<b><i>Ka-Band</i></b>
Antenna Size	1.0M		
<b>Operating Frequency</b>			
Receive (GHz)	10.9 -12.75	7.25-7.75	18.0-22.0
Transmit (GHz)	13.75-14.5	7.9-8.4	27.7-30.0
<i>(Tx Appendix 30B (GHz))</i>	12.75-13.25	-	(30.0-31.0)
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<b>Mid-band Gain</b>			
Receive	40.1 dBi	35.0dBi	45.6dBi
Transmit	41.8 dBi	36.7dBi	47.6dBi
Cross-Polarization (Linear) VSWR		35dB on axis 1.3:1 Max.	
System EIRP	56.7dBW	55dBw	54.6dBw/61.6dBw
BUC Power (P1dB)	30W	50W	5W/25W
Azimuth range Manual	/ Coarse: ±180° / Fine ±90°		
Elevation range		5-90°	
Polarization		±90°	
Ambient temperature Operational:	-20°C to +50°C (Antenna only)		
Storage:	-40°C to + 70°C		
Solar radiation	1,200 W/m2		
Wind speed (with ballast or anchors)	20m/s (45 mph)		
Operating humidity	100% condensing		
Rainfall Maximum	100 mm/h (4 in/h), excluding link budget effects		
Altitude	Up to 3,000 m (9,850 ft)		
Survival:	Up to 10,000 m (32,800 ft)		

## COMPLIANCE

- Eutelsat/Intelsat and HispaSat Compliant