

# DST-140 DSNG Satellite Terminal

Antenna sizes 1 metre and 1.4 metre

- The DST-140 is a portable flyaway satellite terminal able to be operated by one person. There is a choice of 1 metre and 1.4 metre carbon fibre reflectors (offering a 3 dB gain and G/T differences)
- The tripod based antenna mount system is light and easy to use, and offers a highly stable and flexible platform for use in all types of adverse environment.
- **Either:** 1 metre single piece carbon fibre -  
**Or** 1.4 metre two piece carbon fibre
- Intelsat/Eutelsat type approved derived feeds
- Electronic polarisation
- Easy assembly (< 5mins, no tools)
- Ideal for MPEG video, data and two way Comms
- Digital (stereo) audio and 2 way data communication
- HPA options 10-500 W
- IATA compliant transportation



# Specification

## FREQUENCY BANDS - TRANSMIT

13.75 to 14.5 GHz  
or 17.3 to 18.1 GHz  
or 17.7 to 18.4 GHz

## FREQUENCY BANDS - RECEIVE

10.7 to 12.75 GHz

## Model

DST-140                      DST-144

## Size

1 metre                      1.4 metre

## Construction

Single piece                      Two piece

## Type

Single off-set, carbon fibre

## Gain

42.0 dBi at 14.0 GHz	45.0 dBi at 14.0 GHz
43.4 dBi at 17.7 GHz	46.4 dBi at 17.7 GHz

## G/T

18.3 dB/K                      21.3 dB/K

## Side lobes

Better than 25-25 log  $\theta$  dBi

## Cross polarisation

Better than 35 dB (1 dB beam width)

## PHYSICAL

### PANNING

Azimuth 360° continuous  
Elevation 0 to 90°  
Polarisation  $\pm 95^\circ$  (motorised)  
Features - Counter balanced elevation range,  
Spirit level, calibrated scales, vernier tilt  
facility

### WEIGHT

DST-140, including transport cases,  
interconnecting waveguide and cables 53.5 Kg  
DST-144, including transport cases,  
interconnecting waveguide and cables 63.0 Kg

### TRIPOD

Height 102 cm  
Diameter 24 cm  
Leg extension 58 cm

**DST-140 1 metre with DVE4000 MPEG-2  
coder/modulator /Ku band upconverter  
and 400 Watt TWTA (EIRP +70 dBw)**

