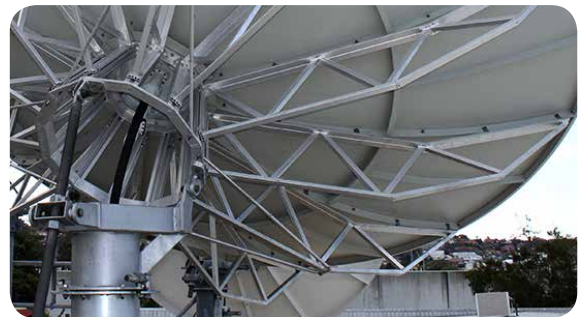




The Suman 4.5m Ku Band VSAT Satellite Dish is type approved for Ku Band, VSAT and TVRO applications. The Suman 4.5m Ku Band VSAT Satellite Dish utilises a dual reflector cassegrain feed assembly to maximise performance. The primary advantage of this design over that of other manufacturers is the ease of access provided by the cassegrain feed configuration allowing; alignment and maintenance to be carried out safely by eliminating the need for ladders or elevated work platforms. The Suman 4.5m Ku Band VSAT Satellite Dish's reflector is made from aluminium panels supported with precision welded aluminium hub; mounting hardware is stainless and galvanised steel, extending the operational life of the antenna beyond its competitors.

Main Features

- High efficiency and low sidelobes performance.
- Fast, repeatable installation without the need for cranes or hoists.
- Smaller components fit in elevators and through doorways thereby easing rooftop installation.
- High precision interchangeable components.
- Durability through propriety processes that resist rust and corrosion.
- Ease of maintenance, facilitated by waveguided flanges accesible from rear of dish.



Satellite Dish Specifications

cat# D 1906

Parameter	Receive	Transmit
Frequency (GHz)	12.25-12.75 * 10.95-12.75	14.0-14.5
Gain at Midband	53.63dB	54.7dB
Sidelobes 1st sidelobe $100\lambda/D^{\circ} \leq \Theta \leq 48^{\circ}$	-14dB 29-25log Θ dBi	-14dB 29-25log Θ dBi
VSWR	1.25:1	1.25:1
Beamwidth	0.35°	0.3°
Typical G/T at 20° Elevation, Clear Horizon, 4Hz with 55°K LNA	24.8dB/°K (11.85GHz, with 90°K LNA)	
Feed Interface	WR-75F	WR-75G
Feed Insertion Loss	0.25dB	0.4dB
Cross Polarization Isolation		
On Axis	35dB	35dB
Within 1dB Beamwidth	30dB	30dB
Port to Port Isolation(Tx-RX with Filter)	≥85dB	
Axial Ratio (Circular Polarization)		
2 Port Tx/Rx	1.3	1.09

Mechanical Specifications

Parameters

Azimuth Adjustment	360° continuous
Elevation Adjustment	5° to -90°
Polarisation Adjustment	±90°

*Optional

Parameter	
Wind Loading Operational	126km/h
Wind Loading Survival	198km/h

PACKAGE INFORMATION

Dimension	200 x 200 x 200cm
Weight	1200kg