

# 1.2m Ku-Band Rx/Tx Quick-Deploy, "Long Focal" Antenna System



*Your Trusted Source for Satellite Equipment*



**VS-120QD4SMCTH-KU**  
**1.2m Quick-Deploy System**

- **4-piece Sectional Reflector**
- **Long Focal Length Optics for Low Cross-Pol Performance**
- **Quick and Easy Setup (Less than 5 minutes)**
- **Fine Tune Azimuth and Elevation**
- **Hard or Soft Case Options**

ELECTRICAL	Ku-Band
Antenna Size	1.2 M
Operating Frequency (GHz) Receive Transmit	10.70 - 12.75 13.75 - 14.50
Midband Gain (± .5dB) Receive Transmit	41.4 dBi 43.3 dBi
Antenna Noise Temp (20° Elevation)	57 K
Antenna Noise Temp (30° Elevation)	56 K
Sidelobe Envelope, Co-Pol	
100λD° ≤ θ ≤ 20°	29 – 25 Log θ dBi
20° < θ ≤ 26.3°	-3.5 dBi
26.3° < θ ≤ 48°	32 – 25 Log θ dBi
48° < θ	-10 dBi (averaged)
Cross-Polarization On Axis Within 1.0 dB Beamwidth	Tx: 35 dB Rx: 30 dB Tx: 27 dB Rx: 25 dB
VSWR	Tx: 1.3:1 Max Rx: 1.5:1 Max
Feed Interface Output Waveguide Interface Flange	WR75

MECHANICAL SPECIFICATIONS	
Reflector Material	Glass Fiber Reinforced Polyester SMC
Antenna Optics	4 Piece, Prime Focus, Offset Feed
Mount Type	Tripod
Elevation Adjustment Range	0° to 90° Continuous Fine Adjustment
Azimuth Adjustment Range	+30° Fine, 360° Continuous
Weights and Dims	
Reflector Case	91 lbs (41.2 kg)
	28 x 19 x 33 in (71.12 x 48.26 x 83.82 cm)
Mount Case	86 lbs (39.0 kg)
	48 x 18 x 18 in (121.9 x 45.7 x 45.7 cm)
ENVIRONMENTAL SPECIFICATIONS	
Operational (No Ballast/Anchors)	25 mph / 40kmh
Operation (w/Ballast/Anchors)	45 mph / 72 kmh
Survival (w/Ballast/Anchors)	90 mph / 145 kmh
Temperature	-40° to 140°F / -40° to 60°C
Rain	.5 in/hr. / 1.3 cm/h
Solar Radiation	360 BTU/h/ft <sup>2</sup> / 1000 Kcal/h/m <sup>2</sup>

QUICK-DEPLOY\_VS-120QD4SMCTH-KU\_REV003  
Specifications are subject to change without notice

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