EASI 4.5 METER ANTENNA SPECIFICATIONS

ELECTRICAL			MECHANICAL
Operating Frequency (GHz	C Band	Ku-Band	Antenna Diameter: 4.5 meters
Transmit Receive	5.850-6.425 3.625-4.2	14.0-14.5 10.95-12.75	Antenna Type: Prime Focus
Receive 5.025-4.2 10.95-12.75			Antema Type. Filme rocus
Gain (Midband, Ref. Feed I Transmit Receive	Horn): 46.8 dBi** 43.5 dBi*	54.3 dBi**** 53.1 dBi***	Reflector Construction: 12 Panels, precision stretch-stamped steel
Feed Insertion Loss (dB):			Antenna Travel: Elevation: 0 to 90 degrees Azimuth: Manual 140 degrees
DP - 2-Port RX/RX Linear Receive	0.051 dB	0.10 dB	Motorized: 130 degrees typical
RT - 2-Port RX/TX Linear:			Polarization Travel: Feed Dependent
Transmit	0.10 dB	0.10 dB	- T 10 1
Receive	0.10 dB	0.12 dB	Antenna Travel Speed: Drive System Dependent
3PL - 3Port RX/TX Linear:		0.20 AD	Food Intenforce
Transmit Receive	N/A N/A	0.20 dB 0.20 dB	Feed Interfaces: Transmit C Band: CPR-137G
			Transmit Ku Band: WR-75
DPC – 2-Port RX Linear: Transmit	N/A	N/A	Receive C Band: CPR-229G Receive Ku Band: WR 75
Receive	0.07 dB	N/A	Receive Ru Band. WR 75
VSWR:	1.2.1	1.2.1	Weights:
Transmit Receive	1:3:1 1:3:1	1.3:1 1.3:1	Kingpost: 1500 lbs. galvanized Reflector: 1200 lbs. galvanized
December 141 (2 JD).			
Beamwidth (-3 dB): Transmit	0.83 degrees	0.34 degrees	Shipping Info: Kingpost shipped assembled on one pallet
Receive	1.10 degrees	0.41 degrees	Reflector shipped on 2 pallets
First Sidelobe Level:			
i ii st Sidelose Level.	18.0 dB	18.0 dB	
Radiation Pattern:			ENVIRONMENTAL
C and Ku band: Meets standards set by the FCC,			
INTELSAT, ASI	ASAT, EUTELSAT,	ITU and others	Wind Loading: (Standard Actuators)
Antenna Noise Temp (Typical, Ref. Feed Horn): Elevation C Band Ku-Band			Operational: 45 mph, gusts to 60 mph Survival: 125 mph
10 degrees 28K	36K		Temperature Range:
20 degrees 20K 30 degrees 18K	27K 25K		-4.0° C to $+65^{\circ}$ C (-40° F to 150° F)
40 degrees 15K	24K		Atmospheric Conditions: Pollutants, salt and corrosive contaminants
Power Handling Per TX Po		CW	as found in coastal and industrial areas
5 kW	(CW) 2kW ((CW)	
Cross Pol Isolation (on axis	min.) (linear):		WINDLOADING
Transmit	35 dB	35 dB	Front of Reflector @ 0 elevation
Receive	35 dB	35 dB	2006 lbs. based on ASCE 7-88 @ 60 mph
Feed Port Isolation (4-Port Linear):			Torque at base of kingpost @ 60 mph is 16,048 ft lbs.
TX/RX RX/RX and TX/I	70 dB	70 dB	8673 lbs. based on ASCE 7-88 @ 125 mph
KA/KA and 1 A/ I	A 33 UD	35 dB	Torque at base of kingpost @ 125 mph is 69,384 ft lbs.
* Referenced at 3.9	5 GHz		
** Referenced at 11.95 GHz			
	Referenced at 0.175 GHz		ications and availability subject to change without notice
Referenced at 14.	23 GHZ	Keflec	tor Specifications taken from Viasat 4.5 meter data sheet

EASI 4.5 METER ANTENNA FEATURES

REFLECTOR

12 galvanized steel and painted precision stretch-stamped petals offer exceptional strength and accuracy Panels are uniform and interchangeable

High reflector accuracy means transmit approved reflector

Stainless reflector hardware standard

Galvanized steel support structure and hub for exceptional antenna strength and accuracy

KINGPOST

Made of galvanized, heavy gauge steel for long life and stability

14" steel kingpost offers greater stability than smaller kingpost designs used by some manufacturers Special design allows the use of different drive systems without modification to the structure Integrated kingpost features allow for clean and easy wiring as well as simple grounding of the structure Standard 130 degrees travel with actuators attached

Optional rear kickers available for additional ground and roof mount stability/improved load distribution Unique design lowers the antenna's center of gravity below the attachment point for greater stability

FEED

Quad feed support for exceptional feed stability Standard feed attachments for readily available feeds Adjustable feed struts allow for precise positioning of the feed at focal point

DRIVE SYSTEMS

Antenna allows for easy use of a variety of drive systems without changing azimuth attachment points System designed to allow the use of standard 36, 90,180 VDC and AC drive systems 36 VDC controllers like the RCI 2000 can be used with 36VDC drive systems but should high wind drive stability ever be required, 90 VDC applications are available using the same controller Optional manual locking bars for fixed applications

REMOTE CONTROL AND AUTOMATION

Compatible with PC control and automation systems from manufacturers like Image Communications. Unique kingpost design allows for simple transition from 36 VDC drive systems to 90 VDC drive systems without modification to kingpost or change in automation driver when using the RCI 2000 controller.