9M fixed remote sensing satellite receiving antenna

9M fixed remote sensing satellite receiving antenna is one of remote sensing receiving antenna series developed by our company, which is applied for receiving high-speed information rate on sea and meteorology. This type of antenna adopts ring focus shaped dual-reflector antenna, AZ-EL and tilted 3-axis antenna pedestal. The antenna can operate at L, S or X-band; and dual-band of L/S, L/X or S/X; or can also operate at tri-band of L/S/Ku, L/X/K or S/X/Ku. And Ku-band is applied for satellite communication. When tri-band operates simultaneously, the antenna adopts tri-band feed system. Its tracking mode has three categories which are manual tracking, program tracking and mono-pulse auto tracking.

Main Performance Specification

Item	Electrical Specification	Parameter
1	Antenna type	Ring focus shaped dual-reflector antenna
2	Antenna pedestal type	AZ-EL and titled 3-axis
3	Operational band	L, S, X-band or L/S, L/X, S/X dual-band or tri-band of
		L/S/Ku, L/X/Ku, S/X/Ku
4	Antenna efficiency	50%~55%
5	Polarization	Circular
6	Sidelobe	First sidelobe ≤ −14dB
7	VSWR	≤1.5:1
8	Circular polarization axial ratio	1.22:1(single band) or 1.41:1(dual-band or tri-band)
9	Antenna travel range	Az: ±360°El: -1°∼181° Tilt: ±7°
10	Travel speed	Az: 0.01°/S~20°/S,
		El: 0.01°/S~12°/S
		Tilt: 0.1°/S~0.2°/S
11	Travel acceleration	Az: $0.001^{\circ}/S^2 \sim 5^{\circ}/S^2$,

		El: $0.001^{\circ}/S^2 \sim 2^{\circ}/S^2$
12	Operational mode	Manual control, assigned position (digital guiding),
		program tracking, mono-pulse auto tracking, self-checking
13	Tracking mode	Manual tracking, program tracking and mono-pulse auto
		tracking
14	Pointing accuracy	1/8 half power beam width (X-band)
15	Tracking accuracy	1/10 half power beam width
16	Monitor and interface requirement	It can communicate with monitoring computer.
		The interface is RS232/422/RS485 or network interface
17	Power supply	220V AC±10%, 380V AV±10%,
		50Hz±5%
18	Total antenna weight	16500Kg
19	Power	16000W

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