



MDS-15 Network Radar



- **High Performance Digital Signal Processing**
- **Compatible with All SI-TEX NavPro Units**
- **Multi-Speed Antenna**
- **4kW High Power Output**
- **Ranges from 1/8th of a mile to 36 miles**
- **Compact Light Weight 20" Radome**
- **WIFI Connectivity**
- **2 Year Warranty**

SPECIFICATIONS

ANTENNA UNIT

Radiator:	Slotted waveguide array
Radiator length :	46 cm
Horizontal beamwidth:	5°
Vertical beamwidth:	25°
Sidelobe:	Within ± 20° off mainlobe; less than -18 dB Outside ± 20° off mainlobe; less than -23 dB
Polarization:	Horizontal
Antenna rotation speed:	Long range (3~36NM): 24RPM (±2) Medium range (1.5~3NM): 36RPM (±2) Short range (1.5~3NM): 36RPM (±2)
Wind resistance:	Relative wind speed 100 knots (51.5 m/s)

TRANSCIVER MODULE (contained in antenna)

Transmitting Tube:	MSF1421B or MAF1421B
Frequency:	9410 ± 30MHz
Peak output power:	4kW nominal
Pulselength and pulse repetition:	0.08 μ S/2100 Hz(0.125, 0.25, 0.5, 0.75, 1.5 nm) 0.3 μ S/1200 Hz(1.5, 2, 3 nm) 0.8 μ S/600 Hz(3, 4, 6, 8, 12, 16, 24, 36nm)
Warm up time:	1:30 minutes
Modulator:	FET switching method
I.F.:	60 MHz
Tuning:	Automatic or manual
Receiver front end:	MIC (Microwave IC)
Bandwidth:	Tx pulse length 0.3 μ S and 0.8 μ S: 25MHz Tx pulse length 0.8 μ S: 3MHz
Duplexer:	Circulator with diode limiter

POWER SUPPLY UNIT

10.5VDC to 40VDC built-in power supply

ENVIRONMENT

Temperature:	Antenna unit: -25 to +70°C
Humidity:	Relative humidity 93% or less at 40°C
Compass safe distance:	

	Standard Compass	Steering Compass
Antenna Unit	130 cm	95 cm

DIMENSIONS

