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TPS-79 Tactical Military Air Traffic Control Radar



VIEW SELECT			ARR/DEP			SYSTEM DATA AREA		
MAP	OK	LOOK	ALTM			15/51/15	CA OFF	TR. ER
LA/CA	ARR/DEP	WEATHER				MSAW OFF	AP	GT

TPS-79 - Operationally Proven, In-Production Air Surveillance Capability

OP STAT	ALARM
PREF	

MAPS		
MAP 1	MAP 2	MAP 3
MAP 4	MAP 5	MAP 6

SD CONTROLS		
RANGE	RNGMARK	PRESET
15	10	

TRACK ATTRIBUTES		
HISTORY	LEADER	VECTOR
5	1	1
HST INT	PER INT	
5	250	

COAST/SUSPEND
UAL123 C 444

ALTINETER
15/47 ANG 29.50

MICRO-EARTS ATC FUNCTIONS									
TRK	TRK	TRK	TRK	HAND	FLT	MULTI	AMP	I/F	DISP
STRT	RPOS	SUSP	DROP	OFF	DATA	FUNC		PRT	UTIL
CA	MSAW			TOT		SISO	DISP		
				GEN			FUNC		

Features

- ☐ Enhanced target detection in clutter/electronic interference environments
- ☐ Solid state S-band transmitter with frequency agility
- ☐ Integrated primary/secondary antenna
- ☐ Local or remote control & system monitoring
- ☐ Fail-Soft capability - high reliability/availability
- ☐ ICAO certified
- ☐ FAA certified ATC display system
- ☐ Six level weather detection
- ☐ Field proven system currently in production

Rapid Deployment, High Mobility

- ☐ Supports air traffic control in isolated operating locations
- ☐ C-130 transportable
- ☐ Standard NATO handling fittings
- ☐ Adaptable to existing, in-inventory primary transport vehicles
- ☐ Set-up/tear down in less than one hour



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Performance

Frequency:	S-Band 2.7-2.9 GHz
Peak Power:	21 kw
Signal to Clutter:	> 42 dB SCI
Detection:	> 80% on 1m ² @ 80 nm (12.5 rpm) > 80% on 2m ² @ 102 nm (6 rpm)
Altitude:	26,000 ft (12 rpm) 32,000 ft (6 rpm)
Azimuth:	360°
Elevation:	0° to 30°
Range:	0.5 – 80/102 nm
Update Rate:	4.8 sec/10 sec
Target Capacity:	> 700 targets
MTBCF:	> 1,250 hours
Availability:	> 0.99
Deployment:	< 60 minutes

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