



Filtro
Teclas de at
WMS Externo

RMT 0200

Weather Radar
Solid State

Prediction of severe weather events in defense of society

Weather Radar, Doppler, S-Band, Dual Polarization, Solid State

Radar RMT 0200 was developed for the detection of meteorological phenomena over long distances, operating in Dual Polarization with Solid State Amplifier technology.

Produced with state-of-the-art technology, the RMT 0200 is made up of several subsystems that perform specific functions such as transmission, reception, processing, monitoring, operation and control, being among the most recommended sensors for mesoscale weather supervision and known forecasting, such as “nowcasting”.

It has a transceiver based on Software Defined Radio (SDR) technology and uses the non-linear modulation technique (NLFM) to mitigate Side Lobes.

Due to its radiating system with a beam opening of 1 degree in the horizontal and vertical polarizations simultaneously, the RMT 0200 allows the classification of meteorological events according to the type and behavior of hydrometeors.

Among the meteorological phenomena are the classification of rain, detection of precipitation, detection of severe weather and hail.

Main Features

- Compact and robust equipment, compatible with shelter installation
- Modular and with low operating costs.
- It has an extensive range of products, enabling support for decision-making in the areas of Air Traffic Control, Civil Defense, Agriculture, Water Resources Management and Research & Development Centers;
- Radar System has a software package that covers all the needs of analysis, supervision and operation of the system, including Meteorological Command and Control via Web, allowing integration with Air Traffic Control Systems, through SWIM (System Wide Information Management) capabilities, ASTERIX CAT 8/9 format and other high resolution formats.



Weather Products

PPI (Plan Position Indicator)	Standard Analysis	PRT (Point Rainfall Total Plot & Table)	Analyze Hydrologic
RHI (Range Height Indicator)		RSA (River Subcatchment Accumulation)	
CAPPI (Constant Altitude PPI)		RGauge (Radar gauge)	
VXSECT (Vertical Cross Section)		VPR (Vertical profile correction)	
MAXDISPLAY (Maximum Column CAPPI)		RDS (Shear in Radial Direction, Radial Shear)	Turbulence and Shear
STSC - PDMR (Sistema de Tempo Severo Convectivo)	Specialized Processing and Corrections	AZS (Shear in Azimuth Direction, Azimuth Shear)	
SCCE 0100 (Correção Volumétrica de Interferência)		ELS (Shear in Elevation Direction, Elevation Shear)	
RCLASS (Rainfall Classification)		RAS (Shear Combined Range and AZ direction, 2D Az shear)	
BBLC (Beam Blockage Correction)		RES (Shear Combined Range and EL direction, 2D El shear)	
BBC (Bright Band Detection and Correction)		3DS (Shear Combined Range, AZ and EL direction, 3D Shear)	
PREC (Precipitation Attenuation Correction)		HZS (Shear in Horizontal Layer Direction, Horizontal Shear)	
VPR (Vertical Profile of Rain Correction)		VCS (Shear in Vertical Layer Direction, Vertical Shear)	
OCC (Beam Occultation Correction)		SHEAR (All Shear-Package)	
ETOP (Echo Top)	Eco Height Analysis	LTB (Shear between Two Layers, Layer Turbulence)	Severe Weather Alert and Phenomena Detection
EBASE (Echo Base)		LLSHEAR (Low level wind Shear)	
LMAX (Layer Maximum)		VIR (Vertically Integrated Reflectivity)	
CMAX (Column Maximum)		WARN (Automatic Severe Weather Warning)	
VAD (Velocity Azimuth Display)	Wind Analysis	HMC (Hydrometeor Classification)	
VVP (Volume Velocity Processing)		SSANA, SSA (Storm Structure Analysis)	
UWT (Uniform Wind Technique)		MESO (Meso Cyclone Detection)	
HWIND (Horizontal Wind)		CDVER, VERG (Convergence/Divergence Product)	
CMM (Combined Moment Display)	Storm Analysis	SWI (Severe Weather Indicator)	
SRV (Storm Relative Velocity)		DSD (Dust Storm Detection)	
SMV (Spectrum Mean Velocity)		HAIL (Hail Detection)	
LMR (Layer Mean Reflectivity)		MBURST (Microburst Detection)	
SWAD (Severe Weather Analysis)		GUST (Gust Front detection)	
SRI (Surface Rainfall Intensity)	Hydrological Analysis	FCOM-WARN (Severe Weather Feature Combination)	Follow-up and Forecast
SHR (Surface Hourly Rainfall)		IDW (Ice Detection and Warning)	
VIL (Vertically Integrated Liquid)		ITRACK (Interactive Storm tracking)	
PAC (Precipitation Accumulation)		STP, GSF (Automatic Storm tracking)	
PAL (Long Time Accumulation)		RSTP (Rain Tracking)	
RIH (Rainfall Intensity Histogram)		CSTP (Centroid Tracking)	
		MOSAIC (Radar Network Composite)	



iacit.com.br

marketing@iacit.com.br

Tel : +55 (12) 3797 7777



CMMIDEV /3SM

CMMI#V2.0 / Exp. 2022-08-08 / Appraisal #50003



© 2025 IACIT – All rights reserved