

# 3ATI RWR

## THREATS WARNINGS DISPLAY

### Advanced, LCD Based Radar Warning Receiver (RWR) Display

- High Reliability, LCD Display with LED backlight
- FFF Replacement to existing CRT displays
- Advanced, color Threats Warning management

Astronautics' smart Radar Warning Receiver (RWR) display is an advanced solution for modern & legacy Electronic Warfare (EW) systems. The high-reliability, color Active Matrix LCD (AMLCD) display incorporates an internal DSP processor that handles external interfaces, processing and RWR graphics display generation and color presentation of threats.



Astronautics' digital color RWR display is a Fit Form & Function (FFF) **replacement to legacy systems that currently use CRT based displays**. The high-reliability (over 6,000 hours) display provides a significant Life Cycle Cost (LCC) improvement, compared to existing and difficult to maintain CRT based displays.

The RWR Display features are:

- Excellent optical performance (brightness, contrast, resolution).
- Internal symbols generation.
- Analog video interface.
- Standard communication with Host.

# 3ATI RWR PERFORMANCE

GENERAL SPECIFICATIONS	
Useable Display Area	2.4 x 2.4 inch
Resolution	480 x 480 color pixels (RGB)
Luminance	250 fL
Luminance Uniformity	75%
Viewing Angles	±70° horizontal and vertical
Contrast (no ambient light)	500:1
Reflections ( specular / diffused)	1.2% / 0.10%
Shades of grey	8 bit per primary color
ELECTRICAL SPECIFICATIONS	
Video Interfaces available	Standard analog (VKA)
Communication	RS-422, ARINC-429, Ethernet
Power	28VDC (MIL-STD-704A), 20W (additional 8W for Heaters)
MECHANICAL SPECIFICATIONS	
Dimensions	82.8 x 82.8 x 90 mm / 82.8 x 82.8 x 140 mm (with Video I/F)
Mounting	Standard 3ATI clamp or direct panel mounting (4 bolts)
Cooling	By natural convection and radiation
Weight	1.2 Kg
ENVIRONMENTAL SPECIFICATIONS	
General	Per MIL-STD-810F
Temperature - operating	-40°C to +55°C continuous; +71°C intermittent
Temperature - storage	-55°C to +85°C
Altitude	0 to 30,000 Feet
Vibration	5g, 50-2000 Hz
Shock	15g, 11 milliseconds
Humidity	Up to 95% at 40°C
EMI/EMC	Per MIL-STD-461E