

Multifunction Radar Display

Honeywell



Honeywell's MFRD combines the display of weather radar, traffic, terrain, navigation maps and other data into a single 6.24" x 4.82" space-saving multifunction instrument.

Designed to work with various weather radar systems, traffic collision avoidance systems, enhanced ground proximity warning systems, flight management systems and navigation systems, the MFRD provides an upgrade path to

additional systems while conserving valuable instrument panel space. With greater than 200 pixels per inch, the Honeywell MFRD is the highest resolution display of its size in the industry. This powerful new display will change the way you look at instruments.

Honeywell's new MFRD is designed to work with the avionics you have today, and, is so versatile that it is easily updated to work with the avionics of tomorrow. With the coming changes in communication, navigation, surveillance/air traffic management (CNS/ATM), this MFRD prepares your airplane for the new world of free-flight. Simply put, our MFRD is tough, reliable and easy to upgrade. Designed and produced using Six-Sigma standards, the MFRD is a display that simply works - period.

Now that's multitasking, in the best sense of the word.

A Multifunction Radar Display for a Multisystem World

Available in Multiple Configurations

The latest MFRD software release supplies a control bus signal to Honeywell EFIS systems (EDZ-601/801/603/803) to provide EFIS range control, allowing the MFRD to be installed in aircraft equipped with a Primus 440, 450, 650, 660, 870 or 880 weather radar system.

For cost-conscious operators that would like to begin the upgrade to a multifunction display, we offer a Radar Only configuration.

MFRD Compatible Applications

Weather Radar

- Primus 300/300SL
- Primus 400/400SL
- Primus 440
- Primus 450
- Primus 660
- Primus 650
- Primus 880
- Primus 870
- RDR-1E/1F
- RDR-4A/B

Traffic

- CAS 66
- CAS-67/81
- L3 TCAS
- L3 TCAS 2000
- Honeywell Bendix/King KTA 870, 970
- Honeywell Bendix/King KMH 880, 980

Terrain

Serves as an indicator for all Honeywell EGPWS products

FMS/NAV

- GNS XLS
- UNS-1
- KLN900
- KLN90B
- HT9100
- CMA900

Checklist

ECS-800 (based on Primus 1000 baseline), via RS-232

Commercial Electronics Systems

Electronics & Lighting
Honeywell International Inc.
550 State Route 55
Urbana, OH 43078
Tel: 937.484.2000

www.honeywellaes.com/lighting/index.jsp

Lightning

Serves as an indicator for the Honeywell LSZ-850 & 860 Lightning sensors

MFRD Specifications

Physical

- Size: 6.24"(w) x 4.82"(h) x 8.38" (panel depth)
- Weight: approximately 7.5 pounds



Traffic (TCAS)



Navigation / Map



Weather (with pull-down menus)



Weather with Navigation & Traffic overlay

- Color active matrix liquid crystal display

Display

- Viewing angle (Normal to Cover Glass):
Horizontal: +/- 45°
Vertical: +30° above, -10° below

- Active viewing area: 5.08"H x 3.81"W, 6.30" diagonal
- Brightness: 0.1 to >150 FL
- Pixel configuration: 1024 x 768 color groups (>200 pixels/inch)
- Dimming ratio 1500:1 Typical, min. 64 dimming steps

Power

- Power supply: 28 VDC or 115 VAC, 400 Hz
- Power consumption: 40W (typical)
- Lighting: 0-5 VAC, 0-5 VDC or 0-28 VDC

Options

- Alternate interfaces and functionality
- Custom functions & soft-keys
- Fully definable checklist

Full Configuration

- Black bezel: 80-5204-12-5 (28VDC); 80-5204-11-5 (115VAC)
- Gray bezel: 80-5204-14-5 (28VDC); 80-5204-13-5 (115VAC)

Radar Only Configuration

- Black bezel: 80-5214-2-2 (28VDC); 80-5214-3-2 (115VAC)
- Gray Bezel: 80-5214-4-2 (28VDC); 80-5214-5-2 (115VAC)

Certification

- FAA- TSO: C63c, C110a, C113, C118, C119b
- JAA-JTSO: 2C63c, C110a, C113, C118, C119b (anticipated)
- Software: RTCA DO-178B, Level B