THALES

OPTIMIZED FOR NAVAID INSTALLATION AND MAINTENANCE

- ▷ Supports Localizer, Glide Slope, Marker Beacon, VOR, and NDB
- Sunlight readable, touch screen display
- Adjustable backlight display
- ▶ Wide band spectrum analyzer for investigating interfering signals
- Data logging for continuous parameter recording
- ▶ Graphical modulation view and numerical displays of key parameters
- ▶ Rechargeable lithium-ion battery lasts over 4 hours
- Antennas and monopole support provided
- Durable lightweight enclosure same size and weight as Thales 7010 PIR



7020 Portable Navaid Receiver



| INSTRUMENT LANDING SYSTEM | | | | |
|---------------------------|---------------------|----------------------|------------------------|-----------|
| Mode | Input Selection | Channel Frequency | | |
| Localizer | RF (J1) | < | < 108.10 MHz > | |
| Basic Parameters | | | Frequency Measurements | |
| RF Level | -47.55 | dBm | ΔRF | 0.03 kHz |
| SDM | 40.23 | % | 90 Hz | 90.00 Hz |
| DDM | 0.0000 | DDM | 150 Hz | 150.00 Hz |
| 90Hz Mod. | 20.11 | | Special Functions | |
| 150Hz Mod. | 20.12 | | Data | Spectrum |
| Ident Mod. | **** | | History | Analysis |
| Demodulated Signal | | Demodulated Spectrum | | |
| | | | | |
| Screen Capture | Signal Select CI | ear | Select | Close |

7020 Portable Navaid Receiver

The 7020 Portable Navaid Receiver (PNR) is a signal analyzer which combines portability and convenience with a powerful receiver that can be used to analyze the received signals from ground-based navigation aids. The 7020 PNR uses a simple touch screen display and allows you to analyze navigation aid parameters, perform an ILS or VOR ground check, perform spectrum analysis, make low frequency audio measurements, and perform data logging.

STANDARD COMPLIANCE

Supports Localizer, Glide Slope, Marker Beacon, VOR and Non-Directional Beacon equipment signal analysis and measures parameters required by FAA maintenance orders and by ICAO 8071

TECHNICAL CHARACTERISTICS

Display: Color, 6.5-inch diagonal, sunlight readable, adjustable backlight

Spectrum Display Range: 75 MHz - 350 MHz, 0 to -90 dBm

Audio Display Range: 0 to 50 KHz, up to 10 volts peak (2 channels)

Data Logging: All available parameters for any supported navaid can be logged. User configurable interval from 1 second to 24 hours. Large internal storage allows for over 1 million records to be stored for later transfer to a USB stick. **Audio Output:** Allows user to monitor CW identification (built-in speaker with volume control)

Navigation Aid Measurements:

Inputs Supported (ILS and VOR): RF, audio ILS Input Level: 0 to -87 dBm VOR Input Level: 0 to -76 dBm Supports all Localizer (LOC) and Glide Slope (GS) configurations DDM Accuracy: LOC on-course signal ± .002 DDM GS on-course signal ± .003 DDM VOR: Supports conventional and Doppler VORs

Azimuth Accuracy: For 0 to -50 dBm, within ± .05 degrees Azimuth Accuracy: For up to -76 dBm, +/- 0.2 degrees Marker Beacon: RF level, % modulation Non-Directional Beacon: RF level, % modulation



ITALY

Thales Italia S.p.A.

20064 Gorgonzola (MI)

Tel. +39 02 950 951

Air Systems Division

Via E. Mattei, N.1

GERMANY

Thales Air Systems GmbH Lilienthalstrasse 2 70825 Korntal-Münichingen Tel. +49 (0)711 860 32 0 USA Thales Air Traffic Management U.S. 10950 El Monte Street

Suite 110 Overland Park, KS 66211 Tel. +1 913 422 2600