

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

AEROFLEX / IFR / MARCONI

Aeroflex IFR Marconi NAV-750B 1" Signal Generator

Manufacturer: Aeroflex / IFR / Marconi / Viavi Alias: NAV-750B; NAV750B; IFR NAV-750B; Aeroflex NAV-750B RF output level range B: 0 dBm to -127 dBm Channel spacing: 25 kHz with automatic channeling Alias: NAV-750B; NAV750B; IFR NAV-750B; Aeroflex NAV-750B RF output level range B: 0 dBm to -127 dBm Channel spacing: 25 kHz with automatic channeling VOR bearing selection class family: 0.01 degree steps



MODEL

**Aeroflex / IFR /
Marconi NAV-750B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

NAV-750B

LISTING

[https://aumictechlabs.c
om/products/nav-750b-
2/](https://aumictechlabs.com/products/nav-750b-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Aeroflex IFR Marconi NAV-750B is a self-contained bench signal generator engineered for semi-automatic functional testing and calibration of airborne navigation and communication receivers. It simulates VOR, ILS (localizer and glide slope), COMM, and marker beacon signals with precision accuracy, eliminating the need for multiple test instruments. The unit generates authentic modulation patterns and supports both manual and automatic frequency selection with variable rate control. Technical Specifications Frequency Ranges VOR: 108 MHz to 117.95 MHz ILS (localizer/glide slope): 329.15 MHz to 335 MHz COMM: 118.000 MHz to 156.000 MHz in 25 kHz steps Marker Beacon: 70.000 MHz to 79.000 MHz General RF: 100 kHz to 1.9 GHz Output Power

VOR: 0.1 μ V to 1000 μ V ILS: 0.1 μ V to 300 μ V Modulation Capabilities VOR: 30 Hz, 9960 Hz, or combined 30 Hz + 9960 Hz ILS: 400 Hz, 1300 Hz, 3000 Hz, 9960 Hz COMM: 1020 Hz tone (0–60% modulation depth) Precision 90 Hz and 150 Hz generators for on-course and off-course LOC/G/S simulation Frequency Accuracy & Control Crystal controlled, phase-locked in 25 kHz steps Accuracy: ± 10 ppm Variable frequency control: ± 30 kHz (marker beacon), ± 50 kHz (VOR/LOC/COMM), ± 150 kHz (glide slope) Auto-increment rates: 25, 50, 100, or 200 kHz VOR Bearing Control Twelve preset bearings at 30° intervals with $\pm 10^\circ$ adjustment Continuous bearing adjustment: 0.01° or 0.05° increments Bearing accuracy: $\pm 0.05^\circ$ Built-in bearing monitor displays to 0.01° resolution ILS Centering Accuracy: ± 0.001 DDM Physical & Environmental Dimensions: 9.2" $\times$ 5.4" $\times$ 2.5" (23.4 cm $\times$ 13.7 cm $\times$ 6.4 cm) Weight: 3.5 lbs (1.6 kg) Operating temperature: -10°C to 55°C Power: AC/DC adapter, 4 AA batteries, or external DC 11 V to 32 V Key Features LCD backlit display for real-time signal parameters Automatic frequency selection by thumbwheel or variable-rate auto-channeling ARINC Two-Out-of-Five wire frequency selection output Manual and external channeling inputs RS-232, USB, and optional GPIB interfaces Typical Applications VOR/ILS receiver certification and maintenance COMM transceiver functional testing Marker beacon system validation Avionics bench calibration Compatibility & Integration MIL-PRF-28800F Class 3 compliant and CE certified. Interfaces include RS-232, USB, optional GPIB, and ARINC Two-Out-of-Five wire output for direct integration with automated test systems and navigation equipment.

Features & description

From manufacturer datasheet

Features

• Complete VOR LOC COMM MKR and G/S generator • ARINC two-out-of-five wire frequency selection output • 25 kHz spacing with automatic channeling • 40 paired LOC G/S frequencies • Step attenuator RF output with 1.0 dB steps • Built-in bearing monitor and 100 Hz frequency resolution

Applications

• Bench calibration of airborne VOR receivers • Localizer and glide slope receiver functional tests • Marker beacon and COMM transceiver testing • Avionics shop semi-automatic NAV/COMM alignment

NAV750B Characteristics / Specifications

PARAMETER	VALUE
Model	NAV-750B
Manufacturer	Aeroflex / IFR / Marconi / Viavi
Instrument Type	NAV COMM Bench Test Set
Alias	NAV-750B; NAV750B; IFR NAV-750B; Aeroflex NAV-750B
Marker beacon band	70 to 79 MHz
NAV COMM band	108 to 156 MHz
Glide slope band	329 to 335 MHz
RF output level range B	0 dBm to -127 dBm
RF output step size B	1.0 dB
Channel spacing	25 kHz with automatic channeling
Paired LOC G/S frequencies	40
Frequency resolution	100 Hz
VOR bearing selection class family	0.01 degree steps
Systems supported	VOR LOC G/S MKR COMM
ARINC frequency select	two-out-of-five wire output
Modulation auto select	VOR or LOC
Bearing monitor	built-in
Form	benchtop avionics test set
COMM band upper	156 MHz
Marker lower	70 MHz
Marker upper	79 MHz
Glide slope lower	329 MHz
Glide slope upper	335 MHz
Primary use	semi automatic functional test and calibration
RF display units family	dBm uV mV orVEMF class

PARAMETER	VALUE
DDM setting class family	LOC and G/S deviation depth modulation
SDM setting class family	sum depth modulation
Publication class	IFR NAV-750B data sheet and operation manual Notes Band coverage and RF step size from Aeroflex/IFR NAV-750B/BR product descriptions. Confirm exact DDM/SDM accuracies and installed options against the NAV-750B operation manual for the serial.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Model	NAV-750B
Manufacturer	Aeroflex / IFR / Marconi / Viavi
Instrument Type	NAV COMM Bench Test Set
Alias	NAV-750B; NAV750B; IFR NAV-750B; Aeroflex NAV-750B
Marker beacon band	70 to 79 MHz
NAV COMM band	108 to 156 MHz
Glide slope band	329 to 335 MHz
RF output level range B	0 dBm to -127 dBm
RF output step size B	1.0 dB
Channel spacing	25 kHz with automatic channeling
Paired LOC G/S frequencies	40
Frequency resolution	100 Hz
VOR bearing selection class family	0.01 degree steps
Systems supported	VOR LOC G/S MKR COMM
ARINC frequency select	two-out-of-five wire output
Modulation auto select	VOR or LOC
Bearing monitor	built-in
Form	benchtop avionics test set
Related model NAV-750BR: same versatility with BR RF step specs	
Specifications	
PARAMETER	VALUE
COMM band upper	156 MHz
Marker lower	70 MHz
Marker upper	79 MHz
Glide slope lower	329 MHz

PARAMETER	VALUE
Glide slope upper	335 MHz
Primary use	semi automatic functional test and calibration
RF display units family	dBm uV mV orVEMF class
DDM setting class family	LOC and G/S deviation depth modulation
SDM setting class family	sum depth modulation
Publication class	IFR NAV-750B data sheet and operation manual

Notes

Band coverage and RF step size from Aeroflex/IFR NAV-750B/BR product descriptions. Confirm exact DDM/SDM accuracies and installed options against the NAV-750B operation manual for the serial.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 13, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.