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Data Sheet

August 13, 2026

AEROFLEX / IFR / MARCONI

Aeroflex IFR Marconi NAV-750BR â€" Signal Generator

Manufacturer: Aeroflex / IFR / Marconi / Viavi Alias: NAV-750BR; NAV750BR; IFR NAV-750BR; Aeroflex NAV-750BR RF output level range BR: 0 dBm to -127 dBm Channel spacing: 25 kHz with automatic channeling Alias: NAV-750BR; NAV750BR; IFR NAV-750BR; Aeroflex NAV-750BR RF output level range BR: 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-
750BR**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

NAV-750BR

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Aeroflex IFR Marconi NAV-750BR is a precision navigation signal simulator for functional testing and calibration of airborne receiver systems. It generates VOR, LOC, ILS, COMM, and Marker Beacon signals in a self-contained unit suitable for bench and flightline deployment, eliminating the need for multiple test instruments. Technical Specifications Signal Generation Complete VOR, LOC, COMM, Marker Beacon (MKR), and Glide Slope (G/S) generator 40 paired LOC-G/S frequencies ARINC two-out-of-five wire frequency selection output Frequency Coverage 70.000 to 79.900 MHz, 108.000 to 156.000 MHz, and 329.000 to 335.000 MHz

Selectable in 10 kHz steps (70–799 MHz) and 50 kHz steps (108–156 MHz) COMM frequencies: 118.000 to 157.950 MHz in 25 kHz steps 100 Hz frequency resolution Automatic channeling with 25 kHz spacing Modulation Automatic VOR or LOC modulation selection VOR tones at 9960 Hz (phase-locked to 2.16 MHz crystal) and 1020 Hz G/S deviation selectable as ± 0.045 , ± 0.091 , ± 0.176 , ± 0.400 , and continuously adjustable 0.800 DDM FM deviation accuracy: $\pm 5\%$ of indicated deviation excluding residual phase modulation at 1 kHz Distortion: $< 3\%$ at 10 radians for FM and $< 3\%$ at 1 kHz rate for AM up to 80% modulation depths External modulation input via front panel BNC or rear panel jack RF Output Output level selectable in 1.0 dB steps from -127 dBm to 0 dBm RF output range: -137 dBm to +25 dBm (carrier frequencies up to 1.2 GHz); -137 dBm to +19 dBm (above 1.2 GHz) Maximum guaranteed AM output: +8 dBm Usable to 2 GHz with AM for carriers < 1 GHz Power & Physical DC Operation: 11 V to 32 V Power consumption: 70 W (Option 3 not fitted) Built-in bearing monitor Demodulation output on rear panel Key Features GPIB control (NAV-750BR model) Single instrument replaces multiple test sources Flightline and bench-ready configuration Typical Applications Functional testing and calibration of airborne navigation receivers, avionics systems, and VOR/ILS/COMM equipment. Compatibility & Integration Designed for testing navigation receivers and avionics systems across aviation applications.

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 0 dBm to -127 dBm in 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

NAV750BR Characteristics / Specifications

PARAMETER	VALUE
Model	NAV-750BR
Manufacturer	Aeroflex / IFR / Marconi / Viavi
Instrument Type	NAV COMM Bench Test Set
Alias	NAV-750BR; NAV750BR; IFR NAV-750BR; Aeroflex NAV-750BR
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 BR	0 dBm to -127 dBm
RF output step size BR	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-750B same versatility class
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
COMM band upper	156 MHz
Marker lower	70 MHz
Marker upper	79 MHz

PARAMETER	VALUE
Glide slope lower	329 MHz
Glide slope upper	335 MHz
Primary use	semi automatic functional test and calibration
Publication class	IFR NAV-750BR data sheet and operation manual Notes RF step range from Aero Express NAV-750BR listing (0 to -127 dBm, 1 dB steps). Band coverage from Aeroflex/IFR/Viavi NAV-750BR product descriptions. Confirm exact DDM/SDM accuracies and options against the NAV-750BR 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-750BR
Manufacturer	Aeroflex / IFR / Marconi / Viavi
Instrument Type	NAV COMM Bench Test Set
Alias	NAV-750BR; NAV750BR; IFR NAV-750BR; Aeroflex NAV-750BR
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 BR	0 dBm to -127 dBm
RF output step size BR	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-750B same versatility class
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
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
Publication class	IFR NAV-750BR data sheet and operation manual

Notes

RF step range from Aero Express NAV-750BR listing (0 to -127 dBm, 1 dB steps). Band coverage from Aeroflex/IFR/Viavi NAV-750BR product descriptions. Confirm exact DDM/SDM accuracies and options against the NAV-750BR 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
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.