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**Data Sheet**

August 1, 2026

IFR

# IFR NAV-750C VOR/ILS/COMM Signal Generator

Aumictech offers NIST-traceable calibration and repair for the IFR NAV-750C. Calibration covers output frequency accuracy, output power level accuracy across the full frequency range, AM/FM/PM/pulse modulation accuracy, harmonic and spurious output levels, and phase noise floor verification. All calibrations ship with a NIST-traceable certificate. Turnaround is typically 1–3 business days after receipt. Common IFR NAV-750C faults: YIG oscillator failure (no output or loss of lock), step attenuator wear (output drops or steps at set attenuation), ALC loop failure (uncontrolled output power), I/Q modulator assembly failure. HP/Agilent 836xx series most common faults are YIG oscillator failure and step attenuator contact wear causing output steps or drops at specific attenuation settings. Keysight E4428C/E4438C units most commonly develop ALC loop failure and I/Q modulator assembly faults.



MODEL

**IFR NAV-750C**

CALIBRATION

**Available on request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**NAV-750C**

LISTING

<https://aumictechlabs.com/products/nav-750c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

## This unit

The IFR NAV-750C signal generator is a specialized instrument used for testing and calibrating aircraft navigation systems. It is capable of generating a wide range of RF signals that simulate VOR, localizer, glideslope, and marker beacon signals. This allows technicians to thoroughly test

the performance and accuracy of aircraft navigation receivers. The NAV-750C is a valuable tool for ensuring the safety and reliability of aircraft navigation systems.

## Features & description

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From manufacturer datasheet

### Features

- Dedicated avionics modes: ILS, VOR, Marker Beacon, ADF, SELCAL • Functionally identical to IFR 2030 + Option 1 + Option 6 • Frequency coverage 10 kHz to 1.35 GHz (2030 platform) • ILS SDM resolution 0.1%; DDM to 0.01% (up to 20% DDM) • VOR bearing entry 0 to 359.9 degrees in 0.01 degree steps; bearing accuracy +/-0.05 degree • Marker beacon outer/middle/inner presets (default 75 MHz carrier) • SELCAL two-character-pair code generation • Large dot-matrix display; nonvolatile memories and sequenced recall • GPIB remote control (2030 series)

## NAV750C Characteristics / Specifications

| PARAMETER                | VALUE                                                                                                                                                                                                                           |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                    | NAV-750C                                                                                                                                                                                                                        |
| Manufacturer             | IFR / Aeroflex (later VIAVI)                                                                                                                                                                                                    |
| Instrument Type          | Avionics / VOR-ILS-COMM signal generator                                                                                                                                                                                        |
| Equivalent Configuration | 2030 with Option 001 and Option 006                                                                                                                                                                                             |
| Carrier Frequency Range  | 10 kHz to 1.35 GHz ILS Mode                                                                                                                                                                                                     |
| Tone Frequencies         | 90 Hz and 150 Hz (linked to adjustable 30 Hz ILS rate in 0.1 Hz steps)                                                                                                                                                          |
| SDM Range                | 0 to 99.9% in 0.1% steps                                                                                                                                                                                                        |
| DDM Range                | 0 to 20% in 0.01% steps; 20 to 99.9% in 0.1% steps                                                                                                                                                                              |
| RF Accuracy of DDM       | +/-0.02 of setting +/-0.0003 DDM; on-course (0 DDM) +/-0.0003 DDM                                                                                                                                                               |
| Bearing                  | 0 to 359.9 degrees in 0.01 degree steps; TO/FROM                                                                                                                                                                                |
| Bearing Accuracy         | +/-0.05 degree                                                                                                                                                                                                                  |
| Subcarrier               | 9.96 kHz FM by 30 Hz tone; AM depth 0 to 49.9% 30 Hz Tone AM: 0 to 49.9%; arithmetic sum with subcarrier limited to 99.8%                                                                                                       |
| VOR Rate                 | 30 Hz adjustable in 0.1 Hz steps Marker Beacon                                                                                                                                                                                  |
| Default Carrier          | 190 kHz; 30% AM at 1 kHz (not applicable with Option 12 electronic attenuator fitted on related 2030 configs) SELCAL Two character-pair codes; default tone duration 1 s, gap 250 ms (adjustable) Standard Operating Conditions |
| Dedicated avionics modes | ILS, VOR, Marker Beacon, ADF, SELCAL                                                                                                                                                                                            |

# 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-750C                                 |
| Manufacturer             | IFR / Aeroflex (later VIAVI)             |
| Instrument Type          | Avionics / VOR-ILS-COMM signal generator |
| Equivalent Configuration | 2030 with Option 001 and Option 006      |
| Carrier Frequency Range  | 10 kHz to 1.35 GHz                       |

ILS Mode

Specifications

| PARAMETER          | VALUE                                                                  |
|--------------------|------------------------------------------------------------------------|
| Tone Frequencies   | 90 Hz and 150 Hz (linked to adjustable 30 Hz ILS rate in 0.1 Hz steps) |
| SDM Range          | 0 to 99.9% in 0.1% steps                                               |
| DDM Range          | 0 to 20% in 0.01% steps; 20 to 99.9% in 0.1% steps                     |
| RF Accuracy of DDM | +/-0.02 of setting +/-0.0003 DDM; on-course (0 DDM) +/-0.0003 DDM      |

Localizer / Glide-Slope: single-key mode change

VOR Mode

Specifications

| PARAMETER        | VALUE                                            |
|------------------|--------------------------------------------------|
| Bearing          | 0 to 359.9 degrees in 0.01 degree steps; TO/FROM |
| Bearing Accuracy | +/-0.05 degree                                   |
| Subcarrier       | 9.96 kHz FM by 30 Hz tone; AM depth 0 to 49.9%   |

30 Hz Tone AM: 0 to 49.9%; arithmetic sum with subcarrier limited to 99.8%

VOR Rate: 30 Hz adjustable in 0.1 Hz steps

Marker Beacon

Default Carrier: 75 MHz; 95% AM; 400 Hz / 1.3 kHz / 3 kHz for outer/middle/inner

ADF Mode

Default Carrier: 190 kHz; 30% AM at 1 kHz (not applicable with Option 12 electronic attenuator fitted on related 2030 configs)

SELCAL

Two character-pair codes; default tone duration 1 s, gap 250 ms (adjustable)

#### Standard Operating Conditions

Allow warm-up per 2030 series practice. Use calibrated RF attenuator/path for absolute level-critical receiver tests. Observe ICAO parameter conventions when entering DDM/SDM.

#### Operational Notes

Confirm whether the physical unit is labeled NAV-750C or a 2030 with Option 6. Pulse, DME, and electronic attenuator options follow 2030 option tables when fitted. Omit sales calibration banners from product identity.

# Ordering Information

| OPTION     | DESCRIPTION                                                                                                                                                      |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Option 001 | (second internal modulation oscillator) and Option 006 (avionics). It generates accurate ILS (localizer and glide-slope), VOR, marker beacon, ADF, and SELCAL wa |

## Available from Aumictech

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

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

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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.