

Terra by Trimble TN 200D

Navigation Receiver

A compact navigation receiver with advanced memory capabilities and an optional 40 channel glideslope receiver

The compact size of the Terra by Trimble TN 200D is just one reason why pilots find this feature-packed NAV radio so desirable.

The TN 200D provides precise navigation which can drive the Terra TRINAV and TRINAV C Electronic Course Deviation Indicators (ECDI), as well as other VOR/ILS indicators. It can also be equipped with an optional 40 channel glideslope receiver. This dealer-installed option can be added when you purchase your TN 200D or it can be added at a later date. The glideslope option allows you to channel DME systems.

The TN200D solid state navigation receiver is an ideal companion to the TX 760D communications transceiver and is designed with similar features. It has the same advanced surface-mount technology which offers benefits previously limited to airline avionics.

The Terra by Trimble single-knob cursor tuning feature allows you to quickly select 200 digitally synthesized navigation frequencies from 108.00 to 117.95. Frequency information is displayed on a brilliant planar gas discharge display. This display is clearly readable in bright sunlight and adjusts automatically to varying light conditions. In addition, the active and standby frequencies are displayed side by side and can be switched with a single push of the transfer button.

Thanks to its non-volatile memory, you can store, display, and select up to ten frequencies with the TN 200D. This Terra feature simplifies the re-selection of commonly used navigation stations, thus reducing pilot workload.

Like all Terra by Trimble avionics, the TN 200D comes in a rugged stainless steel mounting tray, in either a

single or dual chassis. You can also purchase an optional chassis that mounts into a standard 3" ATI cutout. This makes the unit even more flexible when planning your aircraft panel.

For the smallest receiver offering the biggest features, the Terra by Trimble TN 200D is the right fit.

Key Features and Benefits

- Highly visible planar gas display
- Easy-to-use single-knob cursor tuning
- Small and lightweight, easy-to-install
- Air show proven, rugged and reliable
- Unparalleled three year warranty

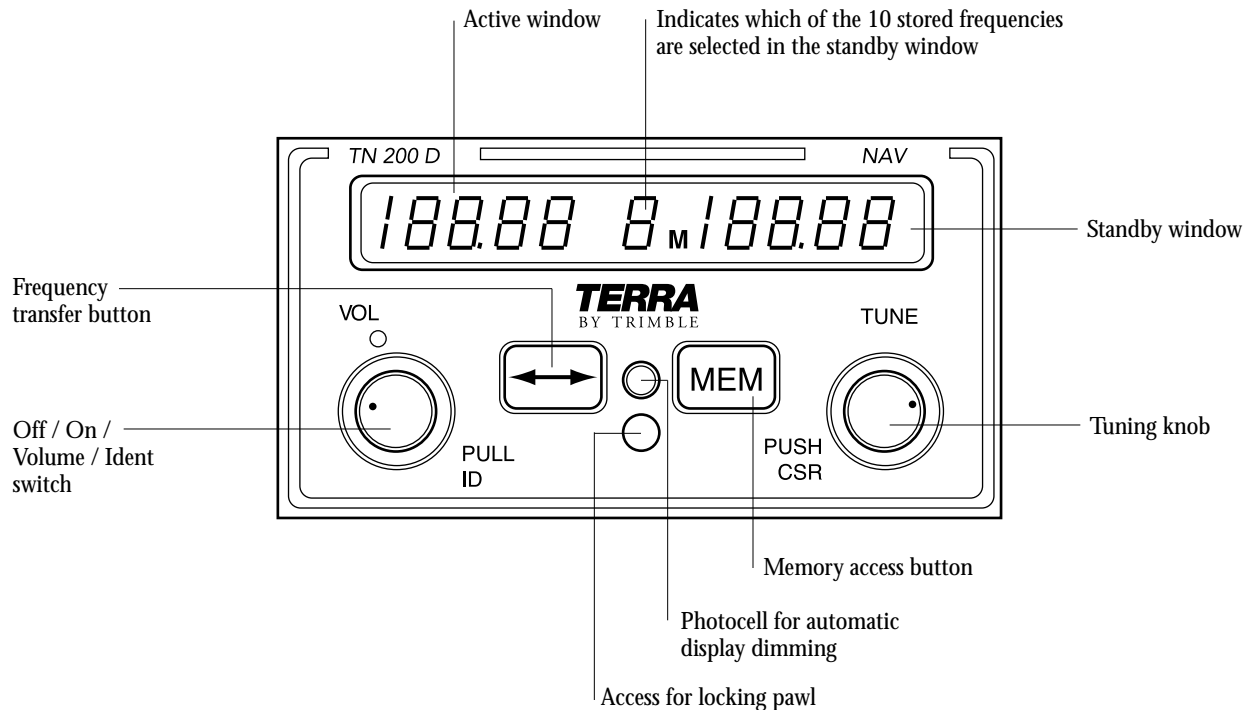


TERRA
BY TRIMBLE

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Navigation Receiver

Features



Technical Specifications

Navigation Receiver

200 Channel-108.00-117.95 MHz
 Dual, "active/standby" frequency display
 10 frequency storage
 Single knob tuning
 Gas discharge display, auto dimming
 Digital frequency synthesis
 Mounting tray and connectors included

Power Requirements:

13.75 VDC (27.5 VDC with optional
 MLC 28.5 voltage converter)

Receive Frequency:

1030 MHz

Current Requirements

0.4 A w/GS; 0.3 A w/o GS

Glideslope Receiver:

(optional) 40 channel. Provides full
 navigation for VOR/LOC ILS require-
 ments

Temperature:

-20°C to +55°C

Size:

3.125"W; 1.6"H; 11.45"L (incl. mount-
 ing tray)

Weight:

1.4 lbs w/GS; 1.1 lbs w/o GS

Sensitivity:

VOR/LOC, 2.0 μ V for half flag deflec-
 tion; Audio 1 μ V or less for 6 db
 S+N/N. (30% AM at 1,000 Hz)

Selectivity:

6 db bandwidth at \pm 17 kHz; 60 db
 bandwidth at \pm 50 kHz

Adjacent Channel Rejection:

60 db or more

Image Rejections:

70 db or greater

Ident Filter:

15 db minimum rejection of 1,020 Hz

Audio Output:

100 mW into 600 ohms (5 μ V modu-
 lated 30% with 1,000 Hz)

NAV Output:

VOR/LOC composite signal, adjustable
 from 0 to 1.0 vrms, DC coupled

Receiver RF Input Impedance:

Nominally 50 ohms

AGC:

Less than 2° deviation for input levels
 from 3 μ V to 30,000 μ V

Glideslope Receiver (Optional)

The Glideslope can be added to the TN
 200 D Nav Receiver at any time. The
 40 glideslope channels are automatically
 tuned when the frequency selector
 selects a Nav localizer frequency. The
 provision for remote channeling of
 DME systems is provided when the
 glideslope option is installed.

Frequency Range:

329.15 to 335.00 MHz

Sensitivity:

20 μ V or less for 60% of standard
 deflection

Deviation Loads:

Two, 1,000 ohm loads

Flag Loads:

Two, 1,000 ohm loads

DME Channeling:

ARINC 2 x 5 code
 Certified to FCC Part 15

*D model Comms, Navs ADF's and
 Transponders are also available in a standard
 3" ATI mount. Specifications subject to
 change without notice.



For Sales Information:
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