

## Operator Interface: Visibility

From the moment you switch on the power of the FT DX 9000, you realize there is something special before you. The information you need is right where your eyes are looking, and the display is not cluttered by extraneous data that is confusing and fatiguing. It's that "just right" feeling that lets you know that you own the very best.

### Superior Visibility, with Logical and Efficient Panel Layout

The FT DX 9000's front panel is uniquely operator-friendly. One's eyes are immediately drawn to the center of the transceiver, where the most important status and control operations take place. The large main tuning dial is located just below the easy-to-read frequency display, an area not cluttered by information other than frequency readouts. Operator stress is reduced by the clean display, coupled with the two large, analog meters immediately to the left of the frequency display. In the "D" version, a 6.5 inch TFT display is provided, which includes a real-time Spectrum Scope and a host of operational status indicators.

### Efficient Offset Tuning (Clarifier)

The oversized Clarifier control allows offset tuning of the receiver from the main operating frequency, for pile-up, contest, or even local ragchews when someone is off frequency. Green and Red LEDs indicate whether the Receiver or Transmitter, respectively, are being adjusted, and the amount of offset is clearly indicated in the main frequency display field.

### Clear, Precise Analog Metering System

The huge 3.4" (86 mm) metering system provides true analog precision and instant reaction time.



## Ergonomics

When your hand goes automatically to the right dial or switch on the front panel of a transceiver, you know that the ergonomics have been carefully thought out by the design team. It is this kind of extra care that gives you the edge during long operating sessions.

### Touch the Main Dial, and You Know the FT DX 9000 is Different. . .

The Main Tuning Dial is a large-diameter (3.2"/81 mm) dial directly coupled to the magnetic rotary encoder which drives the HRDDS via microprocessor control. Its heavy weight (7 oz./200 g) and quality mounting and construction provide a smooth "flywheel" effect during operation, ideal for quick cruising up and down a band.



The Main Tuning Dial is a new dual structure, utilizing the normal dial structure along with a rotating skirt that creates a small air gap. This air gap reduces sweat accumulation on the operator's fingertips, enhancing tuning precision during long operating sessions, especially on DX-peditions to hot tropical areas.

Ease of operation is further enhanced by the convenient positioning of frequency-determining switches immediately adjacent to the Main Tuning Dial. VFO and Memory selection switches are all located to the right, while the "Store" and "Recall" switches for the Quick Memory Bank (QMB) memory registers are easy-to-spot blue switches just to the left of the Main Tuning Dial.

### Three Large Knobs for Most Important Control Functions

On the lower right-hand side of the front panel, three large (1.5"/39 mm) knobs are provided for several of the most often-used control operations. The AF/RF Gain control utilizes high-quality, concentric volume controls with the extreme durability normally found on high-use test equipment. The SHIFT/WIDTH controls utilize a carefully-specified dial tension, so as to ensure both ease and precision in adjustment and stability of the settings.

### Dual Metering and LCD Status Monitors (Contest/MP Versions)

The two large analog meters to the left of the frequency display provide a wide range of data regarding operation on both receive and transmit. But the two meters to the right of the frequency display contain data not typically seen on Amateur transceivers, including PA voltage, PA Temperature, Bias Level, and SWR. The Bias may be adjusted via a front panel control, with continuous alignment possible between Class A and Class AB. In addition, four oversized knobs allow precise setting of the most important receiver filtering adjustments: CONTOUR, Digital Noise Reduction, VRF, and NOTCH (manual).

### Large-Area TFT Status/Information Display

Exciting display possibilities abound on the FT DX 9000. In addition to the "D" version's huge 6.5" 800 x 480 dot TFT display, the rear panel of the FT DX 9000 includes a "Display" jack for connection of an external monitor, if desired. The TFT includes a number of status displays, including a band-swept SWR display, Spectrum Scope, and multi-function World Clock. In the Spectrum Scope mode, the entire TFT becomes the spectrum display, for maximum viewing ease and resolution, important for discerning weak signals in the noise and interference on the band. And if you connect your keyboard (not supplied) to the rear panel keyboard jack, the TFT can serve as a display screen for a station log.

### Status Indication LEDs

Convenient indication LEDs are strategically positioned near the knobs or function displays associated with them, and in the case of the two receivers the functions are easily separated due to the Main Receiver being associated with Red LEDs, and the Sub Receiver with Orange. The easy recognition of functions and their status aids in reducing operator stress over long hours of operation.

### Panel Illumination

For ease of nighttime operation, the controls on the front panel are indirectly illuminated, thanks to carefully-positioned lamps in the frame underneath the meters and TFT (depending on model).



To the right of the other two primary control knobs is a "multi-function" knob that serves a number of important purposes. Its most-often-used tasks include VFO-B and Clarifier (offset) tuning, and the large diameter makes precise tuning effortless. When operating in the VFO-B mode, moreover, this knob may be used for tuning in 500 kHz steps (for quick "general coverage" band change), as well as operating mode selection for VFO-B. When operating in the "VFO-B" mode, the outer circle lights up in orange, matching the color of the VFO-B labels, thus preventing operator confusion and errors.



## The Total Operating Package

When you and the transceiver become as one, the total operating experience becomes pure joy. You think, the radio does, and no other transceiver makes it so possible to realize!

### Superb Panel Layout for the HF Aficionado!

Many important control functions have been brought out of the configuration menu and placed on the front panel, per the requests of active operators worldwide, and they're grouped in together for instant access. For CW operation, controls such as Pitch, Keyer Speed, CW Delay, and Keyer On/Off are all closely grouped, while for SSB the VOX Gain and Delay, Mic Gain, Processor Level, and Compression Level metering controls are positioned close together. And operations associated with the Sub Receiver are all assembled in a special area on the bottom left-hand side of the panel, so you may use your left hand for feature selection and your right hand for tuning of the Sub Receiver. Both direct frequency entry and one-touch band change are also provided, for efficient QSY.



### Features Crafted for Real-World Operation

The Quick Memory Bank (QMB) remembers frequency and mode data with one-touch Storage and Recall capability. And the FT DX 9000 also includes a valuable 30-second Digital Voice Recorder that stores the incoming audio for the most-recent 30-second period, so you can go back and review what was being received in case you missed some important information during the other station's transmission!

### Smart Memory Card for Data/Configuration Storage

The Smart Memory Card (option on some versions) allows storage, transfer, and recall of transceiver configuration data and operator preferences, for one-touch setup in a multi-operator DX-pedition environment. What's more, if you connect your keyboard (not supplied) to the rear panel, you can use the Smart Memory Card for storage of Logbook data, that can later be transferred to a personal computer for manipulation and archiving.



### FT dx 9000 Contest; Designed for the True Competitor!

If you're into contesting, you prize operating efficiency, and that's why we created the FT DX 9000 "Contest" version. Intended for elite-class DX-pedition and contest use, the FT DX 9000 Contest includes an extra Key and Headphone jack, so two operators may use the transceiver at the same time. Some of the "luxury" features of the "D" and "MP" versions are available as add-on options, but you and your group can add those later to configure your lean, mean contest machine just the way you want to!



## Configuration Options!

Configure your FT DX 9000 for the Best Operating Experience. . .Your Way!

### Customizing Options

You may select from among the following options when placing your order:

- Dual Receive Unit
- VRF Unit
- Tuning Units (1.8 MHz, 3.5/7 MHz, 10/14 MHz)
- Memory Card Unit (Flash Memory)
- TFT Unit (The Memory Unit is required for TFT operation)

If the TFT Unit is to be installed at a later date (not installed at the time of original purchase), the price changes, and an additional installation fee may apply. See your Yaesu dealer for latest pricing information.

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## Technical Overview

## Operation

## HF Cutting-Edge Transceiver FT DX 9000



Scheduled Introduction: December, 2004

The radio... **YAESU**  
Choice of the World's top DX'ers

Total Design Focus. . .

The Goal: Create the Greatest Transceiver Ever!

Then You Behold the Front Panel, and You Know. . .Yaesu Did It!



Future Production Model: **FT DX 9000MP** 400 W Version HF/50 MHz  
Dual Analog Meter Sets, LCD Display, Memory Card Installed, Main and Sub Receiver VRF, Full Dual RX,  
Switching External Power Supply/Twin Speaker Enclosure.

**FT DX 9000D** 200 W Version HF/50 MHz  
Large TFT Display, Built-in Memory Board, Main and Sub Receiver VRF, Full Dual RX,  
"µ" Tuning (3 modules) Installed, Internal Switching Power Supply

**FT DX 9000 Contest** 200 W Version HF/50 MHz  
Dual Meters + LCD, VRF Installed in Main Receiver, Extra Key and Headphone Jacks, Internal Switching Power Supply

One Look, One Listen. . .

And you'll understand that the FT DX 9000 truly represents

A New Dimension in Amateur Radio!

Photo: "FT DX 9000D" Actual Size