Product Catalog
HF&V/UHF ALL MODE TRANSCEIVERS
Inherent Passion and Inspiration
Creating the Future of HF communications
FT dx 101

True Performance
Hybrid SDRs (Narrow Band SDR & Direct Sampling SDR)
2kHz RMDR 123dB+
2kHz BDR 150dB+
2kHz 3rd IMDR 110dB+
400MHz IIR DDS (High Resolution Direct Digital Synthesizer)
2kHz Phase Noise -150dBc/Hz
VC-TUNE (Variable Capacitor Tune) signal peaking
3DSS (3-Dimensional Spectrum Stream) visual display

The Conclusive Choice
Offering True RF Performance & Exciting New Features

FTDX 101MP (200 W)
- External Power Supply with 100mm (3.9") Front Facing Speaker
- FTdx-101 included
- Tuning unit x 2 (Main and SUB bands) included
- 200 Hz Crystal Resonating Filter (MAIN band) included
- 800 Hz Crystal Resonating Filter (MAIN and SUB bands) included
- 3 kHz Crystal Resonating Filter (MAIN and SUB bands) included

FTDX 101D (100 W)
- Tuning unit (MAIN band) included
- Tuning for FTdx-101 included, please contact FTX000
- 400Hz Crystal Resonating Filter (MAIN and SUB bands) included
- 2kHz Crystal Resonating Filter (MAIN and SUB bands) included

Narrow Band SDR
Crystal Resonating Filters Enable Phenomenal Multi-Signal receiving characteristics
The Direct Conversion type receiver configuration is similar to the FTDX900. With a low noise figure dual gate MOS FET, J-signal DSRM Double Balanced Mixer, and excellent intermodulation characteristics, Narrow band SDR configuration with the 3kHz 9kHz makes it possible to have excellent narrow bandwidth crystal resonating filters that have the desired sharp clip edge shape faster. These high quality resonating filters enable the amazing multiasignal receiving performance demanded when faced with the most challenging reception interference situations.

- 5kHz Band Blocking Dynamic Range (DBDR)
- 10kHz Band Reciprocal Mixing Dynamic Range (RMDR)
- 3rd IF Dynamic Range (1MSR)
Dual Hybrid SDR Receivers (Narrow band SDR & Direct Sampling SDR)

The PT DX 101 series uses a hybrid SDR configuration that integrates a direct sampling SDR receiver in order to view the entire band status in real time, with the excellent dynamic receiver performance achieved by the narrow band SDR receiver circuit. The Direct Sampling SDR driving the real-time Spectrum display with its large dynamic range enables the weakest signal to be observed on the display when it appears and the Narrow Band SDR enables that signal to be selected, filtered and then decoded. If it is a powerful AM station near your location or in challenging operating situations where there are a lot of strong signals in the band from Co-located, EMI, etc., the user is able to filter those signals out using the very effective IIR filter at the front stage of the A/D converter. Therefore, interference is reduced making it possible to continue to operate even under such difficult conditions.

New Generation Display 3DSS

Intuitively grasp changes in the strength of the signals

The 3DSS display is a completely new system that displays the constantly changing band conditions in three dimensions (X, Y, and Z) on the horizontal axis (X axis), the signal strength on the vertical axis (Y axis), and the time axis on the Z axis. The operator can intuitively view the constant changes in a signal’s strength as the signal moves from the back of the screen giving you a sensation of traveling in Time space. The operator can easily see the change in GRM situation from the Narrow Band SDR output while at the same time easily assess activity across the whole band from the Direct Sampling SDR output.

Front Panel Design Emphasizes Solid Superior Response and Operability

ABI (Active Band Indicator)

The ABI indicator is arranged on the front panel as a horizontal axis above the VFO control. When the Band Select is selected, the LED indicates in white, and when the VFO Select is selected, the LED indicates in blue. When the control is turned, the LED turns red and you can instantly confirm which VFO is transmitting.

Ultra Low-Noise Local Oscillator System: 400MHz HIREDS (High Resolution Direct Digital Synthesizer)

The local circuit of the PT DX 101 uses the 400 MHz HIREDS method. This circuit configuration generates a local signal by directly dividing a high frequency of 400 MHz, thereby reducing the IF/LO mixing loss and C/N deterioration by the locking time does not occur. The 400 MHz HIREDS feature makes up for the C/N deterioration by directly dividing the frequency down to the center frequency by the operator. The signal is then provided to the receiver circuit, and as the result, the DRI (Dynamic Range Improvement) feature is improved. The PT DX 101 series uses the 400 MHz HIREDS local oscillator to achieve excellent dynamic range and C/N characteristics, and the careful selection of the components used in the design results in the noise floor characteristic of the local signal that achieves an excellent value of 40dBm at 1kHz separation.

Automatic RF Preselector VC-Tune with a high precision stepping motor

In the PT DX 101 series, a new-generation RF preselector VC-Tune design further improves the high performance RF and Tuning system, by using a remarkable miniaturization design while producing an unparalleled attenuation characteristic of maximum attenuation 20dB. A high precision stepping motor drives a variable capacitor (VC) to continuously vary the capacitance to follow the tuning by the operator. Fine-tuning for optimum improvement point is also available by using the MFPD (Multi-Purpose VFO Outer Dial) placed outside the main VFO dial knob.

MPFD (Multi-Purpose VFO Outer Dial)

The MFPD is a large high-resolution aluminum multithreaded ring around the outside of the VFO dial. The ring allows control of the VFO frequency dial, VC-TUNE, CARRIER and C/2 (carrier select function). The MFPD is a handy dial that allows you to adjust important functions in even-changing HF communications without taking your hand off the VFO.

Signal purity

High-Quality Transmission with outstanding Phase noise Characteristics

The excellent C/N characteristics provided by the 400MHz HIREDS (High Resolution Direct Digital Synthesizer) used in the local oscillator circuit also contribute significantly to the transmitter section performance. In the PTDX 101, through examination of each element up to the final TX stage was made. The clock-distribution that drives and distributes the local signal from the 400MHz HIREDS circuit to each block, as well as the PGA, D/A converter, the final power amplifier etc., and carefully selecting the latest circuit configurations to improve the C/N characteristics of the entire transmitter block. The transmit signal is directly generated from a 16bit D/A converter without passing through a mixer circuit, therefore distortion and noise are significantly suppressed. As a result, high-quality local signal characteristics are maintained without degradation at the final stage, and the transmission phase noise characteristics achieve 110 dBc/Hz at 3kHz separation.
Birth of a New Standard in HF Transceivers
Inheriting the Performance of the World Leading
FTdx101 HF Hybrid SDR radio

Hybrid SDR Receiver (Narrow Band SDR & Direct Sampling SDR)
9 MHz Down Conversion Receiver Configuration
IF Roofing Filters produce Excellent Shape Factor
IF DSP enables Superb Interference Rejection
5-inch TFT Color Touch Panel with 3DSS Visual Display
Superior Operating Performance supported by the MPVD

**Hybrid SDR with Ultimate Receiver Performance**

The FTdx10 uses a hybrid SDR receiver configuration with Narrow band SDR and a first IF or FMSC. The narrow bandwidth crystal roofing filters have the desired sharp “cut-off-edge” shape factor. The roofing filters enable the amazing multi-signal receiving performance demanded by operators faced with the most challenging on-air interference situations. The Direct Sampling SDR receiver, with its great dynamic range, drives the real-time spectrum scope, enabling the weakest signals to be observed on the display.

In combination with the down-conversion configuration, the FTdx10 has implemented an outstanding low-noise Local Oscillator and the latest circuit configuration where all circuit elements are carefully selected. As a result, the close-in ANR (Adjacent Channel Ratio) in the 14 MHz band is 116 dB or better, IMD (Intermodulation Distortion) in 141 dB or better, and the 3rd IMDR (Third Order Intermodulation Distortion Ratio) is 109 dB or better.

**Supplied Accessories**
- Hand Microphone SSM-7E
- DC Power cable

**Optional Accessories**
- 5W-70 Desktop Microphone
- Long wire Switching PTT Key
- Dual-Zone External Audio Filter

* Internal Speaker SP-20: Optional

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FTdx 10

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100 W

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<th>Frequency (MHz)</th>
<th>IMD (dB)</th>
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<td>141 dB+</td>
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<tr>
<td>140 MHz Band</td>
<td>116 dB+</td>
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**Receiver Block Diagram**
Ultra-Low-Noise Local Signal Generated by the 250MHz HIRDOS (High Resolution Direct Digital Synthesizer)

The CN ratio (carrier-to-noise ratio) of the local oscillator signal received into the 1st mixer, is an important factor in improving the close-in multi-signal receiver characteristics. The local signal of the FTDX10 is produced by directly dividing the high frequency of the 250MHz HIRDOS (High Resolution Direct Digital Synthesizer). In this circuit configuration of the SSB module, the conventional PLL, lock-out time becomes zero, and CN attenuation caused by the lock-up time does not occur. The significant improvement of the CN characteristic by directly dividing the frequency, contributes dramatically to reduction of noise in the entire receiver stage. The FTDX10 latest circuit design with the 250MHz HIRDOS and the careful selection of components, results in the phase noise characteristics of the local signal achieving an excellent value of -145dBc/Hz or better at 20kHz separation (1:100MHz band).

15 separate (HAM 10+-GEN 5) Powerful Band Pass Filters

There are 15 band pass filters (BPF) between the attenuators and the RF amplifier stages. These are divided into 10 Band Pass Filters dedicated to the amateur bands, and 5 BPF filters dedicated to the General coverage receiver (GEN). Band Pass filters are automatically selected according to the frequency band to eliminate out-of-band unwanted signals and send the desired signal to the RF amplifier.

Effective QRN rejection afforded by 10 DSP

The 32-bit high-speed floating point DSP, TMS320C6745 (maximum 294 MHz/220 MAVL) produced by Texas Instrument, is used for the IF section of the FTDX10. The signal processor operates at 38.46 MHz clock frequency.

The Yamaha Reverse Interference Reduction System: SHIFT / WIDTH / NOTCH / CONTOUR / AFF (Audio Peak Filter) / DNK (Digital Noise Reduction) / NB (Noise Blanker) controls are all accessible from the front panel.

M220 240 High Speed Floating Decimator Point DSP

Excellent visibility & Touch Panel Operation with 3DSS virtual display

A 5-inch TFT Color Touch Panel Display. The large pixel full-color touch panel display, offers intuitive management of operating frequency, stamina and main function settings.

DSSS (3-Dimensional Spectrum Stream)

The DSSS presents the constantly changing band conditions in three dimensions (X,Y,Z) with the frequency as the horizontal axis (X axis), the signal strength as the vertical axis (Y axis), and the time as the Z axis. The signal strength flows in time to the rear of the screen. The operator can intuitively view the constant changes in signal strength.

MULTI Display

In addition to the AF Spectrum Scope display, the MULTI Display mode allows both the oscilloscope and the AF-FFT audio scope to be shown on the screen simultaneously. Even in the contrast, the receive band MULTI display view allows monitoring of the transmit station’s transmit signal audio characteristics with the AF-FFT functions. All the same time the IF filter and interferer reduction functions can be observed on the MULTI display for the influence on the receive signal, etc.

Versatile Touch Panel Operation

- Frequency Direct Entry
  - In addition to frequency changes performed by the VFO dial, the FTDX10 supports two key frequency inputs using a keypad. An input displayed in the TFTP panel frequency display
  - Instant Frequency Setting by Scope screen
    - The transceiver frequency can be instantly changed to match a signal shown on the scope screen display by touching the peak of the desired signal.

High-Party Transmission Signal

- Based on the high-quality local signal generated by the 250MHz HIRDOS, the FTDX10 transmit signal is directly generated by a 16-bit IVA converter, thereby distortion and noise are significantly suppressed and CN of the entire TX block is improved. As a result, the transmission phase noise characteristics achieve -145dBc/Hz at 2kHz separation.

FTDX10 Final Stage

- High Speed Automatic Antenna Tuner

The FTDX10 internal antenna tuner uses microcomputer-controlled LC relay switching. Tuning data is automatically retained in a large capacity 100-channel memory. When changing frequency, the optimized antenna tuning data is immediately recalled to reduce tuning time, and realizes the best matching point.

Important primary operating functions are arranged near the VFO dial

- MPVD (Multi-Purpose VFO Outer Dial)
  - The large MPVD multi-purpose dial on the outside of the VFO dial can be used for comfortable frequency setting in combination with the VFO dial. The MPVD dial may also be assigned to adjust other functions that may be important in the ever-changing IF communications operations, without taking your hand off the VFO.

- FUNC (Function) knob
  - The FUNC knob is used to select an item in the setting menu, or change setting values, etc. The FUNC knob can be quickly selected to its items and then adjust the setting value or level with the same knob. A frequently used function or setting menu may be assigned, so it can be accessed quickly and the setting changed by simply turning the knob.

Excessive External input/output connections

- External Display Connection
  - An external digital video output terminal (DVOL) is provided on the rear panel. Directly connect an external display using a commercially available DVOL digital cable without the LAN connection or LAN unit. It enables video operation and communications such as projecting the detailed band conditions or filter settings by a high-resolution large screen monitor.

- Compatible Long Wire Auto Antenna Tuner (PC-40)
  - A tuner terminal on the rear panel supports the PC-40 auto antenna tuner that can match a wire 20m or more length to amateur bands 1.8MHz to 50MHz, 50MHz to 54MHZ. Matched frequencies are stored in 200 matching memories making tune-up much quicker when preparing to a previously used operating frequency.

- Equipped with Three USB Ports
  - Two USB ports (A type) on the rear panel are available to use for operating the transceiver and operating key PTT to a connected mouse and keyboard. A USB connection terminal (B type) that supports USB operations, audio output/input and TX control.

Remote Operation with Network Remote Control System

- Supports Spectrum scope and various functions
  - Enables comfortable operation even from a remote location
  - The LAN/Internet Network Remote Control system permits transceiver operation from a remote location (requires optional LAN unit). In remote operation, the transceiver's basic operations, the spectrum scope and the versatile displays enable sophisticated station control. Also, there are diverse exciting uses such as monitoring the band status on a large display at a location away from the "hot shot", by connecting to a base LAN network.
High Reliability and Durability are Assured for Long-lasting Enjoyable Operations on the HF Bands

FT-891

HF/50MHz 100W All Mode Exciting Field Gear Transceiver
In keeping with Yaesu’s uncompromising receiver design, The 3kilo Roofing Filter is included as standard equipment.

Rugged construction in an Ultra Compact body

ULTRA COMPACT Design
Measuring 6.1 x 2.0 x 8.6” (155 x 52 x 218 mm), the FT-891 is an innovative Multi-band, Multi-mode Mobile/Portable transceiver with Ultra Compact and rugged case design.

10W Reliable High Power Output
The FT-891 provides stable 100W high power output. High reliability is assured by the careful transmitter circuit design with efficient thermostatically-controlled dual internal fans and the decoder chassis.

Yaesu Uncompromising Receiver Circuit Design Ensures Excellent Performance
- Triple conversion with 1st IF frequency of 66-450 MHz (SSB-CW-AM)
- 3kilo Roofing Filter equipped as standard
- TCXO provides 0.5ppm high frequency stability (10kHz ±0.02ppm)

IF DSP Provides Effective and Optimized QRM Rejection
The 32kHz high speed floating Point DSP (with 3000 MIPs) provides effective cancellation/reduction (DNR) of the random noise that is frequently frustrating in the HF frequencies. Also the AUTO NOTCH (DNR) automatically eliminates the dominant beat tone. The CONTOR and the AFB are very effective receiver noise reduction tools in the HF bands operation. The YASUI original DSP and noise reduction functions are provided.

Large Diameter Main Tuning Dial (1.8”/41mm) with Torque Adjustment
The FT-891 operation is enhanced by the large diameter (1.8”/41mm) Main Tuning Dial, which is similar in size to the tuning knob of the larger-sized HF base station. The Torque of the Main Tuning Dial can be adjusted easily for your operating preferences.

Detachable Front Panel for Convenient Mounting and Operation
Convenient mobile operation by remotely mounting the Control Panel with the optional front panel separation kit (YSK-991).

GMB (Quick Memory Bank) Function
The GMB key accesses the five “Quick Memory Bank” registers, to organize and store groups of frequencies, and easily recall them.

Automatic Matching 100 Memory Antenna Tuner (Optional)
The PC20 is an optional microprocessor-controlled antenna tuner that is designed specifically for use with the FT-891. The PC20 can be easily attached to the FT-891.

Useful and Convenient Functions
- Large high contrast LCD display with Quick Memory Bank
- 320 level 4 level push button (FT-891S control)
- Tuning knob slider allows easy selection of memory groups (PC20 or base antenna)
- Advanced electronic tuning (0 to 40 WPM) with FULL BRK1 support
- Support for Antenna Tuning Aunit system (ATAS-1B, ATAS-22 Options)
A Superb All-Around Amateur Radio Transceiver with a built-in real-time spectrum scope and superior basic operating performance covering the HF/50/144/430 MHz bands

**Uncompromising Receiver Circuit Design Ensures Excellent Basic Performance from HF to VHF/UHF**

- Triple conversion with a last IF frequency of 0.45MHz for all bands
- Last IF stage implements a narrow bandwidth of 5 kHz receiving filter as standard equipment
- Designed for outstanding adjacent multi-signal characteristics, in the HF, VHF and UHF bands

**Supports Real-Time Spectrum Scope with Multi-Color Waterfall Display**

- Instantly evaluate band conditions with the built-in real-time spectrum scope
- Easily evaluates changing band conditions and easily find the desired signals. TX and RX markers are displayed on the scope for immediate grasp of the relationship between the TX and RX frequencies. The display color of the waterfall scope can be selected as desired.
- Supports multi-color waterfall display

The waterfall display function presents the strength of the TX signals using color variations flowing with time. This allows for visual recognition of even the faint signals which barely appear as peaks, offering a more detailed view of the band. The color of the waterfall can be selected from seven colors, or the multi-color array.

**Uncompromising Receiver Circuit Design Ensures Excellent Basic Performance from HF to VHF/UHF**

- The last IF mixer for HF/50 MHz features a quad mixer that satisfies extremely low noise, excellent intermediate characteristics, and high dynamic range.
- A dedicated VHF/UHF mixer is separate from the HF bands, and permits design optimization for targeted frequencies.
- RF amplifier design is optimized for each band

**Support for Advanced C4FM Digital Functions**

- 78 keys for simultaneous transmission of voice and data with powerful error correction is optional for mobile use. The built-in built-in (C4FM) uses high-speed digital communication to ensure precise communication.
- AM/FM function independently receives digital mode or FM, providing a wide variety of communication options with the same device.
- One type of DCS (Digital Squelch) enables selection of communication station

**Uncompromising Receiver Circuit Design Ensures Excellent Basic Performance from HF to VHF/UHF**

- High quality push-pull amplifier with 100 watts for HF and 50 MHz
- Using a push-pull arrangement of R61460HG2, 100W-FET devices that are renowned for excellent performance in the HF and 50 MHz bands.
- High speed 8.8 to 54 MHz system on standard equipment
- 50 W amplifier for VHF/UHF assures plenty of power for high frequency bands

**Supports Real-Time Spectrum Scope with Multi-Color Waterfall Display**

- Latest Touch Panel Operation, combined with traditional Front panel layout, achieves optimal operating convenience.
- Pull color TFT LCD display provides useful information about function status and settings at a glance.
- High response panel, with functional design and intuitive layout, makes touch operation a pleasure.
- User-customizable function keys offer quick access to user-defined assignments.
- Traditional layout of the Main Dial knob and related controls makes experienced users feel right at home.

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### Specifications

<table>
<thead>
<tr>
<th>Model Number</th>
<th>FTx 101MP</th>
<th>FTx 101D</th>
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</table>

#### RF Frequency Range
- **FTx 101MP:** 26.0-1000 MHz (operating)
- **FTx 101D:** 26.0-1000 MHz (operating)

#### TX Frequency Range
- **FTx 101MP:** 26.0-1000 MHz (operating)
- **FTx 101D:** 26.0-1000 MHz (operating)

#### Power Output
- **FTx 101MP:** 100 W (350 W, maximum continuous)
- **FTx 101D:** 100 W (350 W, maximum continuous)

#### Voltage
- **FTx 101MP:** 110 VAC, 220 VAC (selectable)
- **FTx 101D:** 110 VAC, 220 VAC (selectable)

#### Operating Temperature Range
- **FTx 101MP:** 5-40°C (up to 50°C for 48 hours)
- **FTx 101D:** 5-40°C (up to 50°C for 48 hours)

#### Dimensions (WxDxH)
- **FTx 101MP:** 150 x 110 x 120 mm (6 x 4.3 x 4.7 in)
- **FTx 101D:** 150 x 110 x 120 mm (6 x 4.3 x 4.7 in)

#### Power Rating
- **FTx 101MP:** 1000 W (2000 W, maximum)
- **FTx 101D:** 1000 W (2000 W, maximum)

#### Optional Features
- **Rotator Unit Dimensions:**
  - G-200DX/DA: 460 x 260 x 400 mm (18 x 10 x 16 in)
  - G-200DX/DA-120BB: 460 x 260 x 400 mm (18 x 10 x 16 in)

#### Options
- **G-1323:** External Transformer
- **G-1325:** Connection to (200) or (300) Band and (400) Band
- **G-1326:** Mounting Plate for (400) Band

#### Notes
- Specifications are subject to change, in the absence of technical specification, without notice or obligation, and are guaranteed only within the worst bands.
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