Building on the YAESU FT DX Heritage

The FT DX 3000D is the newest member of the YAESU FT DX Series. It inherits the design concepts of the FT dx 9000 and FT dx 5000 transceivers that have received high praise from all over the world by those pursuing the highest ideal of Amateur HF communication equipment.
The RF front end boasts the ultimate receiving performance

This is the Heritage of the High Performance Receiver

Phenomenal multi-signal characteristics that were demonstrated in the FT-8300D

Using the new 2nd Dynamic range measuring method with 10 kHz or 20 kHz separation, the FT-8300D performance is 106.2 dB, IP3 = 45 dBm (Test settings: CW 500 Hz BW, Tuning Filter: 600 Hz and IF is 60 Hz). With frequency separation of 20 kHz between the desired signal and an interfering signal, the dynamic range measures 106 dB and IP3 = 35 dBm (Test settings: CW 500 Hz Bandwidth, Tuning Filter: 600 Hz and IF is 60 Hz). This is amazing!

IDR (IMD Dynamic range) / IP3 (3rd-Order Intercept Point) characteristics

The powerful narrow bandwidth crystal roofing filter enhances the receiver multi-signal characteristics

The Down Conversion receiver construction is similar to the FT-8300D. The first IF frequency is 8 MHz. This makes possible the narrow bandwidth crystal roofing filter (1000 Hz) with a sharp side filter and creates the amazing multi-signal receiving performance. The 3 kHz roofing filter greatly improves IF signal reception, during adjacent multi-signal conditions. The 300 Hz and 600 Hz roofing filters provide the best CW receiving environment when the adjacent signals may affect the desired signal reception.

NOTE: 300 Hz filter optional.

10 kHz Separation

2 kHz Separation

High Quality, High Stablity Local Oscillator

High accuracy TCXO and the DDS & PLL circuits realize unmatched local oscillator signal quality

The 3.5 MHz TCXO and the DDS & PLL circuits realize unmatched local oscillator signal quality. The TCXO provides a ±0.3 ppm performance, and the DDS (Direct Digital Synthesizer) is a high-speed, high-resolution DDS with a ±0.3 ppm performance. This combination ensures exceptional stability and accuracy, ideal for demanding applications requiring ultra-stable frequencies.

The High Accuracy TCXO with ±0.5 ppm performance provides excellent frequency stability

This fundamental oscillator for the FT-8300D offers a high accuracy 45 MHz TCXO that provides ±0.5 ppm stability in the 20 MHz to 45 MHz frequency range. This TCXO exhibits superior stability in terms of temperature and long-term drift, making it suitable for applications that require high stability. Whether in the harsh environment of expeditions or in the controlled conditions of precision measurements, this TCXO delivers consistent and reliable performance.

TCXO Frequency Stability

Charateristics and frequency response of Roofing Filters
The RF front end boasts the ultimate receiving performance

This is the Heritage of the High Performance Receiver

Phenomenal multi-signal characteristics that were demonstrated in the FT-9000D

Using the new high dynamic range measuring method with 10 kHz signal separation, the FT-9000D performance is 10.2 dB, IP3 = +37 dBm. (Test settings: CW 100 kHz BW, Roofing Filter: 600 kHz and IP3 is OK, With frequency separation of 2.2 kHz between the desired signal and an interfering signal, the dynamic range measures 10.8 dB and IP3 = +33 dBm. (Test settings: CW 500 Hz Band Width, Roofing filter: 600 kHz and IP3 is OK) This is amazing!

IDR (IMD Dynamic range) / IP3 (3rd-Order Intercept Point) characteristics

The powerful narrow bandwidth crystal roofing filter enhances the receiver multi-signal characteristics

The Down Conversion receiver construction is similar to the FT-9000D.

The first IF frequency is 8 MHz. This makes possible the narrow bandwidth crystal roofing filter (50MHz, 100MHz or 2 MHz) with a sharp stage factor and creates the amazing multi-signal receiving performance. The 3 kHz roofing filter greatly improves SSB signal reception. During adjacent multi-signal conditions, the 300 Hz and 600 Hz roofing filters provide the best CW receiving environment when the adjacent signals may affect the desired signal reception.

*Note: 300 Hz filter optional.

High Quality, High Stability Local Oscillator

High accuracy TCXO and the DDS & PLL circuits realize unmatched local oscillator signal integrity

The 5M ratio (5 MHz ratio) of the local oscillator that is injected into the 1st IF mixer is one of the most important factors for improving the receiver properties in the ultra multi-signal environment. In the FT-9000D, the combination of the high stability and high accuracy of the TCXO (±5 ppm, 0°C ~ +45°C) and the DDS, create the fundamental frequency of this radio, and is locked to the PLL and VCO directly.

This circuit configuration and method creates the highest quality local oscillator with superior S/N performance. This means the receiver noise floor is kept lower, and realizes the best blocking dynamic range of 2 kHz IP3 performance. This is a phenomenal improvement.

The 3-step IF0 settings permit the most appropriate gain for best signal reception

The IF0 (Intercept Point Optimization) is selected by a control switch located on the front panel.

The IF0 selection determines the gain of the RF amplifier. The gain setting is very effective in optimizing the receiver performance, depending on the antenna and the communication propagation conditions. The IF0, ATT and one stage of the RF amplifier are used to optimize the signal levels that are sent to the mixer. This is especially important for HF broadcast operation. The AMP 1 uses one of the RF stages, and maintains a better balance between the sensitivity and the receiver performance (the gain is around 18 dB). In addition, AMP 2 uses two stages of the RF amplifier and can obtain higher sensitivity (the gain is around 18 dB). This variety of selections provides superior receiver performance and the best possible communications with strong band conditions.

The High Accuracy TCXO with ±0.5 ppm performance

The fundamental oscillator for the FT-9000D uses a high accuracy 40 MHz TCXO (99.99999%) which provides ±0.5 ppm stability in the entire 0°C ~ +45°C temperature range. This TCXO exhibits superior stability in the 1st and CNE communications that require the highest stability. Also in the harsh environment of expeditions, this TCXO provides precise frequency and high frequency stability.

TCXO Frequency Stability
**Effective IQM rejection with the FT DX 3000 IF DSP**

The 32-bit high speed floating decimal point DSP, TMS320C6727TR (maximum 2800 MIPS/ 2100 MLOPS) made by Texas Instruments, is used for the IF section of the FT DX 3000. The signal is processed with the high speed 300 MHz clock frequency.

**CONTOUR function ideally tails the received audio signal without changing the bandwidth**

The CONTOUR function varies the outline of the IF DSP filter pass band characteristics, and the main signal construction can be partially altered. Different from the IF SHIFT or IF WIDTH, the special CONTOUR pass band, can reduce or raise the desired signal partially, and continuously across the pass band. This feature is effective especially when the unwanted signals are close to the carrier frequency.

**Digital Noise Reduction (DNR) by DSP**

The installed digital noise reduction circuit provides 15 separate parameters. The noise reduction constants may be set to the optimal working point by varying the 15 step parameters according to the actual situation within the IF band. The desired signal components are passed and the random noise components are effectively canceled.

**The Final Amplifier provides stabilized high RF output**

For the RF feed and final RF 300MBW MDS filters are used in the post-amplifier construction. This circuitry provides stabilized RF power performance. The amplifier produces a clean transmit signal with less spurious emissions and distortion. The large heatsink is combined with the die cast chassis and the 1200W capacity. The material is aluminum that provides high heat conductive performance. This reduces the heat dissipation and dissipates the heat that is generated in the final amplifier section, which is directly derated from the chassis. This makes it possible to transmit continuously, and keep the temperature increase of the RF amplifier stage at the minimum range.

Further, the output is located just behind the final amplifier and the TX Low Pass Filter. This air filter can isolate the heat away from inside of the transmitter cabinet. The large 60 mm diameter air filter is mechanically isolated from the chassis to reduce vibration and noise. The speed of the fan is continuously controlled by the temperature of the PA amplifier starting at 40 degree C.

**Microphone Amplifier that includes Parametric Equalizer**

The microphone circuit of the FT DX 3000 utilizes the digital variable operational modulator type which creates ideal high quality telecommunication audio. This radio has the parametric equalizer that makes the possible variable adjustment of the TX audio quality by adjusting the TX band audio spectrum. The parametric equalizer can alter the low, mid and high part of the audio separately. This three stage parametric equalizer can generate the high quality TX audio sound, because it can be formed in real time without sacrificing the audio highs.

**Stabilized High RF Output and High Quality Transmission Signal**

IF DSP Speech Processor Punch in Contact Point

The IF DSP Speech Processor uses IF digital speech processing to increase the intelligibility of the transmitted signal during weak signal conditions or fading conditions. The DSP increases the average power of the important speech spectrum components, and reduces the TX power of the less significant components. Adjust the compression level in the Menu Mode to adapt the transmitted SID signals best suit the situation, proportion conditions and conditions.

High Speed Automatic Antenna Tuner Includes 100 Memory Select Points

The FT DX 3000 antenna tuner is the digital type that uses LC switching. It has a large capacity memory, and the tuning data is automatically memorized in the 100 channel memory. The optimized antenna tuning data is automatically stored in the tuner when changing frequency, and the best matching point is reloaded.

**Three Antenna Connectors permit a variety of antennas configurations**

Three antenna connectors are available at the rear panel of the radio. The antenna switching circuit permits flexibility and ease of operation, even with a complicated antenna configuration, for example if it is possible to use ANT 1 or ANT 2 for TX and ANT 3 for RX only. During a contest, antennas may be switched with the touch of a button. The antenna connection information is automatically stored for each band, and automatically displayed in the LCD display area, making it possible to easily see your antennas configuration, helping to avoid making an accidental inversion connection.
Effective QRM rejection with the FT DX 3000 IF DSP

The 32-bit high speed floating decimal point DSP, TMS320C6727R (maximum 2800 MOPS/2100 MOLFOPS) made by Texas Instruments, is used for the IF section of the FT DX 3000. The signal is processed with the high speed 300 MHz clock frequency.

CONTOUR function ideally tailors the received audio signal without changing the bandwidth

The CONTOUR function varies the outline of the IF DSP filter pass band characteristic, and the in-band signal construction can be partially altered. Differences from the IF SHIFT or IF WIDTH, the special CONTOUR pass bands, can be reduced or peak the desired signal partially, and continuously across the pass band. This feature is effective especially when the in-band signals close to the carrier frequency.

Digital Noise Reduction (DNR) by DSP

The installable digital noise reduction circuit provides 51 separate parameters. The noise reduction constants may be set in the optimal working points by varying the 15 step parameters according to the actual situation within the IF band. The desired signal components are peeled and the random noise components are effectively cancelled.

IF DSP Speech Processor Punch in Contest

The SSB Speech Processor uses IF digital signal processing to increase the intelligibility of the transmitted signal during weak signal operating conditions. The DSP increases the average power of the important speech spectrum components, and reduces the RX power of the less significant components. Adjust the compression level in the Menu Mode to adapt the transmitted SSB signal’s level to suit the situation, propagation conditions and pile-up.

High Speed Automatic Antenna Tuner Includes 100 Memory settings

The FT DX 3000 antenna tuner is the digital type that uses LC switching. It has a large capacity memory, and the tuning data is automatically memorized in the EEPROM channel memory. The optimized antenna tuning circuit is immediately ready to reduce tuning time when changing frequency, and the best matching point is reached.

Stabilized High RF Output and High Quality Transmission Signal

The final amplifier provides stabilized high RF output for the RF final filter. ROBERTS HP3 RTRY2150 HF FETs are used in the post-antenna amplifier construction. This circuitry provides stabilized RF power performance. The amplifier produces a clean transmit signal with pure-sinusoidal radiation and distortion. The large heat sink is combined with the die cast chassis and heat spreader to optimize the heat dissipation and cooling. The heat sink is continuously controlled by the temperature of the PA amplifier starting at 40 degree C.

Microphone Amplifier that includes Parametric Equalizer

The microphone circuit of the FT DX 3000 utilizes the digital variable operational modulation type, which controls high quality transmission audio. This has the parametric equalizer that makes possible the variable adjustment of the TX audio quality by adjusting the TX band audio spectrum. The parametric equalizer can alter the low, mid and high part of the audio separately. This three stage parametric equalizer can generate the high quality TX audio sound, because it can be formed in synthesized without sacrificing the audio highs.

Three Antenna Connectors permit a variety of antenna configurations

Three antenna connectors are available at the rear panel of the radio. The antenna switching circuit permits flexibility and ease of operation, even with a complicated antenna configuration. For example, is it possible to use ANT 1 or ANT 2 for TX and ANT 3 for RX only. During a contest, antennas may be switched with the touch of a button. The antenna connection information is automatically stored for each band, and automatically displayed in the T77 block diagram area, making it possible to easily see your antennas configuration, helping to avoid making an accidental incorrect connection.
 Superior Operability and Visibility

A large TFT Display

The FT DX 2000 presents a wide, 4.4" TFT full-color display, which provides a convenient view of the radio's working functions. Even though the FT DX 2000 has many features and functions, the TFT display makes operation of the radio easy and comfortable for the new or experienced user.

Choose Analog or Bar Graph Meter

The FT DX 2000 presents either an analog type meter indication (needle deflection type), or a bar graph type meter indication (digitals).

The Bar Graph independent indicates either the SWR, ALC level and Speech Processor Compression level be displayed, along with the P0 indication. The Peak Hold indication is available as well.

High Speed Spectrum Scope function included

The FT DX 2000 is a high speed, high resolution Spectrum Scope included as standard, making it possible to visually observe, and trace the frequency in the band. Changes in the signal band that vary moment by moment can be viewed immediately. The Spectrum Scope has two modes: the auto mode monitors and sweeps the band. The manual mode sweeps the band, each time the sweep key is pressed. Backward in the spectrum scope may be set to any of its different spans: 1kHz, 10kHz, 100kHz, 200kHz, 500kHz, or 1MHz. In the case of split operation, TX and RX channels will appear in the spectrum scope, making the relationship between transmitted frequency and received frequency easily observed.

Display Meter (2)

Spectrum Scope Display modes

The Spectrum Scope may operate in either the Center or Fixed mode.

- Center mode displays the frequencies both above and below the VFO frequency.
- Fixed mode displays the signal location with the band edge frequency fixed at the left of the display.

Spectrum Scope Memory function

The Spectrum Scope screen can be stored or recalled with one touch. Simultaneously the sound image is recorded in the memory, so that the difference in activity may be reviewed and compared, depending on the season and times.

AF/FM Scope Function demonstrates the AF characteristics of the TX/RX signal

The FT DX 2000 also has an AF/FM (Audio Frequency Modulation) scope built in. This AF/FM function was first demonstrated in the FT DX 3000 series. With this Scope, the audio characteristics of the received signal, the effect of adjusting the R/C filter performance, and tuning the QRM rejection features, may be visually observed. It is also possible to observe the TX audio characteristics of your own signal up to the Monitor function, in this way it is very effective for tuning and equalization for voice characteristics and the microphone audio.

The Cursor Keys make operation selection easy

Six keys that are used frequently in normal operation are located at the left side of the TFT display. Other functions can be operated by pressing the "SCPE" key which changes the "Spectrum Scope screen" to a "Function Key Display screen". In the Function Key Display, the currently selected function is highlighted. Another function may be selected and displayed, by using the up, down, left, and right cursor keys, and then pressing the "SELECT" key to operate the desired function. Even if the radio is turned off, the last operated key/function is remembered and highlighted, so that a frequently used function may be easily operated.

To access advanced settings, press the MENU key to recall display the Menu screen, then change the item selection, and display the values by using the cursor keys.

CW Decode feature

The FT DX 2000 has a Morse code, decode function that can decipher and show the characters on the CRT screen. This function helps the CW beginner and supports the actual CW communications by showing the decoded message on the screen. Note: The decoding rate may be decreased by signal fading, interference, or the operator's typing accuracy, even though the message may be audible.

RTTY/PSK31 Encode Decode function

The FT DX 2000 has a practical RTTY and PSK31 encoder and decoder in the RTTY mode, when pressing and holding the SCPE key, the RTTY encode and decode screen is shown. On the AF/FM screen, the program mark and space frequencies are displayed, making it possible to easily match the peak of the received signal.

The Main frequency can be selected from 1705 Hz and 3150 Hz, and the Shift width can be selected from 0Hz/200Hz/400Hz/800Hz. The baud rate mode meets both US and ICAI standards. Pressing and holding the SCPE key in the RTTY mode will show the PSK31 screen. The PSK31 encode and decode functions correspond to both RTTY and RTTY that use common error correction functions.

Level indicator that easily shows the setting values

The function names and the setting boxes of the following functions are shown in the TFT display when a function knob is rotated: Clutter, Microphone Gain, Speech Processor, SHIFT, WIDTH, KEYER SPEED and CONTOUR.

Separate Independent Frequency Display

The operating frequency is clearly shown in a large white display. Directly above the main VFO dial knob, and separate from the main information display of the radio. This is one of the most important features of the FT DX 2000 transceiver. Superior operability can be realized with this convenient display. A wide-screen LCD (negative type V-A-LCD) is used for the display; it permits excellent visibility from different viewpoints.

Smooth Spinning Main Dial Knob with Adjustable Torque

A heavy-weighted 160g brass core part (ballistic), is used for the main dial knob. This imparts a smooth, light-fingered operating feeling. Continuous adjustment of the rotation torque is accomplished by depressing the dial knob and rotating the dial knob. Each user may set his/her favorite torque feeling of the main dialization.
The Block Diagram displays the RX Signal Path

The FT-10000 presents either an analog type meter indication (needle deflection type), or a bar graph type meter indication (digital). The Bar Graph Independent meter permits the SWR, ALC level and Speech Processor Compression level to be displayed, along with the PO indication. The Peak Hold indication is available on all.

Choose Analog or Bar Graph Meter

The FT-10000 presents either an analog type meter indication (needle deflection type), or a bar graph type meter indication (digital). The Bar Graph Independent meter permits the SWR, ALC level and Speech Processor Compression level to be displayed, along with the PO indication. The Peak Hold indication is available on all.

Separate Independent Frequency Display

The operating frequency is indicated on the lower display, directly above the main VFO dial knob, and is separate from the main information display on the radio. This is one of the most important features of the FT-10000 series. Superior operability can be realized with this convenient display. A high contrast LCD negative type (VA-LCD) is used for the display. It permits excellent visibility from different viewpoints.

Smooth Spinning Main Dial Knob with Adjustable Torque

A heavy weight (160g brass core part) is used for the main dial knob. This imparts a smooth, whispering operation feeling. Continuous adjustment of the rotation torque is accomplished by depressing the slotted knob and rotating the dial knob. Each user may set his favorite torque feeling of the main dialization.

The Cursor Keys make operation selection easy

Six keys that are used frequently in normal operation are located at the left side of the display. Other functions can be operated by pressing the “SC/P” key which changes the “Scope” screen to “Function Key Display screen”. In the Function Key Display, the currently selected function is highlighted, another function may be selected in the highlighted, another function may be selected by using the up, down, left, and right cursor keys, and then pressing the SELECT key to operate the desired function. Even if the radio is turned off, the last selected key function is memorized and highlighted, so that a frequently used function may be easily operated.

To access advanced settings, press the MENU key to recall the Menu Screen, then change the item selection, and the level values by using the cursor keys.

CW decode feature

The FT-10000 has a Morse code, decode function that can decipher and show the characters on the CRT screen. This function helps the CW beginner and supports the actual CW communications by showing the decoded message on the CRT. Note: The decoding rate may be decreased by signal fading, interference, or the operator's fading sensitivity, even though the message may be audible, clear.

RTTY/PSK31 Encode Decode function

The FT-10000 has a practical RTTY and PSK31 encoder and decoder in the RTTY mode, when pressing and holding the SC/P key, the RTTY encode and decode screen is shown. On the AF-FTT screen, the programmed mark and space frequencies are displayed, making it possible to easily match the peaks of the received signals. The Main frequency can be selected from 1750 Hz and 1750 Hz, and the Shift width can be selected from 150/2000/4000/8000 Hz. The baud rate meets both US and CCITT standards. Presetting and holding the SC/P key in the 3000 mode will show the PSK31 screen. The PSK31 decode and encode functions correspond to both BPSK and DPSK that use common error correction functions.
Fully-Automatic μ-Tuning Kit

CW Auto Zero-in

The received CW signal frequency may be detected and the VOX automatically turned on to match the frequency and programmed pitch (auto-zero-in). Even for the inexperienced operator, it is difficult to zero-in only by hearing. This function accomplishes the zero-in operation with one-touch, and the VOX can be turned on immediately.

Optional FT DX 9000 Series μ-Tuning Kit

The μ-Tuning Kit that was developed for the FT DX 9000 is optionally available for use with the FT DX 9000 series. A large diameter 36 mm inductor with an adjustable ferrite magnetic material (6-26) is included, combined with a high resolution and high torque stepping motor to automatically find the resonance point. By pressing these tuning codes quickly to the RF panel and at the receiver, the RF points are improved by around 3 kHz. These tuning codes cover frequencies from 4 to 40 MHz through 144 MHz, and are especially recommended for use in low-band operation.

Advanced features that are useful for actual and practical operation

Three antenna selections that are especially effective for DX and Contest operation, etc.

Three antenna connectors are available on the rear panel. The antenna connection selections are recommended for each operating band, so the appropriate antenna is automatically selected when changing bands. The ANT can be set for the RX only antenna.

TX monitor function

The DSP output of the TX monitor function is displayed in the monitor condition. (It is similar to the actual TX signal. When changing the morse pitch, adjusting the compression level of the speech processor and adjusting the TX audio quality by using the audio equalizer, this function is very convenient.)

CS key

The Custom Selection (CS key) is placed at the left side of the main dial. It is a very useful feature that can be activated at a previously selected MENU function (at the touch of a button, dual function).
Fully-Automatic µ-Tuning Kit

For the CW Enthusiast

CW Auto Zero-In

The received CW signal frequency may be detected and the VFO automatically tuned to match the frequency and programmed pitch (auto-zv-in). Even for the experienced operator, it is difficult to perform only by listening. This function accomplishes the same operation with one-button, and the VFO can start immediately.

CW Zero-in Display

The TX CW side tone pitch frequency can be adjusted in the MENU. The setting range is 300 Hz to 1500 Hz. This tone pitch is used as the reference in transmission. This means that the point at which the TX pitch is equal to the CW pitch, becomes the zero-in point. In addition, the TX 9000 has a CW tuning display feature. By using this function, as the pitch of the sound that is heard when receiving the CW signal becomes closer to the programmed pitch, the heard mark moves closer to the center of the display. When the center mark lights RED, the signals are at zero-in point.

Other CW features

- ART (Audio Peak Limiter) with three bandwidth choice
- Separate KEY Jack on the front and rear panels
- Electronic Keyer Weight control
- Keyer mode Dots-Dash reverse
- EXKEY 9000 (extra) A/F selection
- "Buy" keying emulation
- CW Full-BufferSize
- Four channels/message Memory (60 characters each); five memories available with 1/2 Keypad
- Automatic insertion of overwritten current number into stored messages
- Automatic "Beacon" keyer mode
- CW "WIDE" Delay is available 20 ms to 2000 ms
- CW Mode internal USB or LB function
- CW keying available during USB operation
- Dial stop setting (for the CW mode only)
- CW SPOT Feature

Advanced functions that are useful for actual and practical operation

Three antenna selections that are especially effective for DX and Contest operation, etc.

Three antenna connectors are available on the rear panel. The antenna connection selections are recommended for each operating band. The appropriate antenna is automatically selected when changing bands. The ANT 1 can be set for the RX only antenna.

TX monitor function

The DSP output in the TX mode is monitored, and it is possible to monitor the signal condition that is similar to the actual TX signal. When changing the microphone, adjusting the compression level of the speech processor and/or adjusting the TX audio quality mostly using the parametric equalizer, this function is very convenient.

CS key

The Custom Selection (CS key) is placed at the left side of the main dial. It is a very useful feature that can activate a previously selected MENU function at the touch of a button.
## Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td></td>
</tr>
<tr>
<td>160Hz Frequency Range</td>
<td>0 kHz - 16 MHz (broadcast)</td>
</tr>
<tr>
<td>1.7 MHz Frequency Range</td>
<td>0 kHz - 16 MHz (broadcast)</td>
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<td>Frequency Stability</td>
<td>±3 kHz after 48h (4 kHz ±3ppm)</td>
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<td>Operating Temperature Range</td>
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<td>Screen Monitor</td>
<td>200 x 160 x 160 pixels (160 x 160 x 160 pixels)</td>
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<tr>
<td>Speaker</td>
<td>3 x 40 W / 4-QOH</td>
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<td>Power Consumption (Approx.)</td>
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<td><strong>Squelch Sensitivity</strong></td>
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<td><strong>Maximum Wavemotion</strong></td>
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<tr>
<td><strong>Weight</strong></td>
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## Options

- **XF-127D**
- **DV-9**
- **MD-100AX**
- **VT-1000**
- **PP-205A**
- **TC-77**
- **YH-277**
- **TP-105A**
- **VP-1050**

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**Note:** Specifications are subject to change. Check with the manufacturer or distributor for the latest information.