

# SONANCE TRIO™ TRIPLE TUNER

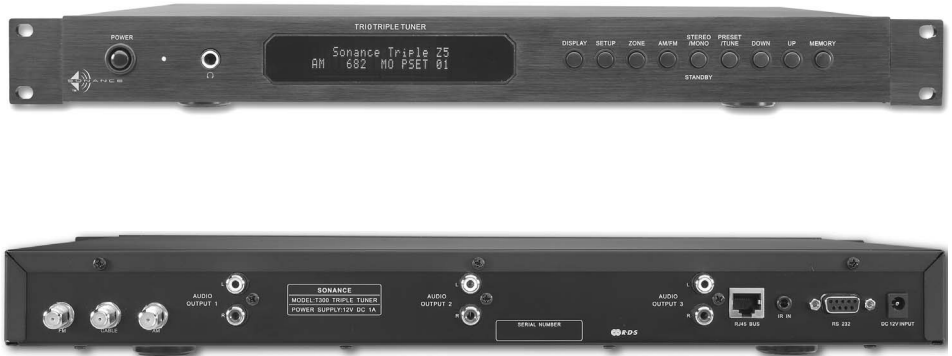
## TRIO TRIPLE TUNER

The Sonance Trio Triple Tuner offers an outstanding combination of flexibility, convenience, and superior radio frequency reception. An ideal solution for multiple users with diverse music tastes, this is a three-in-one source component. Each individual tuner can have up to three independent listening zones. Each user can access different IR code sets giving them access up to a total of 45 preset tuner modules for quick memory recall of their favorite AM/FM radio stations.

The Sonance Trio features RDS (Radio Data System) enhancements so the listener can scan for a particular program without having to constantly manipulate the tuning dial. RDS will display broadcasters brief text messages, station call letters, music genres, and artist information. Sonance Trio includes a switchable tuning selector for a variety of tuning modes with built-in compensation for the U.S. Standard or European AM Broadcast Standards. Active antenna distribution provides a finely-tuned degree of isolation between tuners, eliminating crosstalk. AM transmission is received by remote antenna versus loop type.

This slim (1U) device is available in standard or rack ears mountable form factor making for efficient use of rack space. Bidirectional RS-232 and RS-485 system interface offers easy control access with multi-room systems through Sonance Navigator Harbor, and legacy systems such as Navigator Network, using IR based keypads e.g. K2 keypads.

Additional features include total remote control capability, installer setup headphone jack with volume control, A/B selector switch (one per tuner), Selectable Stereo or Mono Switching, and Dynamic Noise Reduction filtering.



## FEATURES

- 3 Tuners in one unit
- 45 presets
- Available with 6 IR code sets to feed up to 6 independent zones
- Slim (1U) chassis for efficient rack space allocation
- Perfect for separate AM/FM listening zones

See Reverse for Specifications

All specifications subject to change without notice.



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**General:**

**Inputs:** Three F-Type Coaxial Connectors FM1, FM2, FM3, AM  
**Audio Outputs:** Three Unbalanced RCA Type  
**Data Connections:** RS-232, DB-9 RS-485, RJ-45  
**Power Requirements:** 12-15 VDC, 2.5mm Connector, Center Pin Positive  
**Power Consumption:** 1.0 Amp DC

**FM Section:**

**Frequency Range:** 87MHz - 108 MHz  
**THD @ 1KHz:** Mono 0.15%, Stereo 0.20%  
**Usable Sensitivity:** 8dB 50dB Quieting  
**Selectivity:** 65dB  
**Signal to Noise:** Mono 77dB, Stereo 68dB  
**Frequency Response:** 20-15kHz +/- 0.5dB  
**Stereo Separation:** 40dB @1kHz  
**Output Level:** 500mV  
**FM Antenna:** Two antenna connectors allows for simultaneous connections (for example a cable network and an outdoor aerial)

**AM Section:**

**U.S. Frequency Range:** 520 kHz - 1710 kHz  
**U.S. Step Size:** 10 kHz  
**European Frequency Range:** xxx kHz - xxxx kHz  
**European Step Size:** 9 kHz  
**THD:** 1.5% @ 1KHz  
**Sensitivity:** 100dB/m  
**Selectivity:** 24dB  
**Signal to Noise:** 45dB  
**Frequency Response:** 40-3kHz +/- 4dB

**Output:**

Using twin RCA-to-RCA leads, connect the Left (white) and Right (red) audio outputs to the 'Tuner' input or other line-level input such as 'Aux' input of your amplifier

**Mono/Mute:**

Switches between Stereo mode with Muting (Mute) on and Mono mode with Muting off. Muting suppresses stations that are too weak to be received well. If Muting is switched off, even very weak stations may be heard. As these will always be too weak for stereo reception, Mono is activated simultaneously. The first press of the button shows Mute On or Off as well as Stereo or Mono in the display panel. Press Mute again within approximately five seconds to turn Muting off (or on) and at the same time switch from stereo to mono.

**Blend:**

High Blend is used for stations that are too remote or weak to permit noise-free reception in stereo. In order to reduce noise and hiss, this feature blends the stereo channels into mono within a narrow audio frequency band, thereby reducing hiss considerably while still maintaining good stereo separation. Pressing BLEND first shows the status in the display panel. Pressing again within approx. five seconds changes to ON or OFF.

**IF:**

Intermediate Frequency control. Changes the IF between two values, WIDE for the best possible sound quality and NARROW to remove interference between stations that are very close to each other in frequency. Pressing IF first shows the status in the display panel. Pressing again within approx. five seconds changes to NARROW or WIDE.

**Antenna:**

Switches between one of the two antennas that may be connected. Pressing ANTENNA first shows the status in the display panel (Antenna 1 or 2). Pressing again within approx. five seconds cycles between the two. Simultaneously, the signal strength for the current antenna is shown as iSi and 0 to 9, where 0 is minimum or no signal and 9 is maximum signal strength.

**Preset:**

The PRESET (or MODE) button switches between two ways of using the TUNE buttons < or >. Press the PRESET (or MODE) button until the iPRESETi LED lights up. Press the < button to scroll to a lower number preset. Press the > button to scroll to a higher preset number. A total of 30 preset memories are available. This is a iwrap-aroundi function, so that going from the highest number preset the tuner will go to the lowest preset number when > is pressed.

**Storing and Recalling Presets:**

ED indicators  
The PRESET indicator is explained under section 6. PRESET.  
The RDS indicator lights up when a station broadcasting RDS data is received.  
The SEARCH indicator lights up  
The STEREO indicator lights up when the unit receives a stereo broadcast.  
The CENTER TUNE indicator lights up when the unit is tuned to the exact frequency of the transmitter.

**Dot Matrix Display and Display Button:**

The display is the center of information. It is controlled by the DISPLAY button, which allows you to read out various details about the broadcasts.

- When the unit is switched on, the display shows the frequency, the signal strength and the Preset number (if any).
- After 3 seconds, the display switches to RDS station name and frequency, or manually entered name. If there is no RDS data or name, the display remains as a).
- If the DISPLAY button is pressed, the display shows RADIO TEXT if the station features this.
- Pressing the DISPLAY button once more changes back to a).
- If the DISPLAY button is pressed and held down, the display will scroll through the above information followed by all setup details for Mute, IF, Antenna and Blend. Each line is shown for 2 seconds.

**Store:**

The STORE button is used to store stations into the Preset Memory. Used in conjunction with the PRESET (or MODE) and TUNE buttons.

**Tune < and >:**

The function of these buttons depends on the tuning mode indicated in the display panel. In normal operation there are 3 modes:

- Preset mode  
Press the PRESET (or MODE) button until the PRESET LED lights up.
- Search mode  
Press the PRESET(or MODE) button until the iPRESETi LED extinguishes (or in 120V versions, until the SEARCH LED lights up).  
TUNE buttons < or > can be used to engage automatic or manual tuning up or down the frequency band.

**Auto:**

One of the TUNE buttons depressed for more than approximately one second and then letting go will engage the tuner to search automatically for the first reasonably strong radio station, where it will stop. By press and hold the TUNE button again to start searching again. If a stereo station is received, the iSTEREOi LED will light up.

**Manual:**

Tapping one of the TUNE buttons < or > rapidly, you can perform manual tuning up or down the frequency band for precise tuning to a specific frequency. With each successive tap of the keys, the tuner will take 0.025MHz steps on so you can accurately tune into the desired frequency. This tuning mode can also be useful when trying to receive a radio station, which is too weak for the Search mode.

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