

CLASSÉ AUDIO

**TUNER-1**

FM STEREO TUNER

**TUNER-1**

OWNER'S MANUAL

## *CLASSÉ DESIGN PHILOSOPHY*

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### 1. REPEATED LISTENING DESIGN SESSIONS:

Fine tuning of sound by exchanging and mixing of parts (transistors, capacitors, wiring, PCB boards etc.), and adjusting many specific operating voltages within proper engineering ranges, producing an overall sonic recipe giving the most natural harmonic realism of music typical of instruments in a live performance.

### 2. UPGRADABLE SINGLE CIRCUIT DESIGNS:

All Classé products share exactly the same circuit design philosophy. This means all amplifiers and all high level circuits benefit from the same design goals. Similar circuits are then tailored to different power levels etc. Differences between less expensive models and more expensive models are parts quality and compliment, power supply extravagance and the amount of filtering etc., as well as features and packaging.

Classé has over the years been constantly sonically fine tuning and technically upgrading circuit designs and their application, thus reaching a very high level of natural musical enjoyment, as well as excellent reliability which benefits all models.

### 3. EXTREME LONG LIFE IN REAL WORLD CONDITIONS:

Choosing the best attainable quality parts and materials combined with the advantages of the two above-mentioned areas provides Classé owners with years of proven trouble free reliability and musical enjoyment.

# TUNER-1

## OWNER'S MANUAL

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## ***UNPACKING & SET-UP***

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The Classé **TUNER ONE** has been carefully wrapped in heavy gauge plastic, packed in semi-rigid foam and packed in a special box. To remove the unit, open and spread the top flaps of the box. By its sides, lift out the entire unit with the foam pieces attached. Remove each foam side by pulling straight out. Remove the plastic wrap and inspect the unit for any concealed damage.

Apart from this owner's manual, please ensure the following is also included:

- 1) Detachable A.C. power cord.
- 2) Remote control handset (along with allen key and two (2) type "AAA" batteries).

**Report any damage or missing parts to your dealer immediately.**

The TUNER must be located in a position free of any hum-inducing magnetic fields. Permanent placement adjacent to power amplifiers, A.C. line filters, or regulation devices should be avoided. Ideally, a few feet should separate the TUNER from the power amplifier. As well, keep low-level interconnect cables away from the power amp and separate from A.C. line cords. Experimentation with placement will show you how close to your other equipment you can place the Classé Tuner in your own system

Heat generated by the Tuner is negligible. Air space around the unit need not be a concern, but like all other electronics, it should not be enclosed in a cabinet which will become overheated by other components.

Check the Serial Number sticker on the back of the unit for the correct operating voltage. Regardless of voltage, the fuse rating should be .8 AMP SLO-BLO.

## ***A.C. LINE POWER***

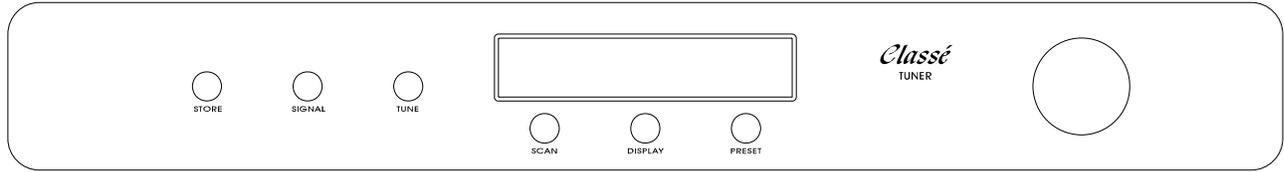
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The TUNER-1 has **NO** ON/OFF switch. The TUNER-1's low power consumption and improved sonics from always being ON allow the unit to be "ON" all the time. It is permissible to plug the TUNER-1 into a power-strip if you wish to power it on and off. While thoroughly musical shortly after initial turn-on, the TUNER-1 will exhibit "sonic growth" for the first 300 hours of use.

For optimum sonic performance, use of the optional CLASSÉ REFERENCE A.C. LINECORD is recommended. Consult your dealer regarding this accessory.

**CAUTION:** "FLOATING THE GROUND" OR DEFEATING THE GROUND ON THE 3-PRONG LINECORD MAY CREATE A SHOCK HAZARD. CONNECT ALL INTERCONNECT CABLES BETWEEN THE ELECTRONICS BEFORE CONNECTING THE A.C. LINECORDS TO THE WALL OUTLETS. THIS WILL REDUCE THE POTENTIAL SHOCK HAZARD. SEE ALSO THE WARRANTY SECTION OF THIS OWNER'S MANUAL.

## **FRONT PANEL AND CONTROLS:**



**The Front Panel Controls are similar in operation to the controls on the Remote Wand. Each is discussed below in its own section for the sake of clarity.**

### **1 Selecting a Station**

Put the TUNER-1 into *tune mode* by pressing **TUNE** on the front panel, to the left of the display. The display will show the current frequency. Now turning the **knob** on the right of the faceplate either will tune continuously if held in place or in 50 kHz steps if turned and released. Turning the knob to the right will tune up through the frequencies and turning it to the left will tune down through the frequencies. When the highest or lowest FM frequency is reached the display will jump to the lowest or highest and start over.

### **2 Storing a Preset**

Up to 80 stations may be stored for instant recall. With the TUNER-1 in *tune mode* press **STORE**. The TUNER-1 will show the next lowest available preset location in which the station at that frequency can be stored. Turning the **knob** left or right allows you to select another desired lower or higher number preset position. Once the location has been selected the preset is stored by pressing **STORE** again. If there is already a preset stored in a location then the display will show **St.** to indicate that you will overwrite a previous preset if the STORE command is executed.

### **3 Recalling a preset**

Put the TUNER-1 into *preset mode* by pressing the **PRESET** button below the display. Step through the stored presets using the **knob**, turning it left or right to step down or up through the preset locations. The tuner can store up to 80 presets. When a preset station has been selected its location number will remain in the display.

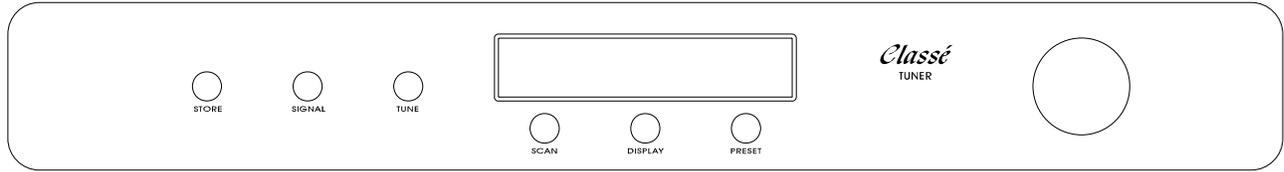
**NOTE: TO CLEAR ALL PRESETS**, unplug the AC cord from the unit, then re-insert the AC cord while holding the “PRESET” button. Keep holding until the display shows ‘CLR’.

### **4 Scanning and Searching**

The TUNER-1 has two automatic ways of finding stations.

*Scanning* will scan up or down through the frequency band for stations and will stop and play 5 seconds of the detected station. It will then scan for the next station and play 5 seconds of the next station found. *Searching* will scan up or down through the frequency band and stop permanently on the next station found.

## FRONT PANEL AND CONTROLS:



### 5 Scanning

While in *tune mode*, press the **SCAN** button below the display once, then press again and hold the **SCAN** button and the display will show small bars for 2 seconds then change to either “**Srch**” or “**ScAn**” depending on whether it was previously in scan or search mode. Repeat this until “**ScAn**” appears briefly. Turn the **knob** left or right momentarily, depending on which way you wish to scan. If turned to the left the display will show ‘-’ and when turned to the right the display will show ‘-’.

When the TUNER-1 has found a station the frequency is displayed and “**ScAn**” will flash. After 5 seconds the tuner will search for the next station. This will continue until either **TUNE** or **PRESET** is pressed.

### 6 Searching

While in *tune mode* press the **SCAN** button once. Press **SCAN** again and hold and the display will show small bars for 2 seconds then change to “**Srch**”, assuming the tuner was previously in scan mode. The display will briefly show **Srch** and revert back to the tuned frequency. Turn the **knob** left or right momentarily, depending on which way you wish to search. If turned to the left the display will show ‘-’ and when turned to the right the display will show ‘-’.

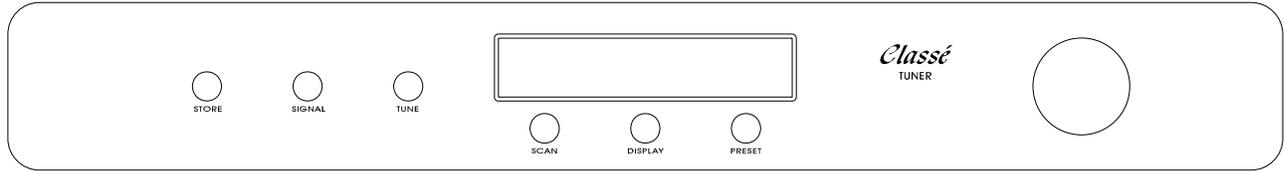
When the tuner has found a station the frequency is displayed and the search is stopped until the **knob** is turned left or right again.

### 7 Signal Strength

An indication of the signal strength is available, with a range from 0 to 31. This is useful for aligning an antenna or choosing the strongest version of a station.

While in any mode the signal strength meter can be accessed by pressing the **SIGNAL** button. The display will show, for example, ‘**S 25**’ indicating that the station you are tuned to has a signal strength of 25 on scale of 0 to 31. This facility is also used with the *threshold* facility.

## FRONT PANEL AND CONTROLS:



### 8 Threshold

This allows you to ignore weak, noisy stations by adjusting the station capture threshold. This is particularly useful when using *Autostore*.

While in any mode press and release the **SIGNAL** button on the faceplate or remote, then press and hold. The display will illuminate with small bars for around 2 seconds then the display will change to **'th 1'** or whatever level the threshold may have been previously set at. This indicates that any stations found above signal strength 01 will be played. When **'th xx'** is shown on the display, the threshold can be adjusted upward by turning the tuning knob to the right or downward by turning it to the left. The maximum threshold is 31. Pressing either **TUNE** or **PRESET** will take you back to the main tuner functions.

### 9 AutoStore Function

This tuner has the facility to scan through the band and store the stations that it finds automatically. While in *tune mode*, press the **STORE** button. The TUNER-1 will show the next lowest available preset location in which the frequency can be stored. This will determine where the tuner will start storing the presets when the autostore function is executed.

Press and hold **STORE**. The display will illuminate with small bars for around 2 seconds then the display will change to **' - '** (flashing). This indicates that the tuner is searching for stations. After a few seconds the display will revert back to preset mode with all the new stations available above the selected threshold store in the programmed.

### 10 Stereo and Mono

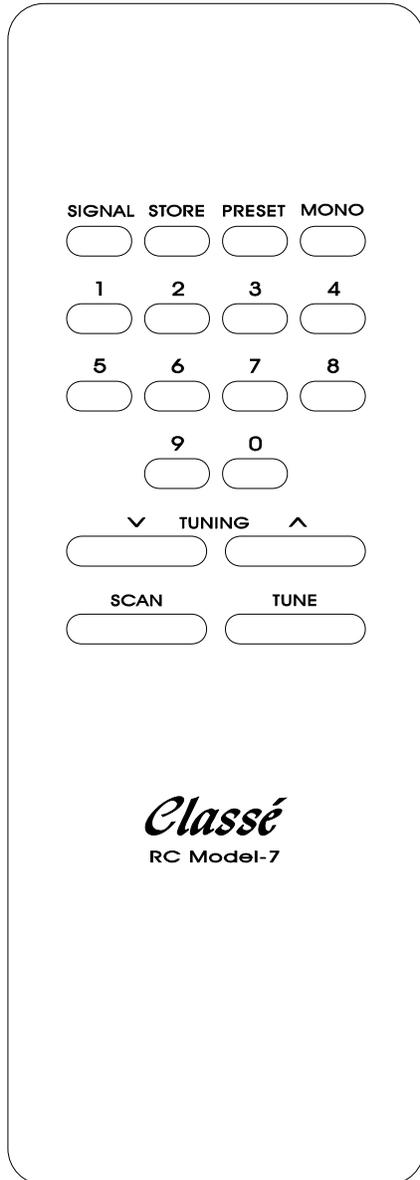
Stereo and Mono control is only available with the remote wand.

### 11 Display Functions

This function will allow you to dim or turn off the display. There are 3 brightness settings for the display. Pressing and holding the **DISPLAY** button will allow you to choose from one of these 3 settings, the display will show sequentially **'bri.1, bri.2, bri.3'**, from the dimmest to the brightest setting. Release the display button when you have reached the desired setting.

Pushing and releasing right away the **DISPLAY** button will turn off the display. To bring back the display, press any function. **NOTE: The DISPLAY function is accessible only through the front panel.**

## WAND AND CONTROLS



**TUNER-1 Wand**

## Remote Control Wand operation.

### 1 Direct Digit Entry

Put the tuner into *tune mode* by pressing **TUNE** on the handset. The display will show the current frequency.

Using the number area on the handset enter the desired frequency.

For example: To tune to 102.5MHz press **1 0 2 5 0**.

When the final **0** is pressed the tuner will tune to that frequency.

If there is an invalid digit entry the tuner will default to the nearest possible value for that digit.

The selected frequency can be modified in 50 kHz steps by pressing the **❖** and **◆** buttons. Holding **❖** or **◆** will tune continuously.

### 2 Storing a Preset

With the TUNER-1 in *tune mode* press **STORE**.

The TUNER-1 will show the next lowest available preset location in which the frequency can be stored.

Press **❖** or **◆** to select the desired preset number.

Once the location has been selected the preset is stored by pressing **STORE** again.

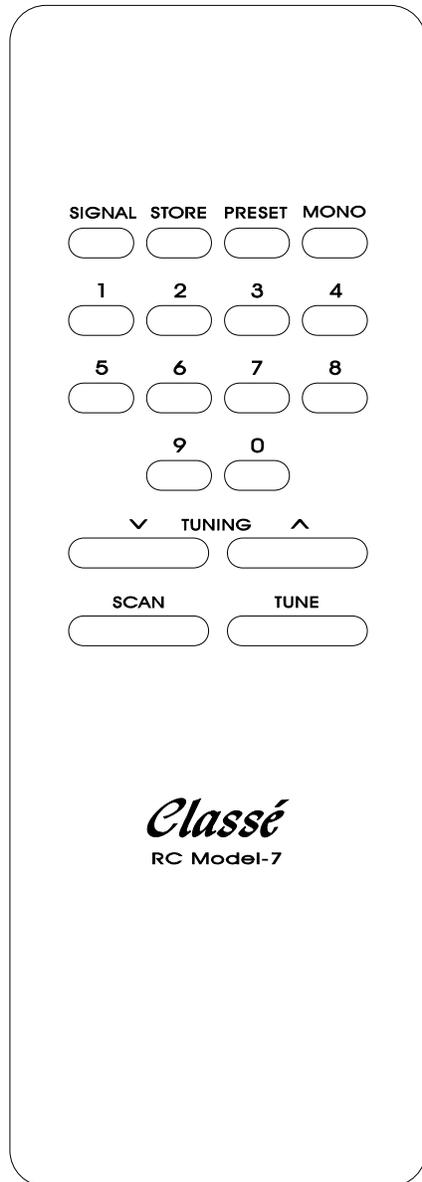
If there is already a preset stored in a location then the display will show **St.** to indicate that you will overwrite a previous preset if the store command is executed.

### 3 Recalling a preset

Put the TUNER-1 into *preset mode* by pressing **PRESET**. Step through the stored presets using the **❖** and **◆** keys, or enter the preset number directly using the numbers on the handset. To enter a two digit preset, hold the first digit until it jumps to the left on the display, then enter the second digit. The selected preset station will be heard immediately after the second digit is input.

Selected preset number will remain in display.

## WAND AND CONTROLS



**TUNER-1 Wand**

### 4 Scanning and Searching

This tuner has two automatic ways of finding stations.

*Scanning* will scan the frequency band for stations and will stop and play 5 seconds of the detected station. It will then scan for the next station and play 5 seconds of the next station found.

*Searching* will scan the frequency band and stop permanently on the next station found.

### 5 Scanning

While in *tune mode*, press **SCAN** once. Press and hold **SCAN** and the display will show small bars for 2 seconds then change to either “**Srch**” or “**ScAn**” depending on the previous mode. Repeat this until “**ScAn**” appears briefly. Press  $\wedge$  or  $\vee$  depending on which way you wish to scan. If  $\vee$  is pressed then the display will show ‘- ‘ and if  $\wedge$  is pressed then the display will show ‘ -’.

When the TUNER-1 has found a station the frequency is displayed and ” **ScAn**” will flash. After 5 seconds the tuner will search for the next station. This will continue until either **TUNE** or **PRESET** is pressed.

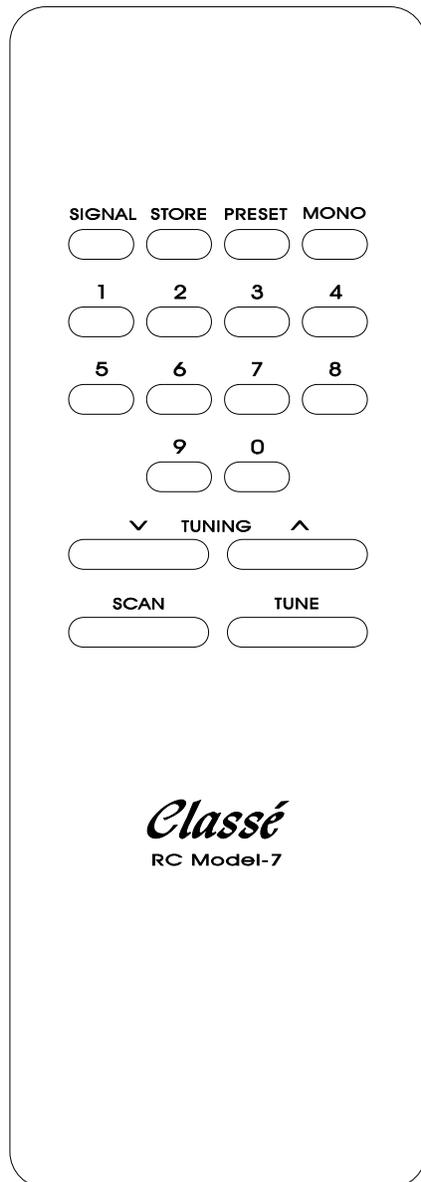
### 6 Searching

While in *tune mode* press **SCAN** once. Press and hold **SCAN** and the display will show small bars for around 2 seconds then change to “**Srch**” assuming the tuner was previously in scan mode.

The display will briefly show “**Srch**” and revert back to the tuned frequency.

Press  $\wedge$  or  $\vee$  depending on which way you wish to search. If  $\vee$  is pressed then the display will show ‘- ‘ and if  $\wedge$  is pressed then the display will show ‘ -’. When the tuner has found a station the frequency is displayed and the search is stopped until either  $\wedge$  or  $\vee$  is pressed.

## WAND AND CONTROLS



**TUNER-1 Wand**

### 7 Signal Strength

An indication of the signal strength is available with a range from 0-31. This is useful for aligning an antenna or choosing the strongest version of a station. While in any mode the signal strength meter can be accessed by pressing **SIGNAL**. The display will show for example 'S 25' indicating that the station you are tuned to has a signal strength of 25. This facility is also used with the *threshold* facility.

### 8 Threshold

This allows you to ignore weak, noisy stations by adjusting the station capture threshold. This is particularly useful when using *Autostore*.

While in any mode press **SIGNAL**. Press and release, then press and hold **SIGNAL** and the display will illuminate with small bars for around 2 seconds then the display will change to 'th 1' or whatever level the threshold may have been previously set.

This indicates that any stations found above signal strength 01 will be played. When the display shows 'th 01' the threshold can be adjusted by pressing ^ or ∨. The maximum threshold is 31. Pressing either **TUNE** or **PRESET** will take you back to the main tuner functions.

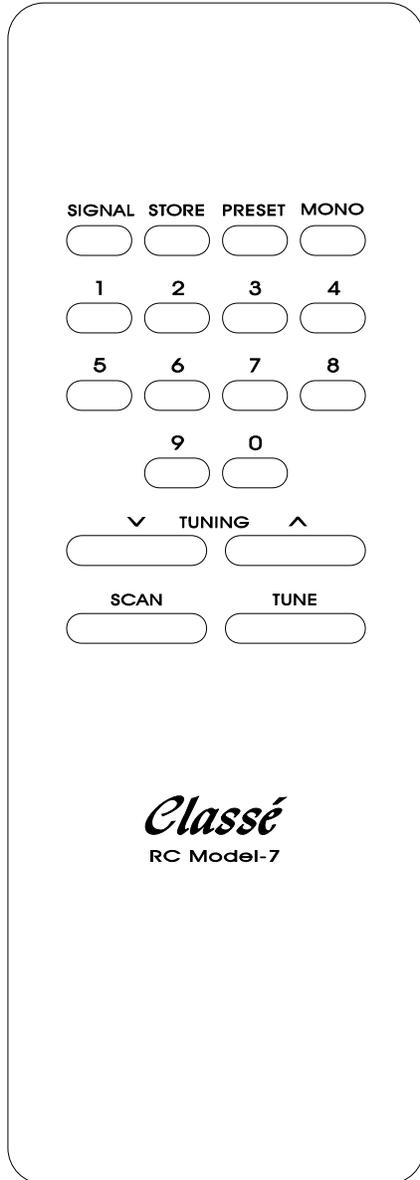
### 9 AutoStore Function

This tuner has the facility to scan through the band and store the stations that it finds automatically.

While in *tune mode*, press **STORE**. Again the tuner will show the next lowest available preset location in which the frequency can be stored. This will determine where the tuner will start storing the presets when the autostore function is executed.

Press and hold **STORE**. The display will illuminate with small bars for around 2 seconds then the display will change to ' - ' (flashing). This indicates that the tuner is searching for stations. After a few seconds the display will revert back to preset mode with the new stations programmed.

## WAND AND CONTROLS



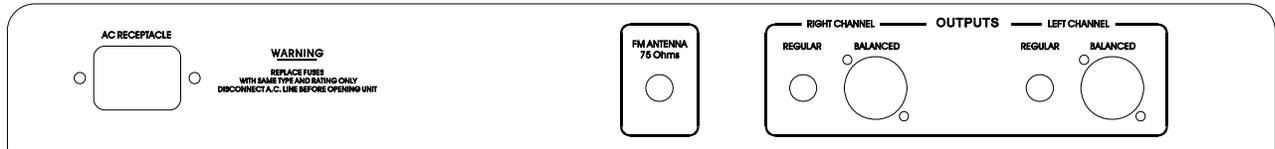
**TUNER-1 Wand**

## 10 Stereo and Mono

The TUNER-1 can be forced into mono by pressing **MONO** on the handset. Pressing **MONO** again will switch the tuner back to stereo, if receiving a stereo broadcast. Forcing the tuner into mono will reduce noise on a weak signal.

## ***REAR PANEL CONNECTIONS AND FUNCTIONS:***

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### **CONNECTIONS:**

Three wire power AC line cord is supplied.

FM input from antenna (or cable feed) is 75 ohm Co-axial only.

Stereo RCA co-axial outputs are provided

Stereo Balanced outputs are provided

RCA and Balanced outputs may be used simultaneously for connection to two separate systems without harm to the TUNER-1.

### **CONNECTING CABLES:**

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The overall performance of the Tuner will vary dramatically with the quality and type of audio cables chosen. Selection of the highest output interconnects is recommended for maximum performance of the Classé TUNER-1.

**CAUTION:** Install antenna (or cable feed) input cable and output cables before connecting the power AC cord.

## ***TECHNICAL DESCRIPTION***

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The CLASSÉ TUNER-1 is a high performance tuner which will accept FM monaural and stereo signals. Great care has been used throughout the design and layout of the TUNER-1 to meet FCC class B requirements. This will ensure that the TUNER-1 will be insensitive to noisy components in a system and in turn will not cause harmful interference.

Every TUNER-1 undergoes rigorous computerised testing that measures each critical performance parameter before leaving the factory.

**CLASSÉ TUNER-1**  
**REMOTE CONTROLLED**  
**DIGITAL STEREO FM TUNER**

**TUNER-1 FEATURES**

Remote control Featuring direct digit entry, preset, mono, tuning and scan. Front panel controls also includes store, signal, tune scan, display and preset. Also featuring Balanced (XLR), single-ended (RCA) outputs and 75 Ohms coaxial antenna input. Special Classé front panel available in both satin black and soft shadow silver finishes.

**SPECIFICATIONS:**

<b>RF input tuning range:</b>	87.5MHz to 108.5MHz.
<b>RF input sensitivity:</b>	100uV for 70dB S/N ratio.
<b>RF input impedance:</b>	75 Ohms.
<b>Distortion:</b>	<0.1% at 75 kHz deviation, 1 kHz.
<b>Power consumption:</b>	< 10 Watts.
<b>Output impedance:</b>	500 Ohms.
<b>Frequency response:</b>	20 Hz to 17 kHz $\pm$ 3 dB.
<b>Harmonic distortion:</b>	< 0.1%.
<b>Output level,</b>	
<b>Single ended (RCA):</b>	2 Volts.
<b>Balanced (XLR):</b>	4 Volts.
<b>Signal to noise ratio:</b>	-70 dB.
<b>Channel separation:</b>	-40 dB at 1 kHz.
<b>Voltage:</b>	100, 120, 220, 240 VAC 50/60 Hz

**SPECIFICATIONS (continued)**

**Weight**

**Gross:** 13 LBS.  
**Net:** 10 LBS.

**Dimensions**

**Gross:** 22.5" W, 14.5" D, 7.5" H.  
**Net:** 19" W, 10" D, 3" H.

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**Notice to all Classé Product owners:**

Thank you for your purchase of a Classé Audio component.

All of us at Classé have taken extreme care to ensure that your purchase will become a prized investment. We are proud to inform you that all Classé Audio components have been officially approved for the European Community CE mark.

This means that your Classé product has been subjected to the most rigorous manufacturing and safety tests in the world, and have proven to meet or exceed all European Community CE requirements for unit to unit consistency and consumer safety.

All of us at Classé Audio wish you many years of musical enjoyment.

**As of July 18, 1996, Classé Audio has been granted Certificate No: C401CLA1.MGS, which indicates CE approval for all models of the Classé Audio product line.**