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Model Information

INTEGRATED NETWORK AV RECEIVER

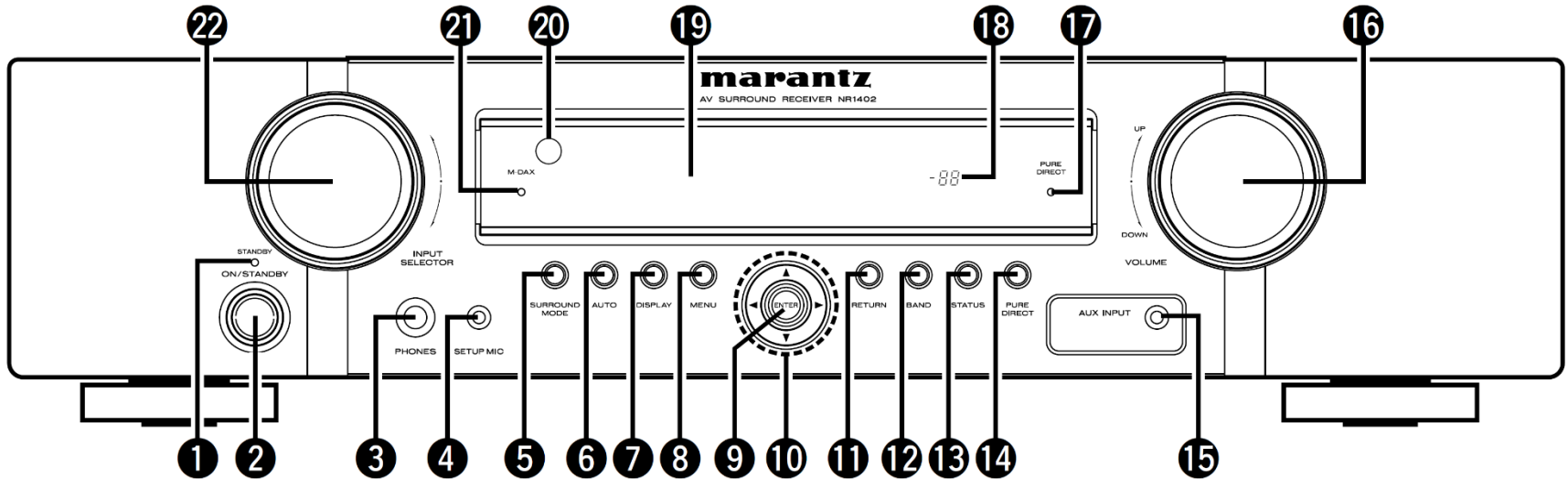
Not Available on this model



NOTE:

This edition is missing the link to the IR codes..... 12/09/2016

Front Panel

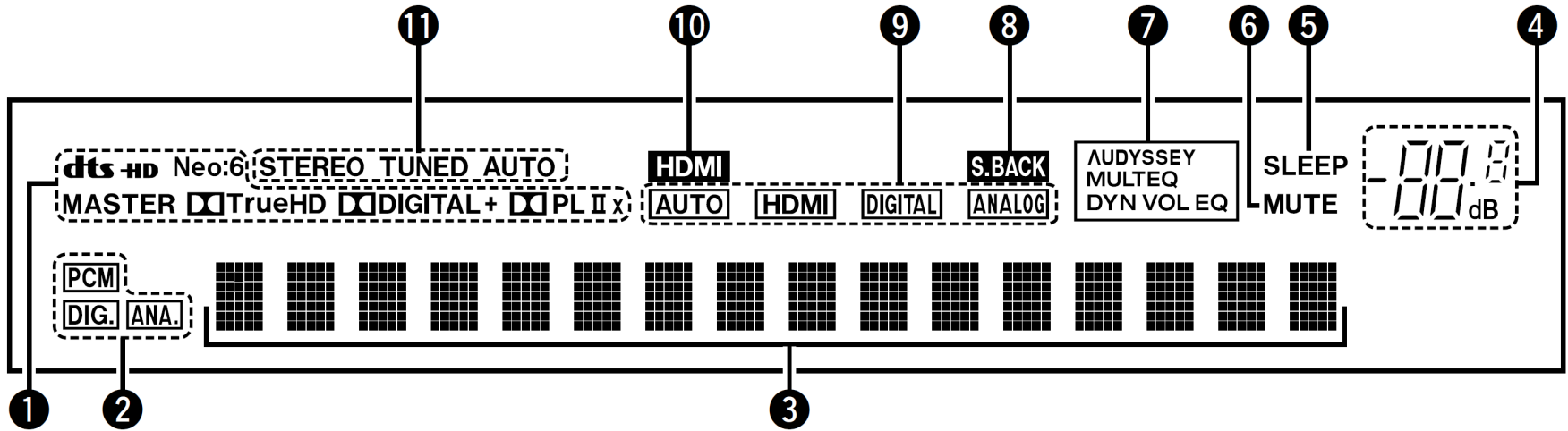


- 1** Power indicator
- 2** Power operation button
This turns the power on/off (standby)
- 3** Headphones jack (PHONES)
Used to connect headphones.
When the headphones are plugged into this jack, audio will no longer be output from the connected speakers or from the PRE OUT connectors.
NOTE:
To prevent hearing loss, do not raise the volume level excessively when using headphones.
- 4** SETUP MIC jack
Used to connect the supplied Setup and measurement microphone.
- 5** SURROUND MODE button
- 6** AUTO button
- 7** DISPLAY button
- 8** MENU button
- 9** ENTER button
- 10** Cursor buttons (▲▼◀▶)
- 11** RETURN button
- 12** BAND button
- 13** STATUS button
- 14** PURE DIRECT button
- 15** AUX INPUT jack
- 16** VOLUME control knob
- 17** PURE DIRECT indicator
- 18** Master volume indicator
- 19** Display
- 20** Remote control sensor
- 21** M-DAX indicator
- 22** INPUT SELECTOR knob

HOME

DISPLAY

Main Display



1 Decoder indicators

These light when the respective decoders are operating.

2 Input signal indicators

3 Information display

The input source name, surround mode, setting values and other information are displayed here.

4 Master volume indicator

5 Sleep timer indicator

This lights when the sleep mode is selected.

6 MUTE indicator

This lights when the mute mode is selected.

7 Audyssey® indicators

Light up as follows, depending on the setting of "MultEQ®", "Dynamic EQ®" and "Dynamic Volume®".

| |
|----------------------------------|
| AUDYSSEY MULTEQ DYN VOL EQ |
| AUDYSSEY MULTEQ DYN EQ |
| AUDYSSEY MULTEQ |

When "MultEQ®", "Dynamic EQ®" and "Dynamic Volume®" are "ON".

When "MultEQ®" and "Dynamic EQ®" are "ON" and "Dynamic Volume®" is "OFF".

When "MultEQ®" is "ON" and "Dynamic EQ®" and "Dynamic Volume®" are "OFF".

8 Surround back indicator

This lights when audio signals are being output from the surround back speakers.

9 Input mode indicators

Set the audio input modes for the different input sources.

10 HDMI indicator

This lights when playing using HDMI connections.

11 Tuner reception mode indicators

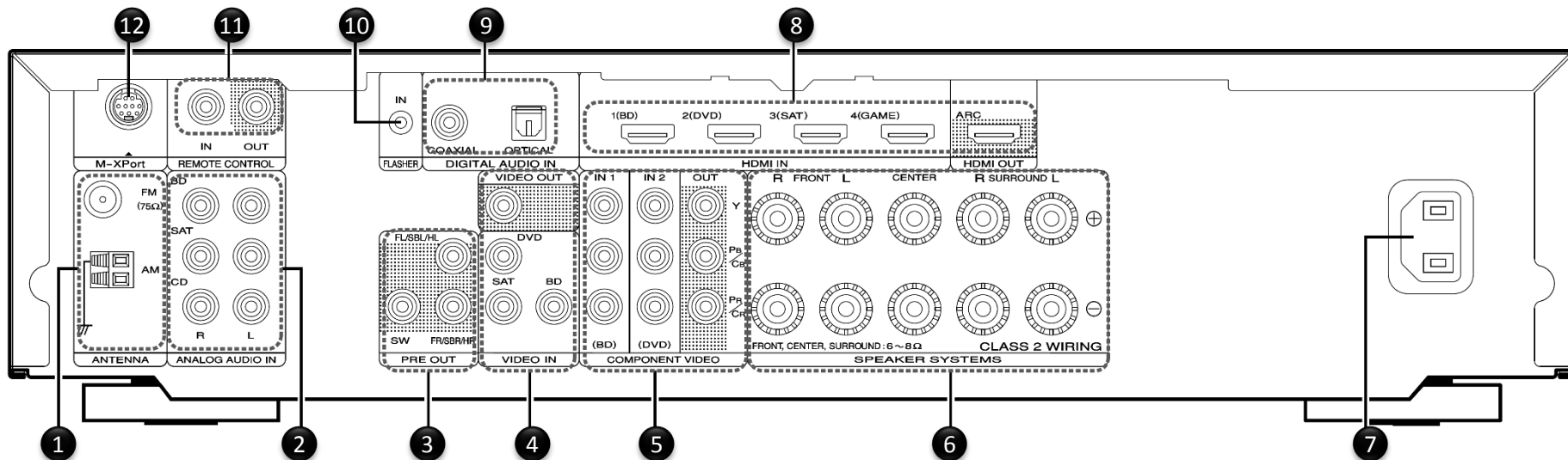
These light according to the reception conditions when the input source is set to "TUNER".

STEREO : In the FM mode, this lights up when receiving stereo broadcasts.

TUNED : Lights up when the broadcast is properly tuned in.

AUTO : Lights up when in the auto tuning mode.

Rear Panel



1 FM/AM antenna terminals (ANTENNA)

Used to connect FM and AM antennas.

2 Analog audio connectors (AUDIO)

Used to connect devices equipped with analog audio connectors.

3 PRE OUT connectors

Used to connect a subwoofer with a built-in amplifier.

4 Video connectors (VIDEO)

Used to connect devices equipped with video connectors.

5 COMPONENT VIDEO connectors

Used to connect devices equipped with component video connectors.

6 Speaker terminals (SPEAKERS)

Used to connect speakers.

7 AC inlet (AC IN)

Used to connect the power cord.

8 HDMI connectors

Used to connect devices equipped with HDMI connectors

9 Digital audio connectors (DIGITAL AUDIO)

Used to connect devices equipped with digital audio connectors.

10 FLASHER IN jack

Used when using a control BOX or other such control devices to control this unit.

11 REMOTE CONTROL connectors

Used to connect infrared receivers/transmitters in order to operate this unit and external devices from a different room.

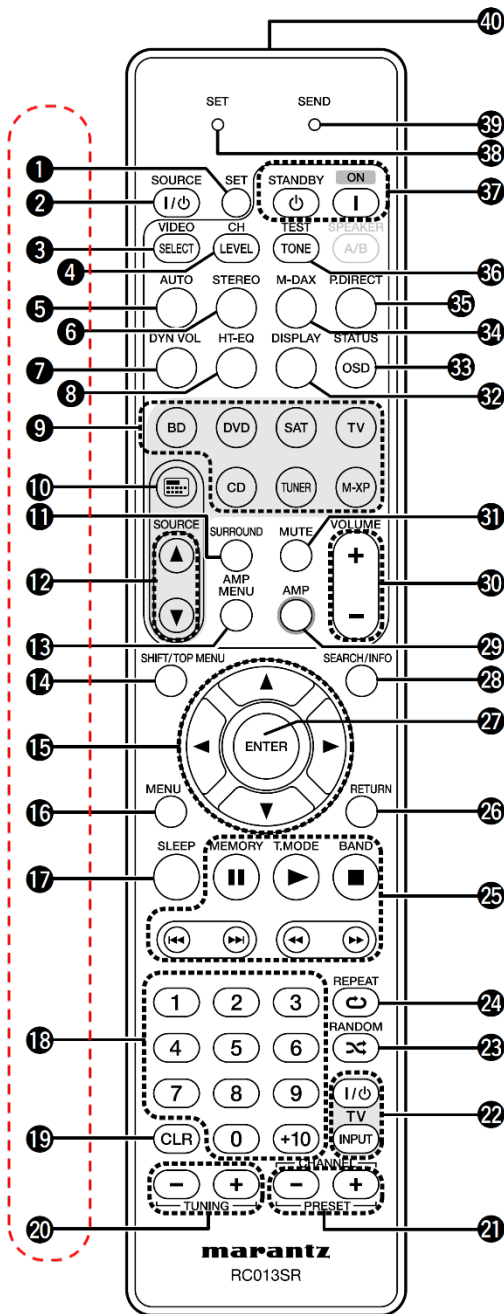
12 M-XPort connector

Used to connect to a wireless receiver (RX101, sold separately).

NOTE:

- Do not touch the inner pins of the connectors on the rear panel. Electrostatic discharge may cause permanent damage to the unit.

Remote Control (1 of 2)



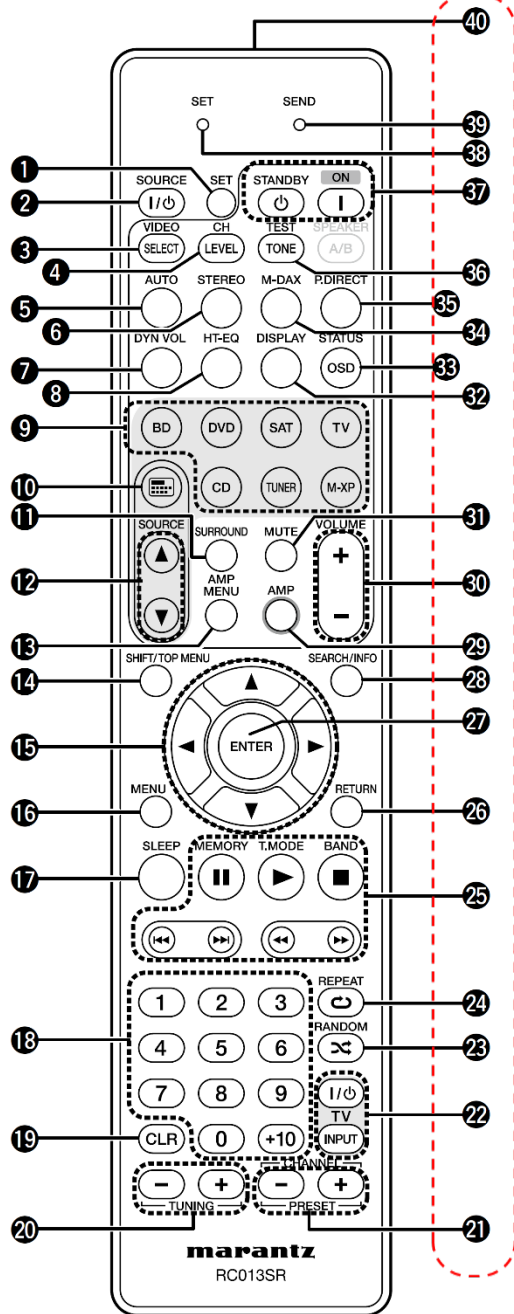
- 1 SET button
- 2 SOURCE power button
- 3 VIDEO SELECT button
- 4 Channel level button (CH LEVEL)
- 5 AUTO button
- 6 STEREO button
- 7 Audyssey Dynamic Volume® button (DYN L)
- 8 HT-EQ button
- 9 Input source select buttons
- 10 Source select menu button
- 11 SURROUND button
- 12 Source select buttons (SOURCE ▲▼)
- 13 AMP MENU button
- 14 SHIFT/TOP MENU button
- 15 Cursor buttons (▲▼◀▶)
- 16 MENU button
- 17 SLEEP button
- 18 Number buttons
- 19 Clear button (CLR)
- 20 TUNING buttons (+, -)
- 21 PRESET buttons (+, -)
- 22 TV operation buttons (TV/On-Off/ INPUT)
- 23 RANDOM button

REAR PANEL

HOME

REMOTE CONTROL (2 of 2)

Remote Control (2 of 2)



- 24 REPEAT button (0)
- 25 System buttons
 - Pause button (II)
 - Play button (▶)
 - Stop button (■)
 - Skip button (◀▶)
 - Search button (◀▶)
- MEMORY button
- Tuner mode button (T.MODE)
- FM/AM band switching button (BAND)
- 26 RETURN button
- 27 ENTER button
- 28 SEARCH/Information (INFO) button
- 29 AMP button
- 30 Master volume control buttons (VOLUME +, -)
- 31 Muting button (MUTE)
- 32 DISPLAY button
- 33 STATUS OSD button
- 34 M-DAX button
- 35 Pure direct button (P.DIRECT)
- 36 TEST TONE button
- 37 Power buttons (ON/STANDBY)
- 38 SET indicator
- 39 SEND indicator
- 40 Remote control signal transmitter

NOTE:

The SPEAKER A/B button cannot be used.

MARANTZ USA LIMITED WARRANTY (1 of 2)

This warranty will be honored only in the **U.S.A.**

Length of Non-Transferable Warranty

This warranty on your Marantz product which is distributed and warranted by Marantz America Inc. remains in effect for the following periods from the date of the original consumer purchase from an AUTHORIZED DENON ELECTRONICS (USA), LLC DEALER.

3 year warranty for both Parts & Labor, from the original purchase date
1 year for refurbished (B-Stock) units

MARANTZ AMERICA, Inc.
(a D&M Holdings Company)
100 Corporate Drive
Mahwah, NJ 07430-2041
(201) 762-6666
www.usa.Marantz.com

MARANTZ FACTORY SERVICE by PANURGY OEM
701 Ford Road (South Dock)
Rockaway, NJ 07866-2053
(973) 625-4056
(973) 625-9489 Fax
<http://www.panurgoem.com/Denon/Denonrepair.html>

See the next page for more information about the Marantz limited warranty

Warranty (2 of 2)

What is covered and what is not covered

Except as specified below, this warranty covers parts and labor to correct all defects in materials and workmanship. The following are not covered by the warranty.

1. Damage, deterioration, malfunction or failure to meet performance specifications resulting from:
 - Accident, acts of nature, misuse, abuse, neglect or unauthorized product modification.
 - Improper installation, removal or maintenance, or failure to follow instructions supplied with the product.
 - Repair or attempted repair by anyone not authorized by Marantz to repair the product.
 - Any shipment of the product (claims must be presented to the carrier).
 - Any cause other than a product defect.
2. Cleaning, initial set-up, check-ups with no defects found, or charges incurred for installation, removal or reinstallation of the product.
3. Any product on which the serial number has been defaced, modified or removed.
4. Batteries.
5. Accessories, including but not limited to, batteries, cables, mounting hardware and brackets, cleaning accessories, antenna and detachable power cords.
6. Warranty is void if purchase was made from anyone other than an authorized Marantz dealer.

Who may enforce the warranty?

This warranty may be enforced only by the original purchaser.

What we will pay for

We will pay for all labor and material expenses for items covered by the warranty. Payment of shipping charges is discussed in the next section of this warranty.

How you can get service

- If your unit needs service, contact Marantz customer service by calling 201-762-6666. We will advise you of the name and location of one or more authorized Marantz service stations from which service can be obtained. Please do not return your unit to the factory without prior authorization.
- You must pay any shipping charges if it is necessary to ship the product for service. However, if the necessary repairs are covered under warranty, we will pay the return shipping charges to any destination within the United States, its possessions or territories.
- Whenever warranty service is required, you must present the original dated sales receipt or other proof of date of purchase.

Limitations of implied warranties

All implied warranties, including warranties of merchantability and fitness for a particular purchase, are limited in duration to the length of this warranty.

Exclusion of damages

Marantz liability for any defective product is limited to repair or replacement of the product at Marantz's option. Marantz shall not be liable for damage to other products caused by any defects in Marantz products, damages based upon inconvenience or loss of use of the product, or any other damages, whether incidental, consequential, or otherwise.

How the law relates to the warranty

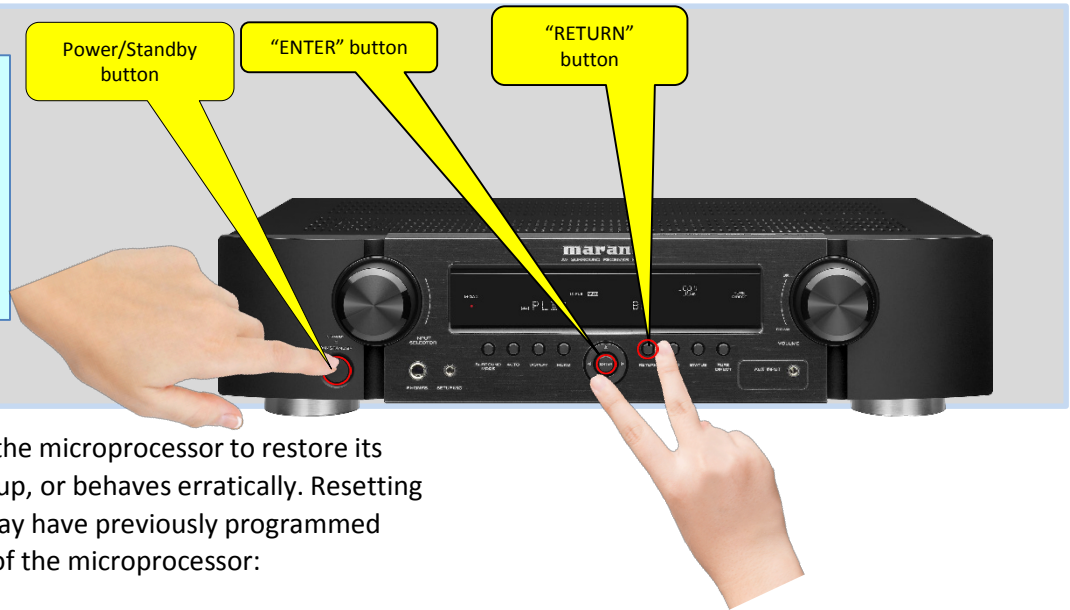
Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Reset

Reset procedure:

With the power off, press and hold the “ENTER” button, “RETURN” button, and “POWER” button simultaneously on the AVR for a few seconds until the AVR’s display starts flashing at intervals of about 1 second.



Resetting the micro is a procedure used to "reboot" the microprocessor to restore its normal operation when it temporarily freezes, locks up, or behaves erratically. Resetting the microprocessor, erases any saved settings you may have previously programmed into the unit. Issues that can affect the performance of the microprocessor:



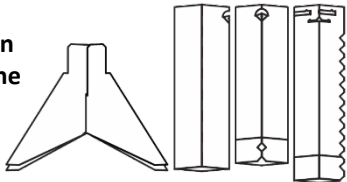


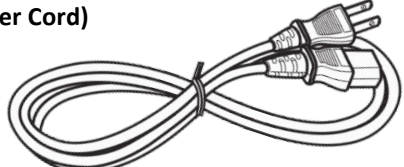
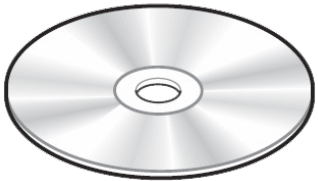
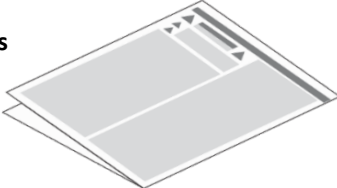
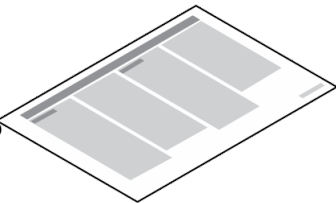
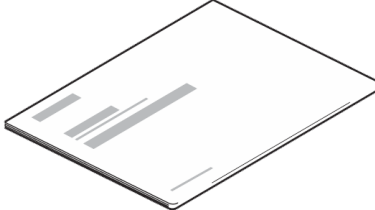
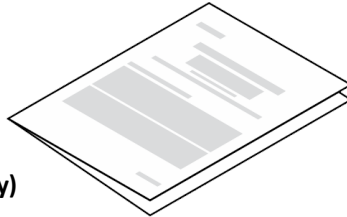
- A jolt of static electricity
- Current surge through an input

Before resetting the microprocessor;

- Check all connections carefully
- Check for setup errors

Note: If you had an installer setup your system, please first contact your installer to see if they can reset and then setup your system again as there may be specific EQ calibrations (Audyssey) that the installer will need to perform.

Accessories

| | | | | | |
|--|--------|--|--------|--|---------|
| Remote Control (RC013SR)  | | Sound Calibration Microphone (ACM1H)  | | Sound Calibration Microphone Stand  | |
| 307010091001M | \$ | 324810004004M | \$ | 963549101000D | \$16.82 |
| AM Loop Antenna  | | FM Indoor Antenna  | | Power Cord)  | |
| 90M-ZA000260R | \$8.99 | 00D9600187308 | \$7.79 | 90M-ZC000470R | \$30.64 |
| | | CD ROM Owner's Manual  | | Safety Instructions  | |
| | | | | | |
| Notes on Radio  | | Quick Start Guide  | | Warranty (For North America Only)  | |
| | | | | | |

RESET

HOME

FAQ's

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Dolby Atmos, DTS:X and Auro-3D Upgradeable

Dolby Atmos and DTS:X surround sound technologies dispense with channel-based coding in favor of object-based coding, giving the sound designer the ability to precisely place sounds anywhere in the 3-dimensional space. The NR1402, features the ability to connect a 5.1 surround sound speaker system and 4 additional overhead speakers (or 4 additional Dolby Atmos elevation speakers) for the ultimate home cinema experience. Thanks to the 11ch processing capability, you can just add an external 2-channel amplifier and even enjoy a thrilling 7.1.4 channel Dolby Atmos or DTS:X experience. Dolby Surround Upmixer and DTS Neural:X Upmixer are also in place to simulate 3D sound from standard formats.

Auro-3D Upgrade

By fully immersing the listener in a cocoon of life-like sound, Auro-3D puts you right in the middle of the action. Auro-3D provides an immersive surround sound experience thanks to dedicated height and overhead channels, in addition to the regular channels. The height information, captured in recording or created during the mixing process, is mixed into a standard 5.1 PCM stream that comes with a regular Blu-ray. Moreover, the Auro-3D engine recognizes mono, stereo, 5.1 surround or an Auro-encoded signal and transforms them into 3D audio. Once upgraded with the Auro-Codec decoder, the NR1402 is capable of decoding the original Auro-3D mix and playing back an Auro-3D 10.1 channel configuration (with external amplifier). **Auro-3D upgrade availability and pricing to be announced.**

Visit <http://upgrade.Marantz.com> for upgrade information.

Upgrades/Updates (2 of 2)

Firmware:

This unit has the ability to update its firmware over the internet if so is selected by the user. When connected to a network via Wi-Fi or Ethernet, the AVR searches automatically for new updates and if any is found, a message appears on the screen for approx. 40 seconds with the options of updating the firmware: “NOW”, “LATER”, or “IGNORE”. Note: This feature of displaying the update message, can be disabled from the “Setup” menu (Setup/General/Firmware/Notifications/Update or Upgrade/Off).

If the update process is interrupted, “*Update retry*” appears on the display and the unit tries repeatedly to continue the update until it either reconnects and picks up where it left off and continue the update process or times itself out after trying several times. When the latter occurs, one of the following messages will appear on the screen.

| | | | | |
|-----------------|---------------|---------------|----------------|--------------|
| Connection fail | Download fail | Updating fail | Server is busy | Login failed |
|-----------------|---------------|---------------|----------------|--------------|

To Check for Firmware Update from the **Marantz** server when the unit is connected to the internet via the Ethernet port (When Firmware Notification is turned off).

Press “SETUP” and select “GENERAL” and then select “FIRMWARE” followed by “UPDATE” and finally, select “CHECK FOR UPDATE”.

Note: This will also check the time it will approximately take to complete the update.

To check to see if an update or upgrade is available for your **NR1402** and also to download the latest version of firmware, click on the following link:

<http://www.us.marantz.com/us/support/pages/productupdates.aspx>

Note: A list of “Recent Updates/Upgrades is also available at this link”

Specifications – Audio Section

| Audio section | | | |
|------------------|-----------------------------------|--------------|---|
| Power amplifier | Rated output | Front | 50 W + 50 W (8 Ω/ohms, 20 Hz – 20 kHz with 0.08 % T.H.D.) |
| | | Center | 50 W (8 Ω/ohms, 20 Hz – 20 kHz with 0.08 % T.H.D.) |
| | | Surround | 50 W + 50 W (8 Ω/ohms, 20 Hz – 20 kHz with 0.08 % T.H.D.) |
| | Maximum effective output power | Front | 75 W + 75 W (6 Ω/ohms, 1 kHz with 10 % T.H.D.) |
| | | Center | 75 W + 75 W (6 Ω/ohms, 1 kHz with 10 % T.H.D.) |
| | | Surround | 75 W + 75 W (6 Ω/ohms, 1 kHz with 10 % T.H.D.) |
| Output connector | | 6 – 8 Ω/ohms | |
| Analog | Input sensitivity/Input impedance | | 130 mV/47 kΩ/kohms |
| | Frequency response | | 10 Hz – 100 kHz — +1, –3 dB (Direct mode) |
| | S/N | | 98 dB (IHF–A weighted, Direct mode) |

Specifications - Video section, Tuner Section, Wireless LAN Section

| Video section | | |
|---------------------------------|----------------------------------|--------------------------------------|
| Standard video connectors | Input/output level and impedance | 1 Vp-p, 75 Ω/ohms |
| | Frequency response | 5 Hz -10MHz, 0, - 3dB |
| Color Component video connector | Input/Output level and Impedance | Y (brightness) signal — 1 Vp-p, 75 Ω |
| | | PB / CB signal — 0.7 Vp-p, 75 Ω |
| | PR / CR signal — 0.7 Vp-p, 75 Ω | |
| | Frequency Response | 5 Hz – 60 MHz — 0, –3 dB |

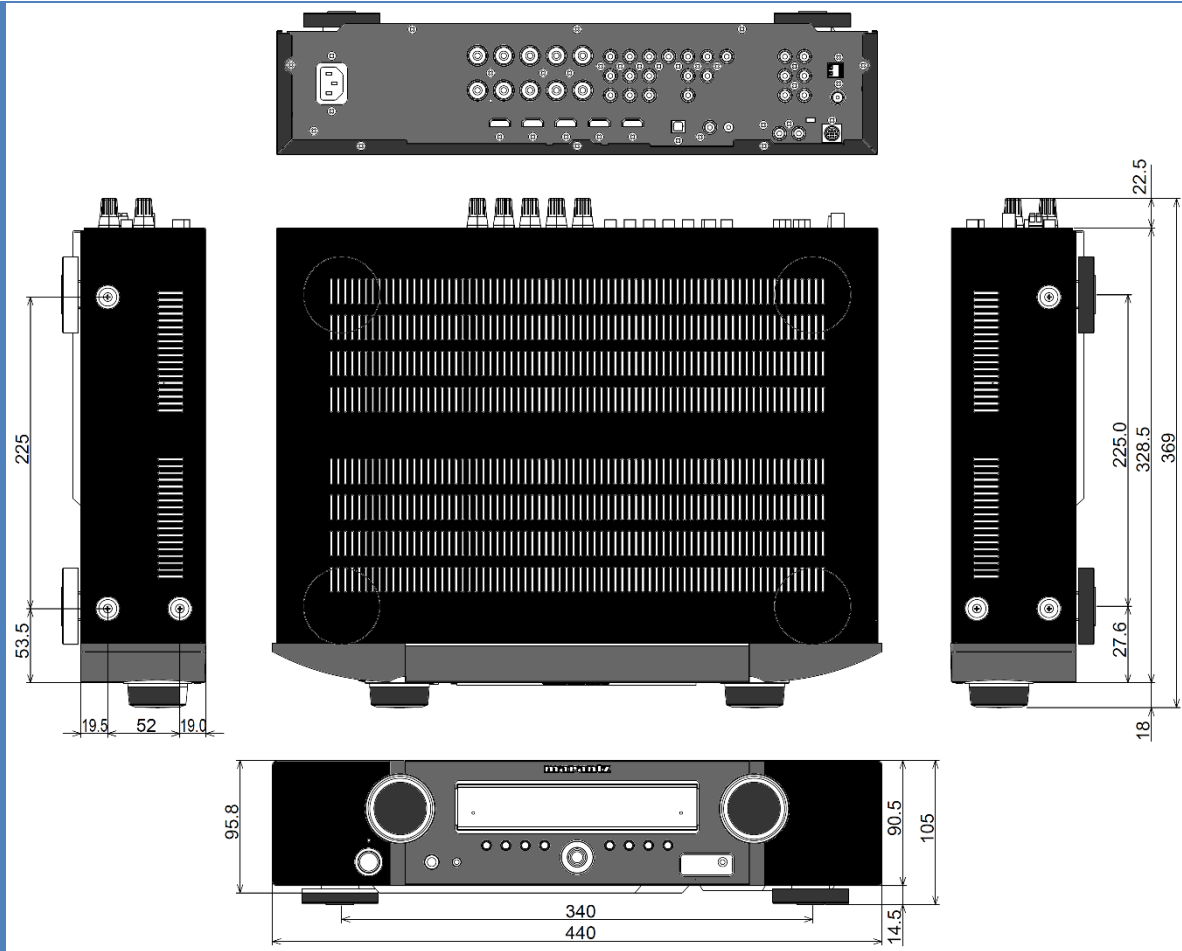
| Tuner section | | |
|---------------------------|---|--------------------|
| | FM | AM |
| | Note: μV at 75 Ω/ohms, 0 dBf = 1×10^{-15} W | |
| Reception frequency range | 87.50 MHz - 107.90 MHz | 520 KHz - 1710 KHz |
| Effective sensitivity | 1.2 μV (12.8 dBf) | 18 μV |
| 50 dB sensitivity | Mono – 2.8 μV (20.2 dBf) | |
| S/N ratio | Mono | 70 dB |
| | Stereo | 67 dB |
| Distortion | Mono | 0.7 % (1KHz) |
| | Stereo | 1.0 % (1KHz) |

| General section | |
|---------------------------------------|---------------|
| Power supply | AC 120V, 60Hz |
| Power consumption | 180W |
| Power consumption in standby mode | 0.2W |
| Power consumption in CEC standby mode | 3 W |

For purpose of improvement, specifications and design are subject to change without notice.

Specifications – Dimensions, Weight

Dimensions section (Unit : inch/mm)



Weight: 18 lbs 1.3 oz (8.2 kg)

SPECIFICATIONS -
AUDIO

SPECIFICATIONS - VIDEO -
TUNER - GENERAL

HOME

Protection History Display
Mode (Front Panel Buttons)

The End

NOTE:

This edition is missing the link to the IR Codes.....12/09/2016

