

# SpeakerCraft Integration Guide

Manufacturer:	Marantz
Model Number(s):	SR5008 / 6008 / 7008 / 5007 / 6007 / 7007 / 6006 / 5006 / AV7701 / 8801 / NR1602 / 1603
SpeakerCraft App Version:	1.2 and above
Comment:	Tested SR7008 FW: 5330-0346-9582
Document Revision Date:	7/30/15

## OVERVIEW AND SUPPORTED FEATURES

Marantz receivers include an Ethernet port which is connected to a Local Area Network (LAN), allowing the **SpeakerCraft App** system to provide full two-way communication; enabling reliable control and providing feedback to the **SpeakerCraft App** system when changes occur at the receiver.

### MARANTZ RECEIVERS SUPPORT THE FOLLOWING FEATURES:

**Basic Source and Volume Control:** Select any available source and control volume with two-way feedback. Changes made at the receiver (turning the volume control, changing source) are immediately reflected in the **SpeakerCraft App**.

**Onboard Tuner:** The HD AM/FM tuner or FM Only Tuner (as appropriate) can be controlled from the standard **SpeakerCraft App** tuner interface.

**RDS:** RDS, or Radio Data System meta-data from HD Radio is read and displayed in the **SpeakerCraft App User Interface** using the built-in Tuner interface (supported models).

**Tone/Listening Mode Control:** Most Marantz models provide control for Bass/Treble and Listening Modes through a custom settings page. Note that two-way feedback of Listening Modes/Tone may not be available or consistent on all models.

### MARANTZ RECEIVERS DO NOT SUPPORT THE FOLLOWING FEATURES:

**Integration of NET/USB Sources:** Digital audio source control is limited to source selection and volume control in the **SpeakerCraft App**.

**Multiple AVR Zones:** The **SpeakerCraft App** supports the functionality of **ONE AVR Zone**. When using supported A/V Receivers with Zone 2 (or Zone 3) outputs, these additional zones will not function correctly through the **SpeakerCraft App** system and are NOT supported.

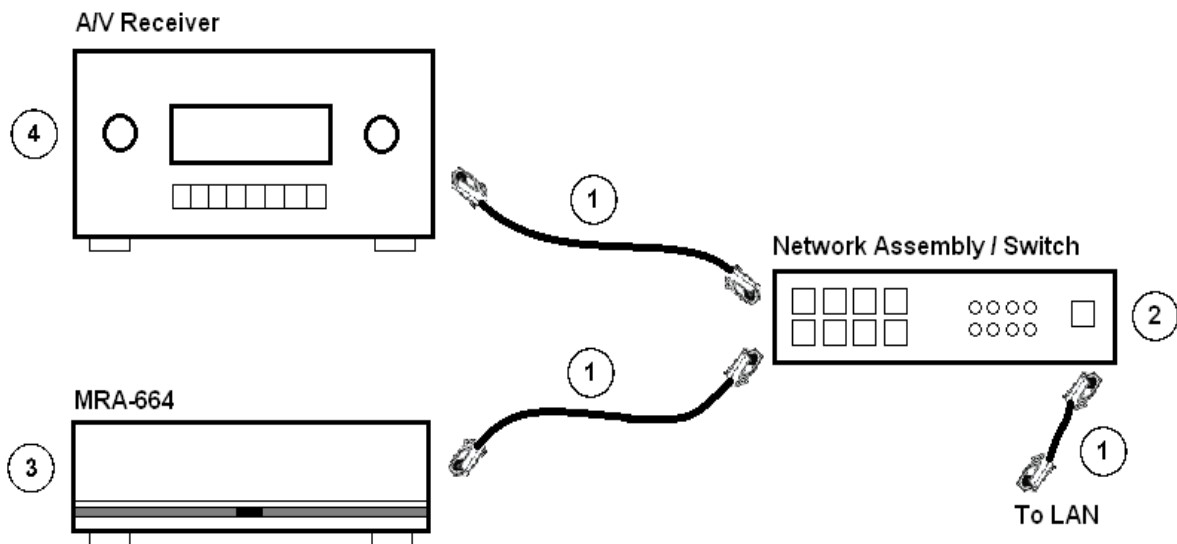
**Additional Features:** Many units include additional features such as Trigger Outputs, IR Inputs/Outputs, etc. Unless specifically listed above, the **SpeakerCraft App** does not integrate with these features.

Any feature not specifically noted as "supported" is not supported.

## INSTALLATION OVERVIEW

1. During the rough-in phase, install the necessary speaker and video cabling for the theater installation.
2. Also during the rough-in phase, run a Cat-5 wire from the location of the receiver back to the network switch location to provide the Ethernet connection needed to control the receiver. The **SpeakerCraft MRA-664** should already be connected to the same LAN.
3. Install the speakers, display and other theater components.
4. Program the receiver according to the manufacturer's documentation.
5. Test the receiver to ensure that the sources play correctly and that the audio and video operate as expected.
6. Configure the **SpeakerCraft App** system for the receiver and confirm communication between the receiver and the **SpeakerCraft App** system controller.
7. Test the **SpeakerCraft App** system by changing sources and volume to confirm the correct source plays.

## CONNECTION DIAGRAM: ETHERNET CONTROL



## BILL OF MATERIALS

#	Device	Manufacturer	Part #	Protocol	Connector Type	Notes
1	Cat-5 Cable	Installer	N/A	TCP/IP	RJ-45 Male to RJ-45 Male	Must terminate all 8 conductors
2	Network Assembly/Switch	Installer	N/A	TCP/IP	RJ-45 Female	
3	MRA-664 System Controller	SpeakerCraft	MRA-664	TCP/IP	RJ-45 Female	
4	Marantz A/V Receiver	Marantz	See Notes	TCP/IP	RJ-45 Female	See Model Number(s) above

### MARANTZ SETUP NOTES (ETHERNET):

1. Enter **Menu** and use the arrows to scroll and select **Network**.
2. Enter **Settings**.
3. Use the arrows to set **DHCP** to **OFF**.
4. Use the *arrows* to configure the following settings:

Use *arrows* to select the desired field, **<enter>** to edit, edit field using arrows, and then **<enter>** again to save that field:

- a. **IP Address: 192.168.000.050** (change as needed for your network range; SpeakerCraft recommends setting the Ethernet controlled AV receiver to **x.x.x.50**).
  - b. **Subnet Mask** (Typical): **255.255.255.000**
  - c. **Default Gateway** (Router IP-Default): **192.168.000.001**
  - d. **Primary DNS** (Router IP-Default): **192.168.000.001**
  - e. **Secondary DNS** (typically not needed, may leave 000.000.000.000)
5. Press **<Back>** to exit and save changes
  6. Back on the **Network Setup** menu, select **IP Control**
  7. Set **IP Control** to **Always On**
  8. Press **<Back>** a few times to exit the menu.

### MARANTZ SETUP NOTES (ETHERNET) FOR SR6006 / 5006:

1. Enter **Menu** and use the *arrows* to scroll and select **Manual Setup**.
2. Enter **Network Setup**.
3. Enter **Network Connecting**, select **Detail** and press **<Enter>**.
4. Use the *arrows* to set **DHCP** to **OFF**.
9. Use the *arrows* to configure the following settings:

Use *arrows* to select the desired field, **<enter>** to edit, edit field using arrows, and then **<enter>** again to save that field:

- a. **IP Address: 192.168.000.050** (change as needed for your network range; SpeakerCraft recommends setting the Ethernet controlled AV receiver to **x.x.x.50**).
  - b. **Subnet Mask** (Typical): **255.255.255.000**
  - c. **Default Gateway** (Router IP-Default): **192.168.000.001**
  - d. **Primary DNS** (Router IP-Default): **192.168.000.001**
  - e. **Secondary DNS** (typically not needed, may leave 000.000.000.000)
5. Use the *arrows* to scroll down to **Exit** to save settings.
  6. Press **<Return>** to move back to the **Network Setup** menu, and then enter **Other**.
  7. Configure **Network Standby** to **ON**.
  8. Press **<Return>** a few times to exit the menu.

## COMMON MISTAKES

1. Using the wrong **Communication Type**. The receiver models listed in the document all use the Marantz (D-Type) protocol.

**Note:** On older versions of software, there is only one Communication Type; **Marantz**. If only one **Marantz** communication type is present, a software update is required to control this receiver.

2. Configuring the unit to use DHCP will lead to eventual connectivity and control problems. It is recommended to set up the Marantz AV Receiver with a Static IP address for reliable control. Please see the **Marantz Setup Notes**, above, for instructions.
3. Attempting to configure multiple AVR zones. Even when using supported models that have second and/or third zones, only ONE AVR zone will work correctly with the **SpeakerCraft App** system.