

PTS-SMBGM1: User Manual



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Overview

The **PTS-SMBGM1** is a speaker that has wireless audio control capabilities that can be monitored using the *Tiles Discovery Program*, a server with graphical user interface (GUI) that communicates to all the units that are registered to the same network.

Features:

Noise:

- Types of Noise:
 - Pink: Sound masking with different eq from 1 to 8.
 - White: Equal noise from all frequencies
- Volume: Loudness of the noise from 1 to 79.
- Mute/Unmute: Mute or unmute noise.
- E.Q. Curve Selection: 8 different modes of Pink noise.

Music:

- Music Channels:
 - Main Input: Selection of the Main channel.
 - Auxiliary Input: Selection of the Auxiliary channel.
 - Local: Selection of the Local channel.
 - Bluetooth: Selection of Bluetooth.
- Volume: Loudness of the music from 1 to 79.
- Mute/Unmute: Mute or unmute music.

Schedule:

- Schedule implementation of noise and/or music.

Microphone:

- Automatic volume adjustment based on outside noise

Compatible browsers and their versions:

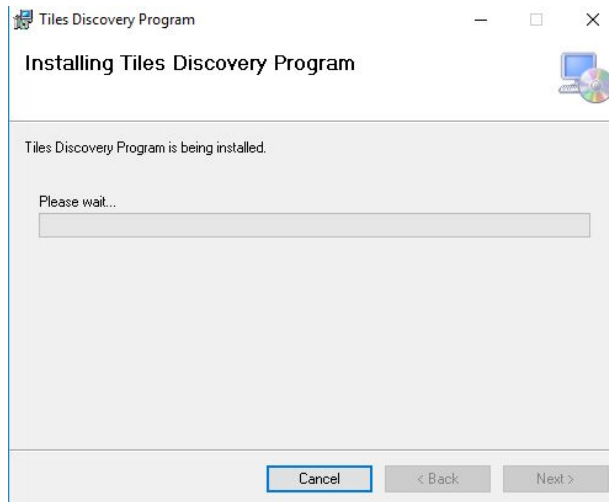
(Recommended: Google Chrome, FireFox, Safari, or Edge with the latest updates.)

Server and Tile Setup

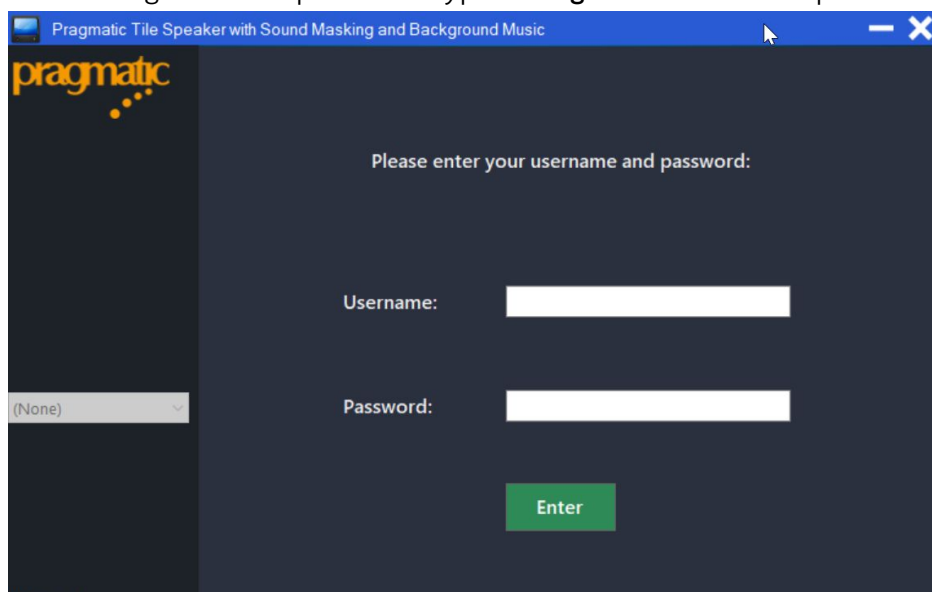
IMPORTANT: Installation and use of the server requires administrator permissions

Please perform the following steps in order:

1. **Server Installation:** Navigate to setup.exe. A desktop shortcut named “PTS Server” with the monitor icon will be created after installation. Please note that first-time installing and running the program might take up to 10 minutes.



2. Launch the Desktop shortcut. The program will ask for administrator permission. Click yes.
3. There will be a login screen that asks for a username/password. If this is the first time, type in **Pragmatic1** for both the user and password to create a new user/pass.
 - a. To change the user/password, type in **Pragmatic1** into both inputs.



4. Check to make sure that a server is already opened on a computer connected to the desired WiFi before proceeding to the next steps. **IF A SERVER IS NOT OPEN, THE TILE MAY TIME OUT TRYING TO FIND A SERVER.**
5. Power on a tile. In a few seconds, you can log into a new network named “PTS-Setup-<xxxxxxxxxxxx>” with the following password: **Pragmatic1**



6. Open a web browser and navigate to 192.168.4.1 (enter into the address bar) and fill out the form. You can choose any tile name and location to help you locate the correct tile in the building.
 - a. The “IR Code” is for the IR factory reset code.
7. Once you have clicked “Submit”, the tile will be registered with the configured Wi-Fi. After waiting around 10–40 seconds, the tile should show up on the server. To access this tile, you must run the PTS Server while connected to the same Wi-Fi as the tile.
 - a. If the tile does not show up after a few minutes, there are a few solutions:
 - i. Restart the tile (can be done using remote by pressing **Power + Menu** or by unplugging and plugging the ethernet cord from the main hub)
 - ii. If there are multiple servers running on the network, it may have connected to a different server. Press the “Find Tiles” button on the application.
 - iii. Factory Reset the tile via IR Remote by aiming the remote at the IR sensor and pressing Power + 0 + 0 + 0. Perform the tile quick start again.
 - iv. Check to make sure the SSID and WiFi password are correct

Setup for the tile is complete!

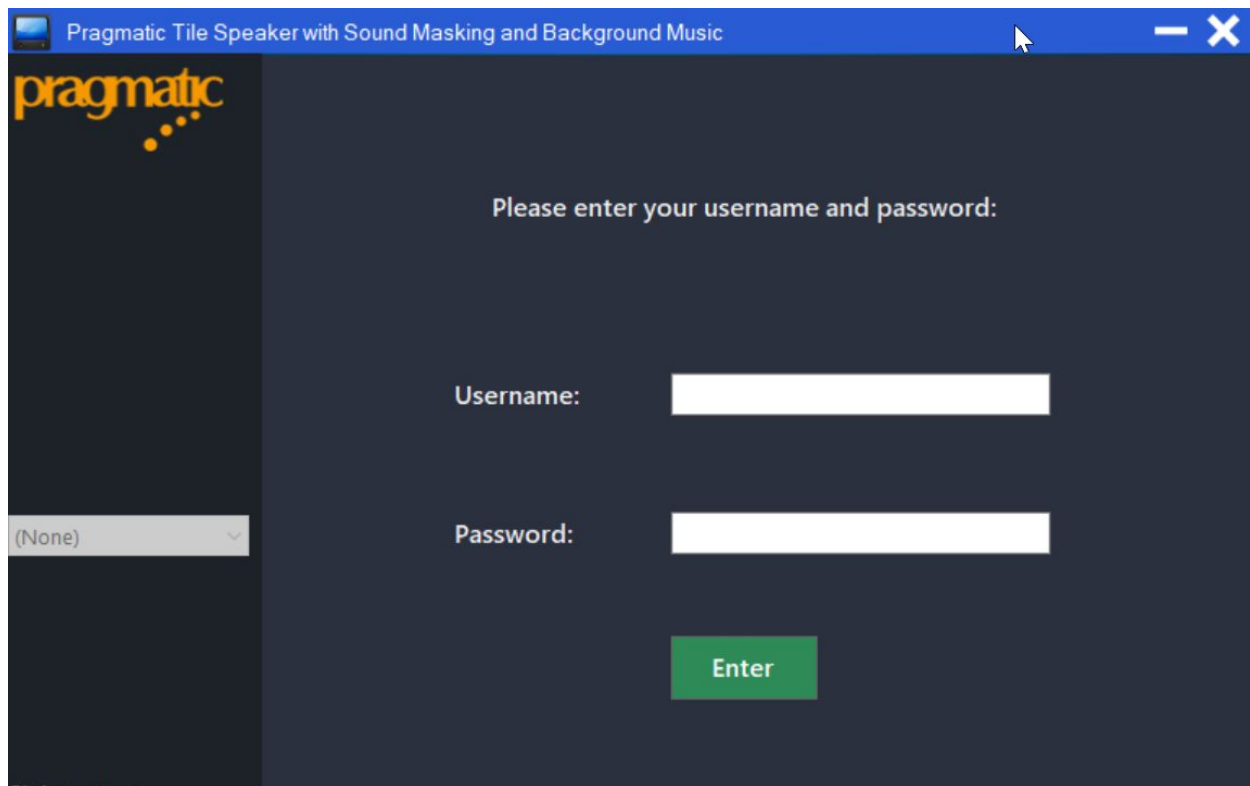
***Note:** If setup has failed due to incorrect SSID and password combination, the WiFi hotspot will be available again for setup. Please wait up to 4 minutes for the network to show up again.*

Server Functions

As long as it is running, the Server stores all the registered tiles that are connected to your Wi-Fi..

IMPORTANT! While using the server, your computer must be connected to the same Wi-Fi to which the tile is registered.

Login

The image shows a screenshot of a web application window titled "Pragmatic Tile Speaker with Sound Masking and Background Music". The window has a dark blue background. In the top left corner, there is a logo with the word "pragmatic" in orange and yellow. The main content area is dark blue and contains the text "Please enter your username and password:". Below this text, there are two white input fields. The first field is labeled "Username:" and the second field is labeled "Password:". Below the password field, there is a green button with the text "Enter". On the left side of the window, there is a vertical sidebar with a dropdown menu showing "(None)".

- Whenever launched, the PTS application will ask for a user login and password.
- If this is the first time launching the application or you wish to change username/password, the user can provide a master username and password to go to the make new username and password screen. The user can then input a new username/password to be saved and the old username/password will be forgotten.
 - Master Username: **Pragmatic1**
 - Master Password: **Pragmatic1**

Server Information:

The screenshot shows the 'Pragmatic Tile Speaker with Sound Masking and Background Music' application. The interface includes a sidebar with navigation options: Server (selected), Music, Noise, Schedule, and Microphone. The main area displays a table of 14 tiles, each with a unique ID (A01-A14), location, IP address, and status (ACTIVE). A dropdown menu at the bottom left shows the selected IP address '10.1.10.7'. The status bar at the bottom indicates 'Status: Connected'.

#	Name	Location	Address	Status
1	A01	Conference Room 1	10.1.10.190	ACTIVE
2	A02	Conference Room 1	10.1.10.41	ACTIVE
3	A03	Conference Room 2	10.1.10.29	ACTIVE
4	A04	Conference Room 2	10.1.10.17	ACTIVE
5	A05	Computer Room	10.1.10.7	ACTIVE
6	A06	Gym Entrance	10.1.10.125	ACTIVE
7	A07	Gym Exit	10.1.10.89	ACTIVE
8	A08	Mark's Office	10.1.10.185	ACTIVE
9	A09	Daniel's Office	10.1.10.90	ACTIVE
10	A10	Lobby 1	10.1.10.187	ACTIVE
11	A11	Lobby 1	10.1.10.149	ACTIVE
12	A12	Workspace	10.1.10.155	ACTIVE
13	A13	Cafeteria 1	10.1.10.5	ACTIVE
14	A14	Cafeteria 2	10.1.10.166	ACTIVE

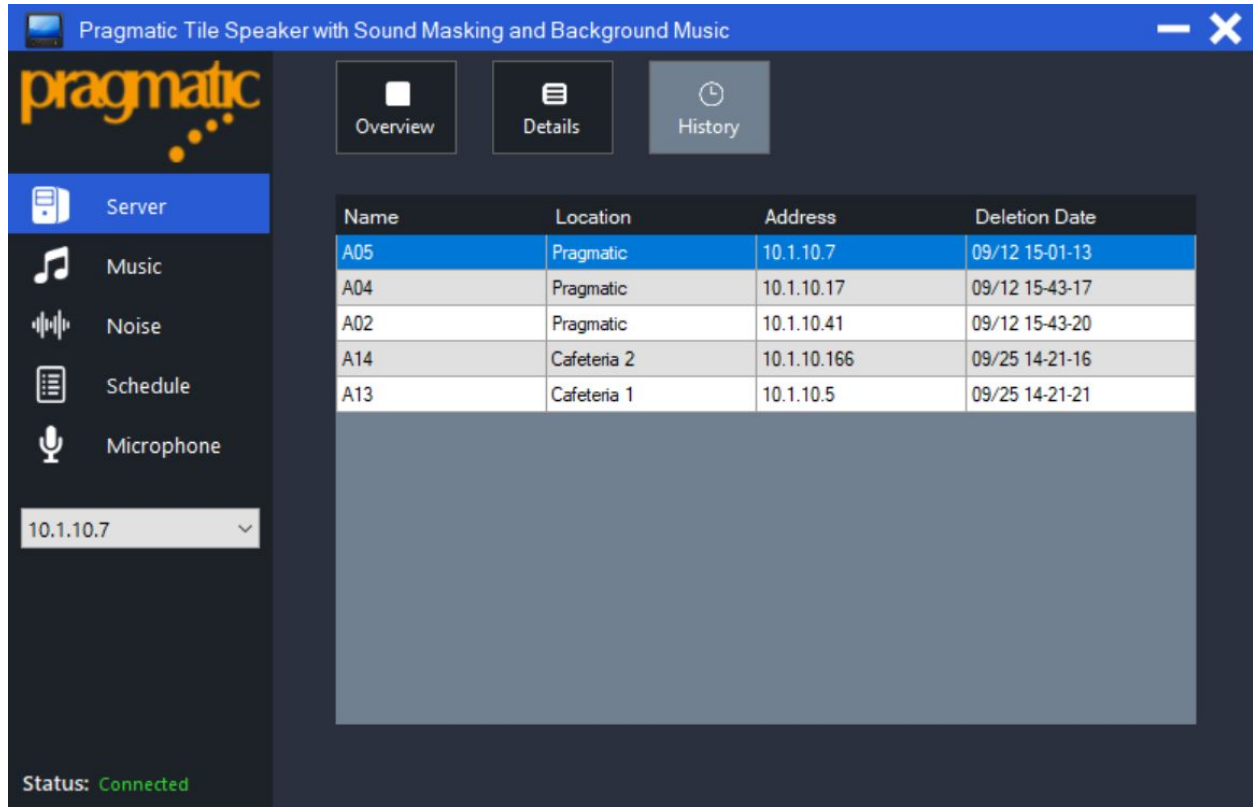
Overview

- Lists all the tile's that are connected to the **same WiFi as the computer the application is running on**. Lists the Name and location assigned during the set-up stage and the unique address assigned by the router.
- Lists the status of the router
 - *Note: Sometimes the router doesn't display the status correctly. To determine if a unit is active, try selecting its Address in the drop-down menu and see if it connects.*
- **Sync Server:**
 - Searches for other servers on the network and gets a list of their tiles.
- **Delete:**
 - Two modes of deletion:
 1. **Click** → Removes tile from the tile list
 2. **CTRL+Click** → Removes tile from the tile list and factory resets the tile
- **Right clicking Columns:**
 - Rename Tile
 - Change Location
 - Change WiFi



Details

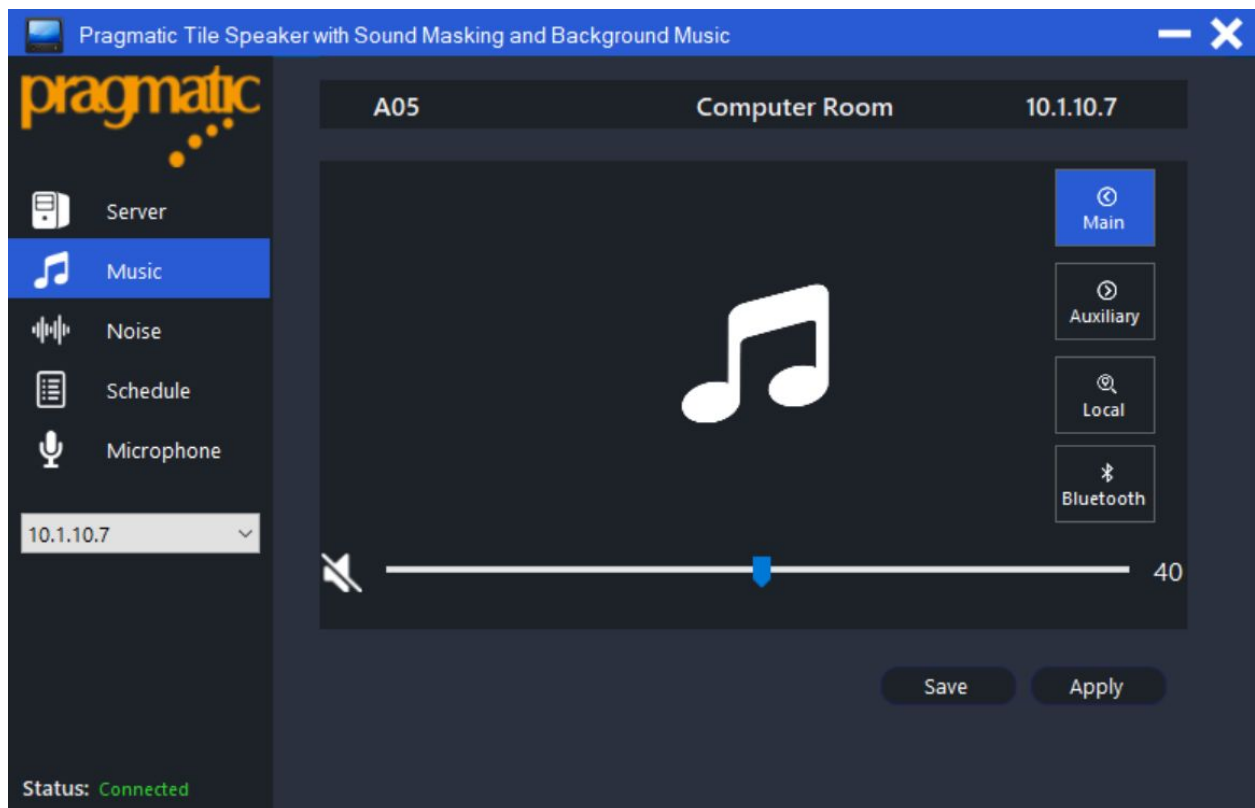
- To view a tile's information, choose its IP Address in the drop-down menu and then click the Details button in the Server tab
- **IR Remote:** By default this is off for each tile. Toggling it on will enable the use of the simple secondary remote to control the volume of the noise and the music.
 - *Note: The master remote is always enabled. The toggle only applies to the simple up-down remote.*
- **IR Code:** Inputted during the setup screen. This is the code that allows the user to factory reset a specific tile.
 - It is also important to note that **000 is the universal factory reset code.**



History

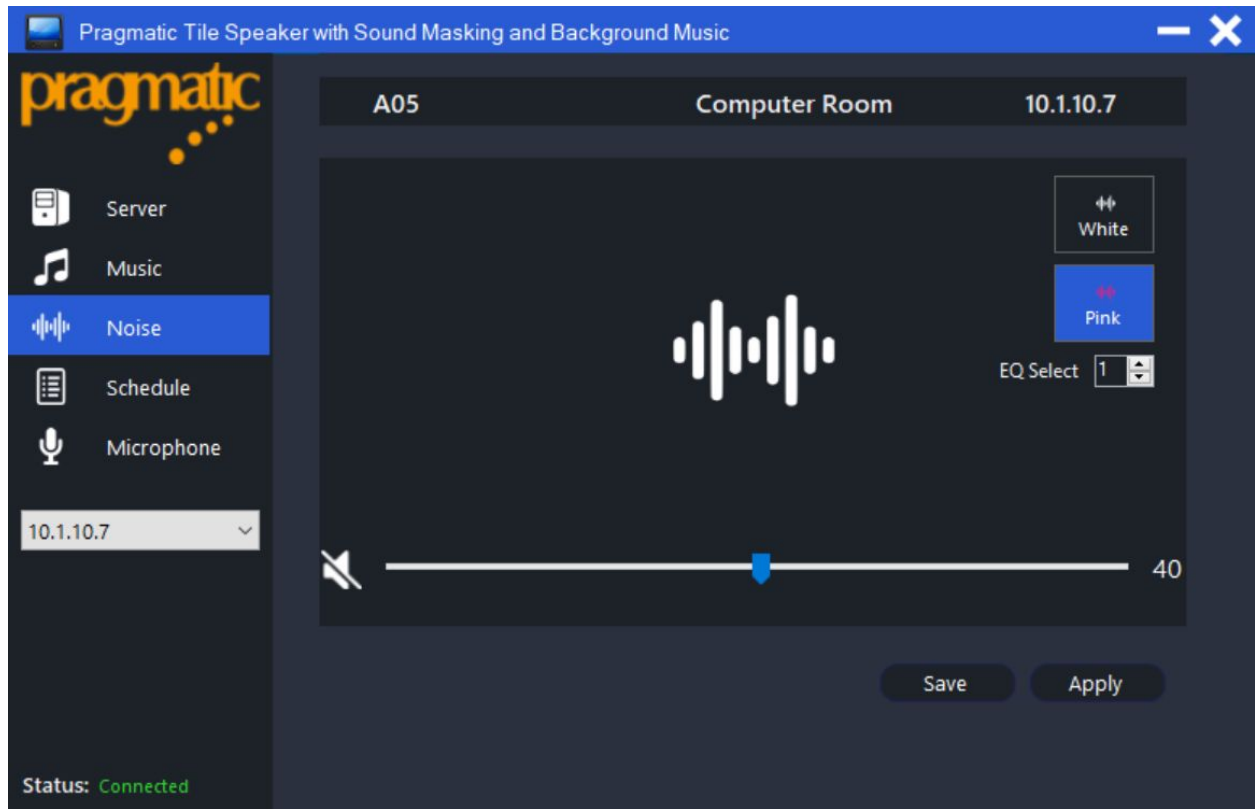
- Lists all previously deleted tiles with the name, location, address, and deletion date/time
- **Right clicking Columns:**
 - Restore tile (to the server list)
 - Delete Tile from History
 - Clear History
- To select a tile, you must choose its address from the dropdown list seen above.

Tile Control



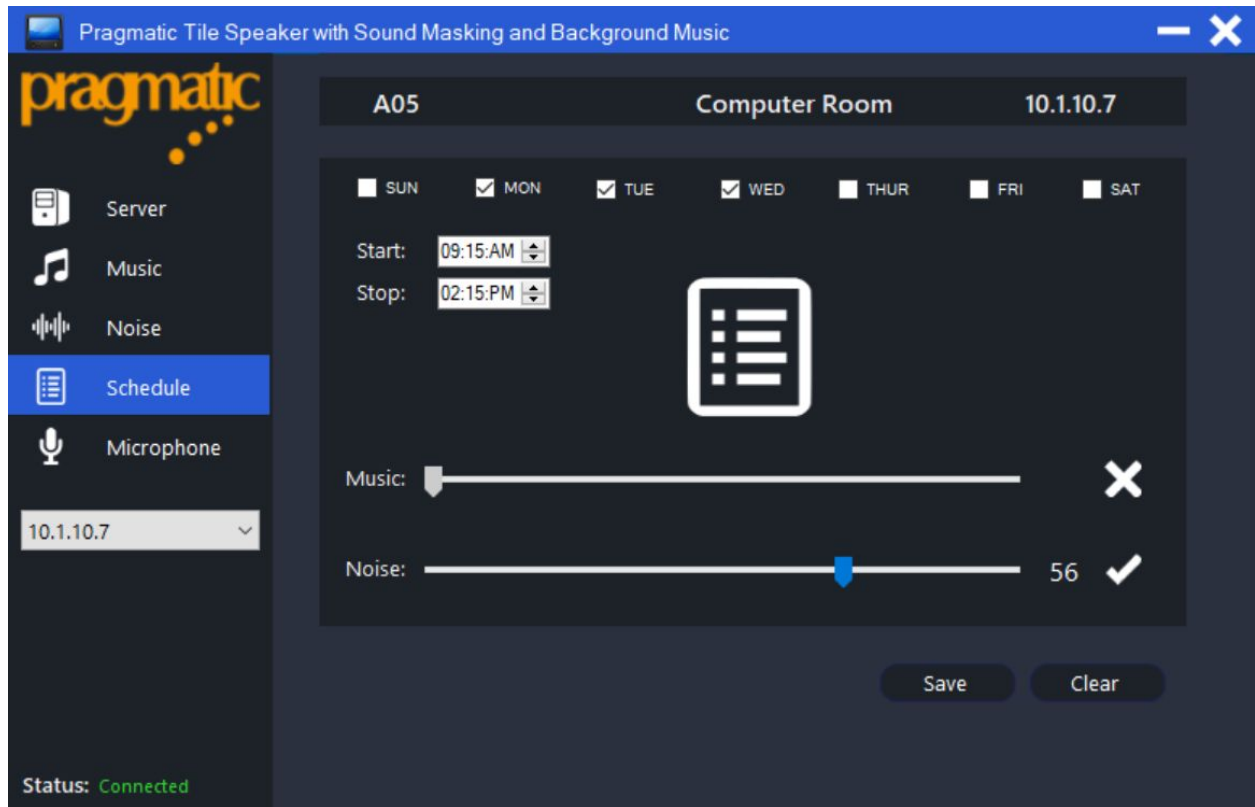
Music:

- 4 inputs: Main, Auxiliary, Local, Bluetooth.
- Volume control: volume of the tile doesn't change until either the apply or the save button is clicked
 - The Apply button will **temporarily set** the volume of the music only for a limited time (until the tile restarts)
 - The Save button will **permanently set** the volume of the music until it is changed by a server



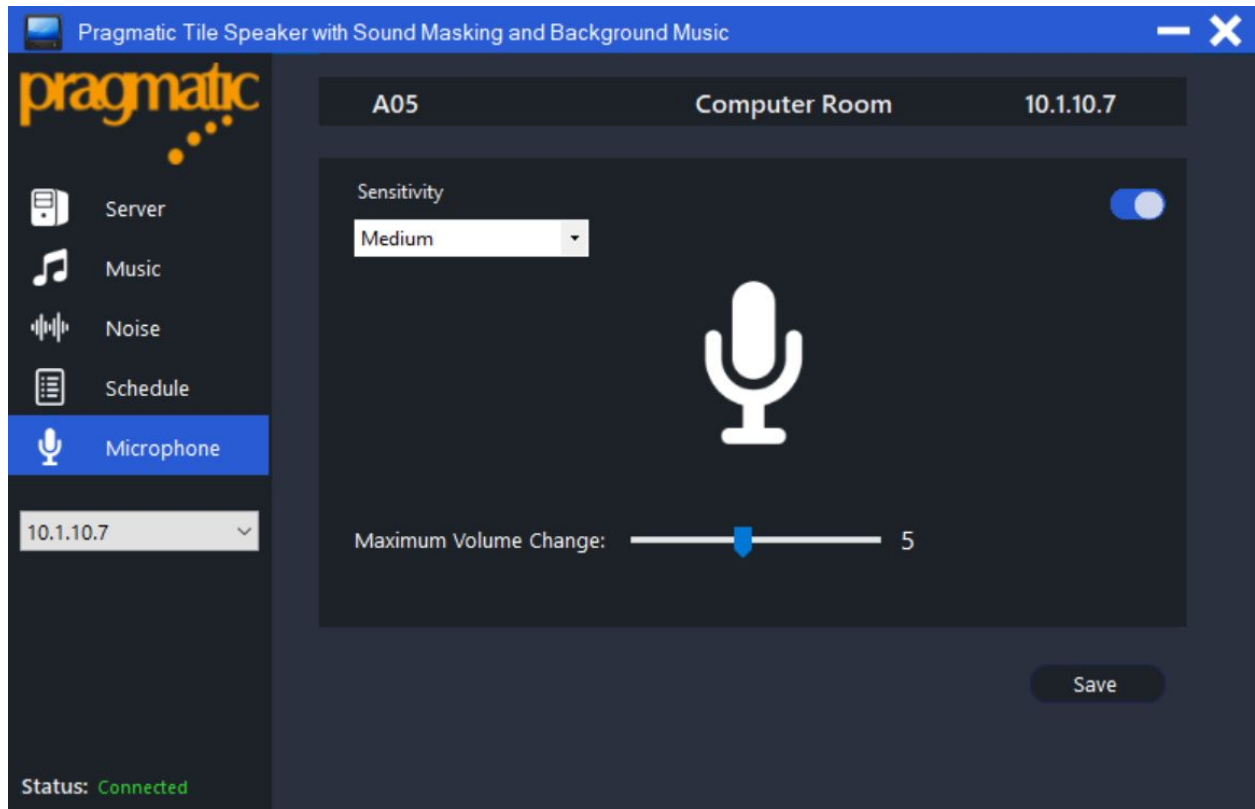
Noise:

- 2 noise types:
 - White.
 - Pink: 8 EQ curve variations.
- Volume control has the same design function as the Music tab



Schedule:

- Implementation of a schedule that can repeated on selected days
- The tile's parameter(s) (either noise, or music, or both) will have its operation schedule based on the following:
 - 15 minutes before the start time, the parameter's volume starts to ramp up at a rate of 3dB per minute to the volume that is set in the schedule.
 - At the stop time, the parameter's volume starts to ramp down at a rate of 3dB per minute to the previously saved state.
- **Note:** the schedule changes will not take place unless the Save button has been pressed



Microphone:

- Enable microphone for automatic volume adjustment based on outside noise
- Maximum volume change:
 - Maximum volume deviation from the preset volume levels for music and noise.
- Sensitivity Level
 - Adjust the sensitivity level for how well the volume changes in response to the surrounding sound.

	Very Low	Low	Medium	High	Very High
mV per dB	25	20	15	10	5

- When saved, the current sound level that is picked up by the microphone is automatically set to the reference sound level.

IR Remote Control

Important Commands

- **Power → 000** : Global Tile Factory reset command for every tile
- **Power → ###**: Specific Tile Factory reset command
 - The ### is inputted at the time of setup
 - In order to see the ### of a certain tile, select the desired tile in the dropdown list and then click the Details button. The ### should be displayed in the bottom right.
 - There must be 3 numbers inputted (i.e. if the IR number is 3, then the input should be: Power → 003)
- **Power → MENU**: Restarts the tile
 - Useful for if the tile suddenly stops responding to the server or acts in a strange manner

Questions and Concerns

For any questions not addressed in this manual, please use the following contact information:

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