

TDC-9100

Owner's Manual

Total Control™

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TDC-9100
Owner's Manual

Introducing the TDC-9100

Thank you for purchasing URC's TDC-9100 In-Wall Network Keypad. Its easy and intuitive use helps to simplify your life while adding control of more things than you thought possible.

Online Support
Total Control is sold direct only and must installed/program by a certified custom integrator.

End-User Support
Visit the URC Home Page for product information, owner's manuals, and support contact information.

Contact Support
Total Control is a URC product sold direct only. For questions or assistance contact your Custom Installer/Programmer.

My Installer/Programmer

_____

_____

_____



Technical Support
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Hours: 9:00am - 5:00pm EST M

Rev 1.0

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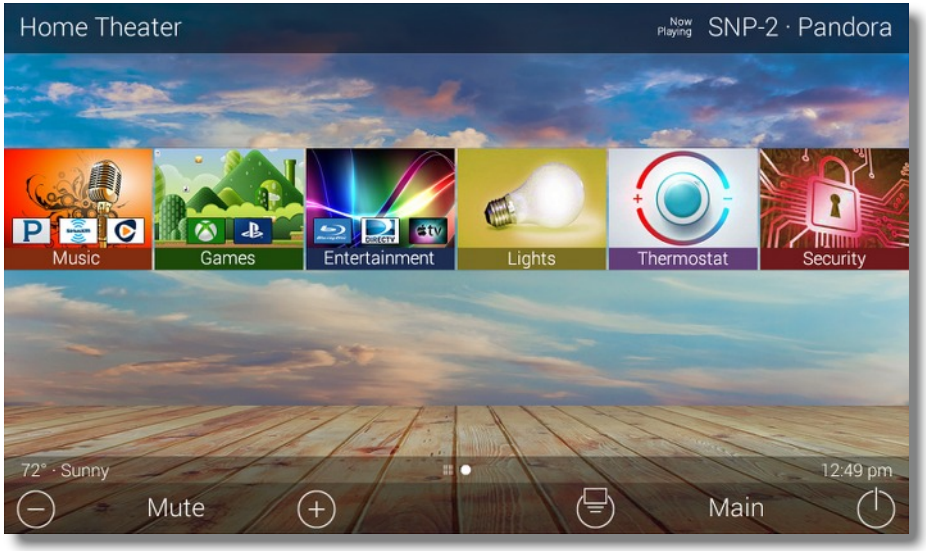
Features and Benefits

The TDC-9100 In-Wall Network Keypad is one of URC's most advanced devices that is optimized for usage with Total Control.

Enjoy these key features:



Updated User Experience

This device has the capability of using URC's Total Control software suite. Using this software provides this device with a modern "look and feel" giving the end-user an improved user experience in terms of graphics, performance, and features.



Audio-Video Interface

Communicate with any other URC Intercom-Enabled device in the system with this feature. The end-user can make Audio-Video, Audio, or Audio Broadcast calls directly from the TDC-9100.



Gigabit Ethernet
The TDC-9100 supports a Gigabit wired Ethernet connection providing faster speeds and improved reliability.

PoE+
Power the TDC-9100 via the PoE+ feature. This allows the TDC-9100 to have dedicated power allowing for a faster experience.



5GHz Wi-Fi
5GHz functions at a higher frequency providing faster data speeds. This feature allows the TDC-9100 to operate seamlessly on a wireless connection.

Part List

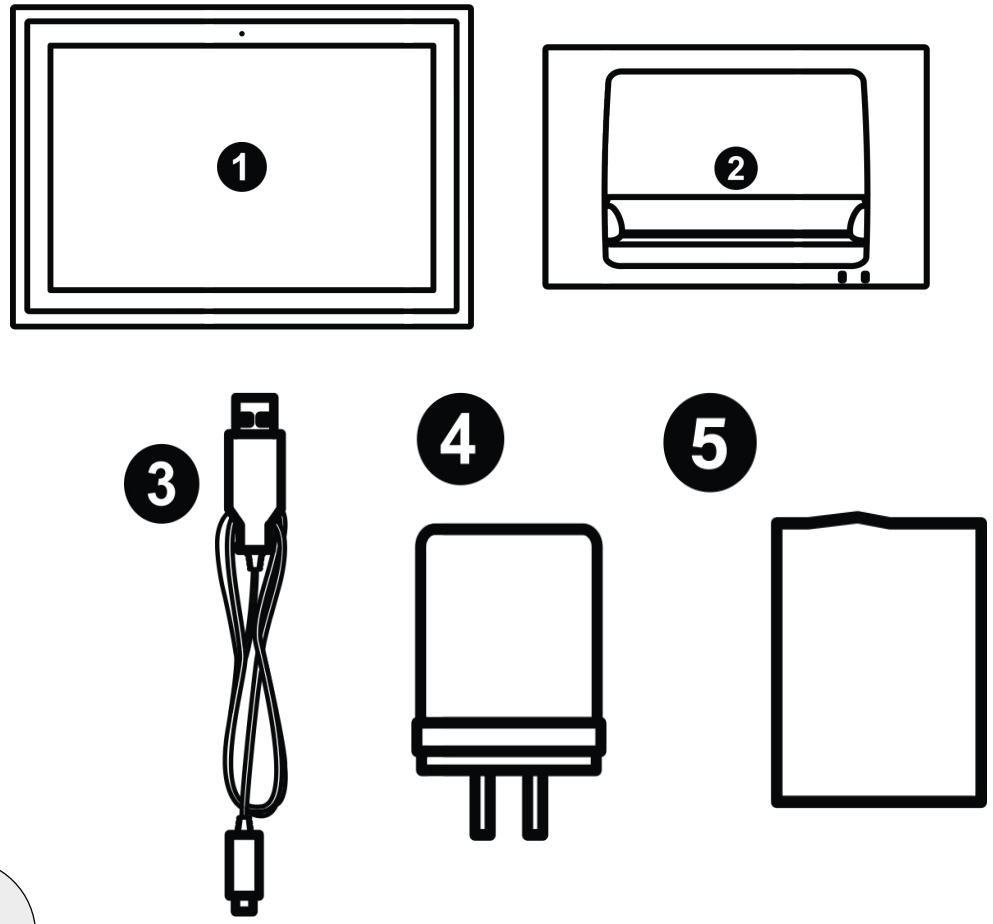
Included in the TDC-9100:

1. TDC-9100 Tabletop Controller
2. Charging Dock
3. USB Cable Type C
4. Power Adapter (FCC / US only)

   Regional Power Adapter Notice
   For the CE / EU version, the AC power adapter is not included. Please use a commercially available, CE-certified power adapter that complies with applicable local safety requirements,
   Use only a power adapter with a output voltage and cuurent rating that matches the rated input marked on the produck label.
5. Battery

Fully charge the TDC-9100's battery prior to first time usage.

The Power Adapter provided with the TDC-9100 is **REQUIRED** for fast charging.



Main Menu Navigation

Although specific screen design and certain options are dictated by the custom integrator that programmed the Total Control system, the general layout remains the same.

Actual navigation is performed via screen swipes:

- **Left Swipe:** Swipe left to reveal additional Main Menu pages. The amount of pages available on the Main Menu is dictated by the custom integrator.
- **Right Swipe:** Swipe right to reveal the Scenes Menu. The Scenes Menu contains URC Scenes that are created by the custom integrator. Return to the Main Menu by swiping left from the Scenes Menu.
- **Button Tapping:** On the Main Menu selecting each of these areas provide the end-user with control:

  A. Category/Device Ribbon: Select a Category button to reveal the associated sub-menu OR select a Device located here to access that devices menu. This is dictated by the custom integrator.

  B. Rooms Menu: Select the Room Name to access the Room's Menu. This menu allows the end-user to control another room and more.

  C. Volume Control: Tap the minus (Vol-) to lower the volume, plus (Vol+) to increase the volume, and Mute to mute the volume.

  D. Shortcuts: Select this button to reveal the Shortcuts Popup menu. The end-user can add up to six (6) items on this menu.

  E. Main: Select this to return to the Main Menu regardless of what page the device is currently on. This can be changed to return to the Scenes Menu, speak with the custom integrator to program the TDC-9100 this way.



F. Room Power Off: Select this button to turn off the current room.

G. Now Playing: Select the Now Playing button at the top to instantly jump into that device/activity's menu pages.

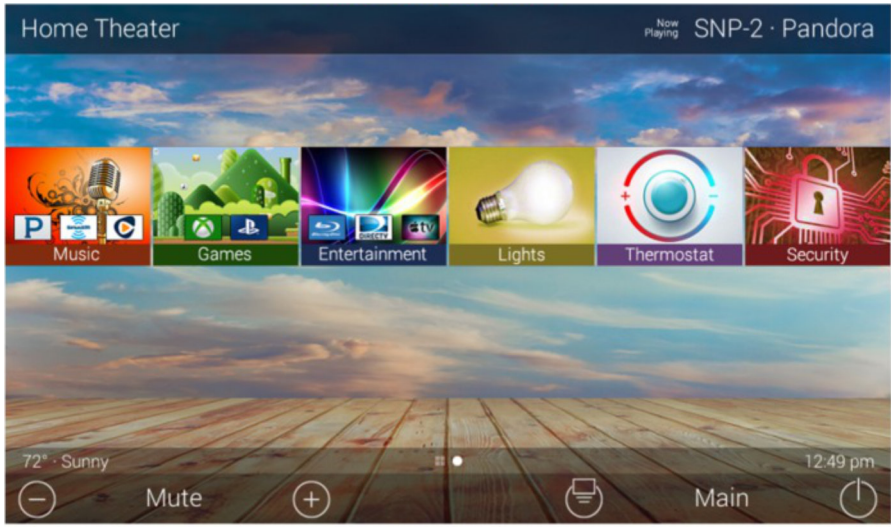
Main Menu: View Modes
Total Control features two different view modes for the TKP- 7600. Each view mode has its own unique properties that compliment the user experience.

The view mode must be programmed from within the Accelerator software, speak to a custom home integrator for more details.

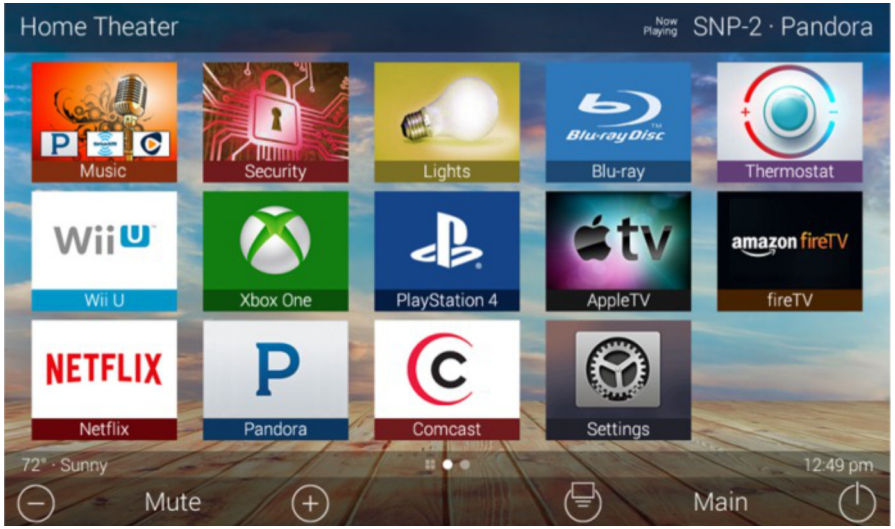
1. **Ribbon View:** This is the default view mode and it contains up to six (6) items per page.

2. **Grid View:** This view mode contains up to fifteen (15) item per page.

Ribbon View:



Grid View:



Title Bar

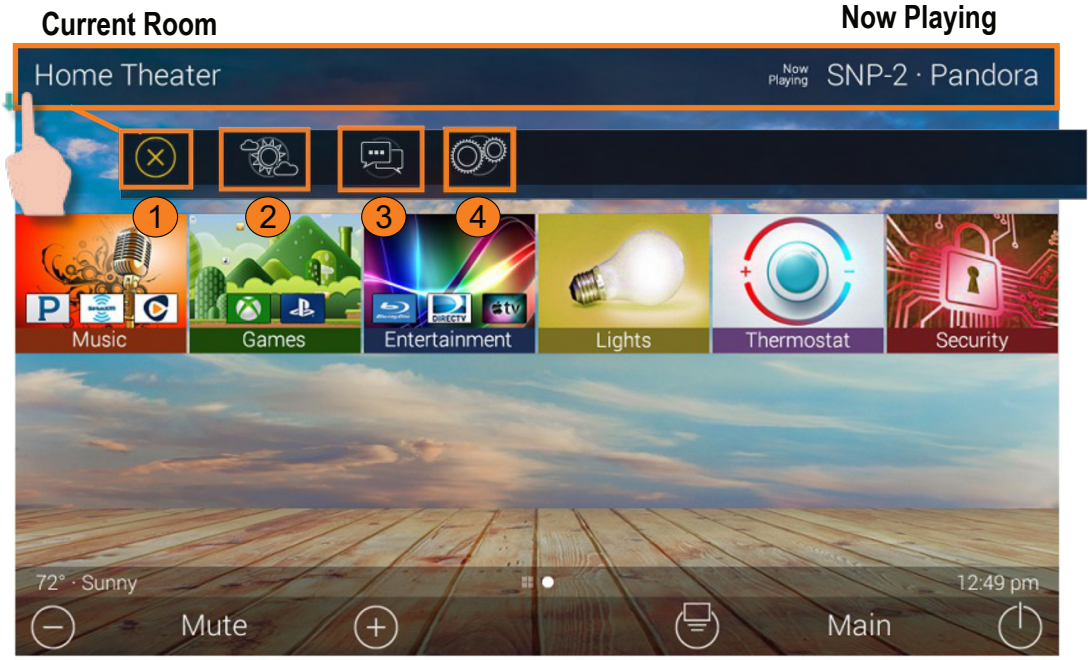
The **Title Bar** is always present regardless of what menu and/or room the TDC-9100 is currently using.

On the left of the **Title Bar**, the current room the TDC-9100 is controlling is displayed. Selecting it reveals the **Rooms Menu**.

At the right of the **Title Bar** is the **Now Playing** area. This displays which device/activity is currently active. Selecting it returns the interface to the device/activity's menu for control.

The **Title Bar** is located at the very top of the display. To access its menu, swipe down as depicted on the image to the right. There are three (3) selectable options here:

1. **Close:** Select this to hide the Title Bar Menu.
2. **Weather Module:** Select this to display the Time and Weather Module, this feature requires the home location. This location is set from within the Accelerator software.
3. **Intercom:** Select this button to display the Intercom Menu. This menu displays all available Intercom-Enabled device (clients). Please see this documents Audio-Video Intercom section for more details.
4. **Settings:** Select this button to access the TDC-9100's Settings Menu. The various parts of the Settings Menu are explained in detail in a later section of this document.



Room's Menu
Tap on the Room Name located on the left in the Title Bar to display the **Room's Menu**.

The **Room's Menu** contains every room programmed into the system. Specific rooms may be hidden from certain interfaces, speak to the custom home integrator for that option.

Each room is given a **Room Name** and customized image to represent that room. Additionally, the **Room's Menu** can be used for controlling volume, turning off the lights, or completely powering off a specific room.

Here are the selectable buttons in the **Room's Menu**:

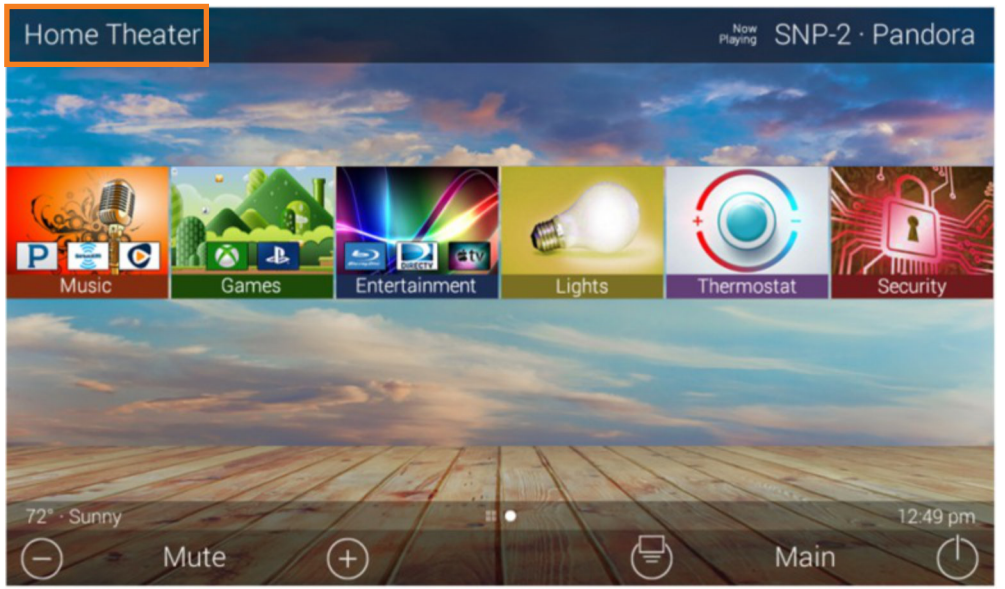
1. **Volume Control:** Select this button to reveal the Vol +, Vol -, and Mute icons. This button is available on any room with audio sources.

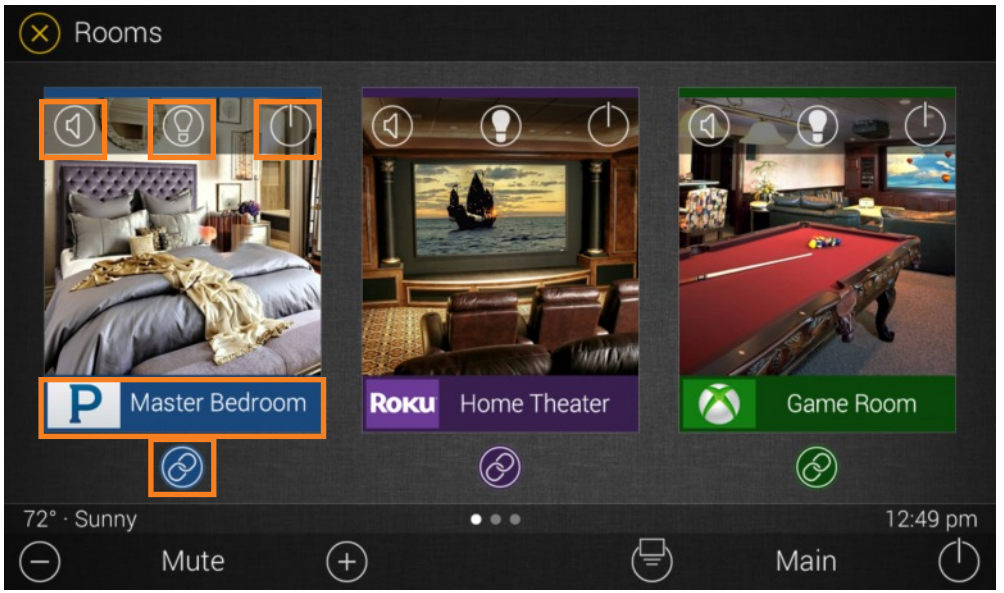
2. **Lights Off Action Command:** This button is programmed by the custom integrator and can be set to turn off all the lights in a particular room.

3. **Room Off:** Select this button to turn off all the devices in that particular room. This button can only be used to turn off a room.

4. **Now Playing:** This section displays what device/activity is currently active in that room. Selecting this jumps the TDC-9100 to that device/ activity's menu for control.

5. **Room Linking:** This feature is only available on DMS Audio device. It is used to link DMS Zones/Areas. This means having one menu that controls volume for multiple zones simultaneously or individually.





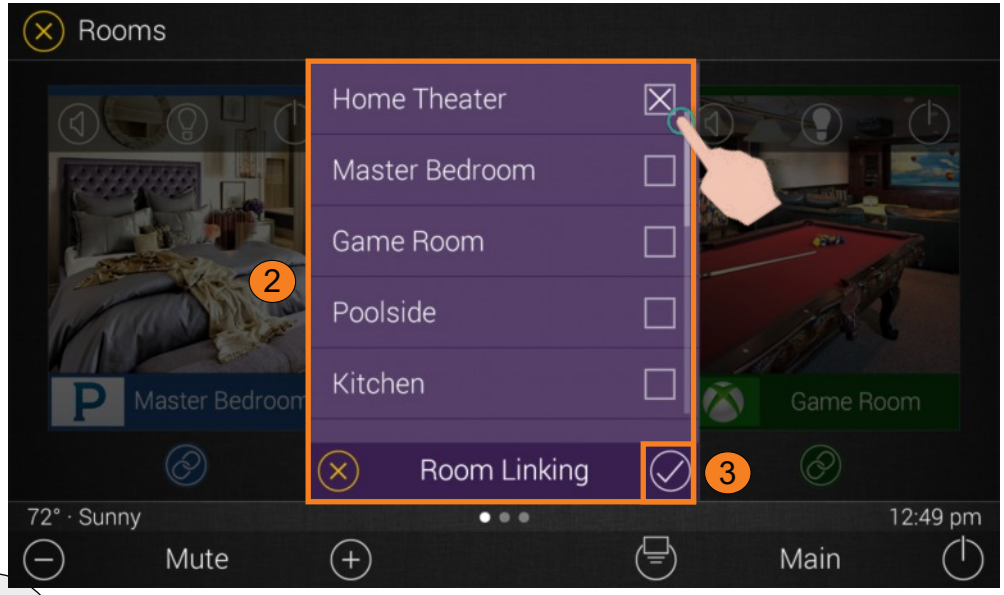
Room Linking
Remember, Room Linking can only be used by DMS Zones/Areas. The following steps take place from within the Room's Menu:

1. Select the **Room Link** button, this displays the **Room Linking Menu**.
2. Select which **rooms** in the system to link. Only rooms that are DMS Zones/Areas appear on the Room Linking Menu.
3. Select the **Check** to confirm.

These rooms are now linked. It is possible to control volume on all of these rooms from one menu (see below). Control the volume of each Linked Zone/Area individually or simultaneously using the All Linked Rooms volume slider.



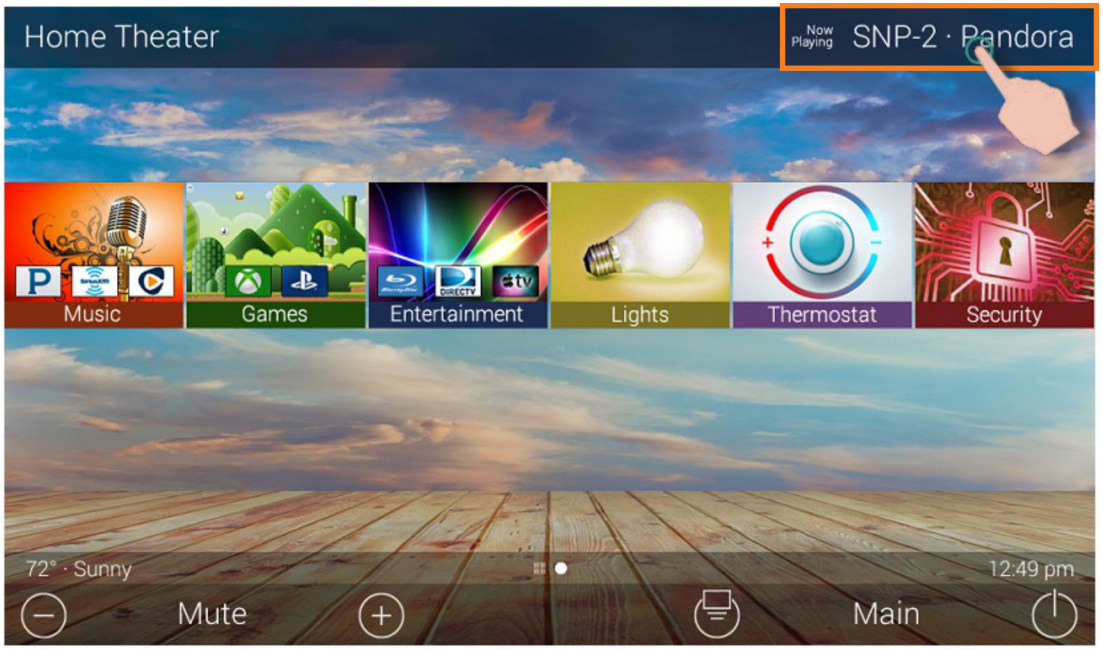




Now Playing
On the right hand side of the Title Bar is the Now Playing area. The Now Playing area always dictates what activity is currently playing in the room.

In the example at the right, **Now Playing** reads "**SNP-2 Pandora**". This means that in the Home Theater the SNP-2 is using Pandora currently.

Tapping the Now Playing area jumps the TDC-9100 to the menu for the device in that section. In the example this mean that, once tapped, the interface jumps to the SNP-2 device menu for control.



Core Buttons

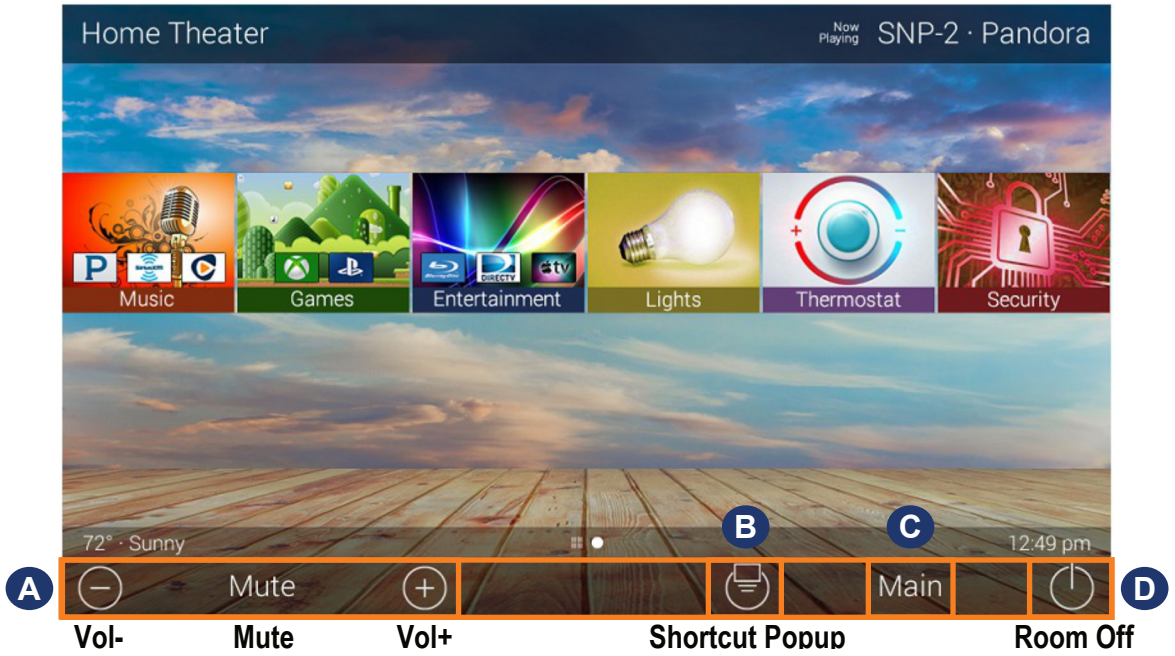
These buttons are almost always on display. Each one of these buttons has a specific function:

A. **Volume:** Used to control an active audio device.

B. **Shortcut Popup:** Use this to display the Shortcut Popup Menu. This menu contains up to six (6) current room activities.

C. **Main:** Select this to return to the Main Menu regardless of what menu the interface is currently in use.

D. **Room Off:** Use this button to turn off the current room.



Shortcut Popup Menu

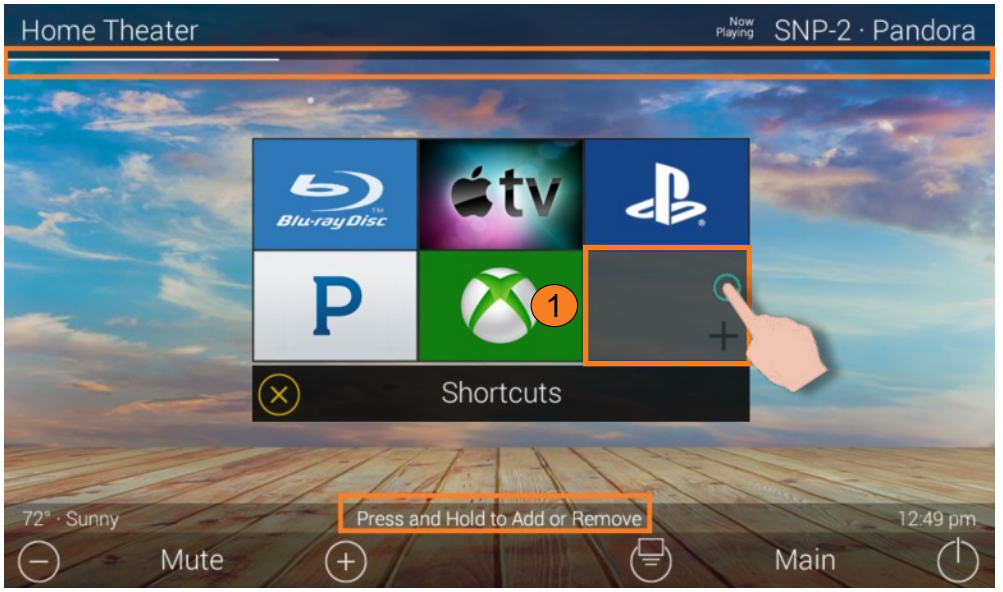
The **Shortcut Popup Menu** holds the end-user's favorite or most frequently used devices/activities and places them in one easy to access location.

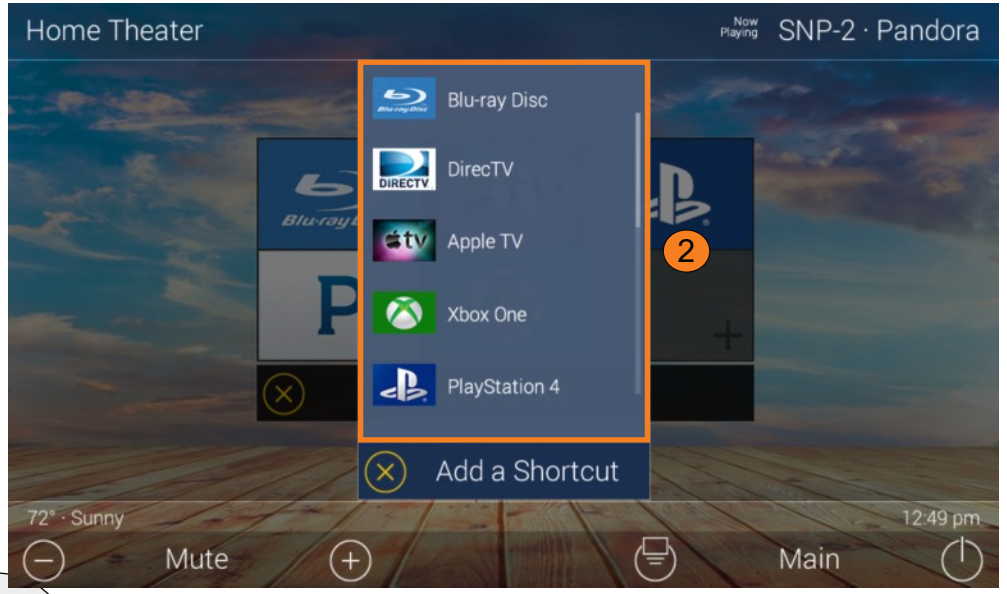
Adding Shortcuts

Follow these steps to add a Shortcut:

1. Locate an available button and hold it down until the status bar on the top of the display fills. As stated on the bottom of the interface "Press and Hold to Add or Remove". A list of device/activities for that room a presented in the Add a Shortcut Menu.

2. Select a device/activity. This adds that item to the Shortcut Popup Menu.





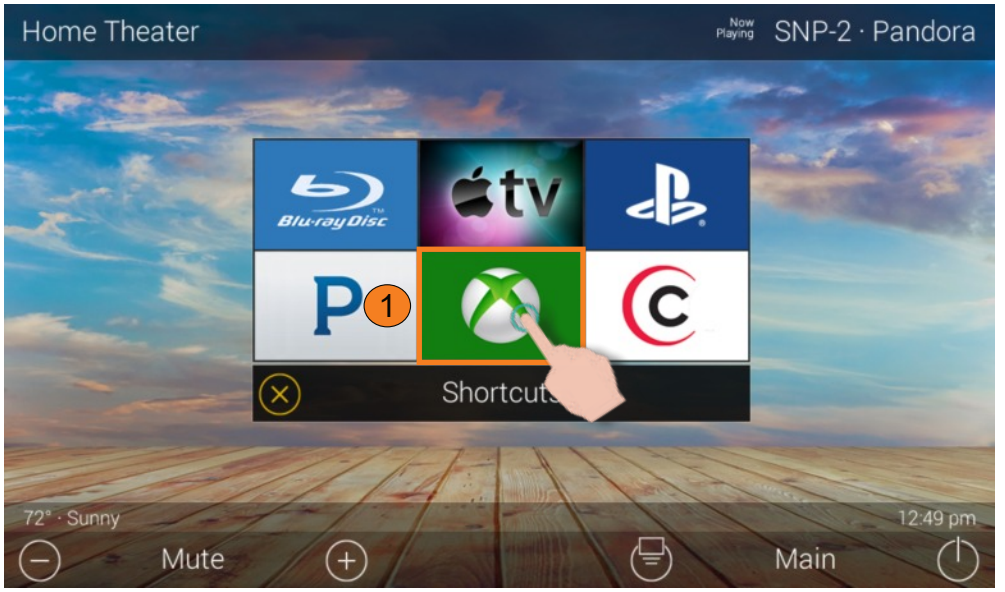
Just tap on a Shortcut button to launch that device/activity. Remember, this menu can only hold up to six (**6**) items and each item must already be a device/activity programmed into that current room.

Removing Shortcuts
Follow these steps to remove a Shortcut:

1. From the Shortcut Popup Menu, **press and hold** the Shortcut that needs to be deleted.

2. Hold the button until the **Remove a Shortcut** window displays.

3. Select **Remove**.

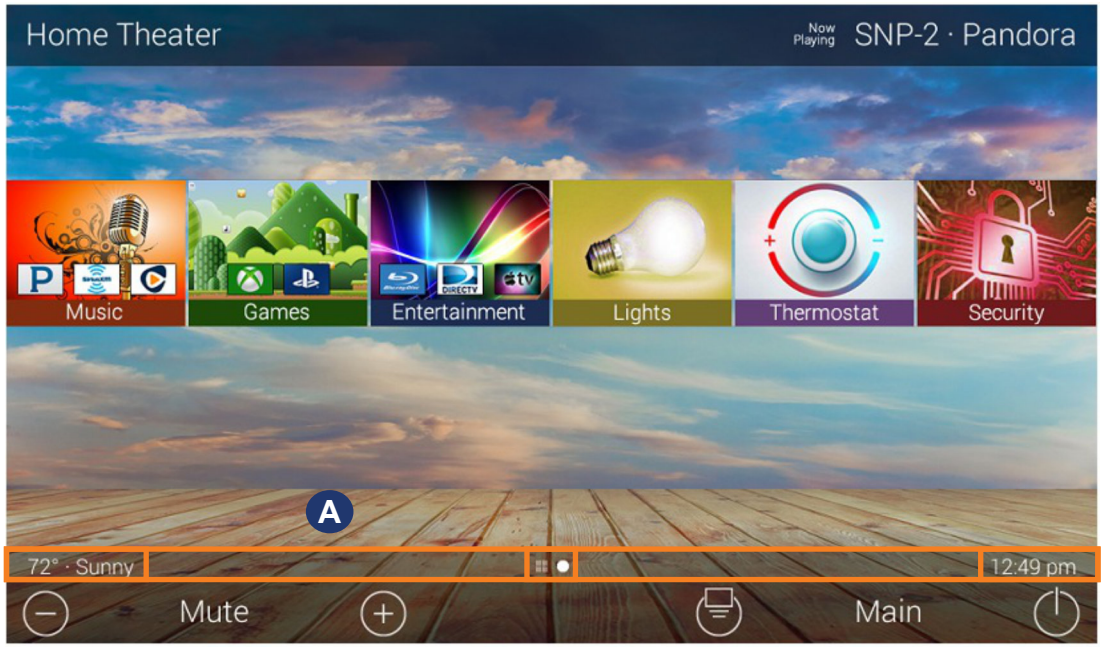




Status Bar
Located above the Core Buttons, this section of the interface is almost always on display. The Status Bar is designed to inform the end-user of various customization options:

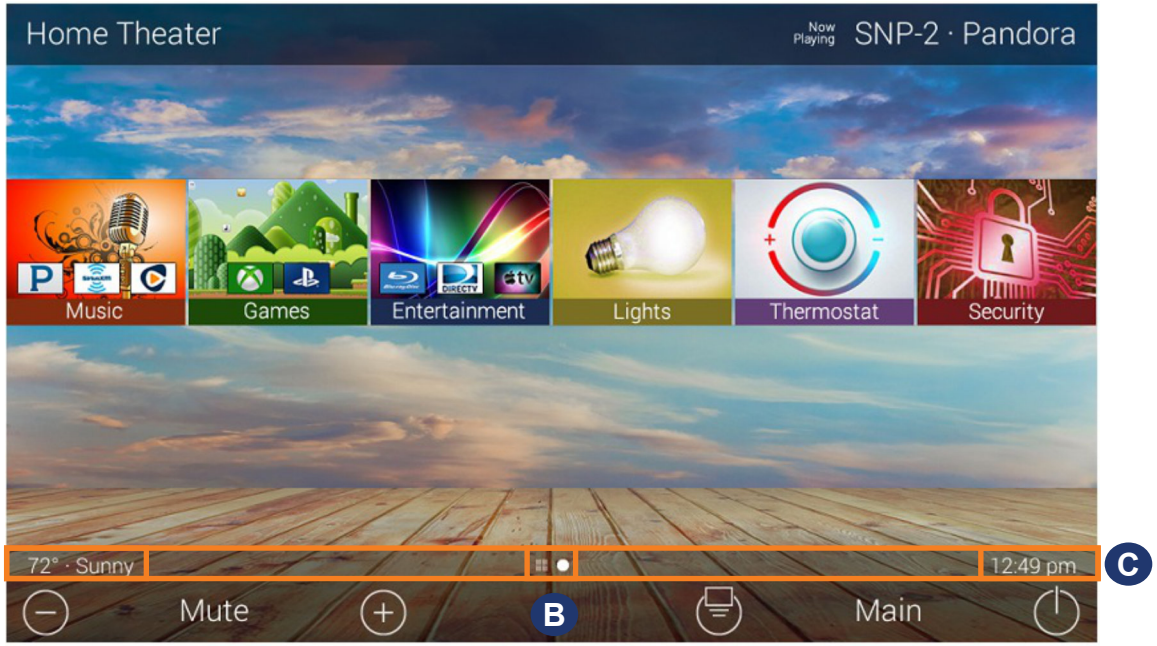
A. **Metadata Information:** Located to the far left, options selected from the programming software cycle through here. Those selections are the following:

- **Room Linked Status:** Whenever the chosen room/area is "linked" to other rooms, it is acknowledged in this section.
- **Room Alarm Clock Status:** If the current room has an Alarm that is set to activate, the status bar displays an alarm clock icon and the next scheduled time/day.
- **Vacation Mode Status:** When Vacation Mode is activated, the Status Bar displays "Vacation Mode On". When inactive, the Status Bar displays "Vacation Mode Off".
- **Sunrise:** Updated at midnight every day, displays the sunrise time for the next day.
- **Sunset:** Updated at midnight every day, displays the sunset time for the next day.
- **RSS Weather Alert:** Based on the location entered by the system programmer, the words "Weather Alert" appear if an automatic alert is received via internet.
- **DMS-AV Surround Mode Status:** Displays the current sound mode of the DMS-AV Surround Processor.



B. Page Indicator: The icons here represent the current page number the interface is on. However, the icon located to the left is the Scenes Menu icon. All icons to the right of that represent page numbers.

C. Time: This is always present on the right hand side of the interface. It serves as a quick and convenient place for the end-user to check the time of day.



Intercom

The TDC-9100 has the capability of communicating across the home network to any Intercom-Enabled client (interface).

There are three (**3**) different types of intercom calls that can be made:

1. **Audio-Video:** This type of call uses the camera and microphone of the calling and receiving client to provide auditory and visual feedback.

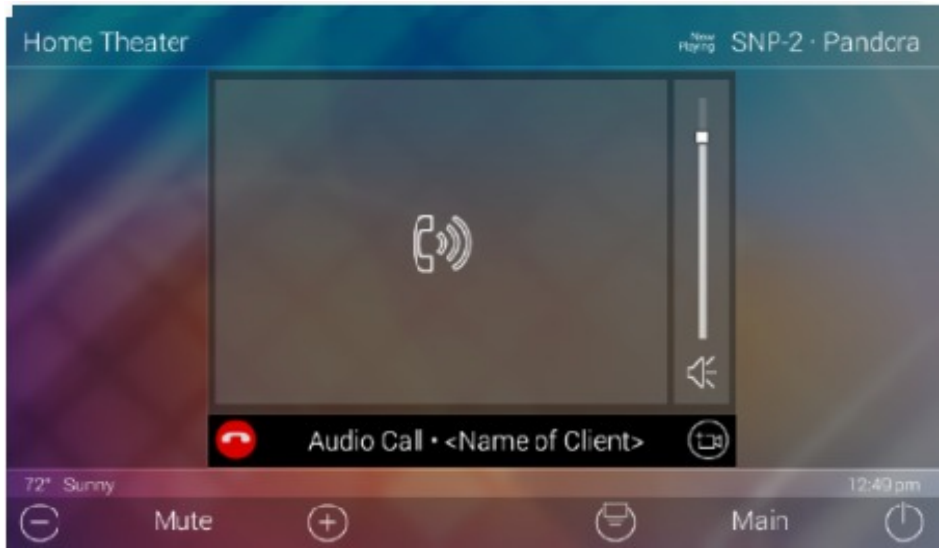
2. **Audio Call**: This type of call only uses the built in microphone of the calling and receiving client to create an audio call over the home network.

3. **Audio Broadcast Call:** This type of call is audio communication between two

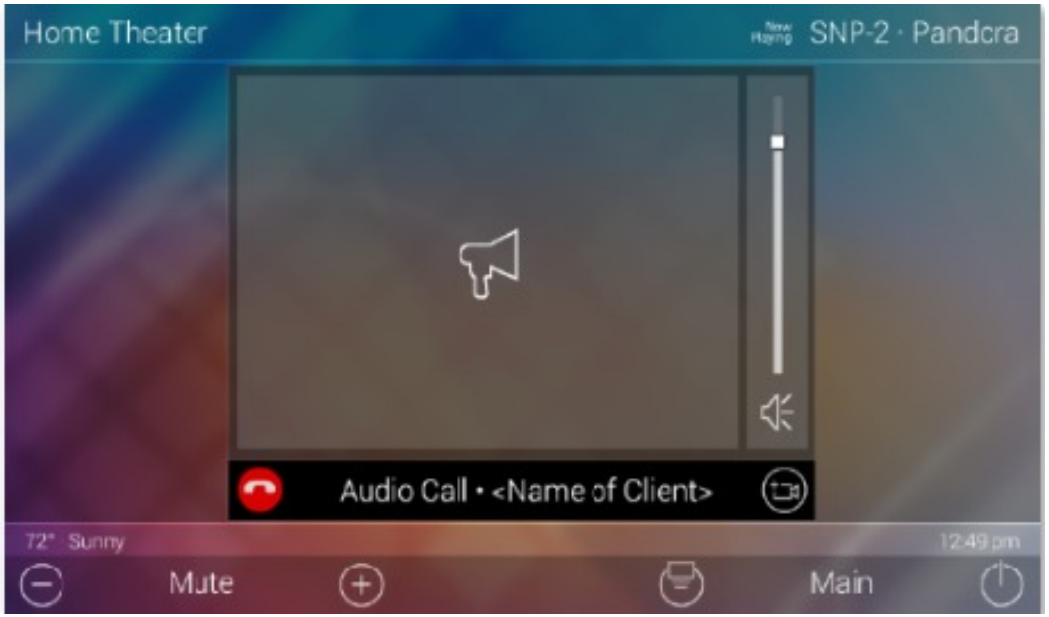
1



2



or more clients. An ideal way to communicated across multiple Intercom-Enabled interfaces in almost any home.



Navigating the Intercom Menu
As mentioned on page 6 of this document, accessing the Intercom button is performed by swiping down on the **Title Bar**.

After selecting the Intercom button from the Title Bar Menu, the Intercom Menu displays. This menu presents the end-user with useful information:

- **Door Station Integration:** In the case where a 3rd party door station has been integrated with the Total Control system, those device are located at the top of the Intercom Menu.
- **System Clients:** The Intercom Menu lists every Intercom-Enabled client in the system. There are three (3) possible status modes for each client:





Available: The client is ready to receive any type of call.



Not Available/Busy: Signifies the client is unable to receive a call.



Do Not Disturb: Signifies the client is currently in Do Not Disturb mode.

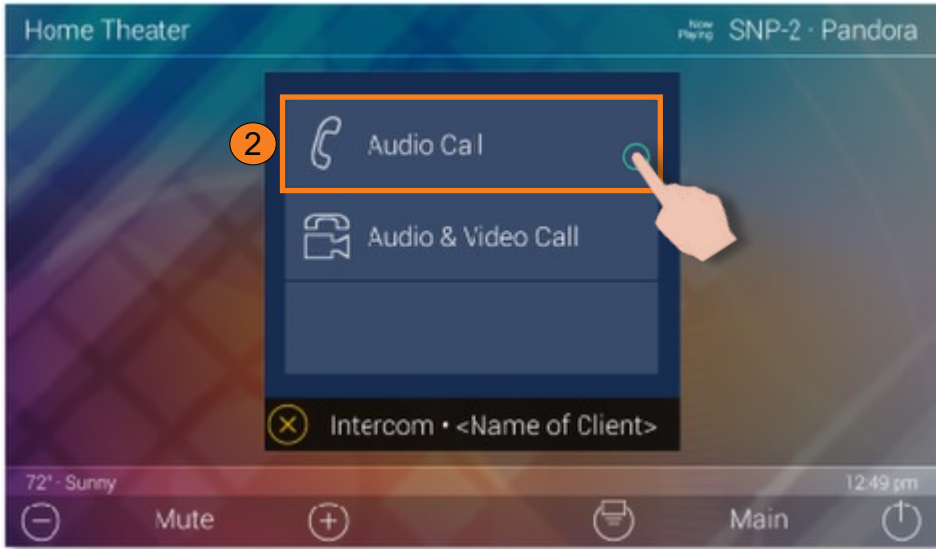
Making Calls: Audio-Video
Remember that the Intercom feature must be enabled from with in the Settings Menu. The following steps take place from the Intercom Menu, to access this menu refer to page 6:

1. Select an available client from the **Intercom Menu**.

   After selecting a client, the three (**3**) call options are displayed. This is almost always displayed after selecting an available client.

2. Select **Audio & Video Call**.





Once the call is accepted, the TDC-9100 provides auditory and visual two-way feedback on the screen.

Use the **Volume Slider** at the right of the video feedback to raise or slower the volume. Slide the indicator to the top for maximum volume or slide it down to the bottom to mute the audio.

To end an **Audio & Video** call, select the **End Call** button (see image at right). This immediately ends the call and returns the TDC-9100 to the Intercom Menu.

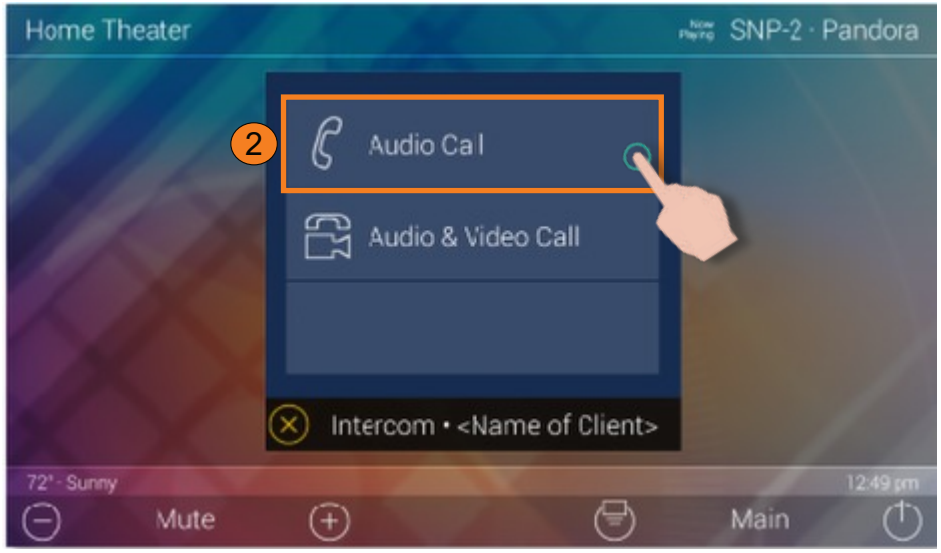


Making Calls: Audio Calls
Remember that the Intercom feature must be enabled from with in the **Settings Menu**. The following steps take place from the **Intercom Menu**, to access this menu refer to page 6:

1. Select an available client from the **Intercom Menu**. After selecting a client, the three (**3**) call options are displayed. This is almost always displayed after selecting an available client.

2. Select **Audio Call**.

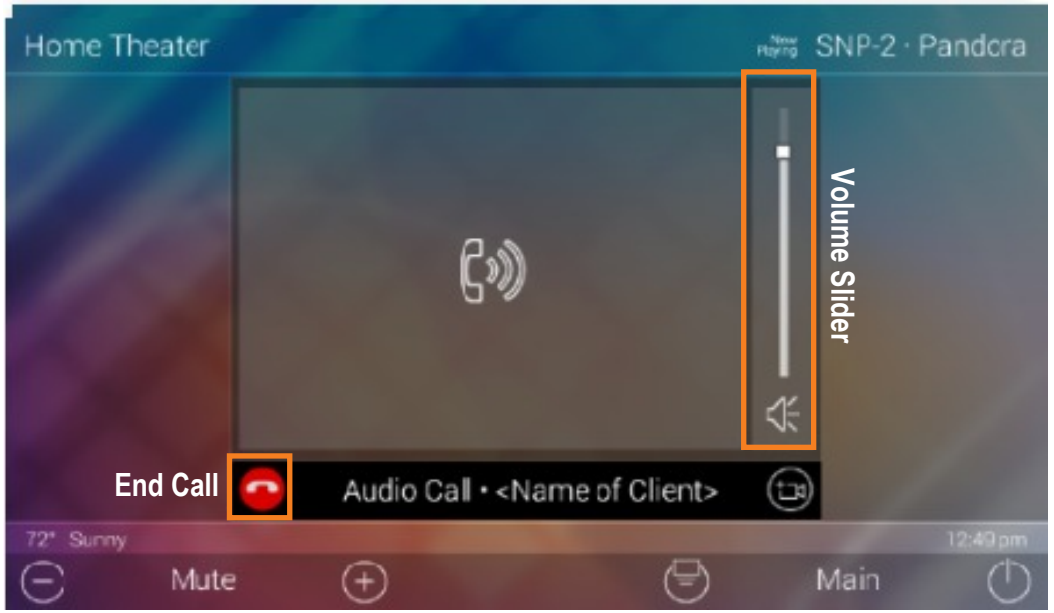




Once the call is accepted, the TDC-9100 provides two-way communication between clients via audio only.

Use the **Volume Slider** at the right of the call icon area to raise or slower the volume. Slide the indicator to the top for maximum volume or slide it down to the bottom to mute the audio.

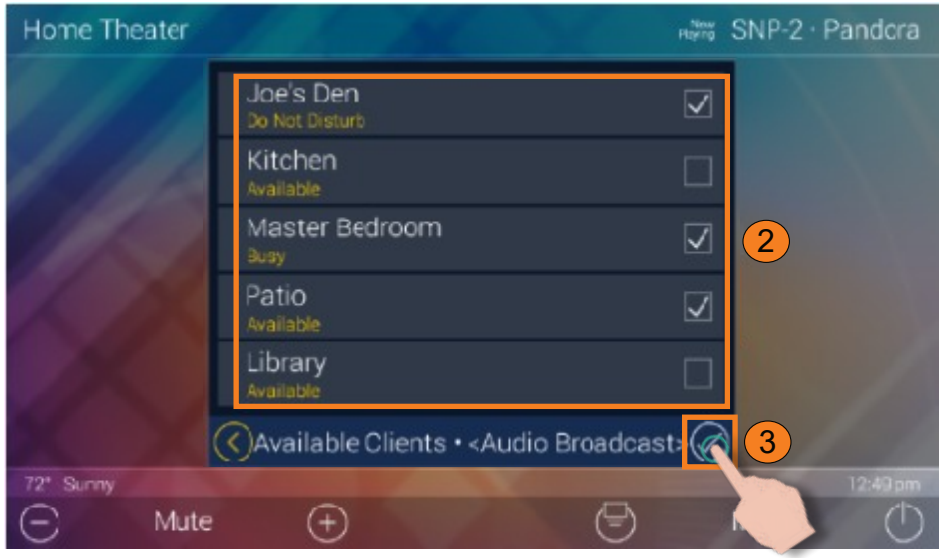
To end an **Audio Call**, select the **End Call** button (see image at right). This immediately ends the call and returns the TDC-9100 to the Intercom Menu.



Making Calls: Audio Broadcast
Remember that the Intercom feature must be enabled from with in the **Settings Menu**. The following steps take place from the **Intercom Menu**, to access this menu refer to page 6:

1. Select **Broadcast Call**. A list populates of all available Intercom-Enabled devices.
2. Check the boxes of the clients to include in the **Audio Broadcast**.
3. Select the **Confirmation** button.

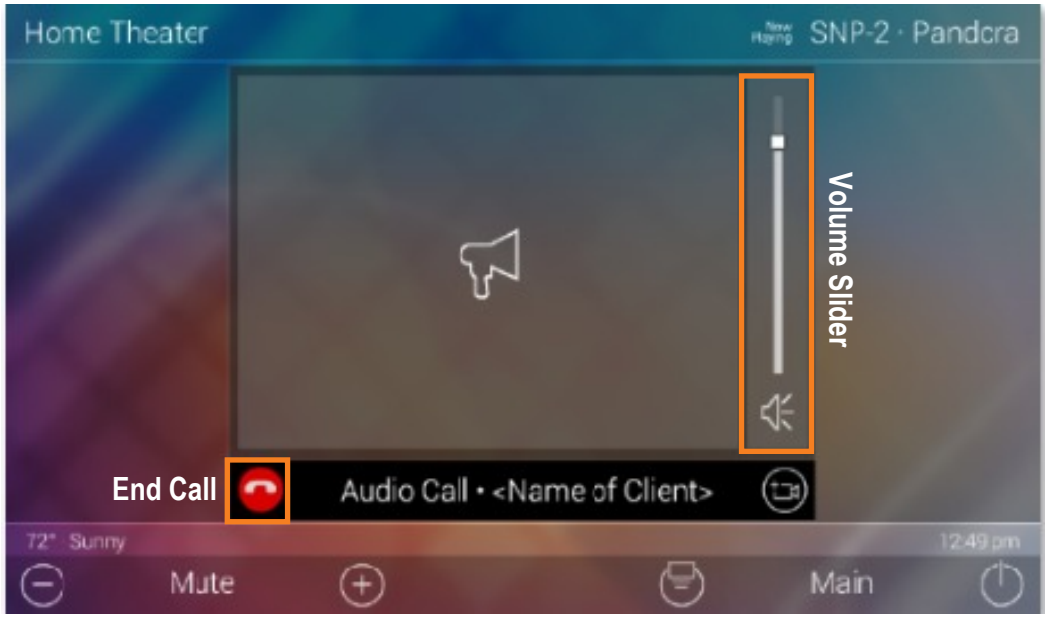




Once the call is established, all selected devices communicate via audio.

Use the **Volume Slider** at the right of the call icon area to raise or slower the volume. Slide the indicator to the top for maximum volume or slide it down to the bottom to mute the audio.

To end an **Audio Call**, select the **End Call** button (see image at right). This immediately ends the call and returns the TDC-9100 to the Intercom Menu.



Do Not Disturb Mode
Enabling the **Do Not Disturb** feature sets the current TDC-9100 unavailable. This means that the keypad cannot receive any calls from other interfaces.

To enable this feature, use the **slider** located at the right of the text **Do Not Disturb**. These are the possible states:

Do Not Disturb: ON



Do Not Disturb: OFF



This button functions as a **toggle**. Select it once to enable and tap the slider again to disable **Do Not Disturb** Mode.



Scenes Menu

The **Scenes Menu** is dictated by the system programmer. Access this menu by swiping to the right from the **Main Menu**.

The **Scenes Menu** can contain up to a hundred (100) Scenes (buttons) per room. Keep in mind that the **Scenes Menu** is unique to each room.

Tap any button on the **Scenes Menu** to select a particular activity. Additionally the **Scenes Menu** can be set as the landing page when the Main button is selected.

Scenes can trigger any individual device or multiple devices to perform a particular activity. For example, selecting a Scene like Cleaning (see right), can turn off the television and turn on a music source.

Since each **Scene** must be programmer through the Accelerator software, be sure to speak with a custom home integrator for **Scene** idea and/or requests.





Charging the TDC-9100

The TDC-9100 supports the "**Wireless Charging**" feature. Place the device on the charging dock to begin charging the battery. This method eliminates the need of any physical charging cables to the TDC-9100. A full charge can be achieved in approximately five (**5**) hours.

Assure that the TDC-9100's battery is **FULLY CHARGED** prior to its first-time usage. Connecting the USB-C cable directly into the TDC-9100 for a faster charge.

There is a **USB-C port** located at the rear of the TDC-9100, it is possible to connect the supplied USB cable to this port for faster charging.

The TDC-9100's battery holds a charge for up to **three (3) days**.

Fast Charging

The power adapter provided with the TDC-9100 is **REQUIRED** for fast charging. For safety reasons, only charge the TDC-9100 with the supplied power adapter

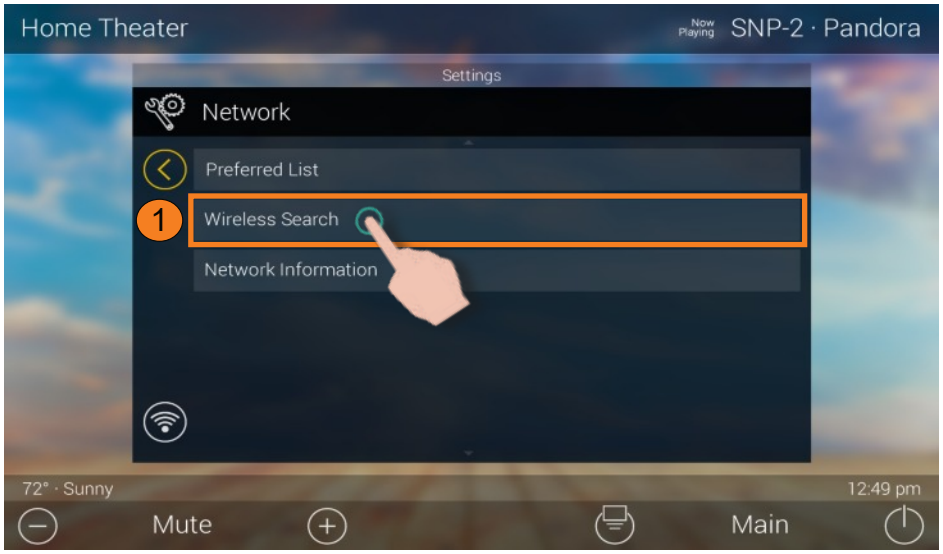


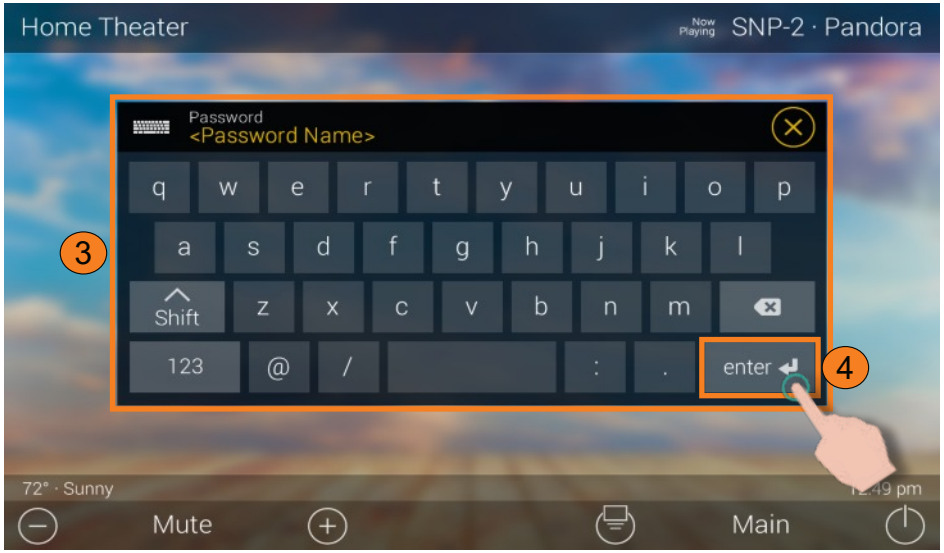
Fully charge the TDC-9100's battery prior to first time usage.

Wi-Fi Setup

Drag down the Title Bar to reveal the Settings Menu as explained on page 6. Once in the Settings Menu, select the Network options. The image at the right is displayed:

1. Select **Wireless Search**. The TDC-9100 scans for all available networks and presents them in the next screen.
2. Select a **wireless network** from the Wireless Search results list.
3. Depending on the network parameters, a password **may be required**.
4. Once the password has been typed, select **Enter** to confirm.







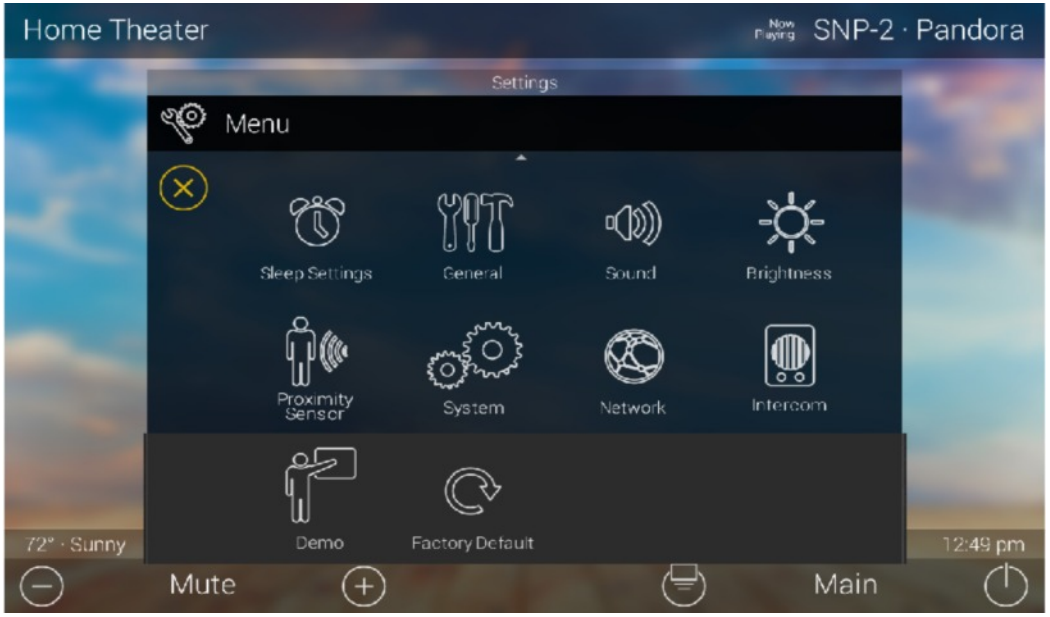
Settings Menu

Access the Settings Menu by sliding the Title Bar and selecting the Settings button, refer to page 6 for more details.

Most settings do **NOT** require interaction with the end-user. Changing some settings could cause issues with the Total Control system, only do so when instructed by **URC Technical Support**.

These are the available options:

- **Sleep Settings:** Manage when the LCD screen turns OFF.
- **General:** Contains all the general settings for the TDC-9100. Allows from the adjustment of Date, Time, and Temperature Scale.
- **Sound:** Adjust the volume of the audio feedback when pressing buttons on the interface.
- **Brightness:** Allows for the adjustment of the LCD screen's brightness.
- **Proximity Sensor:** Allows for the adjustment of the proximity level.
- **System:** Provides general information such as memory used, current version, and version details.
- **Network:** Allows for the setting of a Dynamic or Static IP address for the TDC-9100 and also gives general info about the network.
- **Intercom:** This is used to set up the Intercom of the TDC-9100.
- **Demo:** Used to create a simulation system that the TDC-9100 can use to show off interface features.
- **Factory Reset:** Allows the TDC-9100 to be reset to its factory state.



Sleep Settings
Below are the selectable choices available in this menu:

1. **LCD Screen is Always On:** When selected, the TDC-9100's display never turns off.

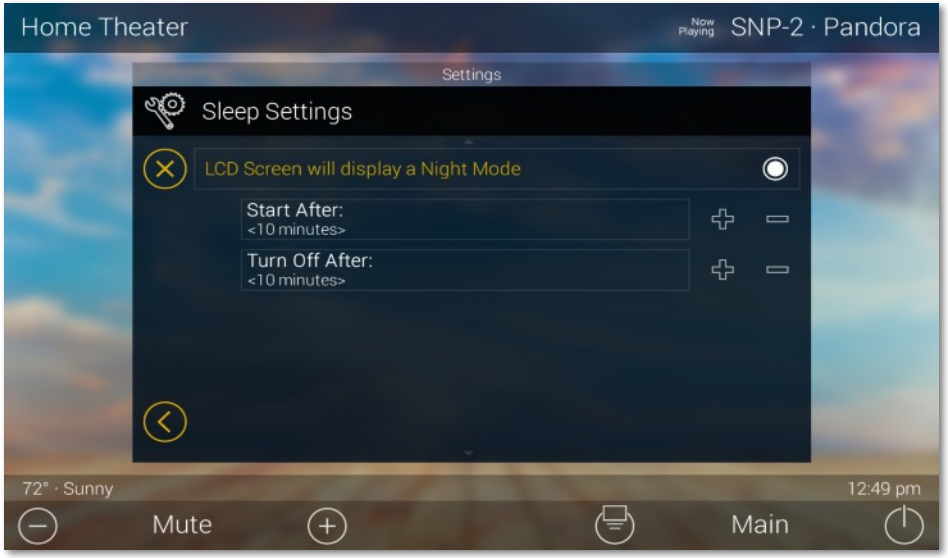
2. **LCD Screen will Turn Off:** When selected the Turn Off After section is selectable. Choose from a 20 second, 30 second, or one (1) minute time out.

3. **LCD Screen will Display a Night Mode:** When selected the Start After and Duration option become active.

    - **Start After:** The TDC-9100 times out based on the value entered here and goes into Night Mode.

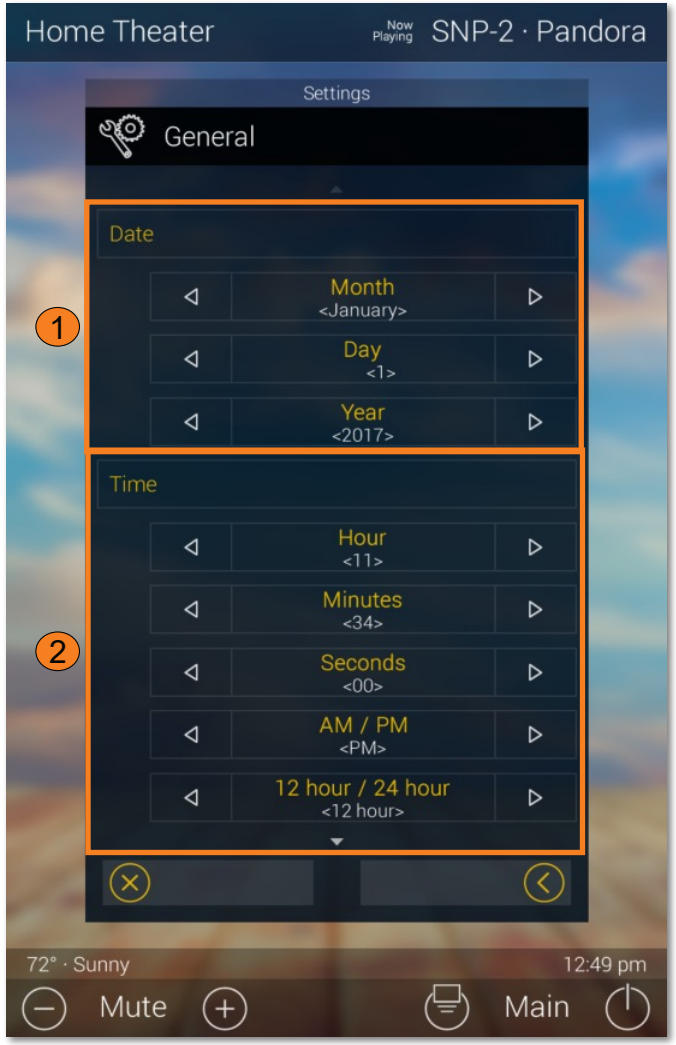
    - **Turn Off After:** The TDC-9100 turns off Night Mode after the value entered here.





General
Using the left and right arrow keys, enter the values of each category:

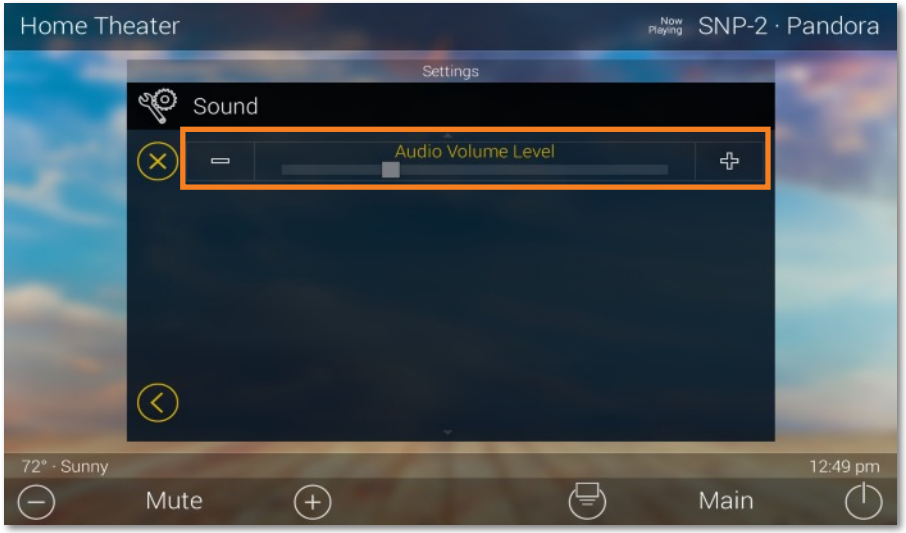
1. **Date:** The following can have its value changed:
   - **Month**
   - **Day**
   - **Year**
2. **Time:** The following can have its value changed:
   - **Hour**
   - **Minutes**
   - **Seconds**
   - **AM/PM**
   - **12 Hour/24 Hour**
3. **Automatically Adjust Clock for Daylight Savings:** Check this box to have the TDC-9100 automatically adjust for daylight savings.
4. **Temperature Scale:** Set this either to Fahrenheit or Celsius.





Sound
Press the minus (**-**) button to lower the TDC-9100's audio output or press the plus (**+**) button to increase the volume.

Additionally, dragging the slider to the right increase the audio output while dragging it to the left decreases it.



Brightness
Press the minus (-) button to lower the TDC-9100's display brightness or press the plus (+) button to increase the brightness.

Additionally, dragging the slider to the right increase the display brightness while dragging it to the left decreases it.

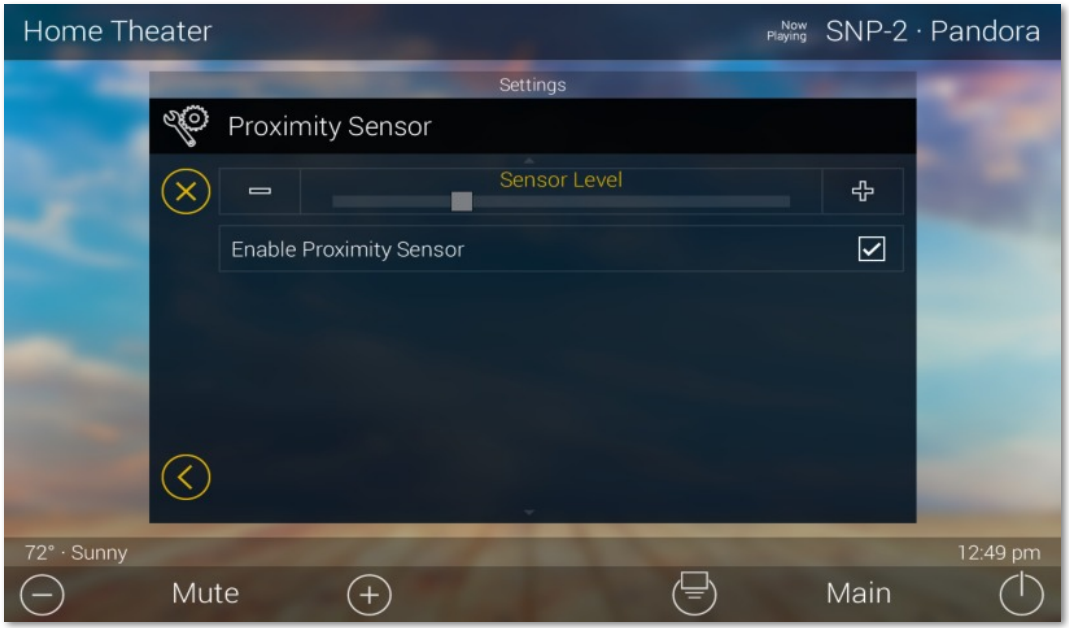
- **Enable Light Sensor:** The TDC-9100 is equipped with an ambient light sensor that can automatically adjust the display brightness. Check the box to enable this feature.



Proximity Sensor
Press the minus (**-**) button to lower the sensitivity on the TDC-9100's Proximity Sensor or press the plus (**+**) button to increase the sensitivity.

Additionally, dragging the slider to the right increases the sensitivity while dragging it to the left decreases it. The maximum distance of the proximity sensor is about three (**3**) feet.

- **Enable Proximity Sensor**: By default this check box is enabled. Uncheck the box to disable the proximity sensor.



System Information
Although none of the information can be modified. These System Pages display important information about the TDC-9100.

These pages are only needed by a custom install professional or by URC Technical Support.





Network
This option displays important information about the current network.

Caution, these settings should **ONLY** be changed by a professional. Entering values without specific instruction could easily result in the TDC-9100 failing to function correctly.

Here is the information that can be displayed here:

1. **Connection:** Displays the status of the network connection, connected or not connected.

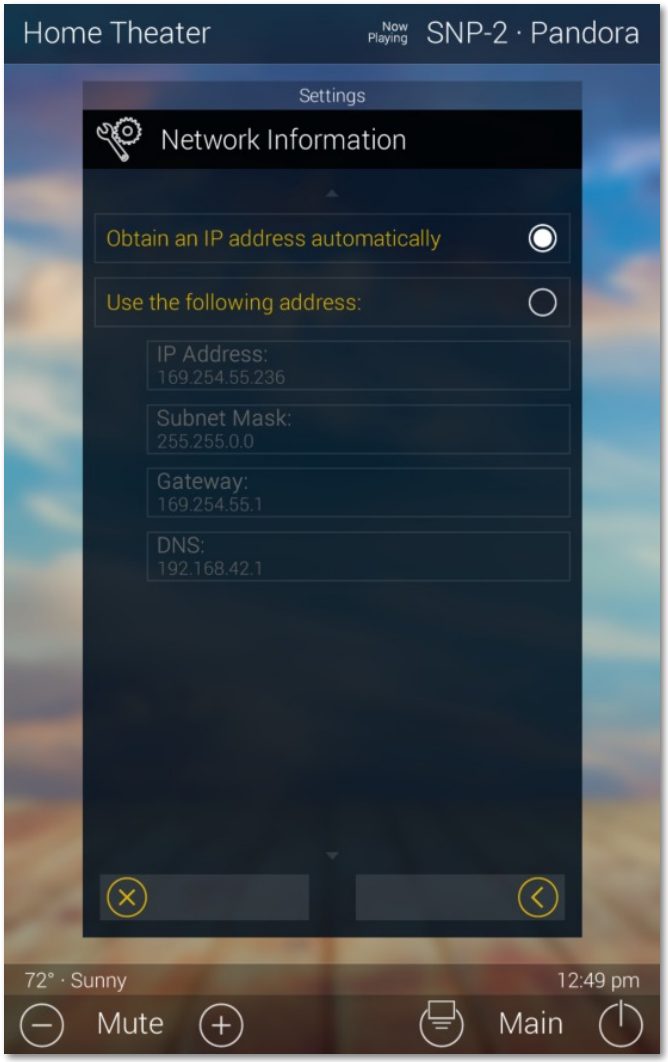
2. **TCP/IP:** Displays information such as Address Type (DHCP or Static), IP Address, Subnet Mask, Gateway, and DNS.

   Select the Edit button to reveal additional options.

   - **For DHCP:** Select **Obtain an IP Address Automatically**.

   - **For Static:** Select **Use the Following Address**. Fill out the required network settings.





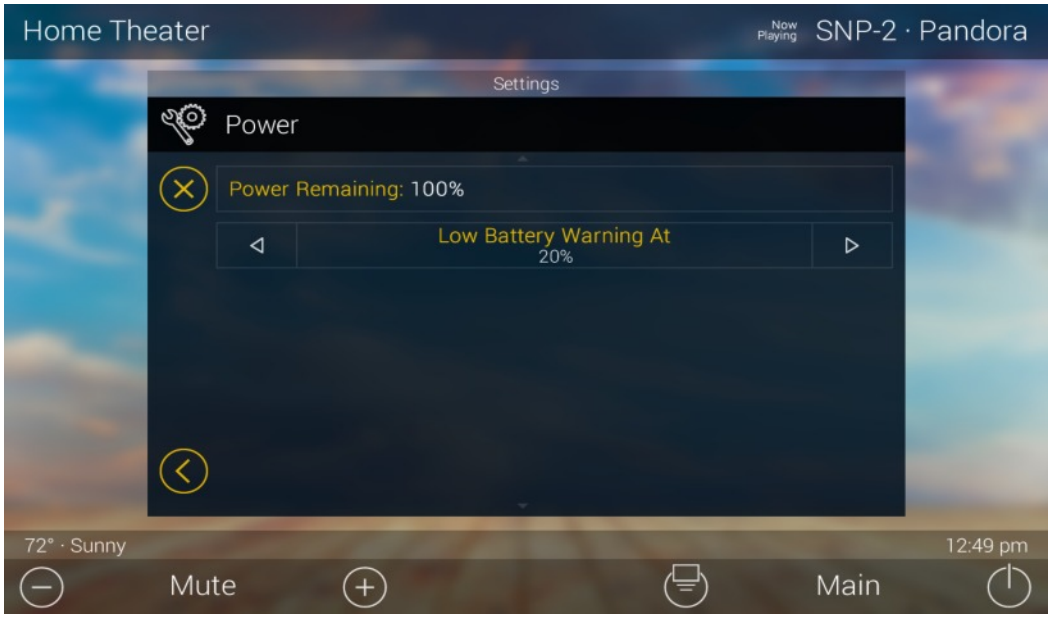
Intercom
The Audio-Video Intercom Settings menu is the location where the Intercom features must be enabled. By default this feature is disabled, it must be enabled in order for the TDC-9100 to communicate with other Intercom-Enabled devices.

- **Enable Intercom**: Enables the audio intercom function. Once enabled, the Intercom icon is displayed when dragging down the Title Bar as seen on page 6.
- **Set Intercom Name:** The label entered here appears on the Intercom menu of Intercom-Enabled devices in the system.
- **Enable Intercom Video:** Enables the video intercom function.
- **Receive Door Station Calls:** If the system is integrating with a 3rd party door station (DoorBird), this feature must be enabled for the TDC-9100 to receive door station calls.
- **Set Intercom Notification Sound:** Allows the user to select a different tone for intercom calls.



Power
The TDC-9100 displays a low battery warning to inform the end-user that it requires recharging. In this menu use the left arrow key to decrease the value of the battery percentage and the right arrow key to increase it.

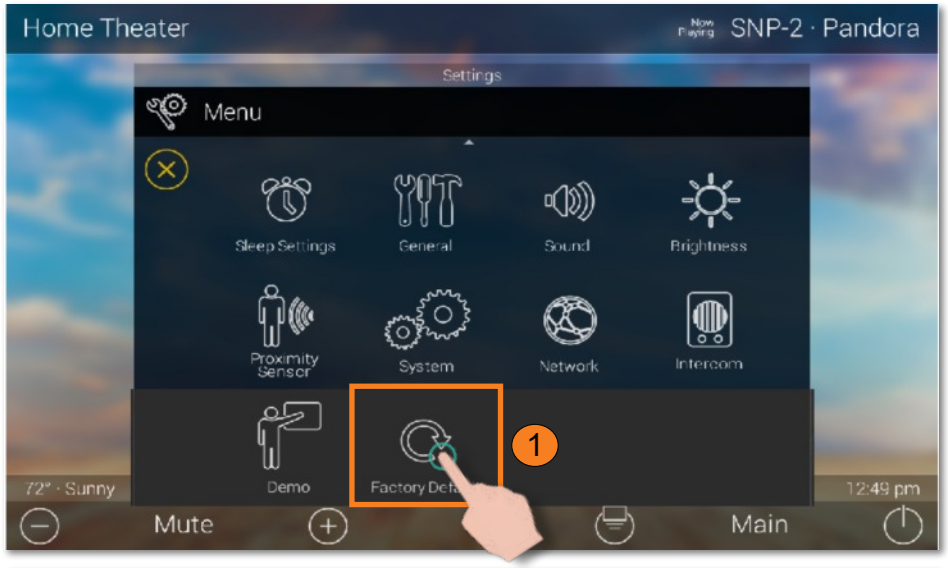
The image at the right is set to receive a low battery warning when the device has reached twenty (**20**) percent battery charge. As explained, this value can be adjusted.

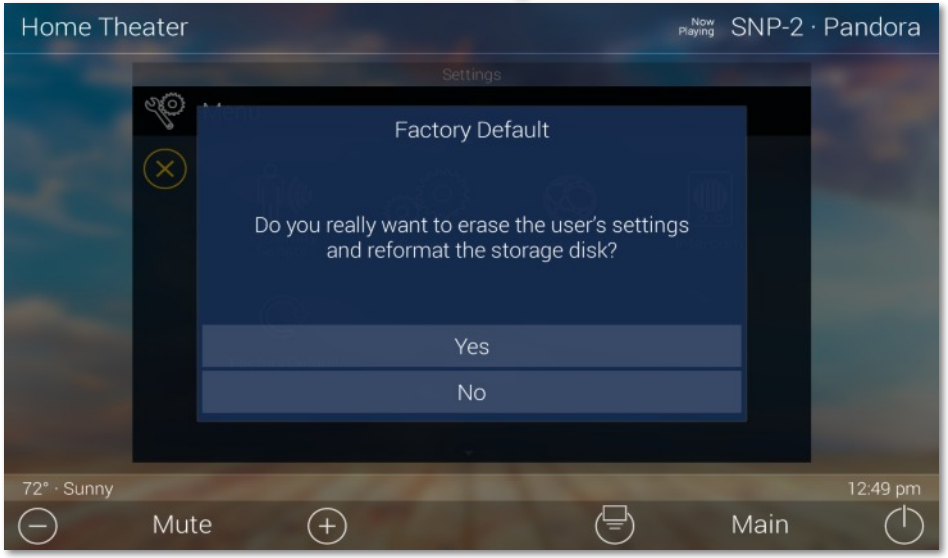


Factory Default
This should only be attempted by a **custom install professional** that is familiar with Total Control or under instruction from **URC Technical Support**.

Selecting this option resets the TDC-9100 to its factory state and does not function until the device is reprogrammed by a custom install professional.

1. Press and hold the **Factory Reset button** for over **five** (**5**) seconds.
2. Select **Yes**.





Specifications

These are the technical specifications for the TDC-9100:

Microprocessor: Cortex-A9 QuadPlus 1Ghz

Memory: 8GB eMMC, 2GB RAM

Devices: Supports up to 255 devices

Pages: Supports up to 255 pages on each device

Macro Capability: Up to 255 steps

Network: One 10/100/100 Ethernet Port(PoE+) 802.11 a/b/g/n/ac Wi-Fi

LCD: 10 Inch (1280 x 800)

Weight: 27.53oz/32.45oz with battery

Size: 10" x 7" x 4"

Power Rating Adapter: +5V 3A

Operating Temperature: 0 ~ 45°C



Limited Warranty Statement

https://www.urc-automation.com/legal/warranty-statement/

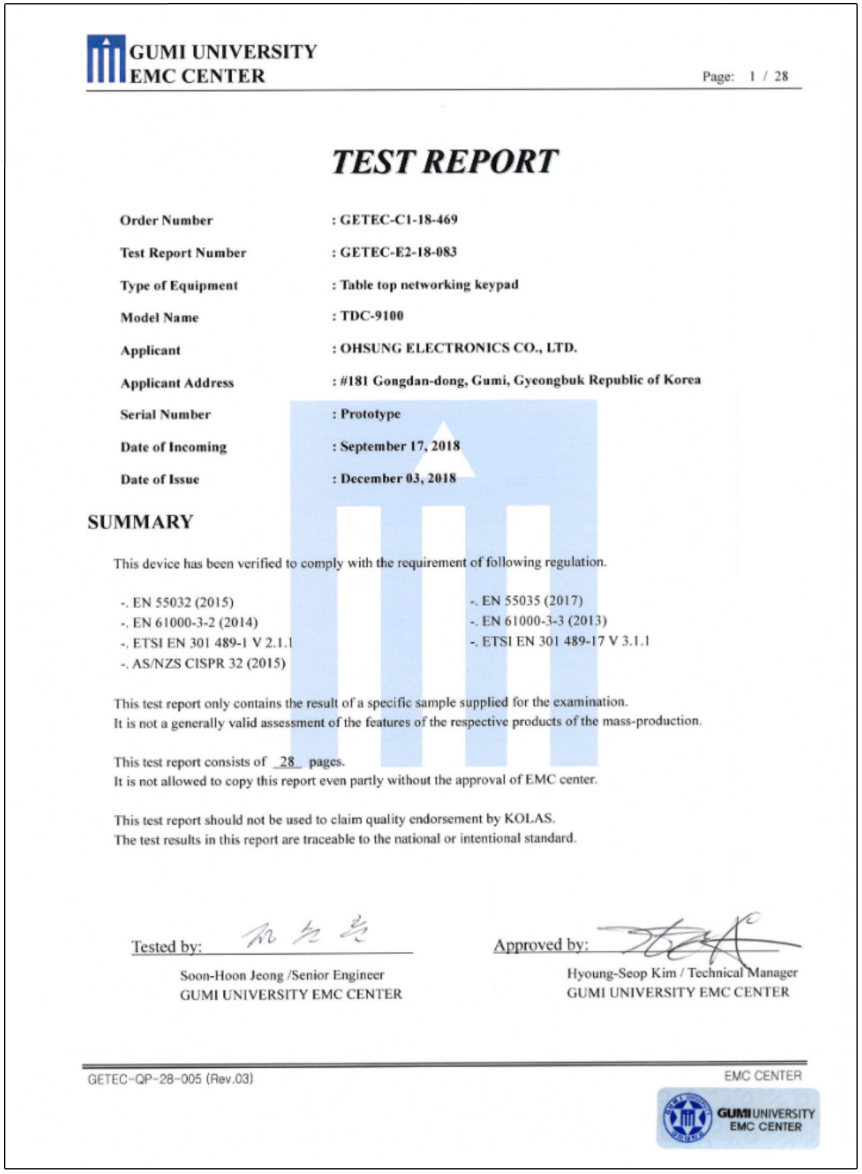
End User Agreement

The terms and conditions of the End User Agreement available at https://www.urc-automation.com/legal/end-user-agreement/ shall apply.

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



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TEST REPORT

Order Number	: GETEC-C1-18-469
Test Report Number	: GETEC-E2-18-083
Type of Equipment	: Table top networking keypad
Model Name	: TDC-9100
Applicant	: OHSUNG ELECTRONICS CO., LTD.
Applicant Address	: #181 Gongdan-dong, Gumi, Gyeongbuk Republic of Korea
Serial Number	: Prototype
Date of Incoming	: September 17, 2018
Date of Issue	: December 03, 2018

SUMMARY

This device has been verified to comply with the requirement of following regulation.

-. EN 55032 (2015)
-. EN 61000-3-2 (2014)
-. ETSI EN 301 489-1 V 2.1.1
-. AS/NZS CISPR 32 (2015)
-. EN 55035 (2017)
-. EN 61000-3-3 (2013)
-. ETSI EN 301 489-17 V 3.1.1

This test report only contains the result of a specific sample supplied for the examination.
It is not a generally valid assessment of the features of the respective products of the mass-production.

This test report consists of 28 pages.
It is not allowed to copy this report even partly without the approval of EMC center.

This test report should not be used to claim quality endorsement by KOLAS.
The test results in this report are traceable to the national or intentional standard.

Tested by:
Soon-Hoon Jeong /Senior Engineer
GUMI UNIVERSITY EMC CENTER

Approved by:
Hyoung-Seop Kim / Technical Manager
GUMI UNIVERSITY EMC CENTER

GETEC-QP-28-005 (Rev.03)

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Warning!

The manufacturer is not responsible for any Radio or TV interference caused by unauthorized modifications to this equipment.

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Regulatory Information to the User

- CE conformity Notice Products with "CE" marking comply EMC Directive 2014/30/EU issued by the commission of the European Community.
  1. EMC Directive
     - Emission
     - Immunity
     - Power
- Declaration of Conformity

"Hereby, Universal Remote Control Inc. declares that this TDC-9100 is in compliance with the Essential requirements."