

RTP-100

Technical Configuration



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June 6th 2012 Revision

One-Year Limited Warranty

USL, Inc. warrants that the product will be free from defects in material and workmanship under normal usage for a period of one (1) year after its purchase new from an authorized dealer. Our obligation under this warranty is limited to repairing or replacing any product or component which we are satisfied does not conform with the foregoing warranty and which is returned to our factory, freight paid. The foregoing warranty is exclusive and in lieu of all other warranties, whether expressed or implied. Such warranty shall not apply to any product or component (A) repaired or altered by anyone other than USL, Inc. or an authorized service contractor; (B) tampered with or altered in any way or subjected to misuse, negligence or accident or (C) which has been improperly connected installed or adjusted other than in accordance with USL, Inc.'s instruction. The RTP-100 warranty is void if USL, Inc. detects that it has been damaged due to mishandling, moisture, etc.

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Purpose of the RTP Technician Configuration Manual

The RTP Tech Configuration interface is designed help the certified technician accomplish an “onsite” RTM installation. Most RTP units are pre-setup using the USL RTM online system; however, some locations do not know the IP configuration information until after the equipment is required at the location. Therefore USL provides technician access to all the RTP settings via laptop wireless connection directly to the RTP unit. The interface is a web application. This is served to the technicians PC using a browser such as Fire Fox, Internet Explorer, and Safari. The Technician Tool will run on other non-PC platforms like iOS on iPad devices.

This manual will take you through the steps to properly set up your RTP by providing more information and settings for an entire theatre system.

Note: The RTP units are fully configurable via the handhelds, but we recommend using this utility for the initial setup if NOT pre-configured.

To access the RTP Technician Configuration webpage, the laptop PC or iPad must be connected to the RTP via the secured Wi-Fi interface. The user must first connect and power the RTP, using the RTH to obtain Wi-Fi interface settings, and then configure the laptop or iPad.

Establishing a Connection to the RTP-100

Connecting and Powering Up the RTP-100

1. Connect one end of the Ethernet cable to the **TOP** port.
2. Connect the other end to the cinema “Control” network.
3. Plug in the RTP or use the provided power cable.
4. Wait approximately five minutes for Wireless to become active. Three lights on indicate unit is active. if you cannot connect the RTP after 15 minutes, unplug and re-plug in the unit.



Using the RTH to View SSID

1. Turn on or wakeup the RTH.
2. Slide from left to right to unlock. If applicable do Step 4 if the unit is unlocked and doesn't require a passcode.
3. Enter the passcode to unlock the unit. The default passcode is **“0000”**. (if applicable)
4. Verify a wireless connection. The wireless connection icon is located in upper left corner or the RTH-100. It is important that you confirm a wireless connection before touching any of the Screen and Setup buttons.
5. Touch the RTM Setup icon located at the bottom of the handheld unit. This button displays a screen that contains the current settings for the RTP that the RTH is communicating with via the wireless interface.
6. View the current settings displayed at bottom. Use the Wi-Fi SSID in the next section and touch the RTP logo to Login.



- For the Login and the screens that follow refer to the section of this document titled "Network Setup via RTH." On the RTH the logged in user can use the Wi-Fi touch button to see the addition setting required to connect via the laptop or iPad.



Note: The RTP settings are required to connect a laptop or iPad to the RTP. The RTH Setup screen is a preferred method to verify a RTP-100 connection before attempting to connect via laptop or iPad.

Connection to the RTP-100 via Wi-Fi

Each device and operating system has a different procedure to connect to a Wi-Fi access point. If you do not know how to connect to a non-broadcasting Wi-Fi network using an entered SSID, consult your operating system's help. Since the RTP doesn't broadcast its SSID, the user will have to enter this information in order to setup a Wi-Fi connection. As an example, on the Windows 7 computer the user will activate the wireless icon in the system tray and select Other Network option from the popup menu. An option check box for connect automatically should be unchecked and then proceed by clicking the connect button. The user will be prompted to enter a network name; this is where the SSID value is entered. From the RTH the passcode will be used for the security key prompt. This network should be classified as Public Place, since it is a location that the computer will not be connecting to.

Once your laptop or iPad is connected via Wi-Fi to the RTP, follow these steps to access the RTP Technician Configuration tool:

- On the Laptop or iPad launch the web browser (Internet Explorer, Fire Fox, or Safari).
- In the URL field enter 192.168.33.1.
- Click the Login Button.
- The Login button will not prompt for a passcode if the RTP-100 admin passcode is set to "0000". Note that when RTP-100 is shipped, it is configured with an assigned passcode.
- On a successful login, the RTP Setup page will be displayed in the browser. The RTP-100 menu item is selected and displays options for setting up Ethernet, Wireless, Location, and Passcode settings. The Log Out button simply returns you back to the Login screen.



Basic Interface Navigation Explanations

As shown below, the top level menu contains a list of options to configure a category of settings.



RTP-100: This screen allows changes to the basic network information. After setting and saving information, you must touch the reboot button to save changes. The remaining settings throughout the other screens do not require a reboot.

Manager: Controls the button settings on the Manager screen of the RTM-100. The RTM Manager Screen is the main interface the user will see for a selected screen button. This screen contains quick access command buttons that are configurable through this menu option.

Commands: Configures the button commands for Automation and Macros device types.

- Audio: Model/type, IP Address, port and security information per device type.
- Projector: Model/type, IP Address, port and security information per device type.
- Media: Model/type, IP Address, port and security information per device type.
- Automation: Model/type, IP Address, port and security information per device type.
- Macros: Model/type, IP Address, port and security information per device type.
- Caption: Model/type, IP Address, port and security information per device type.
- Log Out: Directs you back to the Login screen.

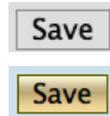
Submenu Screen Selection

The submenu allows the user to apply configuration and settings to all screens or a single one. By default the menu is All Screens. Note that the submenu doesn't appear for the RTP-100 menu item.



Save Buttons

Every configuration section has a save button that is activated when a field or value is changed. You must select the save button in each section before leaving that screen. Note that navigating to a different screen without clicking the save button will result in the losing changes.



RTP-100 Configuration

The RTP-100 menu item provides access to the Ethernet, Wireless, Location and Passcode settings.

Ethernet Configuration

Ethernet Configuration				
IP Address	Net Mask	Gateway	Broadcast	Action
192.168.1.18	255.255.255.0	192.168.1.1	192.168.1.255	Save

The first section of this screen is for configuring the RTP Ethernet settings. The user settings are, IP Address, Network Mask, Gateway, and Broadcast. Be sure to click the SAVE button at the end of the line and followed by a system reboot for settings to take effect.

Wireless Configuration

Wireless Configuration				
SSID	Protocol	Passphrase	Channel	Action
RTP-0072e6	WPA2	*****	6	Save

The Wireless Configuration section allows the technician to change the Passphrase. Note that changes to the Passphrase will require a re-coding of each RTH-100 that is in the system. USL suggests only changing this value if a handheld was lost or stolen.

Note that the SSID and Protocol settings are grayed out since they are not configurable values. When there is an issue with wireless range and or coverage, a change the Wireless Channel is the recommended solution. Changes to the channel will not affect the RTH-100 connections and will not require re-coding the RTHs.

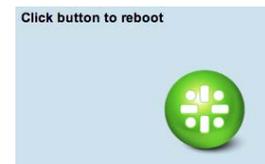
Location and Passcode

The Location and Passcode section determines the displayed heading for this Theater and passcode to access the configuration settings. Type in a name you designate for the specific RTP-100 location – no spaces. Then change the Passcode from the default “0000” and save. The next time user logs into this utility you will be prompted for the current passcode setting.

Set Location and Passcode	
Location Name (No Spaces)	RTP-100
Setup Screen Passcode	***
Unlocked Mode =	0000
Save	

Reboot Button

The Reboot Button is for when you have completed all the settings and want to start testing communication with the devices on the network.



Manager Screen Settings

The Manager Screen Controls are for the various buttons located on the main “Manager” screen of the RTH-100 (handheld unit). In most cases you will not need to change any of the default values; however, we provide this screen to allow for customization for specific situations.



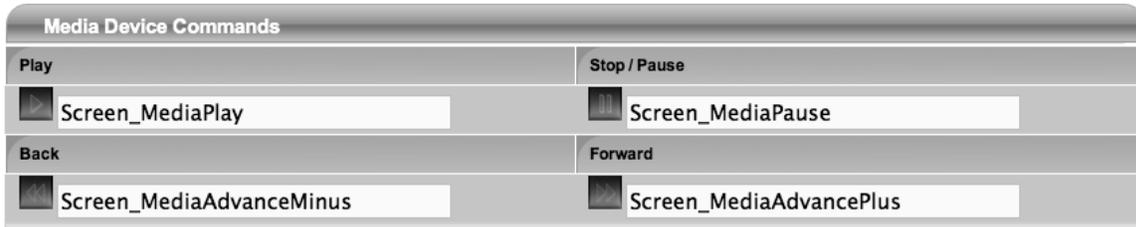
Lights and Fader Commands

The Lights and Fader Commands are set behind the scenes and should not be changed unless instructed by a certified installation representative.

Lights Device	Lights Command	Fader Device	Fader Command
Automation	HouseHigh3	Audio	Screen_AudioFaderUp
Automation	HouseLow	Audio	Screen_AudioFaderDown

Media Commands

The Media Commands are built-in/predefined commands and should not be changed unless instructed by a certified installation representative.



Automation and Macros

This section controls the bottom four buttons on the Manager Screen. Use the device's pop-downs to select either the Automation or Macro device, and use the Command pop-down to select which macro to execute. Refer to the next section for programming macro numbers.

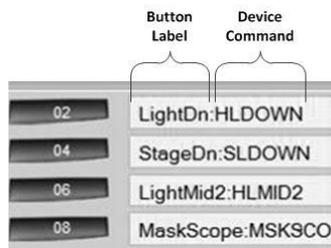


Commands Screen / Set and Edit

This screen is where you enter the actual text commands that will be sent to the devices and displayed on the RTH. In some cases the Automation and Macros devices might be the same. There are 8 Automation commands and 8 Macro commands therefore allowing 16 different definable buttons. These commands are displayed in the respective screen button assignment and device type on the RTH-100. The user can allocate 4 of the 16 commands on the Manager's screen of the RTH-100 by selecting the device type and macro number.

Automation Commands

In this section you enter the actual button text and commands that will be sent to the automation device. The numbered buttons beside the fields denote the position on the RTH-100 automation device screen as well as the number to use while setting up the buttons for the Manager screen, the macro number assignment. The command field contains two parts; one defines the button text and the other the device command. They are separated by a colon character.



Type: AUTOMATION Model: eCNA_10

LightUp:HLUP	01	02	LightDn:HLDOWN
StageUP:SLUP	03	04	StageDn:SLDOWN
LightMid1:HLMID1	05	06	LightMid2:HLMID2
MaskFlat:MSKFLAT	07	08	MaskScope:MSKSCOI

Click this SAVE button before moving to the next section.

Macro Commands

In this section you enter the actual button text and commands that will be sent to the macro device. The numbered buttons beside the fields denote the position on the RTH Macros screen, as well as the number to use while setting up the buttons for the Manager screen. The command field contains two parts; one defines the button text and the other the device command. They are separated by a colon character.

Type: MACROS Model: eCNA_10

MaskFlat:MSKFLAT	01	02	MaskScope:MSKSCOI
LensFlat:LENFLAT	03	04	LensScope:LENSCOF
DV 2 On:DV2ON	05	06	DV 2 Off:DV2OFF
Slide On:SPROJON	07	08	Slide Off:SPROJOFF

Click this SAVE button before moving to the next section.

Devices – Configurations

This section covers the Devices Configuration screens (shown in yellow font across top menus).



This includes Audio, Projector, Media, Automation, Macro and Caption Device Settings. For each configuration screen, the navigation is the same and includes the Model/Type, IP address, Port and Security Information, Login and Passcode, if applicable.

All Audio Devices					
Screen	Model	IP Address	Port	Login	Passcode
01	usl_jsd100	192.168.1.101	365	asd	••
02	dolby_cp750	192.168.1.102	43728	admin	••
03	qsc_dcp300	192.168.1.103	5000	admin	••

The RTP-100s will be created at USL with pre-configured setup. There may be a case when the RTP is shipped the default configuration settings. Use these screens to select the supported the Model, IP Address and Port, as well as any login and passcode set on the device, if applicable.

Note: Be sure to scroll to the bottom and touch the SAVE button when altering or changing values. You must touch the SAVE button to save any changes on any configuration screen.

Network Setup via Handheld

The RTP provides access to the network settings via the handheld by executing the following steps. This process assumes the RTH has a wireless connection to the RTP being configured.

1. Touch the RTM Setup icon located at the bottom center of the Handheld. →



2. Click the Login button located in the center top of screen. →
3. Type in the provided passcode, if applicable. Depending on the current configuration of the device, a passcode may be required to access the setup. USL recommends that once a system is fully configured, that a passcode be applied before a theater goes live.



4. Review the menu options as accessed via the buttons along the bottom:
 - a. System = Ethernet Network connection information.
 - b. Devices = replication process (see next section).
 - c. WiFi = Allows changing of Chanel and PW.
 - d. Power = Allows Reboot & Shutdown of RTH.

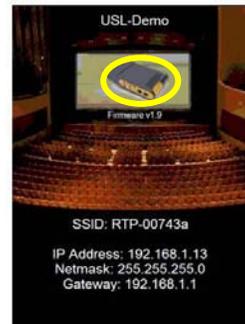
Be sure to use the Submit button on each screen to commit changes and note that a reboot will be required to apply the new settings. →



Replication of the RTP-100

When setting up multiple RTP-100s for extended wireless coverage and redundancy, additional copies of the access points will be required. When configuration and services are copied from one configured RTP-100 Wireless Server Module to another, it is called replication. To access the device replication screen, follow these steps.

1. Note the IP address of the MASTER RTP, containing the desired configuration settings.
2. Connect to the SLAVE RTP, the destination plug with will be receiving configuration settings from the master (source) RTP.
3. Select the RTM Setup button at the bottom of an RTH (handheld).
4. Click the RTP Logo on the Screen to Login. This may require a passcode.



5. Click the bottom "Device" Button.

6. Enter in the IP address of the MASTER "SOURCE" RTP.
7. Touch SUBMIT – wait for approximately five minutes.
8. Exit to Main menu & Repeat steps 3-4 and 5.
9. Click the Reboot button – Wait approximately five minutes.
10. Test replicated RTP.



Note: The replication process will make changes to the destination Wireless RTP Module that is being updated from the RTP's IP Address that is provided via the user-input field.

1. The IP Address of the source RTP-100 contains the configuration and settings to be copied from and is on the same network that is accessible via Ethernet port. The destination RTP-100 will be the one that is communicating with RTH-100 Handheld Remote Control. As previously mention the current Ethernet port settings are displayed and used to verify which RTP the RTH is communicating with.
2. Access the DEVICE SETUP screen and enter the source RTP-100's IP Address.
3. Activate the Submit button. This action will initiate a copying process. Wait approximately three minutes for the data to be transferred, the user will be required to exit and select a screen from the RTH-100 Handheld Remote Controller desktop.

Additional Online Resources and Documents

RTM-100 User Manual: http://www.uslinc.com/images/products/download/RTM-100_UserManual.pdf

FAQ Knowledge Base for RTM-100: <http://kb.uslinc.com/browser/recordlist.php?action=search&product=19>

RTM-100 One Sheet: http://www.uslinc.com/images/products/download/RTM-100_OneSht.pdf

**Additional RTM-100 Series User Manuals may be viewed / downloaded at:
www.uslinc.com**

