



APPENDIX H

: USER'S MANUAL

TRC-1480 OWNER'S MANUAL



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TOTAL CONTROL 2.0

TRC-1480 OWNER'S MANUAL

Congratulations!

Thank you for purchasing the TRC-1480 Wi-Fi remote control for your Total Control 2.0 system. The TRC-1480 connects to the local wireless network to control devices throughout your home/business automation system.

Use the TRC-1480 to navigate through Total Control's menus to control your system's audio/video devices, climate, lighting, and more.

The Total Control Rooms Menu makes controlling devices in other areas (up to 32 zones) easy and intuitive!

Features & Benefits:

- **Quick Connect Wi-Fi**

When woken up, the remote connects to the wireless network (**2.4 GHz** or **5GHz**) almost instantly for control of your system and devices.

- **Two-way Metadata Feedback:**

Experience feedback directly on the TRC-1480's display when used with an ever expanding line of 3rd Party modules (HEOS, Ecobee, Sonos and many more).

Consult with your certified URC integrator to learn more about 3rd party integration.

- **Voice Assistant Ready:**

Enable the Amazon Alexa* service to control various programmed devices in the home as well as have Amazon's countless skills at your fingertips.

- **H264 IP Camera Support:**

View almost any security camera directly on the TRC-1480's display. The TRC-1480 supports high quality camera streams, ask your certified URC integrator for further details.



 Additional voice services such as Google Assistant may be added in a later software update to the TRC-1480

Requirements & Compatibility:

- **Total Control 2.0 & Flex 2.0 Compatible:**

When used with an MRX Advanced System Controller, the TRC-1480 is capable of controlling devices around the home/business without being within "line-of-sight" of the equipment. The TRC-1480 sends commands over the system's local area network (Wi-Fi).

- **Programmable Only by a URC Certified Professional Programmer:**

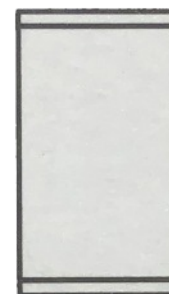
Only a trained and certified professional URC installer can install and program a TRC-1480 remote control.

Parts:

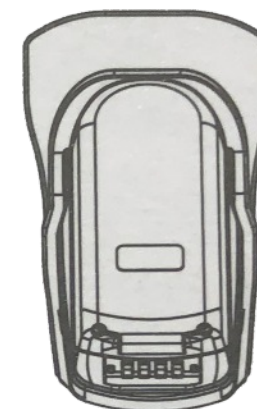
- TRC-1480 Wi-Fi Remote Control
- Rechargeable Battery
- Charging Cradle
- AC Power Adapter
- USB C-Type Cable



TRC-1480



Rechargeable Battery



Charging Cradle



AC Power Adapter

Connecting the Battery Pack:

A battery is included in the box when shipped from the factory. Press the spring lock down to unlock and remove the cover. Place the battery into the battery compartment, making sure to align the contacts on the battery with the contacts within the TRC-1480's battery compartment. The battery snaps into place when aligned properly. Replace the battery cover.

Using the Charging Cradle:

Plug the 5V DC adapter into a power outlet and into the rear of the charging cradle. Gently place the TRC-1480 into the cradle, so that the remote automatically aligns itself to the contacts on the charging cradle. The status light immediately illuminates.

There are two (2) Status light conditions:

- **Red:** Indicates the the remote's battery is charging
- **Blue:** Indicates that the remote's battery is off the charging dock
- **White:** Indicates that the remote's battery is fully charged

Two-way via Wi-Fi (2.4 GHz or 5GHz):

The TRC-1480 has the capability of providing two-way control on supported devices directly on the 2" LCD display. These devices must be configured into the Total Control program file, consult your custom integrator for additional details.



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Using the TRC-1480:

The Main Menu pages display the activities and devices in the system. Press the Main button to access the Main Menu. Larger systems may have more than one (1) page. Press either of the Page buttons to view additional Main Menu pages.

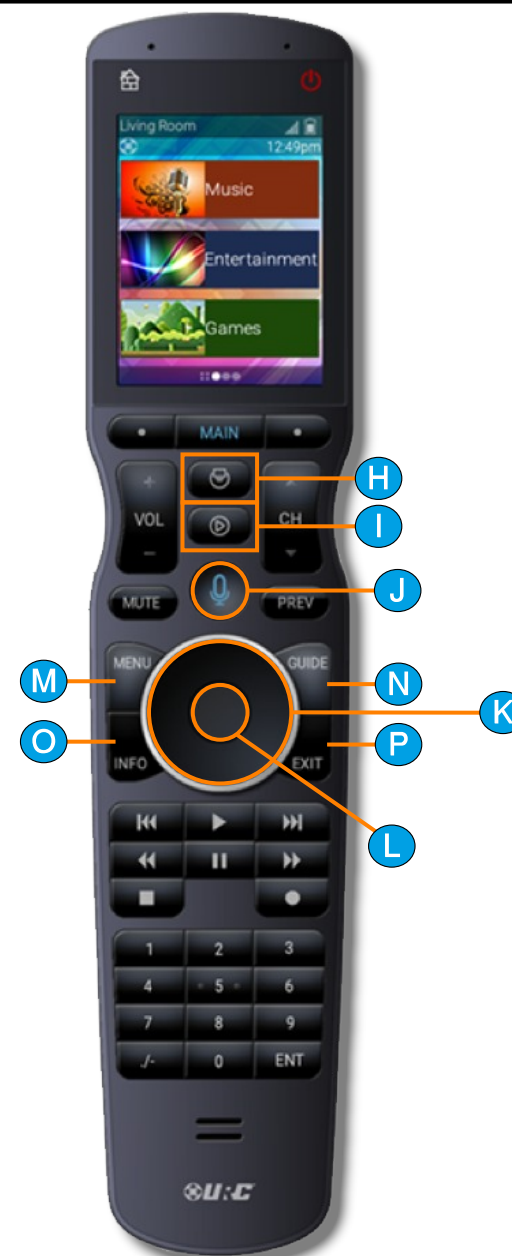
Although the TRC-1480 is programmed with custom layouts and devices, there are persistent buttons that maintain a steady function:

- a. **Rooms Menu:** This button displays a list of rooms and allows the user to swap between them for control.
- b. **Room Off/House Off:** With a single press of this button, the Total Control system turns off all the devices of the current room.

Press-n-hold this button for greater than three (3) seconds to display the system's Power Menu. This menu allows the user to turn off the room, entire system, or any custom activity programmed by the custom integrator.
- c. **Capacitive Touch Screen:** The specific function of each button is linked to the screen icon associated to the LCD screen. These buttons are used to select activities, devices, functions, navigate, and more. Speak with your custom integrator for more details.
- d. **Page Left/Right:** These buttons are used to navigate through the various Main Menu and Device/Activity Menu pages.
- e. **Main:** By default, this button returns the user to the previous menu.
- f. **Vol+, Vol-, & Mute:** Used to increase, decrease, or toggle the mute status of the active audio device.
- g. **CH+, CH-, & Prev:** Used to change a cable/SAT channel up or down or to navigate through a device's on-screen menus. The Prev button returns to the device's previous channel or can be used to return the user to a previous menu.



- h. **Shortcuts:** Displays the customizable shortcuts menu. This menu can only contain shortcuts to room-based devices/activities.
- i. **Now Playing:** Returns the user to the current activity Menu regardless of what screen is on display.
- j. **Microphone:** Select this button to interact with the native voice assistant service. When press, the microphone activates and listens to your verbal commands. The microphone is shut off when the button is no longer pressed.
- k. **Navigation Keys:** Comprised of up, down, left, right, and select. These buttons are used to navigate through the menus of a device.
- l. **Select:** Center button of directional keypad, used to confirm selections displayed on a viewing device.
- m. **Menu:** Displays the on-screen menu of the active device.
- n. **Guide:** Displays the channel guide for the device's on-screen display.
- o. **Info:** Displays channel information for the device's on-screen display.
- p. **Exit:** Closes out any open menus or guides on the display or return to the previous menu.



q. Transport Buttons: These are the available buttons:

- Play
- Pause
- Stop
- Record
- Skip+
- Skip-
- Rew
- FF (fast forward)

r. **Numerical Keypad:** Numbered buttons to change channels.



Displaying the Setup Menu

The Setup Menu allows users to configure or change certain behaviors of the TRC-1480.

Enter the Setup Menu by pressing and holding the **Main and Enter** (see image at the right) buttons for greater than five (5) seconds.



The Setup Menu times out after 60 seconds and returns the TRC-1480 to the system's Main Menu.

Use the up and down navigation buttons to maneuver between the two Setup pages. To select an option, highlight the desired setting and press the "Select" key at the center of the navigation keys.

To return to a previous page press the left page button (at the left of Main). Press the Main or Exit button to return the remote to the Main Menu.

- Sleep Timers
- Network
- Voice Assistant
- Brightness
- System
- Button Light
- Power
- Date & Time
- Button Beep
- Pickup
- Software Update
- Factory Default

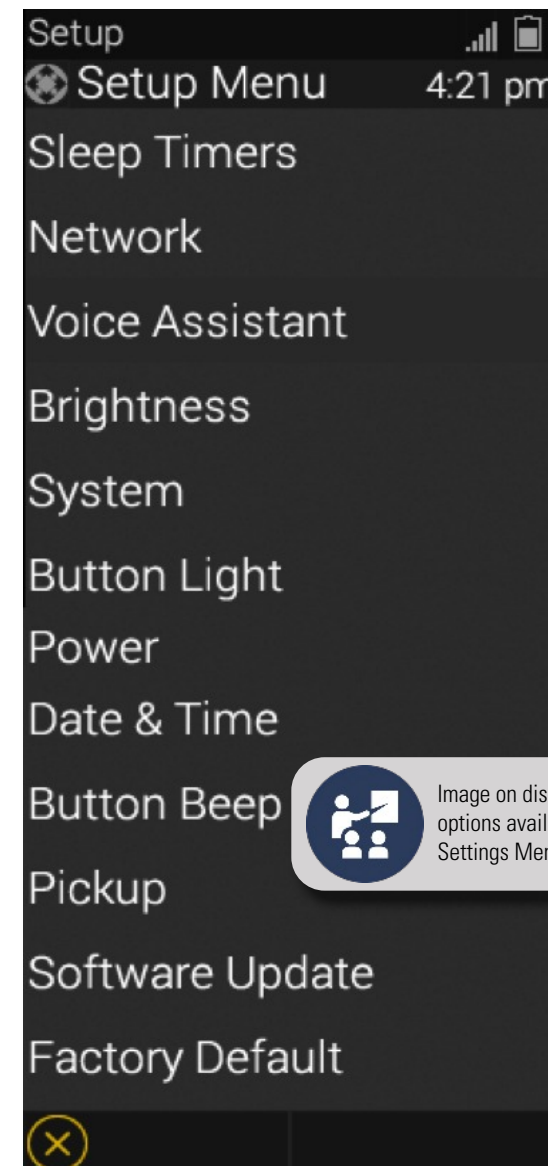


Image on display presents all the options available on the two (2) Settings Menu pages.

Sleep Timers:

Adjust the amount of time the screen remains on when the remote is not in use. The time can be set independently based on whether the remote is using battery power or sitting on the charging cradle.

Once the settings are adjusted, press the **Save** button. Pressing **Cancel** reverts the remote to the last saved setting.



Leaving the remote's display on for long periods of time may reduce your device's battery life.

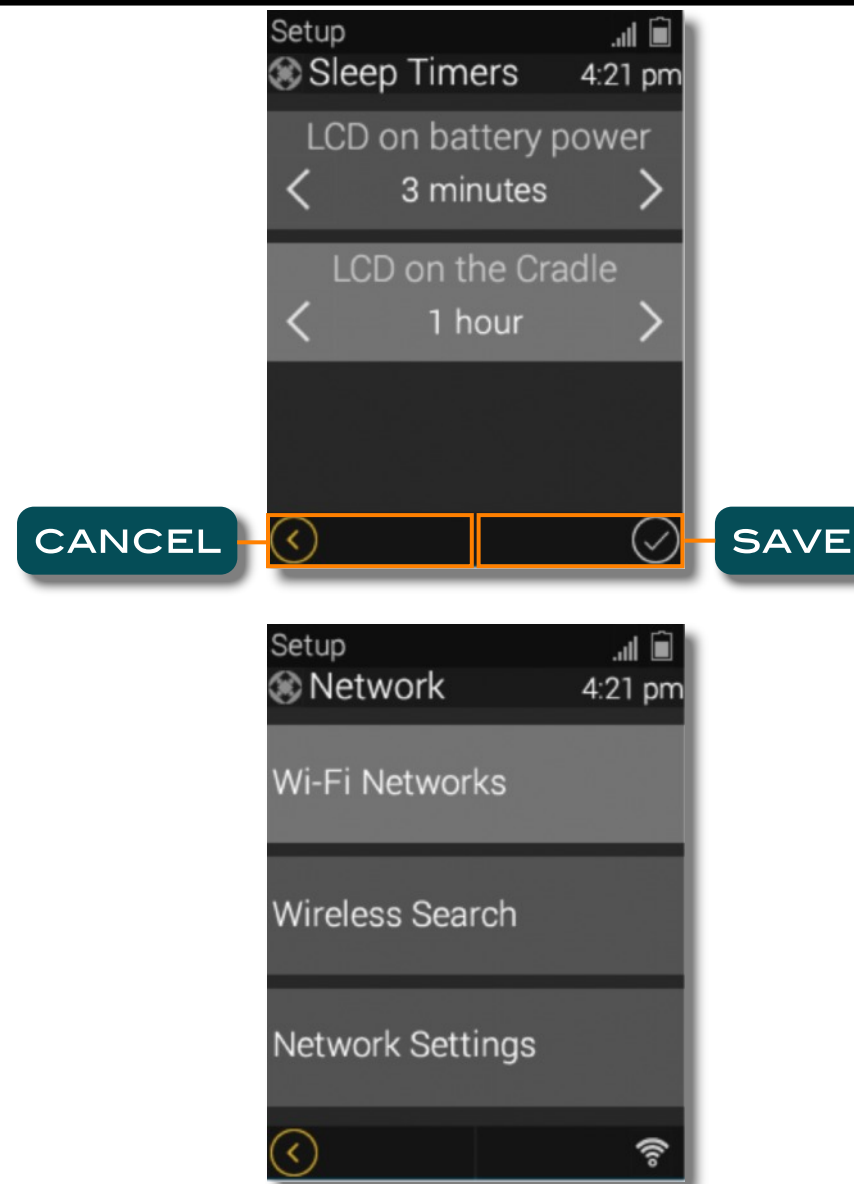
Network:

Displays the remote's network information including the connected wireless network.

WARNING! Only use this option when instructed by URC's Technical Support team or your custom install professional.



Do not make changes on this screen. Changing network settings may lead to issues controlling the system.



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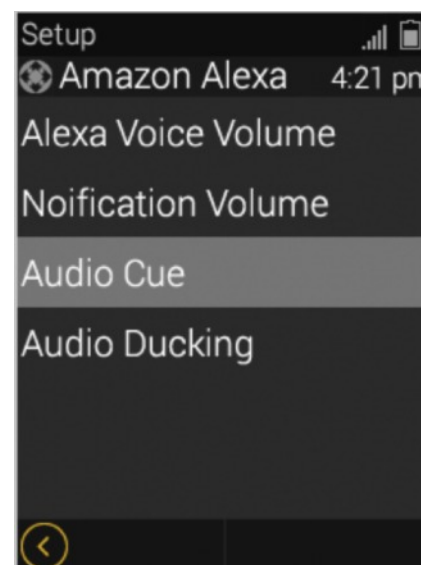
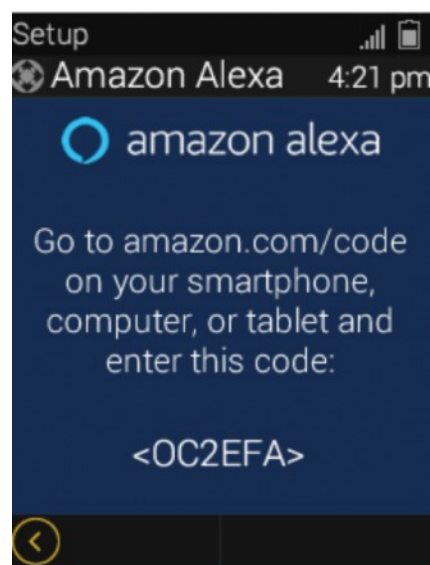
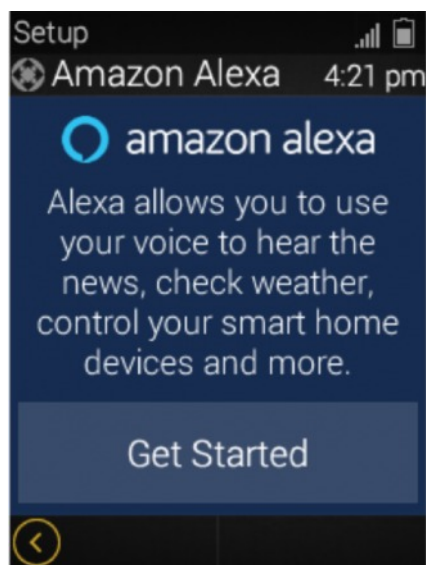
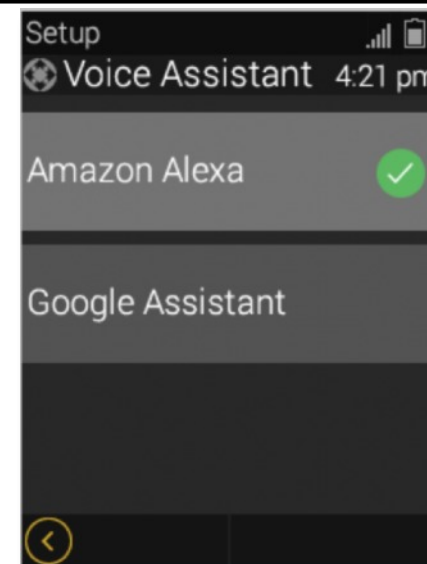
Voice Assistant:

This Settings Menu option allows you to integrate your Total Control system with voice assistant services such as Amazon Alexa.

Choose the supported voice assistant service (Amazon Alexa) and follow the on-screen directions.

The Alexa setup menu provides code that must be entered into the Amazon Alexa mobile app (iOS and/or Android).

Once enabled, use the push-to-talk button to control the Total Control system via Amazon Alexa (setup REQUIRED). Speak to your certified URC integrator for more details



- **Alexa Voice Volume:** Adjust the volume of the Alexa service on the TRC-1480.
- **Notification Volume:** Adjust the volume for notification alerts.
- **Audio Cue:** Enable or disable the audio cue. It provides an audio "chime" that informs the user that the voice service is "listening".
- **Audio Ducking:** When enabled, audio ducking lowers the volume in the current room when the voice button is pressed on the remote.

Brightness:

Adjust the screen brightness by pressing the adjacent LCD buttons to increase or decrease the brightness level.

Once the brightness has been adjusted, press the **Save** button. Pressing **Cancel** reverts the remote to the last saved setting.



High brightness levels may reduce affect the TRC-1480's battery life.

System:

Displays information about the remote's operating system, memory, etc. Press the **More** button to view further system information. Pressing the **Cancel** button exits to the remote's Setup Menu.



Button Light:

Adjust the brightness of the remote's button backlighting. Press the adjacent LCD buttons to increase or decrease the button backlighting.

Once the button backlight has been adjusted, press the **Save** button. Pressing **Cancel** reverts the remote to the last saved setting.

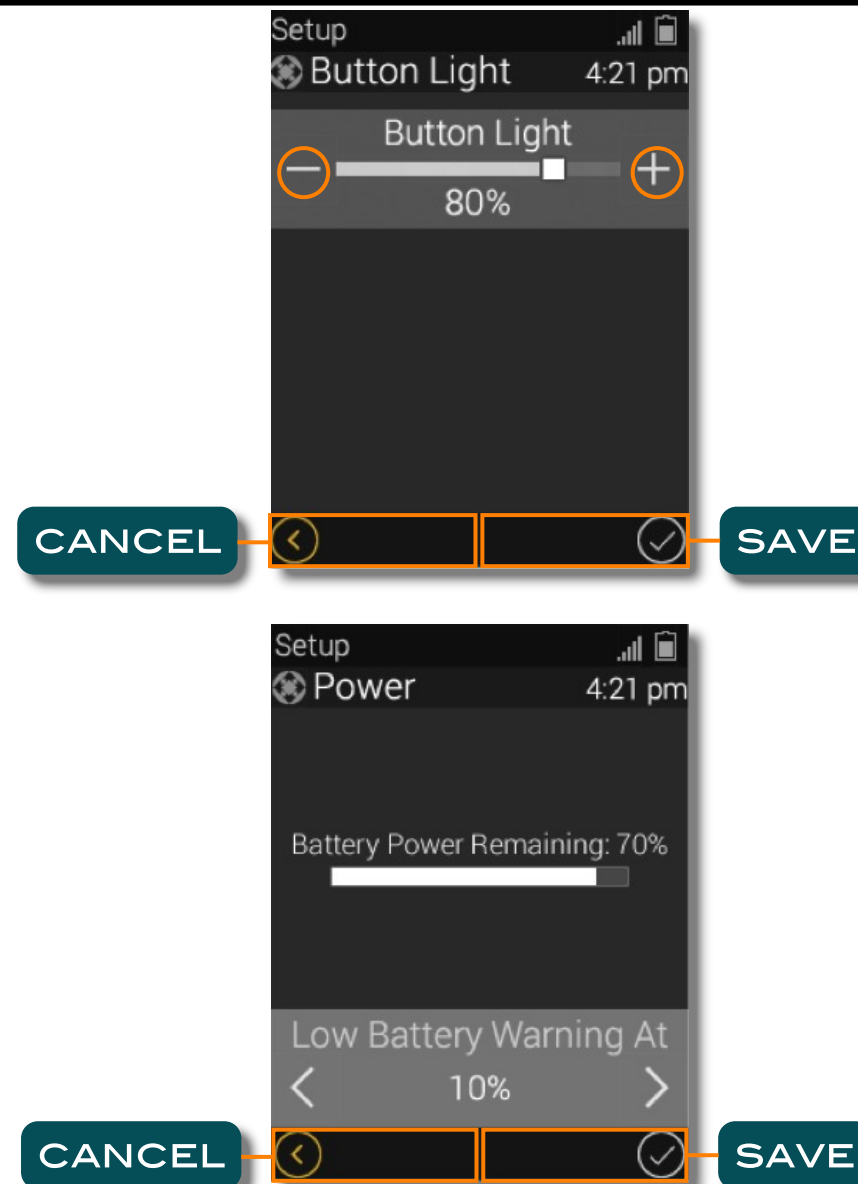


Brighter button light levels may reduce the TRC-1480's battery life.

Power:

Displays the remote's remaining battery level. Adjust when the "Low Battery" warning screen appears.

Once the Power settings have been adjusted, press the **Save** button. Pressing **Cancel** reverts the remote to the last saved setting.



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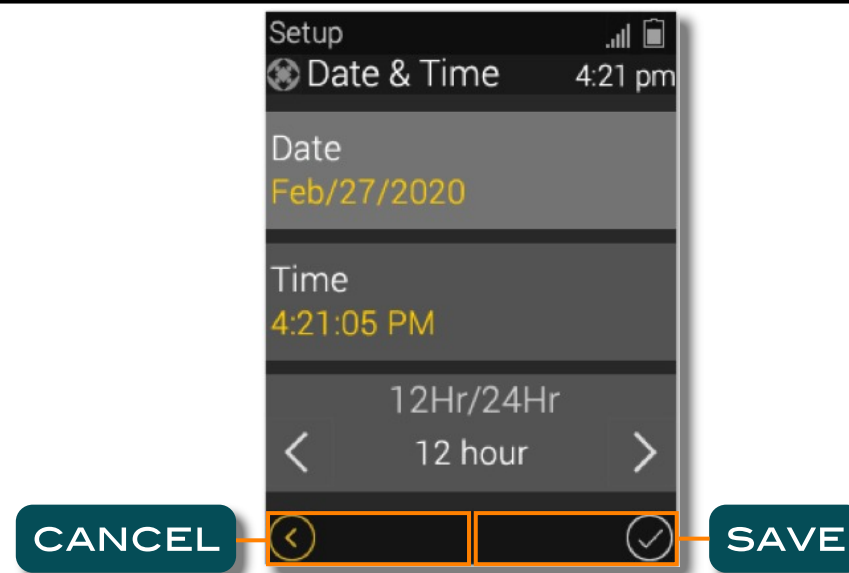
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Date & Time:

The remote's date and time settings have been set by your certified custom integrator. If needed, the date and time settings can be manually changed here.

If the system's date and time are adjusted, the Total Control system adopts the new date and time globally.

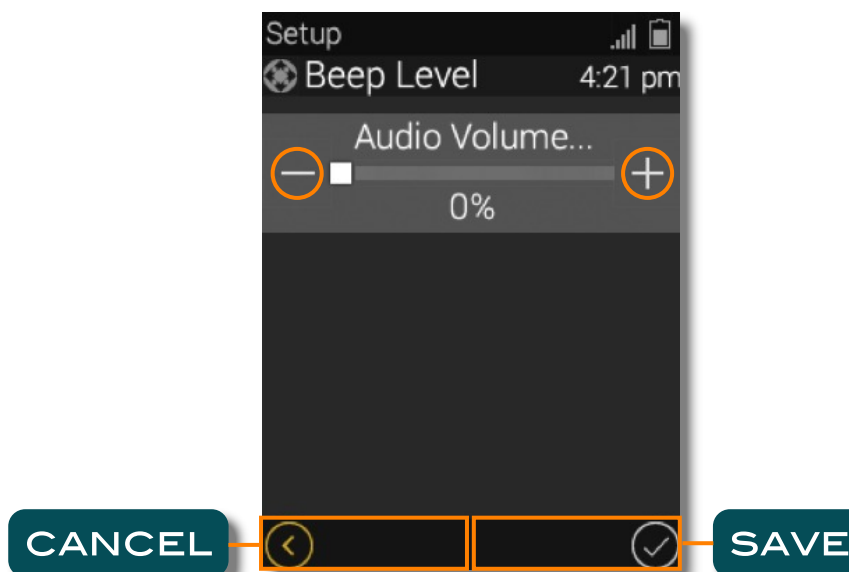
Once the date and time settings have been adjusted, press the **Save** button. Pressing **Cancel** reverts the remote to the last saved setting.



Button Beep:

Adjust the button "beep" of the remote. Press the adjacent LCD buttons to increase or decrease the volume level.

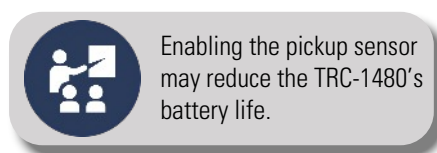
Once the sound has been adjusted, press the **Save** button. Pressing **Cancel** reverts the remote to the last saved setting.



Higher sound levels may reduce the TRC-1480's battery life.

Pickup:

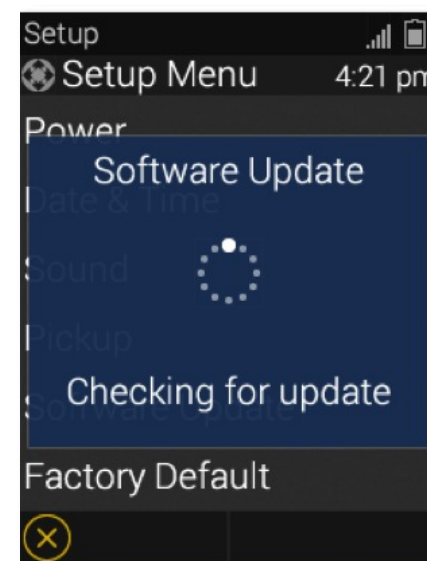
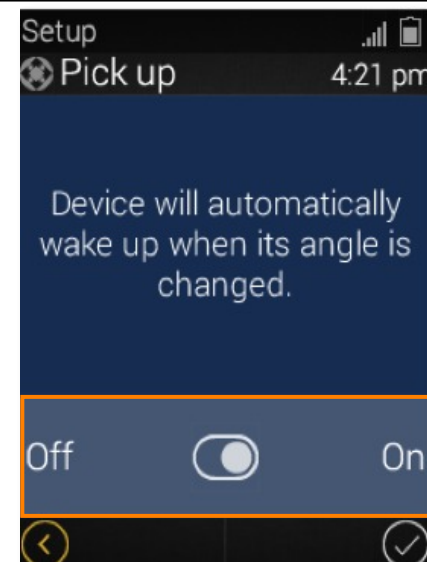
Turn on or off the remote's pickup sensor. When enabled, the TRC-1480 turns on when the remote is picked up. Select **Yes** (turn on) or **No** (turn off).



Software Update:

URC's system has the ability to be programmed by a certified URC programmer remotely (after initial installation). Because this remote connects to the network via Wi-Fi, the device may sometimes need to have the software update applied manually.

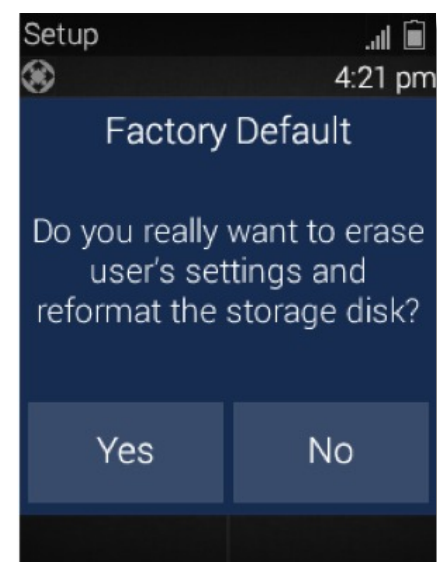
Select this option only when instructed by your certified URC integrator or URC's Technical Support Team.



Factory Default:

Resets the memory of the TRC-1480 to the factory settings. All existing programming is erased and requires configuration by your certified URC integrator.

WARNING! Only use this button when instructed by URC's Technical Support team.



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Specifications:

Microprocessor: ARM Cortex-A35 Core 1.5GHz x 4

RAM: 8GB eMMC, DDR3 256MB RAM

LCD: 2.4" TFT-LCD, 262K Colors, Backlight By LED

Touch Window: Capacitive Touch

Sound: Mono, Normal 1 watt

Devices: Supports up to 255 devices with text, less with heavy graphics

Usage Pages: Supports up to 255 pages on each devices with text, less with heavy graphics usage

Macro Capability: Up to 255 steps each; however, nesting is supported.

Wi-Fi: IEEE 802.11a/b/g/n/ac

Battery: Lithium Polymer, 2100mAh

Battery Charging Time: 4 Hours

Size: 9.05 x 1.97 x 1.06

Weight (with battery loaded): 7.2oz



Warranty Statement:

1. LIMITED WARRANTY AND DISCLAIMERS

Universal Remote Control, Inc. ("URC") warrants that URC equipment purchased directly from URC or from an authorized URC dealer or distributor shall be free from defects in material and workmanship under normal usage for a period of one (1) year from the date of purchase of the product by the end-user, but no longer than thirty-six (36) months from the date of shipment of the URC equipment by URC to an authorized URC dealer or distributor, except that with respect to Total Control® whole-house products, the warranty extends for two (2) years from the date of purchase by the end-user, but no longer than forty-eight (48) months from the date of shipment of the URC equipment by URC to an authorized URC dealer or distributor.

This limited warranty is valid only in the United States of America.

URC equipment purchased from other than an authorized URC dealer or distributor is without warranty.

URC warrants that the software will substantially conform in any material respect to its functional specifications at the time of delivery. URC SHALL NOT BE LIABLE FOR OPERATIONAL, TECHNICAL OR EDITORIAL ERRORS AND/OR OMISSIONS MADE IN THE URC DOCUMENTATION. URC DOES NOT WARRANT THAT THE URC SOFTWARE IS BUG-FREE OR ERROR FREE OR THAT THERE ARE NO ERRORS/BUGS IN THE URC SOFTWARE.

URC warrants that at the time of purchase the URC equipment and the URC software complied with all applicable regulations and policies of the Federal Communications Commission ("FCC") regarding electromagnetic interference caused by electronic/computing devices and to the extent that the URC

equipment and/or the URC software fails to so comply, URC shall, at its own expense, take all reasonable measures to promptly cause such to comply.

THIS LIMITED WARRANTY DOES NOT COVER TECHNICAL ASSISTANCE FOR HARDWARE OR SOFTWARE USAGE EXCEPT AS EXPRESSLY PROVIDED FOR HEREIN.

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EXCEPT AS EXPRESSLY PROVIDED FOR HEREIN, TECHNICAL SERVICES ARE SUPPLIED "AS IS", WITHOUT ANY WARRANTY, EXPRESS, STATUTORY OR IMPLIED, OF ANY KIND. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, URC EXPRESSLY DISCLAIMS ALL WARRANTIES RELATING TO TECHNICAL SERVICES, EXPRESS, STATUTORY OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF QUALITY OR REASONABLE SKILL AND CARE, OR OUTCOME OR RESULTS.

WITHOUT IN ANY WAY LIMITING THE GENERALITY OF THE OTHER PROVISIONS HEREIN, THIS LIMITED WARRANTY DOES NOT COVER: (I) DAMAGE FROM MISUSE, NEGLIGENCE OR ACTS OF NATURE, (II) MODIFICATIONS, (III) INTEGRATION WITH THIRD PARTY CONTENT, OR (IV)

BEYOND THE WARRANTY PERIOD AND/ OR FAILURE TO FOLLOW URC WARRANTY CLAIM PROCEDURE.

The warranty limitations and warranty disclaimers may not apply to end user in whole or in part, where such are restricted or excluded by applicable law, and such shall apply to the maximum extent permitted by applicable law.

In the event of any warranty claim, URC will, at its sole option, repair the URC equipment using new or comparable rebuilt parts, or exchange the URC equipment for new or rebuilt equipment. In the event of a defect, these are the end user's exclusive remedies.

All the URC equipment returned for service, exchange or repair require an RGA number. To obtain an RGA number, you must complete a Return Request Form which you may obtain by calling (914) 835-4484 or contacting URC at returnrequest@universalremote.com. To obtain warranty service, end user must deliver the URC equipment, freight prepaid, in its original packaging or packaging affording adequate protection to URC at 37 Ramland Road, Unit 104, Orangeburg, NY 10962. It is end user's responsibility to backup any macro programming, artwork, software or other materials that may have been programmed into the unit. It is likely that such data, software, or other materials will be lost during service and URC will not be responsible for any such damage or loss. A dated purchase receipt, bill of sale, installation contract or other verifiable proof of purchase is required. For the URC equipment support and other important information, please visit URC's website available at www.universalremote.com or call the Customer Service Center at (914) 835-4484.

This limited warranty only covers the URC equipment issues caused by defects in material or workmanship during ordinary consumer use. It does not cover product issues caused by any other reason, including but not limited to product

issues due to commercial use, acts of God, third-party installation, misuse, limitations of technology, or modification of or to any part of the URC equipment. This limited warranty does not cover the URC equipment sold as used, as is, refurbished, so called "B stock" or consumables (such as batteries). This limited warranty is invalid if the factory applied serial number has been altered or removed from the URC equipment. This limited warranty specifically excludes the URC equipment sold by unauthorized resellers.

With the exception of URC's IR-only, broad-based consumer remotes, none of URC's PC programmable remotes or any of our Total Control® whole-house equipment are authorized for online internet sales. Buying URC's PC programmable remotes or any of our Total Control® whole-house equipment online means buying equipment that does not have URC's limited warranty. Such equipment is not eligible for URC tech support or software support, either.

2. URC's LIMITATIONS OF LIABILITY

IN NO EVENT SHALL URC BE LIABLE FOR INDIRECT, SPECIAL, INCIDENTAL, EXEMPLARY, PUNITIVE OR CONSEQUENTIAL DAMAGES OF ANY KIND OR LOSS OF PROFITS OR BUSINESS OPPORTUNITY, EVEN IF URC IS ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

IN NO EVENT SHALL URC BE LIABLE FOR LOSS OF OR DAMAGE TO DATA, COMPUTER SYSTEMS OR COMPUTER PROGRAMS.

URC'S LIABILITY, IF ANY, FOR DIRECT DAMAGES OF ANY FORM SHALL BE LIMITED TO ACTUAL DAMAGES, NOT IN EXCESS OF AMOUNTS PAID BY END USER FOR THE URC EQUIPMENT.

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IN NO EVENT SHALL URC BE LIABLE FOR ANY EVENTS BEYOND ITS CONTROL, INCLUDING ANY INSTANCE OF FORCE MAJEURE.

IN NO EVENT SHALL URC BE LIABLE FOR THE ACTS OR OMISSIONS OF END USER OR ANY THIRD PARTY.

THE LIMITATIONS OF LIABILITY MAY NOT APPLY TO END USER IN WHOLE OR IN PART, WHERE SUCH ARE RESTRICTED LIMITED OR EXCLUDED BY APPLICABLE LAW AND SUCH SHALL APPLY TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW.

URC SHALL NOT BE HELD RESPONSIBLE FOR THE STATEMENTS MADE BY OTHERS.

SOME STATES OR JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO END USER. THIS LIMITED WARRANTY GIVES END USER SPECIFIC LEGAL RIGHTS AND END USER MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE OR JURISDICTION TO JURISDICTION.

End User Agreement:

The terms and conditions of the End User Agreement are available at www.universalremote.com/eua.php shall apply.

Precautions and Information Concerning Rechargeable Lithium Polymer Battery:

- If you will not be using your remote control for an extended period of time, be sure to remove the battery
- Do not attempt to disassemble, alter or apply heat to the battery.
- Use care to avoid dropping the battery or subjecting it to severe impact that could damage the case.
- The battery should not be immersed in water.
- Risk of explosion if battery is replaced by an incorrect type.
- Dispose of used batteries according to the instructions.
- Lithium Polymer batteries are recyclable. For the address of a drop-off locations near you, call toll free 1-800-822-8837 or visit <http://www.rbr.com>

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.

Warning!

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

Note: The manufacturer is not responsible for any Radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

FCC Caution:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate equipment.

The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Federal Communication Commission (FCC) Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. End users must follow the specific operating instructions for satisfying RF exposure compliance.

Importer & Manufacturer:

• Importer:

Universal Remote Control, Inc.
500 Mamaroneck Ave
Harrison, NY 10528

• Manufacturer:

OH SUNG ELECTRONICS CO., LTD
#181 GONG DAN-DONG, GUMI, GYEONG BUK, REPUBLIC OF KOREA

Declaration of Conformity:

Company Name : Summit Technology, Inc

Company Address : 130, Digital-ro, Namsung Plaza
Suite 611, Geumcheon-gu, Seoul, Korea

Contact Information : Phone: (+82)-2-6929-3161

Product Name : RF Remote Controller

Model Name : TRC-1480

This product herewith complies with the requirements of Radio equipment Directive (2014/53/EU) issued by the Commission of the European Community Compliance with these directives implies conformity to the following European Community.

Date of Issue: : _____

Name an signature of authorized person : _____
General Product Manager
Summit Technology, Inc

- Radio Equipment Directive
 - EN 62368-1 (2014) + A11 (2017)
 - EN 62479 (2010)
 - ETSI EN 301 489-1 V2.1.1 (2016)
- ETSI EN 301 489-17 V3.1.1 (2016)
- ETSI EN 300 328 V2.1.1 (2016)

● Test Report No.:

- Radio:
- EMC:
- Health:
- Safety

List of test reports and/or certificate verified compliance with the standards above

- Radio equipment Directive
 - Certificate No. :
 - Certificate Body : TUV
Rhineland