

It's Under Control®

T2-Cs+

Universal System Controller

Operation Guide



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FEDERAL COMMUNICATIONS COMMISSION NOTICE

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. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.

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 or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the 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.

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.
2. This device must accept any interference received including interference that may cause undesired operation.



Contains FCCID: MMURTI1500

Contains IC (Canada): 3166A-RTI1500



N27917

DECLARATION OF CONFORMITY (DOC)

The Declaration of Conformity for this product can be found on the RTI website at: www.rticorp.com/declaration

SAFETY SUGGESTIONS

Read and Follow Instructions. Read all safety and operating instructions before operating the unit.

Retain Instructions. Keep the safety and operating instructions for future reference.

Heed Warnings. Adhere to all warnings on the unit and in the operating instructions.

Heat. Keep the unit away from heat sources such as radiators, heat registers, stoves, etc., including amplifiers that produce heat.

Do Not Open Battery Compartment. This device contains Lithium-Ion or Lithium-Polymer batteries. Batteries should only be replaced by an authorized service center or trained installer.

Power Sources. Connect the unit only to a power supply of the type described in the operating instructions, or as marked on the unit.

Power Cord Protection. Route power supply cords so that they are not likely to be walked on or pinched by items placed on or against them, paying particular attention to the cord plugs at power receptacles and at the point at which they exit from the unit.

Water and Moisture. Do not use the unit near water—for example, near a sink, in a wet basement, near a swimming pool, near an open window, etc.

Object and Liquid Entry. Do not allow objects to fall or liquids to be spilled into the enclosure through openings.

Servicing. Do not attempt any service beyond that described in the operating instructions. Refer all other service needs to qualified service personnel.

Damage Requiring Service. The unit should be serviced by qualified service personnel when:

- The power supply cord or the plug has been damaged.
- Objects have fallen or liquid has been spilled into the unit.
- The unit has been exposed to rain.
- The unit does not appear to operate normally or exhibits a marked change in performance.
- The unit has been dropped or the enclosure has been damaged.

WARNING!

**TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK,
DO NOT EXPOSE THE UNIT TO RAIN OR MOISTURE.**

BATTERIES

GENERAL BATTERY WARNING: Rechargeable Lithium batteries can explode, catch fire, and/or cause burns if disassembled, punctured, cut, crushed, short circuited, incinerated, recharged, or exposed to water, fire, or high temperatures. DO NOT place loose batteries in a pocket, purse, or other receptacle containing metal objects, mix with used or other battery types, or store with hazardous or combustible materials. If batteries catch fire, DO NOT attempt to put out the fire with water—use a class “D” fire extinguisher or other smothering agent. Keep batteries away from children. DO NOT tamper with wires or connectors that are attached to the battery. Failure to follow these directions could result in damage to your remote control that may not be covered by RTI’s warranty. Store lithium batteries in a cool, dry, ventilated area. Follow applicable laws and regulations for transport, shipping, and disposal. For more details on recycling lithium batteries please contact a government recycling agency, your waste disposal service, the reseller where the batteries were purchased, or visit a reputable online recycling source such as www.batteryrecycling.com.

COUNTERFEIT AND INFERIOR-QUALITY BATTERY WARNING: Counterfeit and/or inferior-quality lithium batteries are known to develop internal defects that can lead to fire and/or explosion. This can result in damage to your remote control, and in some cases, property damage or personal injury. Customers are specifically cautioned from purchasing batteries from online auction websites, as these are known sources of counterfeit or inferior-quality batteries. RTI’s rechargeable lithium batteries are manufactured to strict quality standards specifically for use in RTI remote control products, and contain built-in fault protection for added safety. The use of counterfeit or inferior-quality batteries could greatly reduce runtime and performance, damage your RTI remote control, constitute a safety hazard, and may void your warranty.

To make sure you get authentic RTI rechargeable lithium batteries purchase them only from www.rtiwebstore.com or an authorized RTI reseller.

DISPOSAL:

For environmental reasons, your T2-Cs+ Universal System Controller uses “environmentally sound” Lithium-ion rechargeable batteries. These batteries do not contain any poisonous heavy metals that can damage the environment.



Li-ion

In the interest of recycling, please do not dispose of these batteries in the household waste at the end of their useful life. Instead, dispose of them at an appropriate collection site.

LIMITED WARRANTY

Remote Technologies Incorporated warrants its products for a period of one (1) year (90 days only for included battery packs) from the date of purchase from Remote Technologies Incorporated or an authorized Remote Technologies Incorporated distributor.

This warranty may be enforced by the original purchaser and subsequent owners during the warranty period, so long as the original dated sales receipt or other proof of warranty coverage is presented when warranty service is required.

Except as specified below, this warranty covers all defects in material and workmanship in this product. The following are not covered by the warranty:

Damage resulting from:

1. Accident, misuse, abuse, or neglect.
2. Failure to follow instructions contained in this Guide.
3. Repair or attempted repair by anyone other than Remote Technologies Incorporated.
4. Failure to perform recommended periodic maintenance.
5. Causes other than product defects, including lack of skill, competence or experience of user.
6. Shipment of this product (claims must be made to the carrier).
7. Being altered or which the serial number has been defaced, modified or removed.

Remote Technologies Incorporated is not liable for any damages caused by its products or for its failure of its products to perform, including any lost profits, lost savings, incidental damages, or consequential damages.

Remote Technologies Incorporated is not liable for damages based upon inconvenience, loss of use of the product, loss of time, interrupted operation, commercial loss, any claim made by a third party or made by you for a third party.

Remote Technologies Incorporated's liability for any defective product is limited to repair or replacement of the product, at our option.

If your T2-Cs+ Universal System Controller needs service, please contact Remote Technologies Incorporated by telephone, fax or E-mail for return information. **Please do not return products to Remote Technologies Incorporated without return authorization.**

DISCLAIMER

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ZigBee is a registered trademark of the ZigBee Alliance.

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CHAPTER 1 | WELCOME

Thank you for purchasing the T2-Cs+ Universal System Controller.

The T2-Cs+ takes command of the media room and eliminates the clutter of unnecessary remote controls on the coffee table. The 2.4" color LCD can display custom text and graphics to provide customized, intuitive control. The simplified graphics programming and compact display, combine to bring an advanced color touchscreen to a price level comfortable enough for nearly every budget.

The T2-Cs+ is capable of infrared control, and innovations such as a revolutionary dual RF platform offer communications with RTI central processors either one way at 433MHz or bi-directionally with compatible devices at 2.4GHz. Optional RF receivers are available for transmission through walls and cabinets. The RF receivers connect to an RTI control system for the ultimate in control reliability and flexibility. RTI control systems provide many advanced features such as IR routing, local macro execution, power sensing, and RS-232 control.

Programming is easy and convenient thanks to the Windows® based *Integration Designer™* software. Because RTI's remote control products are sold only through professional installers/programmers, and never directly to consumers, it is our philosophy to not incorporate programming capability directly into our products. Instead, we are committed to providing our dealers with the hardware and software tools that allow them to create re-usable programming databases and templates in the most efficient and reliable way possible.

FEATURES

The T2-Cs+ provides superior quality and reliability as well as these features:

- Dual RF transmission capability uses 433MHz and 2.4GHz (utilizing Zigbee® technology).
- Two-way feedback from compatible devices using 2.4GHz (Zigbee®) and RTI control components.
- Full color TFT LCD to display custom buttons, text, graphics and animations.
- Integrated high-resolution touchscreen.
- Simplified graphics programming.
- Thirty-eight assignable/programmable keypad buttons.
- Three-way rocker switch for scrolling list navigation.
- Tilt switch can automatically turn on the backlight when picked up.
- Extremely bright, backlit display and keypad.
- Intuitive layout of keypad buttons for commonly used functions.
- System includes a Lithium-Ion battery and docking station.
- Extremely wide IR transmitting frequency range.
- Non-volatile Flash memory stores your system configuration even when power is not present.
- USB 2.0 Programming.

CHAPTER 1 | WELCOME

IR COMPATIBILITY

The T2-Cs+ and *Integration Designer*® software are compatible with infrared (IR) commands with carrier frequencies between 15kHz and 460kHz, as well as those commands that do not use a carrier. This covers virtually all of the remotes that exist to date.

SOFTWARE REQUIREMENTS

The recommended minimum system requirements needed to run the *Integration Designer*® software are as follows:

- Windows XP®, Windows Vista®, Windows 7® or later version Microsoft operating system.

UNPACKING AND INSPECTION

After unpacking your new T2-Cs+ Universal System Controller, save all of the packing materials in case you ever have to ship the unit.

Thoroughly inspect the T2-Cs+ and packing materials for signs of damage. Report any damage to the carrier immediately. Report any equipment malfunctions to Remote Technologies Incorporated or an authorized Remote Technologies Incorporated distributor.

PRODUCT CONTENTS

Contents within the box include the following items:

- One (1) T2-Cs+ universal system controller
- One (1) Docking station.
- One (1) Universal power supply for docking station
- One (1) Operation guide.

CHAPTER 2 | INTRODUCTION

IMPORTANT NOTES

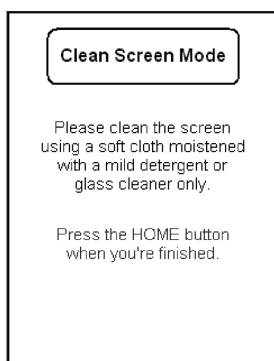
Please read these important notes about the T2-Cs+:

- The T2-Cs+ should be placed in an area where it is around normal room temperature (between 60° F to 90° F).
- Do not use sharp objects on the touchscreen. It is designed to operate with a touch of your finger.
- Do not let the T2-Cs+ get wet. It should not be handled with wet hands or placed in an area where it could get wet.
- Do not subject the T2-Cs+ to smoke, dust, or vibrations. The display may be damaged from excessive shock or vibration.
- Only use the power supply that is provided with the T2-Cs+. Using the wrong type of power supply may result in damage to the battery or electronic components.
- Do not disassemble the unit. Service of the T2-Cs+ should be performed by authorized personnel only.

CLEANING

Occasional cleaning may be required, depending on use. It is recommended that you create a "Clean" button somewhere on the Home page of the T2-Cs+. This button should link to a page that does not contain commands or macros that could be inadvertently executed while cleaning the unit. The "Clean" page could contain a text message or graphic of your choosing such as:

To clean your T2-Cs+, lightly dampen a lint-free cloth with a glass cleaner or mild detergent, and wipe the touchscreen, keypad and outer surfaces.



CHAPTER 2 | INTRODUCTION

BATTERY AND DOCKING STATION

The T2-Cs+ uses a Lithium-Ion rechargeable battery. This battery does not exhibit any type of "Memory Effect" from being charged too often. Since the T2-Cs+ can safely be charged after each use, a docking station is included for convenience. If left out of the docking station, the T2-Cs+ will remain in sleep mode for 1 – 2 months before shutting down. At that point the battery must be recharged.

The T2-Cs+ Docking Station can be placed on a flat surface such as a shelf or table, or it can be mounted to a wall using the mounting holes on the back of the unit.



If the T2-Cs+ battery capacity is reduced to approximately 25 percent, a low battery icon will appear in the top center of the display.



The low battery icon will change color to red if the battery capacity becomes critically low. At this point the T2-Cs+ must be placed into the docking station to recharge the

battery.

The docking station LED illuminates red to indicate a charge in progress. The LED will illuminate blue when the battery in the unit is fully charged or does not need to be charged. A fully discharged battery will take approximately 2-4 hours to completely re-charge. The T2-Cs+ can remain in the docking station indefinitely without damage to the battery.

CHAPTER 2 | INTRODUCTION

GETTING STARTED

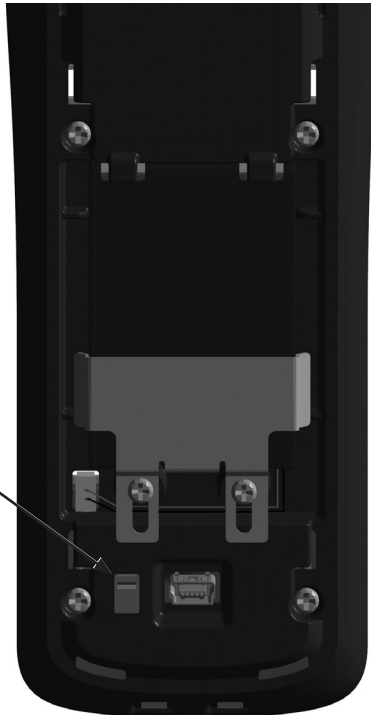
NOTE: The following steps for initial installation including removing the battery door should be performed by an authorized service center or trained installer only.

Start by insuring the battery connector is inserted into the mating plug on the T2-Cs+. Make sure the connector is oriented properly before attempting to insert it. Next, turn the unit on by sliding the power switch into the "ON" position (toward the battery).

After power is applied, the T2-Cs+ will take approximately ten seconds to load the operating system, the application software, and the user program. This long delay only occurs from a power-down state. During normal use the T2-Cs+ turns-on instantly from its sleep mode.

The T2-Cs+ is turned-on by touching any area of the display or any keypad button. If the tilt sensor is enabled, picking up the unit will also turn it on.

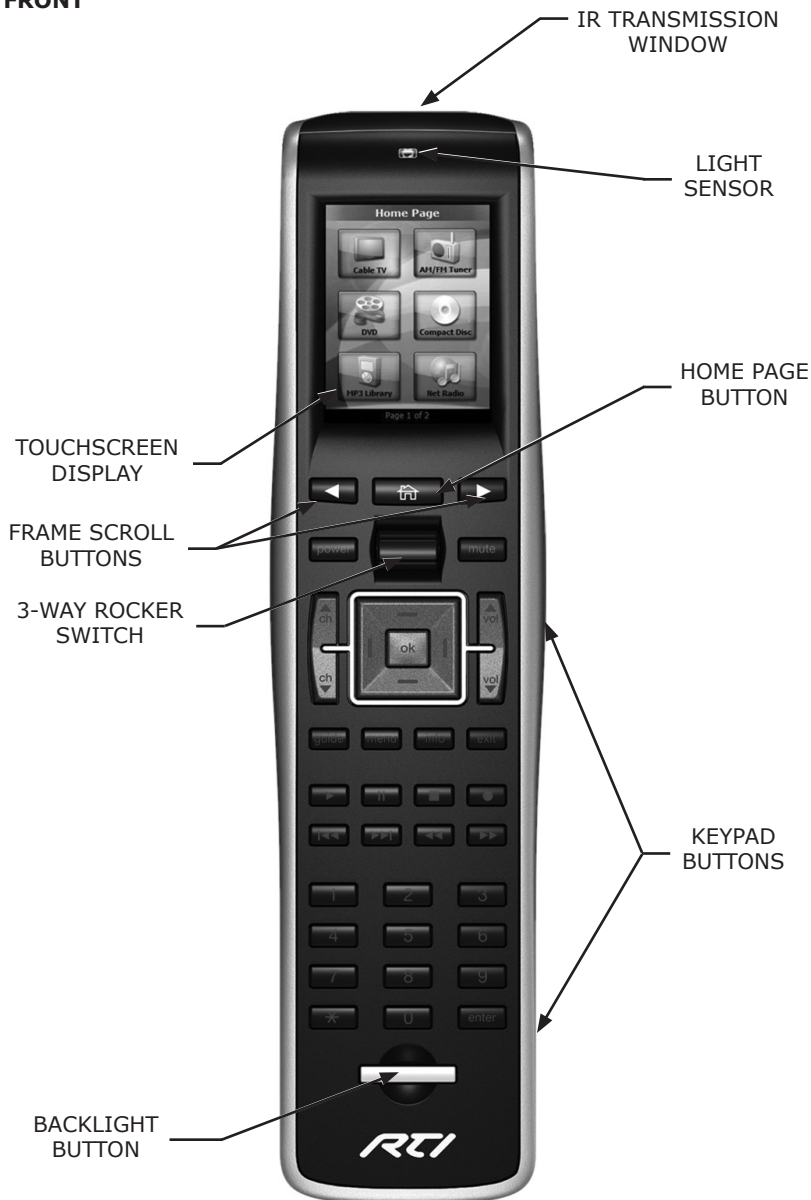
POWER
SWITCH



CHAPTER 2 | INTRODUCTION

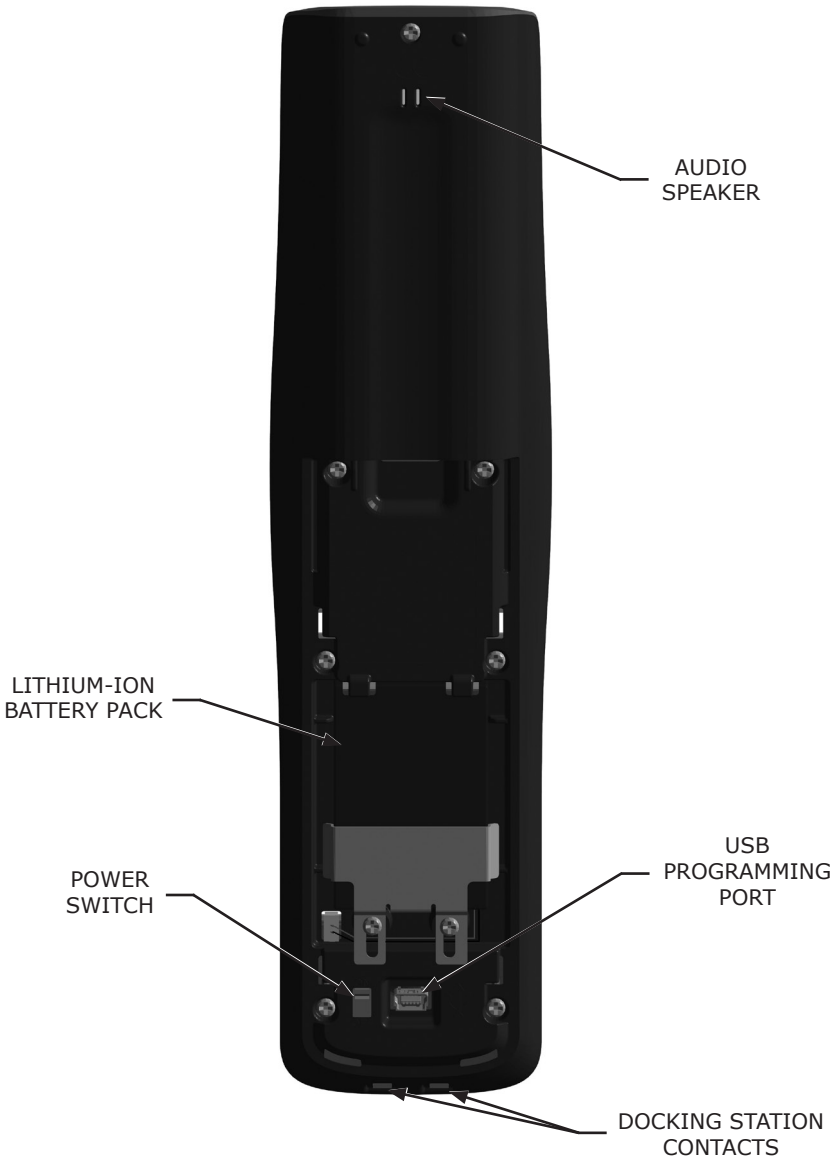
REMOTE REFERENCE

FRONT



CHAPTER 2 | INTRODUCTION

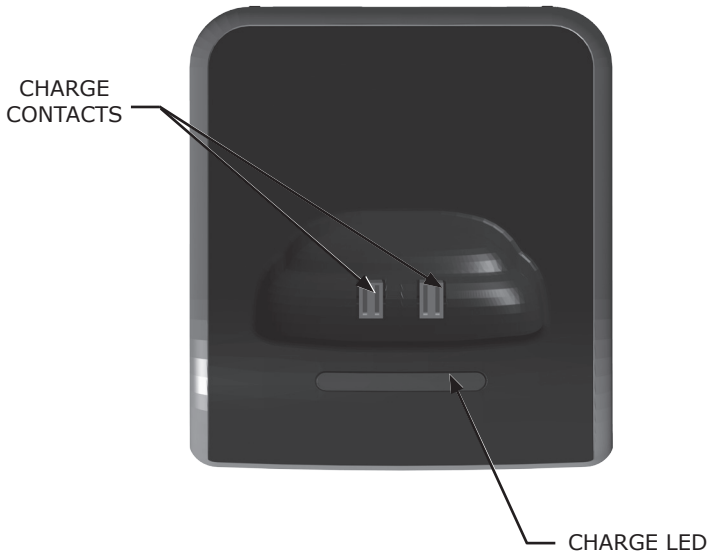
BACK



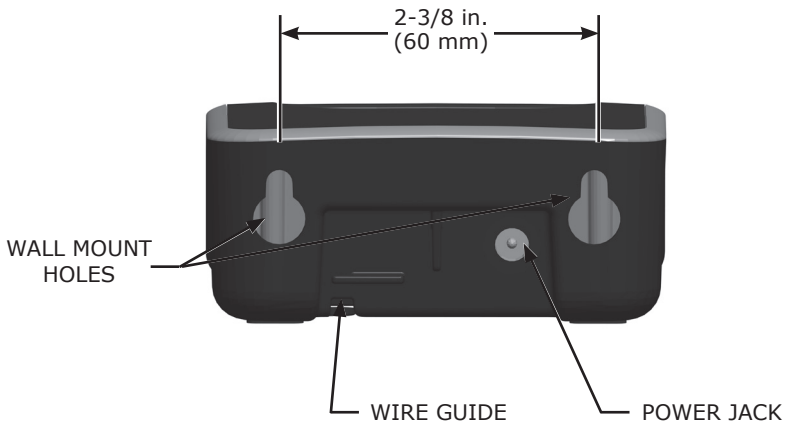
CHAPTER 2 | INTRODUCTION

DOCKING STATION REFERENCE

TOP



BACK



CHAPTER 3 | OPERATION

PROGRAMMING THE T2-Cs+

The T2-Cs+ is programmed using RTI's *Integration Designer*® software. RTI dealers can download the software from:

www.rticorp.com/dealers

A PC running Windows XP®, Windows Vista®, Windows 7® or later Microsoft operating system with a USB port is required.

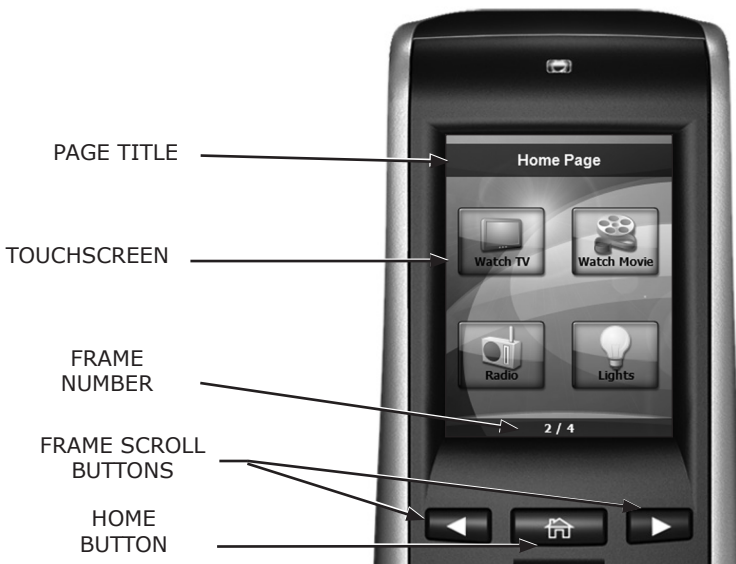
THE TOUCHSCREEN DISPLAY

The T2-Cs+ touchscreen display may be programmed using a grid for simplified alignment of button bitmaps or turning the grid off in Integration Designer, allows the placement of buttons anywhere on the screen.

The display is organized as a series of pages and frames. A page consists of one or more frames, and only one frame is displayed on the touchscreen at a time. Normally the frames of a page are programmed to contain objects (buttons, text, graphics, etc.) that are related in some way. For instance, they may all display information necessary for controlling a DVD player or a list of favorite channels. The commands or macros programmed onto the hard buttons of the T2-Cs+ remain constant for all of the frames of a given page.

By default, the T2-Cs+ has one Home page, all other pages are normally accessed from links on the Home page. In addition, any page can contain a button with a link to any other page when selected. By default, pressing the HOME button at any time will return you to this page. It is possible, however, to program the Home button to behave differently if desired.

Use the frame scroll buttons to navigate through a page's frames (note: the frame scroll button functionality cannot be changed).

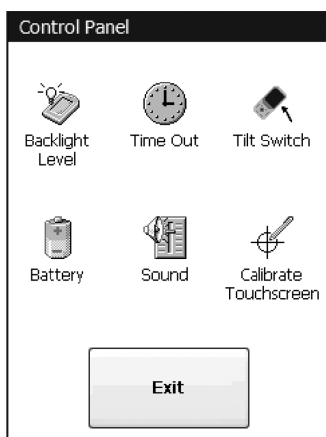


CHAPTER 3 | OPERATION

THE CONTROL PANEL PAGE

The Control Panel page can be displayed by holding down the backlight button for three seconds -or- by first setting the T2-Cs+ power switch to the off position, and then pressing and holding the Home button while sliding the power switch to the *On* position. You can also access the Control Panel page by assigning a "Control Panel" page link to a button using the Integration Designer™ software.

To return to the user program, either press Exit or the Home button.

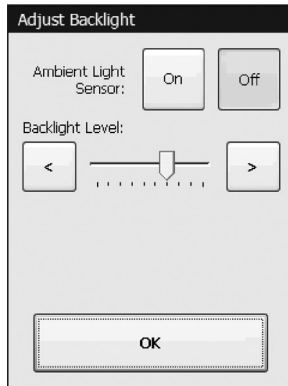


CHAPTER 3 | OPERATION

BACKLIGHT LEVEL

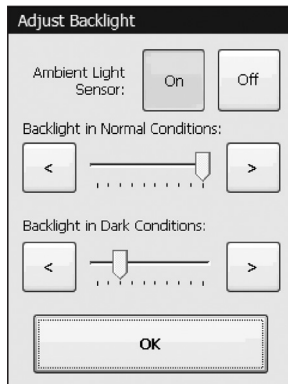
This button displays a window that allows you to adjust the backlight brightness and enable/disable the Ambient Light Sensor.

If the light sensor is disabled, there is only one backlight level to adjust. Press the left arrow or right arrow buttons to adjust. With the light sensor disabled, the backlight brightness will always stay at the same level whenever the T2-Cs+ is turned-on. Press the OK button when finished.



If the light sensor is enabled, there are two backlight levels to adjust. Press the left arrow or right arrow buttons to adjust. Press the OK button when finished.

With the light sensor enabled, the backlight brightness will automatically change between the two levels, depending upon the ambient lighting conditions.



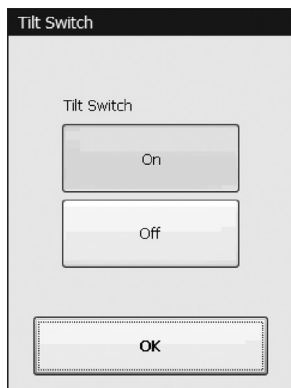
CHAPTER 3 | OPERATION

TILT SWITCH

This button displays a window that allows you to adjust the settings for the built-in tilt sensor. The tilt switch is a motion detector that turns the remote on when activated. Press the OK button when finished.

On means the tilt switch is active and will wake-up the T2-Cs+ when it is moved.

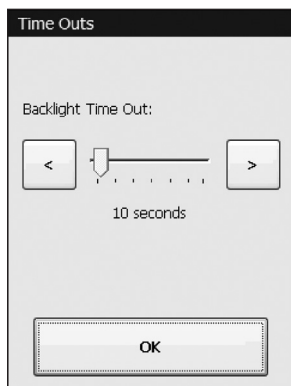
Off means the tilt switch is inactive.



TIME OUT

This button displays a window that allows you to adjust the amount of time the unit stays awake after the last button press. The time is variable from 1 second to 120 seconds (the default is 10 seconds). Press the arrows to the left or right of the Time Out setting to adjust the time. Press the OK button when finished.

Note: This setting can have a significant effect on the run-time of the T2-Cs+ between battery charges. During Sleep mode, the T2-Cs+ uses virtually no battery power.



CHAPTER 3 | OPERATION

BATTERY

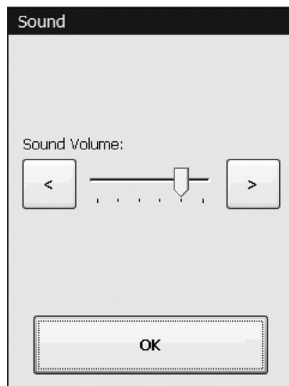
This button displays a window that allows you to adjust the relative amount of time that the low battery icon appears on the display.

This setting will determine how much time you have between the appearance of the low battery warning and the battery becoming completely depleted. The default warning time is Medium. Depending upon the age of the battery and your daily usage habits, it may be beneficial to adjust this time. Press the OK button when finished.



SOUND

This button displays a window that allows you to adjust the volume of the audible speaker. The speaker sound provides feedback that a button was pressed. Press the arrows to the left or right to adjust the volume. Press the OK button when finished. There are six discrete volume settings. The lowest setting disables the speaker.



CHAPTER 3 | OPERATION

CALIBRATE TOUCHSCREEN

This button runs a routine that allows you to calibrate the touchscreen. Since it normally should not be necessary to calibrate the touchscreen, this routine is included as a precaution only.

Press the Calibrate button to continue.

Follow the directions on the display to complete the calibration process.



WARNING!

DO NOT ATTEMPT TO CALIBRATE THE TOUCHSCREEN WITH YOUR FINGERTIP. PROPER CALIBRATION REQUIRES A STYLUS OR OTHER FINE TIP. DO NOT USE METAL OBJECTS SUCH AS BALL POINT PENS OR SCREWDRIVERS THAT CAN DAMAGE THE SURFACE OF THE TOUCHSCREEN.

CHAPTER 4 | SPECIFICATIONS

Power	3.6 VDC, 1200mAh Lithium-Ion Battery Pack
Power Management	Automatic On/Off (tilt switch)
Infrared Control Range	30 feet (9.1 meters) @ 60 degrees
Infrared Frequency Transmission Range	15 kHz - 460 kHz
Radio Frequency Control Range	Up to 100 feet (30.5 meters) with optional System Interfaces/Processors
Radio Frequency Carrier	802.15.4 @ 2.4 GHz (Zigbee® Wireless Mesh Networking) and 433MHz
Operating Temperature	+32° F to +122° F (0° C to +50° C)
Operating Humidity	5% to 95% Non-condensing
Touchscreen Display	High-brightness color TFT LCD 1/4 VGA (240x320 pixels) with 65K colors Integrated high-resolution touchscreen
Display Size	2.4 in (61mm) diagonal
Backlights	White LED (display), Blue/Red/White LED (keypad)
Nominal Run Time on Full Charge	2.5 hours minimum, continuous use (5 to 7 days on average use)
Standby Time on Full Charge	30 days
Battery Charge Time	3 to 4 hours
Total System Memory	128MB Flash (non-volatile) memory
Device Capability	Total number of devices is limited only by memory
Macro Capability	Unlimited steps in a single macro Total number of macros is limited only by memory Macro capability on every button
Communications	USB 2.0 programming port
Dimensions (L x W x D)	9.75 in (248mm) x 2.5 in (64mm) x 1.0 in (25mm)
Enclosure	High-impact molded ABS plastic
Weight	9 oz. (255g) with battery pack
Warranty	One Year (Parts & Labor) / 90 days on battery

All specifications subject to change without notice.

CHAPTER 5 | TROUBLESHOOTING

If you are having problems with your T2-Cs+ Universal System Controller, please read the information below before contacting technical support.

If you continue to have problems, see Chapter 6 for more information on contacting RTI technical support.

DISPLAY IS DIM, BLANK OR UNREADABLE

- Make sure the battery pack connector is attached properly and the battery is charged.
- Try adjusting the backlight level from the Control Panel page (Refer to Chapter 3 for more details). By nature, the contrast of an LCD screen changes with temperature, so if the remote is cold the display will be dark and will return to normal as it warms.

USB COMMUNICATIONS PROBLEMS

- Verify that your PC is running Windows XP® or higher.
- Verify the remote control in your Integration Designer system file is a T2-Cs+. A T2-Cs program will not download to a T2-Cs+. There is a conversion process in the programming software however.
- Make sure you are using a USB 2.0 compliant programming cable and that both ends are connected securely.
- Verify that the T2-Cs+ USB driver was installed the first time the T2-Cs+ was connected to your PC.
- Verify that the T2-Cs+ is present in the Device Manager within the Windows® Control Panel.
- Reset power on the T2-Cs+ and try plugging it in again.
- Make sure the PC detects the presence of the T2-Cs+. If it doesn't, unplug the USB cable, wait for about ten seconds, and plug it in again.
- If the download fails after some data has been transferred, try re-sending the program.

IR CODE PROBLEMS

- If you are using an IR repeater system, make sure it is working correctly with the original OEM remote. If not, you will need to troubleshoot the IR repeater system.
- If you are still having problems, try adjusting the IR code "Minimum Repeats" value in the *Integration Designer*® programming software.
- If the IR code is executed inside a macro that contains multiple IR codes, try inserting a small time delay before the problem code. If there already is a delay, try increasing it.

CHAPTER 6 | SERVICE AND SUPPORT

For news about the latest updates, new product information, and new accessories, please visit our web site at:

www.rticorp.com

CONTACTING RTI

For general info, you can contact RTI at:

Tel. (952) 253-3100

Fax (952) 253-3131

info@rticorp.com

RTI TECHNICAL SUPPORT

At RTI, customer service and satisfaction is an utmost priority. If you are encountering any problems or have a question about your RTI product, please contact RTI Technical Support for assistance.

RTI provides technical support by telephone, fax or e-mail. For the highest quality service, please have the following information ready, or provide it in your fax or e-mail.

- Your Name
- Company Name
- Telephone Number
- E-mail Address
- Product model and serial number (if applicable)

If you are having a problem with hardware, please note the equipment in your system, a description of the problem, and any troubleshooting you have already tried.

If you are having a problem with software, please note what version you have installed, the operating system on your PC, a description of the problem, and any troubleshooting you have already tried.

If you are calling about a software or programming question or problem, please be at your computer when you place your call. This will considerably speed up the troubleshooting process.

For technical support or assistance with your T2-Cs+, software, or accessories, contact RTI at:

(952) 253-3137

support@rticorp.com

www.rticorp.com

For questions regarding service or repair of your T2-Cs+, contact RTI at:

(952) 253-3136

service@rticorp.com

www.rticorp.com

Please do not return products to RTI without return authorization.

CHAPTER 6 | SERVICE AND SUPPORT

Shipment of T2-Cs+ for Service

RTI will pay all labor and material expenses for all repairs covered by this product's warranty. If necessary repairs are not covered by warranty, or if a unit is examined which is not in need of repair, you may be charged for the repairs or examination.

If it is necessary to ship the T2-Cs+ Universal System Controller for service:

- Please pack it securely (we suggest that it be insured).
- Do not include accessories such as power cords or manuals unless instructed to do so.

You must pay any shipping charges incurred in getting your T2-Cs+ Universal System Controller to RTI. RTI will pay reasonable return shipping charges via a carrier of our choice to any destination within the United States if the repairs are covered under warranty.

A copy of the original dated sales receipt must be provided whenever warranty service is required. You will need this receipt to establish the date of purchase.

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It's Under Control®



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