KALEIDO-RCP2

Ethernet Remote Control Panel and KM Gateway

Installation and Operation Manual

www.grassvalley.com

FCC Compliance

In order to comply with FCC/CFR47: Part 15 regulations, it is necessary to use high-quality, triple-screened Media or Monitor cable assemblies with integrated ferrite suppression at both ends.

Patent Information

This product may be protected by one or more patents.

For further information, please visit: www.grassvalley.com/patents/

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Title	KALEIDO-RCP2 Installation and Operation Manual
Part Number	M735-9902-105
Revision	2022-12-19, 08:13

Document History

See the Release Notes for more information about the features added to this product.

Document Number	Publication Date	Notes
M735-9902-105	2016-07-07	Initial release.
M735-9902-105	2022-12-18	Update to new layout.

Electrostatic Discharge (ESD) Protection

Electrostatic discharge occurs when electronic components are improperly handled and can result in intermittent failure or complete damage adversely affecting an electrical circuit. When you remove and replace any card from a frame always follow ESD-prevention procedures:

- Ensure that the frame is electrically connected to earth ground through the power cord or any other means if available.
- Wear an ESD wrist strap ensuring that it makes good skin contact. Connect the grounding clip to an *unpainted surface* of the chassis frame to safely ground unwanted ESD voltages. If no wrist strap is available, ground yourself by touching the *unpainted* metal part of the chassis.
- For safety, periodically check the resistance value of the antistatic strap, which should be between 1 and 10 megohms.
- When temporarily storing a card make sure it is placed in an ESD bag.
- Cards in an earth grounded metal frame or casing do not require any special ESD protection.

Protection contre les décharges électrostatiques (DES)

Une décharge électrostatique peut se produire lorsque des composants électroniques ne sont pas manipulés de manière adéquate, ce qui peut entraîner des défaillances intermittentes ou endommager irrémédiablement un circuit électrique. Au moment de remplacer une carte dans un châssis, prenez toujours les mesures de protection antistatique appropriées :

- Assurez-vous que le châssis est relié électriquement à la terre par le cordon d'alimentation ou tout autre moyen disponible.
- Portez un bracelet antistatique et assurez-vous qu'il est bien en contact avec la peau. Connectez la pince de masse à une *surface non peinte* du châssis pour détourner à la terre toute tension électrostatique indésirable. En l'absence de bracelet antistatique, déchargez l'électricité statique de votre corps en touchant une surface métallique *non peinte* du châssis.
- Pour plus de sécurité, vérifiez périodiquement la valeur de résistance du bracelet antistatique. Elle doit se situer entre 1 et 10 mégohms.
- Si vous devez mettre une carte de côté, assurez-vous de la ranger dans un sac protecteur antistatique.
- Les cartes qui sont reliées à un châssis ou boîtier métallique mis à la terre ne nécessitent pas de protection antistatique spéciale.

Environmental Information

European (CE) WEEE directive.

This symbol on the product(s) means that at the end of life disposal it should not be mixed with general waste.

Visit www.grassvalley.com for recycling information.

Grass Valley believes this environmental information to be correct but cannot guarantee its completeness or accuracy since it is based on data received from sources outside our company. All specifications are subject to change without notice.

If you have questions about Grass Valley environmental and social involvement (WEEE, RoHS, REACH, etc.), please contact us at environment@grassvalley.com.

Laser Safety - Fiber Output SFP and QSFP Modules Warning

LASER SAFETY

CLASS 1 LASER PRODUCT

The average optical output power does not exceed 0 dBm (1mW) under normal operating conditions. Unused optical outputs should be covered to prevent direct exposure to the laser beam.

Even though the power of these lasers is low, the beam should be treated with caution and common sense because it is intense and concentrated. Laser radiation can cause irreversible and permanent damage of eyesight. Please read the following guidelines carefully:

- Make sure that a fiber is connected to the board's fiber outputs before power is applied. If a fiber cable (e.g. patchcord) is already connected to an output, make sure that the cable's other end is connected, too, before powering up the board.

- **Do not** look in the end of a fiber to see if light is coming out. The laser wavelengths being used are totally invisible to the human eye and can cause permanent damage. Always use optical instrumentation, such as an optical power meter, to verify light output.

Safety and EMC Standards

This equipment complies with the following standards:

Safety Standards

C E

Information Technology Equipment - Safety Part 1

EN60950-1: 2006

Safety of Information Technology Equipment Including Electrical Business Equipment.

UL1419 (4th Edition)

Standard for Safety – Professional Video and Audio equipment (UL file number E193966)

EMC Standards

This unit conforms to the following standards:

EN55032:2015 (Class A)

Electromagnetic Compatibility of multimedia equipment - Emission requirements

EN61000-3-2:2014 (Class A)

Electromagnetic Compatibility - Limits for harmonic current emissions

EN61000-3-3:2013

Electromagnetic Compatibility - Limits of voltage changes, voltage fluctuations and flicker

EN55103-2:2009 (Environment E2)

Electromagnetic Compatibility, Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use. Part 2. Immunity

> WARNING
> This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.

FCC / CFR 47:Part 15 (Class A)

Federal Communications Commission Rules Part 15, Subpart B

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

Note:	This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.
	This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.
	Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

EMC Performance of Cables and Connectors

Grass Valley products are designed to meet or exceed the requirements of the appropriate European EMC standards. In order to achieve this performance in real installations it is essential to use cables and connectors with good EMC characteristics.

All signal connections (including remote control connections) shall be made with screened cables terminated in connectors having a metal shell. The cable screen shall have a large-area contact with the metal shell.

SIGNAL/DATA PORTS

For unconnected signal/data ports on the unit, fit shielding covers. For example, fit EMI blanking covers to SFP+ type ports; and fit 75 Ω RF terminators to HD-BNC type ports.

COAXIAL CABLES

Coaxial cables connections (particularly serial digital video connections) shall be made with high-quality double-screened coaxial cables such as Belden 8281 or BBC type PSF1/2M, Belden 1694A (for 3Gbps), and Belden 4794A (for 12Gbps).

Notices

1

Kaleido-RCP2

The Kaleido-RCP2 is a compact control panel for the Kaleido multiviewers. Featuring direct key control for the most common commands, it provides easy multi-room, multi-operator control over Ethernet, with local connections for a mouse and a keyboard.

Description

The Kaleido-RCP2 is a compact, freestanding controller. All operating controls are located on the top of the unit. It requires only a single Ethernet cable for both connectivity and power. It also provides two USB ports allowing a USB mouse and one standard keyboard or numeric keypad to be connected.

- **Note**: Multi-function keyboards or numeric keypads that have a built-in USB hub do not work when connected to the Kaleido-RCP2. No other device than a mouse, a numeric keypad without USB hub, a keyboard without USB hub or special function keys can be connected to the Kaleido-RCP2.

When logged on to a Kaleido multiviewer via the Kaleido-RCP2's Ethernet connection, you can control various operating features of the multiviewer.

Connections

The Kaleido-RCP2 is equipped with three connectors, located on the inside rear supports of the case.

Ethernet / Power Port

The power for the Kaleido-RCP2 arrives on an RJ-45 connector, and shares this connector with an Ethernet interface. The Kaleido-RCP2 conforms to the IEEE 802.3af standard for powered devices.

Ethernet/power port
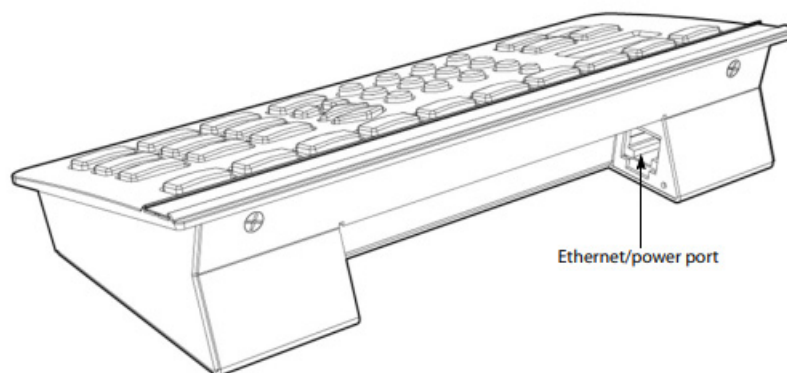
Two kinds of power sources are supported:

- midspan power source injector into an existing Ethernet network, and
- power sourcing Ethernet switch.

Full redundancy is obtained with both supplies present at the same time.

Ethernet connectivity is 10/100 Mbps.

2 USB Ports

These ports are used to connect a mouse and keyboard, which may be used in operating the multiviewer.
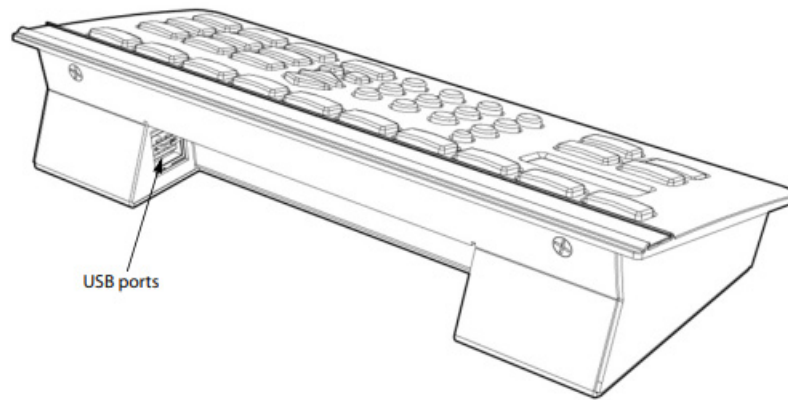
- **Note**: Other USB devices (e.g. memory sticks) are not supported.

Control Surface Layout

The operating controls are laid out in functional groups:

Layout Presets

The ten numbered keys laid out across the top of the panel are used to recall saved layouts to the monitor wall, and are also used to save layout.

- Pressing and holding one of the preset buttons for 8 seconds will store the current layout to that button, allowing the user to easily return to it later.
- The layout associated with each button can be configured beforehand in XEdit.

You can insert a labeled strip into the built-in slot located above the keys to identify the saved layouts.

Functions

These function keys activate operating modes or functions on the multiviewer.

CHANNEL	FULL SCREEN	ALARM INHIBIT
ASPECT RATIO	SAFE AREA	UNDERSCAN
LOAD	SAVE	UNLATCH STATUS
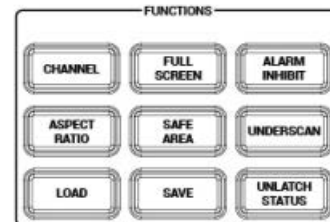
- **Note**: The exact functionality of these buttons is determined by the configuration of the Kaleido system.

## Audio

UP ARROW	Increase the audio monitoring volume
DOWN ARROW	Decrease the audio monitoring volume
MUTE	Mute the audio monitoring (push on/push off)
-20dB	Attenuate the audio monitoring gain by 20dB (push on/push off)
AUDIO MONITORING	Audio source selection

Keypad

The keypad buttons have double functions. Use the MOUSE LOCK button (top left) to switch between the two modes:

Numeric	All buttons at low brightness, alpha-numeric function as printed on each button is enabled.
Mouse	Numeric function disabled, and some keys are assigned mouse-equivalent functions. The MOUSE LOCK button and the mouse-function keys are bright.
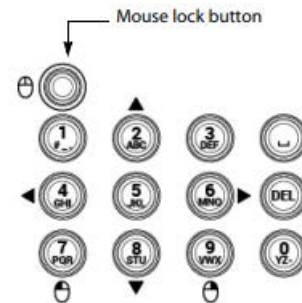
Number key	Mouse-equivalent function
2	Pointer up
8	Pointer down
4	Pointer left
6	Pointer right
7	Click
9	Right-click

Display and Operating Keys

The LCD display shows messages and text entries. The operating keys let you connect to a Kaleido system, navigate menus, and control the behavior of your Kaleido-RCP2's functions.

LOGIN	Log on to a multiviewer system through the Ethernet interface
ESC	Menu navigation
ENTER	Menu navigation
PANEL ENABLE	Enable/disable all other keys on this control panel, to prevent accidental operation

- **Note**: To reset the control panel, simultaneously press ESC, ENTER, and DEL.

Configuration

Before you can use your Kaleido-RCP2 to operate your Kaleido system, you must set up the Ethernet connection between the two devices.

- **Note**: The Kaleido-RCP2 is powered through the RJ-45 Ethernet connector. There is no power ON/OFF button, so the device is ON when a powered Ethernet cable is connected.

Ethernet Configuration

By default, the Kaleido-RCP2 is shipped with DHCP enabled, so it will automatically be assigned an IP address by a DHCP server.

- If no DHCP server can be found, the Kaleido-RCP2 will default to its static IP address.
- The time-out period before the Kaleido-RCP2 defaults to its static address is about 1 minute. To speed up the initialization, disable the DHCP option.
- The default static IP address is 10.0.3.191, but this can be changed.
- If you need to operate with a fixed IP address, you must use the Configuration menu to disable DHCP and set up the correct IP address, Network Mask and Gateway.
- To access Kaleido rooms located in other subnets, the Kaleido-RCP2 must be configured with the appropriate unicast IP addresses.

Room Selection

Before you can use your Kaleido-RCP2 to operate a Kaleido multiviewer system, you must select the room in which to operate. Use the **Configuration** menu to access the list of available rooms and select the one you wish to control. See Selecting a Room on page 6 for details.

- **Note**: To log on to a room that is part of a Kaleido system configured in a different subnet, the Kaleido-RCP2 must be configured with the appropriate unicast IP addresses.

Configuration Menu

Resources for setting up the Kaleido-RCP2 to operate multiviewers are available through the Kaleido-RCP2's **Configuration** menu. The current menu selection is shown on the LCD display. To access the menu press and hold the ENTER button until the ESC button lights up, and then use the keys to navigate, as indicated below.

2	Move up
8	Move down
ENTER	Access the submenu, or select the displayed value
ESC	Go back to the previous menu level, or cancel a value selection

- **Note**: These keys are lit when menu access is enabled.
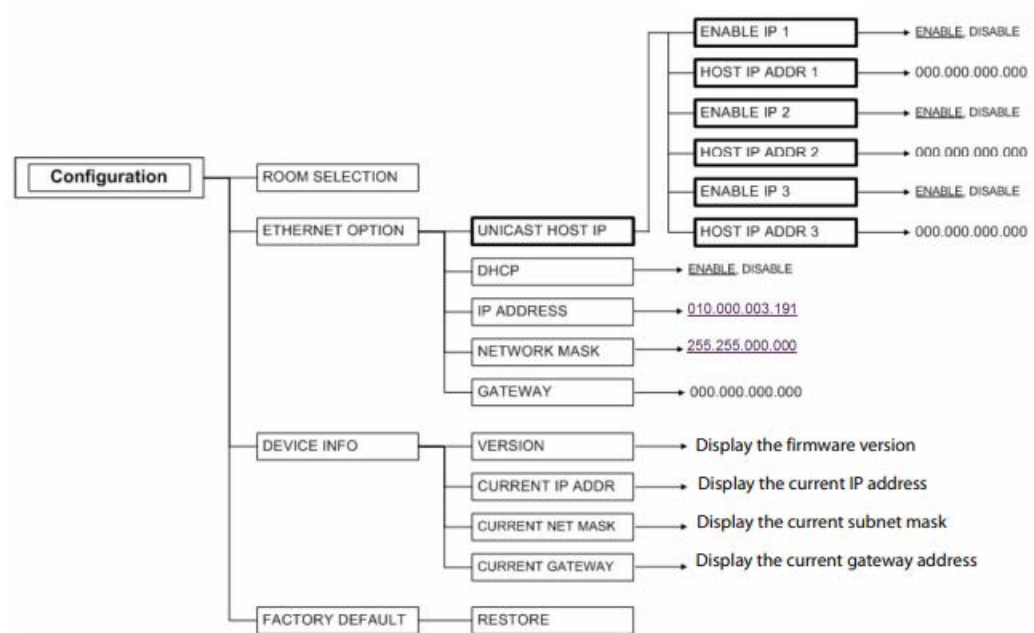
Kaleido-RCP2 Configuration menu summary

Selecting a Room

Use the **Configuration** menu to select the room you wish to access with your KaleidoRCP2—the *ON AIR* room, for example. Once you select the room, you can log on as a specific user, corresponding to one of the login positions that are available for this room only. In the example described below, the three rooms that are available, are listed in this sequence: RMA, RMB, RMC. We will select room RMC.

Action	LCD indication	Other buttons
Press and hold the ENTER button until the ESC button lights up to access the **Configuration** menu,	**Configuration ROOM SELECTION**	Digit keys 2 (UP) and 8 (DOWN), and the ENTER and ESC buttons are lit; other digit keys are dimmed
Press ENTER again to obtain the list of rooms from all Kaleido systems currently available on the network.	For some time until the list is received: **Acquiring room list...** Once the room list is received: **ROOM Select RMA**	
Press the 8 key twice, until the room you wish to select (i.e. RMC) appears on the display. (Press 2 to scroll in the opposite direction.)	**ROOM Select RMC**	
Once the display shows the desired room name, you can: • press ENTER to select this room • press ESC to cancel the selection and return to the previous menu level in the menu.	**Configuration ROOM SELECTION**	Digit keys 2 (UP) and 8 (DOWN), and the ENTER and ESC buttons are lit; other digit keys are dimmed.
Press ESC to exit the **Configuration** menu.	**RMC**	All buttons are dimmed.

Enabling or Disabling DHCP

The following table shows how to enable or disable the automatic allocation of an IP address from a server. This option is commonly called DHCP (the protocol that is used for

address allocation). In our example, we suppose that the DHCP option is enabled, and must be disabled. This task is performed by using the **Configuration** menu.

Action	LCD indication	Other buttons
Press and hold the ENTER button until the ESC button lights up to access the **Configuration** menu.	**Configuration** ROOM SELECTION	Digit keys 2 (UP) and 8 (DOWN), and the ENTER and ESC buttons are lit; other digit keys are dimmed
Press 8 once to go to the **ETHERNET OPTIONS** submenu.	**Configuration** ETHERNET OPTION	
Press ENTER to open the Ethernet parameter menu.	**ETHERNET OPTIONS** DHCP	
Press ENTER again to see the current DHCP status.	**DHCP** ENABLE	
Press 8 to go to the DISABLE option (Press 2 to go back to the previous selection.)	**DHCP** DISABLE	
Press ENTER to select this option, or press ESC to cancel. In either case, you will return to the previous menu level.	**ETHERNET OPTIONS** DHCP	
Press ESC twice to exit the **Configuration** menu. **Note**: If you changed the DHCP parameter, the Kaleido-RCP2 unit will reboot.	**RMC**	All buttons are dimmed.

When you change the DHCP mode, the device must be restarted for the new option to take effect. This is done automatically but only after you exit the Configuration menu. You can make other changes using the Configuration menu, and only exit, once you are done with the changes.

Setting an IP Address, Subnet Mask and Gateway

The table below shows how to set a fixed IP address for a Kaleido-RCP2 unit. As an example, the IP address will be changed from 10.0.3.191 to 192.168.0.10. This task is performed by using the **Configuration** menu.

- **Note**: The method is the same for the Subnet Mask and Gateway menus.

Action	LCD indication	Other buttons
Press and hold the ENTER button until the ESC button lights up to access the **Configuration** menu.	**Configuration ROOM SELECTION**	Digit keys 2 (UP) and 8 (DOWN), and the ENTER and ESC buttons are lit; other digit keys are dimmed
Press 8 once to go to the **ETHERNET OPTIONS** submenu.	**Configuration ETHERNET OPTION**	
Press ENTER to open the Ethernet parameter menu.	**ETHERNET OPTIONS DHCP**	
Press 8 to go to the next option in the menu (Press 2 to return to the previous option.)	**ETHERNET OPTIONS IP ADDRESS**	
Press ENTER again to select this option and display the current IP address. You can move the cursor to the next digit position by pressing the space key. Use the DEL key to move the cursor back to the previous position.	**IP ADDRESS 010.000.003.191** The cursor blinks, alternating between a black square and the digit.	All digit keys are lit as well as the ENTER, ESC, DEL and space key.
Use the digit keys to change the current value. Once you pressed a digit key, the cursor moves to the next position.	**IP ADDRESS 192.168.000.010** The cursor blinks, alternating between a black square and the digit.	
When done, press ENTER to confirm the address, or ESC to cancel the change and go back to the previous menu level.	**ETHERNET OPTIONS IP ADDRESS**	All buttons are dimmed.
Press ESC twice to exit the **Configuration** menu. **Note**: If you changed any of the network parameters (IP address, subnet mask or gateway), the Kaleido-RCP2 unit will reboot.	**RMC (the current room)**	

When you change the DHCP mode, the device must be restarted for the new option to take effect. This is done automatically but only after you exit the Configuration menu. You can

make other changes using the **Configuration** menu, and only exit, once you are done with the changes.

Configuring Unicast IP Addresses

The unicast IP feature enables a Kaleido-RCP2 to find up to three Kaleido systems on different subnets and connect to them (via network gateways), while maintaining connections to Kaleido systems in its own subnet.

Notes:

• To navigate the Kaleido-RCP2 menu, press the 2 key to move up, or the 8 key to move down.

• There is no need to configure unicast IP addresses for Kaleido systems on the same subnet as the Kaleido-RCP2.

To configure a unicast IP address on the Kaleido-RCP2, do the following:

1 Press and hold the ENTER button until the ESC button lights up to access the **Configuration** menu.

2 Select **ETHERNET OPTIONS** on the LCD display, and then press ENTER.

3 Select **Unicast host IP**, and then press ENTER.

4 Select **Enable IP 1**, and then press ENTER.

The *Enable IP n* parameter instructs the Kaleido-RCP2 to query the Kaleido system at the selected IP address for a list of rooms.

5 Select **Host IP ADDR**, and then press ENTER.

6 Using the numeric keypad, type the IP address of a Kaleido system on a remote subnet, and then press ENTER.

7 Repeat step 4 to step 6 to add unicast IP addresses for up to three remote Kaleido systems.

Restoring Default Parameters

The Kaleido-RCP2's Configuration menu provides an option to restore the device's default parameters. This option is called FACTORY DEFAULT.

Select this option to revert the following elements to their default values:

• The network parameters.

• The room selection.

• The login position.

Once you exit the Configuration menu, the device will restart.

Here are the default parameter values:

DHCP	Enable
IP address	10.0.3.191
Subnet mask	255.255.0.0
Gateway	0.0.0.0
Unicast IP addresses	All three host IP address parameters set to 10.0.3.70 and disabled by default

In addition, the current room and login position are erased from the Kaleido-RCP2 memory.

| Action	LCD indication	Other buttons
Press and hold the ENTER button until the ESC button lights up to access the **Configuration** menu.	**Configuration** **ROOM SELECTION**	Digit keys 2 (UP) and 8 (DOWN), and the ENTER and ESC buttons are lit; other digit keys are dimmed
Press 8 three times to go to the **FACTORY DEFAULT** submenu.	**Configuration** **FACTORY DEFAULT**	
Press ENTER to open the FACTORY DEFAULT submenu.	**FACTORY DEFAULT** **RESTORE**	
Press ENTER to select the RESTORE option, or press ESC to return to the previous menu level without restoring the factory values.		
Press ENTER again to restore the factory defaults.	**Configuration** **FACTORY DEFAULT**	
Press ESC once to reboot the Kaleido-RCP2.	The LCD screen is blank after reboot.	All buttons are dimmed.

Updating the Kaleido-RCP2 Firmware

Firmware updates for the Kaleido-RCP2 are issued occasionally, usually with the release of a new version of the Kaleido-X Software. The firmware update package, including the

Kaleido-RCP2 Updater utility, is available on the Kaleido-X Upgrade DVD, and from the *Downloads* section of Grass Valley's website.

To determine if you need to update your Kaleido-RCP2, check its firmware version (refer to the diagram under Configuration Menu), and compare it with the version of the firmware update file indicated under *Software and Firmware*, in the Kaleido-X Release Notes.

The Kaleido-RCP2 firmware can be updated over the Ethernet connection, and this may take as long as 15 minutes to complete. The **Kaleido-RCP2 Updater** window includes step by-step instructions:
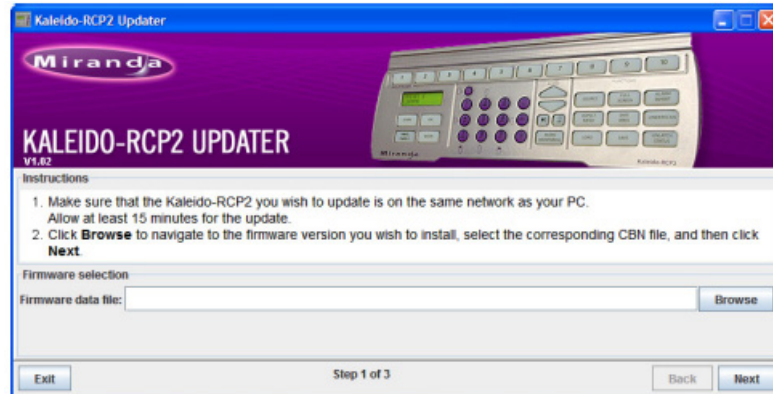

Firmware Selection (Step 1 of 3)

Make sure you fulfill the following conditions before beginning this procedure:

- You have a PC connected to the same subnetwork as your Kaleido-RCP2 unit.
- A copy of the Kaleido-RCP2 Updater utility is on the PC.
- A copy of the Kaleido-RCP2 firmware update file is on the PC.

To prepare the firmware update:

1   Open the Kaleido-RCP2 Updater utility from a PC located on the same network as the Kaleido-RCP2 you wish to update.

2   Type the name of the firmware data file you wish to use to upgrade your RCP2 unit in the **Firmware data file** box. Alternatively, click **Browse** to locate the appropriate file:
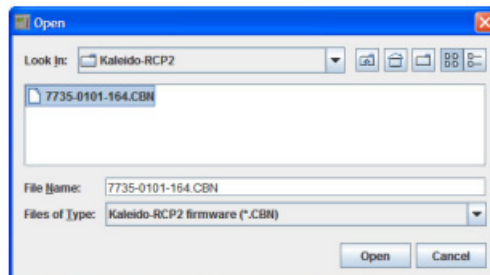
3   Click Next.

The next window includes step-by-step instructions for uploading the data file to the Kaleido-RCP2:
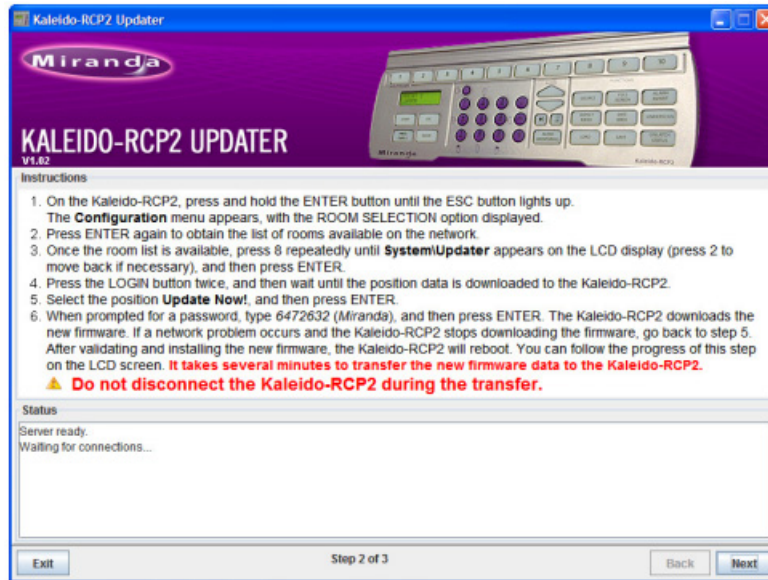
Firmware Update (Step 2 of 3)

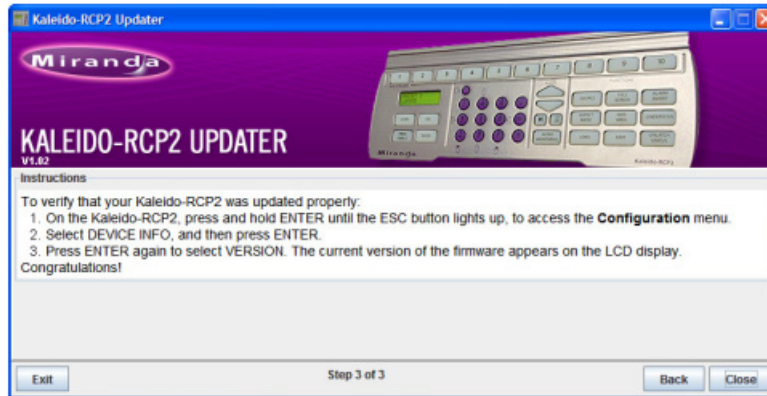To proceed with the firmware update

1 On the Kaleido-RCP2, press and hold the ENTER button until the ESC button lights up to access the **Configuration** menu.

2 Press ENTER to select the first option: ROOM SELECTION, and then wait until the room list is downloaded to the Kaleido-RCP2.

3 Once the room list is available, press 8 repeatedly until [System\Updater] appears on the LCD display (press 2 to move back if necessary), and then press ENTER

4 Press the LOGIN button twice, and then wait until the position data is downloaded to the Kaleido-RCP2.

5 Once the position data is available, select the position *Update Now!*, and press ENTER. The Kaleido-RCP2 prompts you for a password.

6 Type "6472632" (i.e., "Miranda"), and then press ENTER. The Kaleido-RCP2 downloads the new firmware from your PC. Progress information is shown in the **Status** section of the **Kaleido-RCP2 Updater** window on your PC.

   • **Note**: If a network problem occurs and the Kaleido-RCP2 stops downloading the firmware, go back to step 5.

The Kaleido-RCP2 validates the data, copies it into the main memory and then reboots. You can follow the progress of this step on the Kaleido-RCP2 screen.

IMPORTANT

Transferring the new firmware data to the main memory takes several minutes. Do not disconnect the Kaleido-RCP2 while it is updating its firmware, as this may result in a fatal error. In this event, it will be necessary to return the unit to Grass Valley to be reprogrammed.

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7 Once the Kaleido-RCP2 has rebooted following the successful firmware upgrade, click Next in the Kaleido-RCP2 Updater window, on the PC. The final screen includes instructions for verifying that the new firmware is installed and functional:

Verification (step 3 of 3)

To verify that your RCP2 is updated properly:

1 On the Kaleido-RCP2, press and hold ENTER until the ESC button lights up, to access the **Configuration** menu.

2 Select the option DEVICE INFO, and then press ENTER.

3 Select the first option, VERSION, by pressing ENTER again.

The Kaleido-RCP2 displays the currently-installed version of the firmware.

If this number matches the version number in the updater file you selected in the in the first step (see Firmware Selection (Step 1 of 3)), then the update has been successful.

4 In the **Kaleido-RCP2 Updater** window on your PC, click **Close** to exit the updater.

Operation

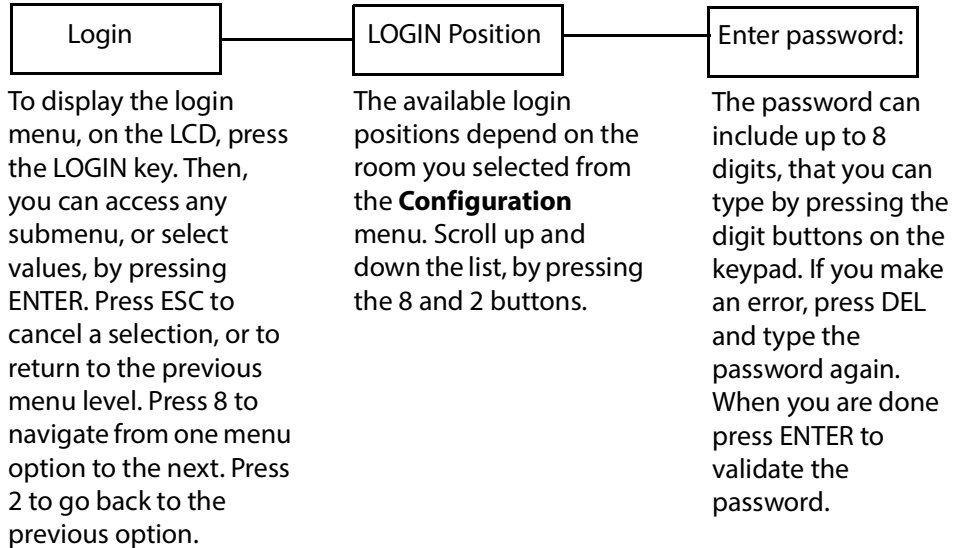Many of the operational functions of the Kaleido-RCP2 are determined by the configuration of the Kaleido operating environment, and are explained in the Kaleido-X User's Manual.

Selecting a Position and Logging On

To use your Kaleido-RCP2, you must validate your access to the Kaleido system. Press the LOGIN key, and select the appropriate position that corresponds to the type of user you are.

You may require a password to log on. A room is supposed to be already set through the configuration menu of the device.

Here is a graphical summary of the login menu as it appears on the Kaleido-RCP2's LCD display:

Login		LOGIN Position		Enter password:

To display the login menu, on the LCD, press the LOGIN key. Then, you can access any submenu, or select values, by pressing ENTER. Press ESC to cancel a selection, or to return to the previous menu level. Press 8 to navigate from one menu option to the next. Press 2 to go back to the previous option.

The available login positions depend on the room you selected from the **Configuration** menu. Scroll up and down the list, by pressing the 8 and 2 buttons.

The password can include up to 8 digits, that you can type by pressing the digit buttons on the keypad. If you make an error, press DEL and type the password again. When you are done press ENTER to validate the password.

The following table shows how to change the login position. As an example, the position will be changed from *TD01* to *TC01*. To accomplish this task, you must have first selected a room (see Selecting a Room).

Action	LCD indication	Other buttons
Press LOGIN.	Until the unit receives the list of login positions from the Kaleido system: **Acquiring login list...**	Lit (depending on the Kaleido system's configuration)
	Once the list of login positions is available: **LOGIN Position** **[first list item]**	Digit keys 2 and 8 are lit to indicate that they can be used to scroll the list
	If the list of login position is not available, the following message displays for 3 seconds: **No login list available**	Lit (depending on the Kaleido system's configuration)
	If the Kaleido system is not active, the following message displays for 3 seconds: **Target system is offline**	Dimmed (depending on the Kaleido system's configuration)

Action	LCD indication	Other buttons
Press 8 repeatedly to scroll the list until you reach the position you wish to log on to, and then press ENTER to select the new position.	**Enter password:**	Digit buttons are lit as well as the ENTER and ESC buttons
Type the password using the digit keys (up to 8 digits), and then press ENTER.	**Enter password:** ******** (one asterisk appears for each digit you type)	
	If the password is valid, the following message displays for 2 seconds: **Access granted** and then: **RMC** **TC01**	Dimmed (depending on the Kaleido system's configuration)
	If the password is wrong, the following message displays for 2 seconds: **Access is denied** and then: **RMC** **TC01**	Lit (depending on the Kaleido system's configuration)

Enabling/Disabling the Kaleido-RCP2 User Interface

The PANEL ENABLE button cycles the Kaleido-RCP2 between ENABLE and DISABLE modes.

In the DISABLE mode

- The PANEL ENABLE LED is flashing
- All other keys on the Kaleido-RCP2 are disabled (LEDs off).
- The LCD display is off.
- Any peripherals (e.g. mouse, keyboard) connected to the Kaleido-RCP2's USB ports are also disabled.

The purpose of the panel enable function is to lock the user interface of the remote, thus avoiding any accidental access to the Kaleido system.

Resetting the Kaleido-RCP2

To reset the Kaleido-RCP2

- Press ENTER + ESC + DEL simultaneously to restart the device.
- Disconnect and reconnect the Kaleido-RCP2's Ethernet cable to power cycle the device.
- The device will be reset automatically in case of software or hardware failure of its internal controller.

Specifications

Ethernet port	
Signal	100/10 BASE-T, (IEEE 802.3AF)
Connector	RJ-45 with LED and 48 V power

USB ports	
Signal	1USB 2.0 (for low speed HID devices only, compatible with 1.1)
Connector	2 USB host connectors (mouse and keyboard only)
Dimensions	78 mm × 203 mm × 32 mm (3.5 in × 8 in × 1 in)
Voltage	48 V
Power	5 W Max for RCP2 itself + 5 W Max for USB Devices

Miscellaneous	
Operating temperature range (ambient)	5–40°C (41–104°F)

Contact Us

Grass Valley Technical Support

For details of our Regional Customer Support Offices, please visit the Grass Valley website and navigate to Support.

www.grassvalley.com/support/

Customers with a support contract should call their personalized number, which can be found in their contract, and be ready to provide their contract number and details.

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