SOUND DEVICES


# CL-6 Controller

## User Guide and Technical Information

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The CL-6 Input Expander adds 6 balanced, line-level inputs to the 664. The Input Expander connects to the top or bottom of the 664 (*see Mounting the CL-6*) and includes 6 full-sized fader controls, PFL control, and highpass control, and dedicated L and R routing buttons for Inputs 7-12. The large, back-lit Record and Stop buttons provide convenient access to transport functions. Other features include large, daylight-viewable LED meters (with track arm indicators) for tracks L, R, X1, and X2.

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*This User Guide is a supplement to the 664 User Guide. For full details please refer to the latest 664 User Guide available online at http://www.sounddevices.com/download/guides/664_en.pdf*

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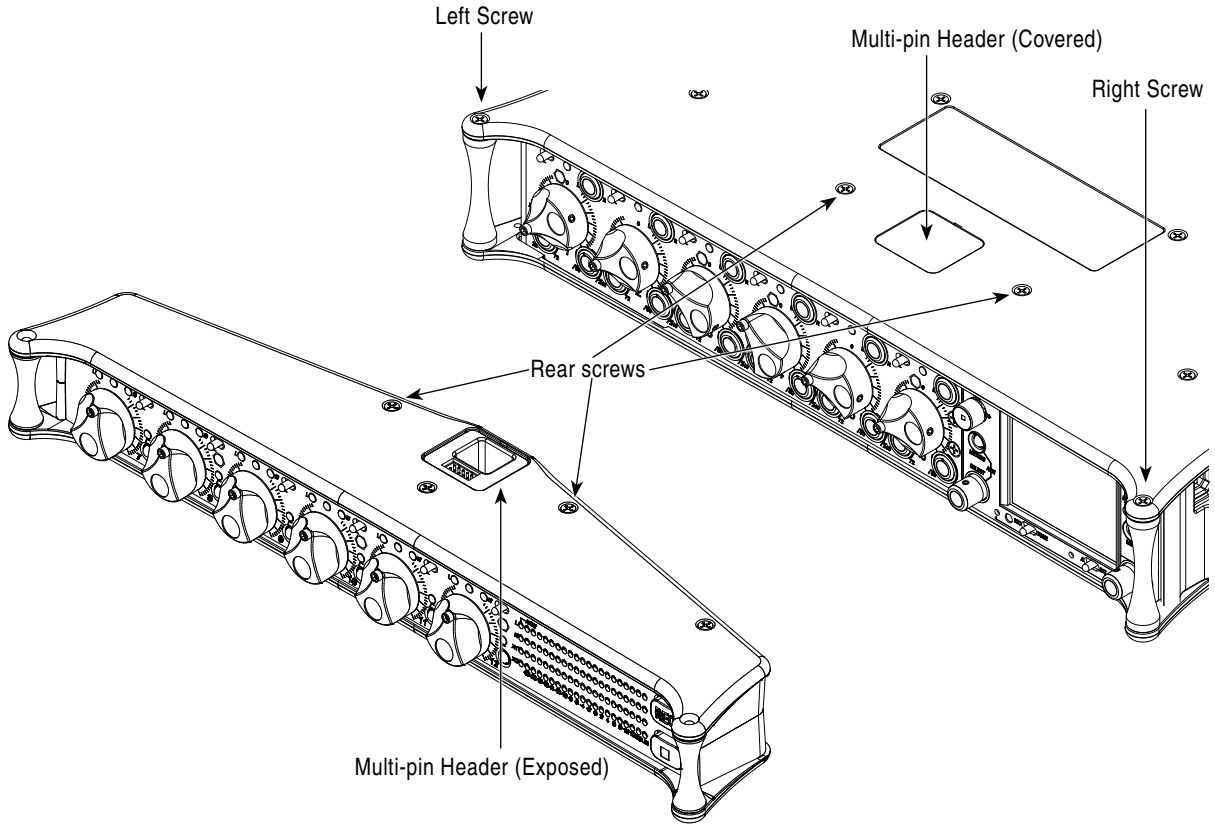
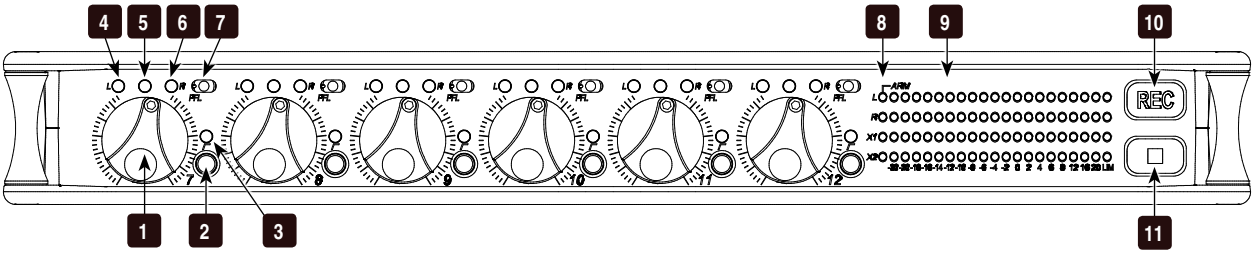
## Mounting the CL-6

The CL-6 Input Expander can be mounted to the top or bottom of the 664. The following installation instructions are the same whether mounting on the top or bottom. Begin by choosing which side the CL-6 will be mounted to and all directions will apply to that side of the 664.

1. Power down the 664.
2. Remove the disposable protective cover from the 664's Header using a small, flat tool (A jeweler's screwdriver works well). The protective cover is attached with adhesive.
3. Similarly, remove the disposable protective cover from the CL-6 Header on the side that will connect to the 664.
4. Using a Philip's head screwdriver, remove one of the rear screws from the CL-6 (see diagram). Either screw can be removed. Remove only one rear screw. This screw will not be used with the CL-6/664 assembly.
5. Using a Philip's head screwdriver, remove the rear screw on the 664 that corresponds with the screw removed in step 3. **The CL-6 can be mounted upside down. Ensure that the screw removed in this step corresponds to the desired orientation.** This screw will not be used with the CL-6/664 assembly.
6. Using a Philip's head screwdriver, remove the left and right screws from the 664 (see diagram). These screws will not be used with the CL-6/664 assembly.
7. Connect the ribbon cable (supplied) to the Header on the 664. Carefully slide the rubber gasket into place where the ribbon cable connects to the 664.
8. With the 664 sitting on a flat, stable surface, hold the CL-6 in hand and connect the other end of the ribbon cable to the header on the CL-6.
9. Insert the excess ribbon cable into the cavity behind the header on the CL-6 while lowering the CL-6 into position. Ensuring that the ribbon cable is fully within the cavity and not pinched between the CL-6 and 664, and that the rubber gasket is positioned properly.
10. Using a philip's head screwdriver, drive the 3 longer screws (supplied) through the CL-6 and into the 664.




## Front Panel Description




1) **Input Fader**
Primary control for adjusting the level of an input during operation. Ranges from off to +15 dB. Nominal setting is in the middle (0 dB).

2) **Highpass Filter Button**
Push to toggle activation of Highpass Filter on the Input.

3) **Highpass Filter LED**
Illuminates blue to indicate Highpass filter is engaged on the Input.

4) **Track L Indicator**
Illuminates Blue when the Input has been routed to Track L.

5) **Input LED**
Indicates input signal activity. Illuminates in various colors and intensities to show signal level and activity. Green = signal presence (pre-fader), yellow = limiter activity (pre- and post-fade), red = signal overload/clipping (pre- and post-fade), flashing yellow = input PFL.

6) **Track R Indicator**
Illuminates Blue when the Input has been routed to Track R.

7) **PFL / Input Select Switch**
Slide left: Pre-Fade Listen. Sends the input's pre-fade signal to HP monitor mono mix. The 664 supports simultaneous PFL of multiple inputs. Does not affect Master Output signal.

Slide the switch left to activate, and again to deactivate. For momentary action, hold the switch left for one second or longer. The Input LED flashes yellow when an input's PFL is active. Slide right: Input Settings. Enters the Input Settings Screen where basic input setup and input-to-output bus routing is performed. See Input Setup and Control.

8) **Bus Track Arm LED's**
Illuminate red to indicate the Track is armed for recording.

9) **LED Bus Track Meters**
Displays levels for L, R, X1, and X2 Tracks.

When the CL-6 is attached, these Track meters are removed from the LCD, which instead displays Inputs 1-12.

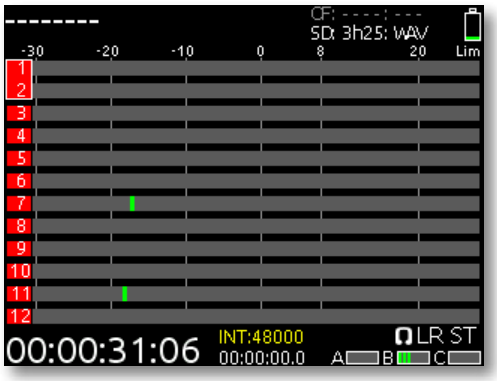
10) **Record Button**
Alternate, backlit Record Button. The Transport Control on the 664 operates normally when the CL-6 is attached. This button provides an additional control point for Record.

11) **Stop Button**
Alternate, backlit Stop Button. The Transport Control on the 664 operates normally when the CL-6 is attached. This button provides an additional control point for Stop.

## Operation

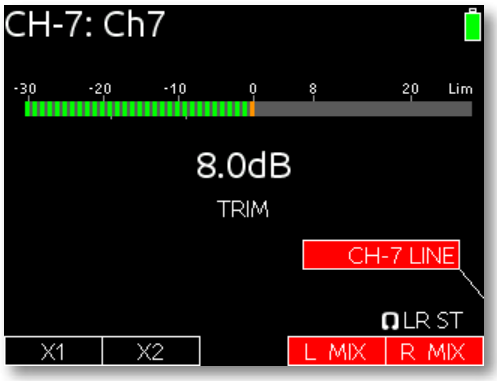
When the CL-6 is connected, the TA3 connections for Direct Inputs 1-6 on the 664 become available for balanced, line-level input. These Inputs are numbered 7-12 respectively. Routing, ISO Track arming, and Fader control all function the same as Inputs 1-6. *see Input Setup and Control*

Bus Track meters (L, R, X1, and X2) are removed from the Main Screen to make room for the meters of Inputs 7-12:



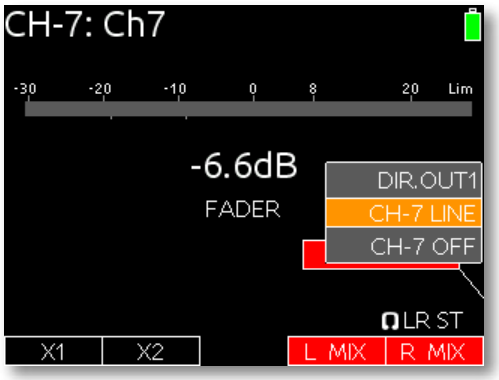

### Trim Levels

To adjust the trim level of Inputs 7-12, slide the Input's Input Select Switch right to access the Input Settings Screen. From the Input Settings Screen, turn the Select Encoder to adjust trim for the Input. The trim gain will be displayed:



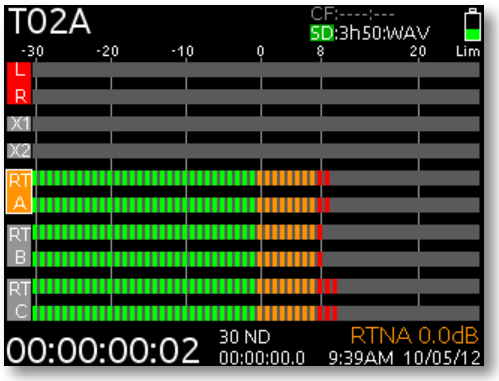
## Direct Outputs 1-6

By default when the CL-6 is connected, the TA3 connections for Inputs 7-12 will function as balanced, line-level inputs. It is possible to switch each connection independently back to a direct output for its respective 1-6 Input. Slide the desired input 7-12 Input Select Switch right to access the Input Settings Screen. Press the Headphone Encoder and turn it to select the **DIR OUT** option.




## Bus Tracks (L, R, X1, and X2)

With Bus Tracks removed from the Main Screen, arming and level adjustments must be made from the RTN Screen. To access the RTN Screen, press the Meters button while viewing the Main Screen.




Turn the Select Encoder to highlight the desired Bus Track. With the desired track highlighted, press the Select Encoder and turn to adjust that track's level. To arm a track, turn the Select Encoder to highlight the track, press and hold the Meters Button, then push the Select Encoder.

## Quick L and R Track routing

To quickly route an input to the L or R Bus track, hold down the Input's Highpass Filter Button, then slide the Input Select Switch left for Track L or right for Track R. The Track L or Track R Indicator LED will illuminate to indicate that the Input is routed to the respective track.

## Highpass Filter

To engage the Highpass Filter, push the Highpass Filter Button for the desired Input. The Highpass Filter LED will illuminate to indicate the filter is activated. Push the Highpass Filter button again to disable the Highpass Filter.

# Specifications

| | |
|---|---|
| **Powering** | Powered by the 664. |
| **Dimensions** | 1.75” x 10.2” x 2.25” (H x W x D) |
| **Weight** | 21.5 oz. |

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## Declaration of Conformity

According to EN ISO/IEC 17050-1:2004

CE

**Manufacturer’s Name:** Sound Devices, LLC

**Manufacturer’s Address:** E7556 State Rd. 23 and 33
Reedsburg, WI 53959
USA

**Declares under sole responsibility that the product as delivered**

**Product Name:** CL-6 Input Expander

**Model Number:** CL-6

**Product Options:** This declaration covers all options of the above products

**complies with the essential requirements of the following applicable European Directives, and carries the CE marking accordingly:**

EMC Directive (2004/108/EC)

EN 55022:2006 + A1:2007

EN 55103-2:2009

**First date of CE approval October 17, 2012.**

**This Declaration of Conformity applies to the above-listed products placed on the EU market after:**

October 17, 2012
Date

Matt Anderson
Director of Engineering

# Warranty and Technical Support

## Warranty & Service

Sound Devices, LLC warrants the CL-6 against defects in materials and workmanship for a period of ONE (1) year from date of original retail purchase. This is a non-transferable warranty that extends only to the original purchaser. Sound Devices, LLC will repair or replace the product at its discretion at no charge. Warranty claims due to severe service conditions will be addressed on an individual basis. THE WARRANTY AND REMEDIES SET FORTH ABOVE ARE EXCLUSIVE. SOUND DEVICES, LLC DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. SOUND DEVICES, LLC IS NOT RESPONSIBLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING FROM ANY BREACH OF WARRANTY OR UNDER ANY OTHER LEGAL THEORY. Because some jurisdictions do not permit the exclusion or limitations set forth above, they may not apply in all cases.

For all service, including warranty repair, please **contact Sound Devices for an RMA** (return merchandise authorization) before sending your unit in for repair. Product returned without an RMA number may experience delays in repair. When sending a unit for repair, please do not include accessories, including SD cards, batteries, power supplies, carry cases, cables, or adapters unless instructed by Sound Devices.

Sound Devices, LLC
Service Repair RMA #XXXXX
E7556 State Rd. 23 and 33
Reedsburg, WI 53959 USA
telephone: (608) 524-0625

## Technical Support / Bug Reports

For technical support and bug reporting on all Sound Devices products contact:

Sound Devices, LLC
E-mail: support@sounddevices.com
web: www.sounddevices.com/contact_support.htm
Telephone: +1 (608) 524-0625 / Toll-Free in the U.S.A.: (800) 505-0625
Fax: +1 (608) 524-0655

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*Sound Devices cannot guarantee that a given computer, software, or operating system configuration can be used satisfactorily with CL-6 generated files based exclusively on the fact that it meets our minimum system requirements. Please check with your software editing application to make certain that it is compatible with the file type selected*

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