LaserLight3™ Large-Display Weight Indicator
Operator Quick Reference Guide

This document describes several commonly used LaserLight3 functions and includes the following sections:

- Annunciators
- Keypad (on page 2)
- Menu Element Overview (on page 3)
- Software Functions (on page 4)
- Indicator Functions (on page 7)

Manuals and additional resources are available from the Rice Lake Weighing Systems website at **www.ricelake.com**
Warranty information can be found on the website at **www.ricelake.com/warranties**

NOTE: For more information, see the LaserLight3 Large-Display Indicator Technical Manual (PN 213589).

Annunciators

The LaserLight3 provides status information about the weight value displayed. The LaserLight3 also has arrows and traffic lights that can be displayed by sending serial commands.

Figure 1. Front Panel Display when Configured in Traffic Mode

Annunciators	Description
Traffic Symbols	Red stop light, red x, green go light, green up arrow, green left arrow, and green right arrow
Weight Value	Displays weighment data
>0< →0←	The center of zero annunciator indicates the current gross weight reading is within ± 0.25 display divisions of the acquired zero, or is within the center of zero band. A display division is the resolution of the displayed weight value, or the smallest incremental increase or decrease which can be displayed or printed
◣◢	The standstill annunciator indicates the weight is at standstill or within the specified motion band. Some operations, including zero, tare and print, can only be done when the standstill annunciator is displayed
GR NT	Displays which weight display mode is active, GR (Gross) or NT (Net)
lb kg oz g tn t	The current unit displays at the right side of the numeric weight area and specifies which unit of measure is being used. Indicates units associated with the displayed value, represents primary and secondary units such as lb, kg, g, oz, tn and t. The units are changed by pressing the Units button

Table 1. Annunciators

NOTE: The layout of annunciators and size of weight digits vary depending on which mode is configured in the Display menu. Legacy mode provides about 3.75-inch weight digits with annunciators along the bottom of the display, intended to support predecessor LaserLight2 display mode. Standard mode provides about 5-inch weight digits with annunciators stacked vertically along the right side.

RICE LAKE
WEIGHING SYSTEMS

Keypad

The keypad, located on the bottom right corner of the unit, allows for easy setup and operation of the LaserLight3. The keypad includes six function keys that operate LaserLight3 menus.

Figure 2. LaserLight3 Keypad

Key	Description	Menu Navigation
ZERO →0←	Sets the current gross weight to zero, provided the amount of weight to be removed is within the specified zero range and the LaserLight3 is not in motion. The zero band by default to 1.9% of full scale, but can be configured for up to 100% of full scale	Moves up to different menu levels
GROSS NET B/N	Switches the display mode from gross to net, or from net to gross. If a tare value has been entered or acquired, the net value is the gross weight minus the tare.	Moves down to different menu levels
TARE	Performs one of several predetermined tare functions dependent on the mode of operation selected in the TARE FN parameter	Enters a menu or parameter and selects/saves parameter settings or values
UNITS	Switches the weight display to an alternate unit. The alternate unit is defined in the *Format* menu	Moves left (horizontally) in a menu level
PRINT ⊙	Sends on-demand print format out the configured port, provided the necessary conditions are met. RS232-1 is the default print port	Moves right (horizontally) in a menu level
MENU ≡	Accesses or exits *Menu* mode	

Table 2. Key Functions

RICE LAKE
W E I G H I N G   S Y S T E M S

Menu Element Overview

LaserLight3 can display up to four lines, preceding and following menus/parameters and parameter configurations. A color scheme indicates the type element in the menu. Figure 3 through Figure 5 displays illustrations with menu elements identified.

Menu with Selectable Item

Figure 3. Selected Item Menu Example

Number	Element	Description
1	Red Font	Red font appears in two scenarios: • In center column to indicate previously selected menus and parameters • On left or right sides to indicate previously available menus, options or parameters
2	Yellow Font	Indicates a selected menu or parameter. Select a menu item with [UNITS] and [PRINT], then press [TARE] to confirm selection
3	White Font	Indicates parameters or menu items that are not selected

Table 3. Selected Item Menu Element Descriptions

Menu and Read Only Message

Figure 4. Read Only Menu Example

Number	Element	Description
1	Red Font	Red font appears in two scenarios: • In center column to indicate previously selected menus and parameters • On left or right sides to indicate previously available menus, options or parameters
2	White Font	Indicates a read only message

Table 4. Read Only Menu Element Descriptions

Menu and Text Editable Parameter

Figure 5. Text Editable Menu Example

Number	Element	Description
1	Red Font	Red font appears in two scenarios: • In center column to indicate previously selected menus and parameters • On left or right sides to indicate previously available menus, options or parameters
2	White Font with Blinking Cyan Underline	Indicates a text configured parameter. Move character selection (cyan underline) with [UNITS◄] and [PRINT►] Press [ZERO →0← ▲] and [GROSS NET B/N ▼] to change characters Hold [GROSS NET B/N ▼] to delete a character or hold [ZERO →0← ▲] to insert a 0 character Press [TARE ◄┘] to confirm character configuration and return to the previous menu

Table 5. Text Editable Menu Element Descriptions

Software Functions

This section provides procedures for basic LaserLight3 software functions.

NOTE: Additional functions available if Setup mode is enabled. For more information about Setup Mode see the LaserLight3 Large-Display Indicator Technical Manual (PN 213589).

View Audit Trail Calibration Counter

Select **Calibr** (Calibration Counter) in the Audit menu to view the audit trail calibration counter number.
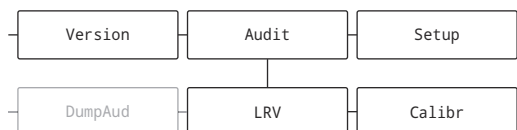
Figure 6. Calibr Parameter Menu Path

The audit trail calibration and configuration counters can be viewed in *Menu* mode.

1. Navigate to **Audit ▼ LRV ► Calibr**.

2. Press [GROSS NET B/N ▼]. The audit trail calibration counter number displays.

3. Press [MENU] to exit the menu.

View Audit Trail Configuration Counter

Select **Config** (Configuration Counter) in the Audit menu to view the audit trail configuration counter number.

Version	Audit	Setup

DumpAud	LRV	Calibr	Config
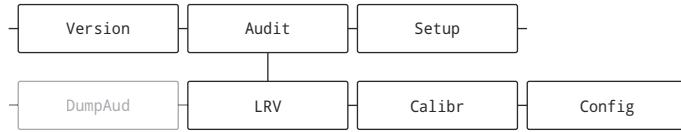
Figure 7. Config Parameter Menu Path

The audit trail calibration and configuration counters can be viewed in *Menu* mode.

1. Navigate to **Audit ▼ LRV ► ... ► Config**.

2. Press (GROSS NET B/N). The audit trail configuration counter number displays.

3. Press (MENU) to exit the menu.

Edit Time Value

Select Time in the top-level menu to edit the time.

Audit	Setup	Setpnt	Accum	Tare	Mac ID	Test	Time

Figure 8. Time Parameter Menu Path

1. Navigate to **Audit ► ... ► Time**.

2. Press (GROSS NET B/N) to set the time.

3. To edit the time value:

   • Press (◄ UNITS) and (PRINT ►) to select characters

   • Press (ZERO →0←) and (GROSS NET B/N) to edit the underlined character

4. Press (TARE). OK displays.

5. Press (TARE) then (MENU) to exit the menu.

📝 **NOTE: Time is backed up by the internal battery and is not lost if the main power is interrupted.**

Edit Date Value

Select Date in the top-level menu to edit the date.

Audit	Setup	Setpnt	Accum	Tare

Mac ID	Test	Time	Date
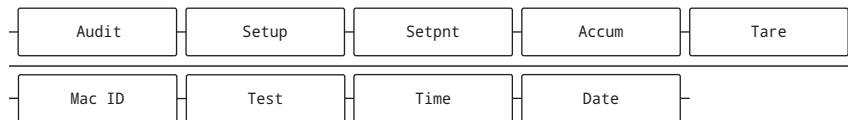
Figure 9. Date Parameter Menu Path

1. Navigate to **Audit ► ... ► Date**.

2. Press (GROSS NET B/N) to view the set the date.

3. To edit the date value:

   • Press (◄ UNITS) and (PRINT ►) to select characters

   • Press (ZERO →0←) and (GROSS NET B/N) to edit the underlined character

4. Press (TARE). OK displays.

5. Press (TARE) then (MENU) to exit the menu.

View Ethernet and Wi-Fi Media Access Control (MAC) IDs

Select MAC ID in the top-level menu to view the Ethernet and Wi-Fi MAC IDs. MAC addresses display in the following format: 88:88:88:88:88:88.
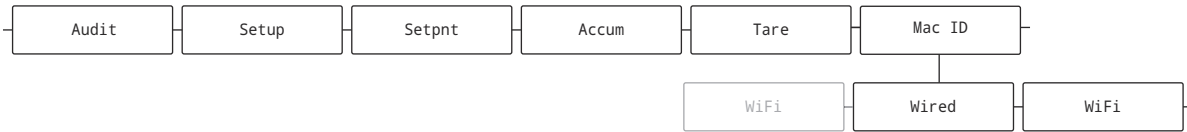
Audit	Setup	Setpnt	Accum	Tare	Mac ID

				WiFi	Wired	WiFi

Figure 10. MAC ID Parameter Menu Path

1. Navigate to **Audit ► ... ► Mac ID**.

2. Press [GROSS NET B/N]. **Wired** displays.

3. Press [TARE]. Ethernet MAC ID displays.

4. Press [TARE]. **WiFi** displays.

5. Press [TARE]. WiFi MAC ID displays (if installed).

6. Press [MENU] to exit the menu.

View Firmware Version

Select Version in the top-level menu to view the current firmware version.

Audit	Setup	Setpnt	Accum	Tare

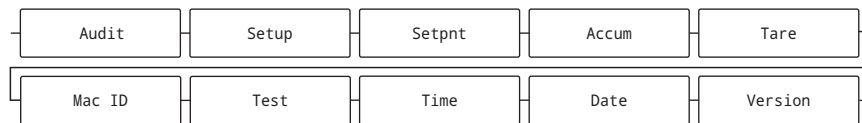| Mac ID	Test	Time	Date	Version

Figure 11. Version Parameter Menu Path

1. Navigate to **Audit ► ... ► Version**.

2. Press [GROSS NET B/N]. The software version number displays.

3. Press [MENU] to exit the menu.

Indicator Functions

This section provides procedures for basic indicator operations.

Zero Scale

1. In *Gross* mode, remove all weight from the scale and wait for the LaserLight3 to display ◣◢.

2. Press (ZERO), →0← displays to indicate the LaserLight3 is zeroed.

📝 **NOTE: The LaserLight3 must be stable and within the configured zero range for it to be zeroed.**

Print Ticket

1. Wait for ◣◢ to display.

2. Press (PRINT) to send data to the configured port(s).

If ◣◢ does not display and (PRINT) is pressed, the print action only occurs if the LaserLight3 comes out of motion within three seconds. If the LaserLight3 stays in motion for over three seconds, the (PRINT) press is ignored.

Toggle Units

Press (UNITS) to toggle between primary and secondary units. The current unit displays.

Toggle Gross/Net Mode

NET mode is available when a tare value has been entered or acquired (Net = Gross minus Tare). If tare has not been entered or acquired, the display remains in *GROSS* mode. GR (GROSS) or NT (NET) is indicated on the right side (in Standard Display Types) or along the bottom (in Legacy Display Type) of the display to indicate the current mode.

Press (GROSS NET B/N) to toggle the display mode between *GROSS* mode and *NET* mode.

Acquire Tare

1. Place a container on the scale and wait for ◣◢ to display.

2. Press (TARE) to acquire the tare weight of the container. The net weight displays and the NT (Net) is indicated on the left side of the display.

Remove Stored Tare Value

1. Remove all weight from the scale and wait for ◣◢ to display. The display shows a negative Net value or 0 Gross value and →0← displays.

📝 **NOTE: Press (ZERO) to zero the scale, if →0← is not displayed.**

2. Press (TARE). Tare is removed and the display changes to *GROSS* mode and GR (Gross) is indicated on the display.

Display a Stored Tare

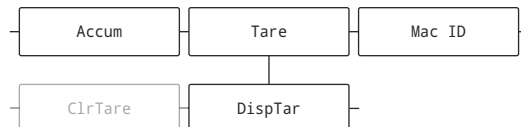Select DispTar (display tare) in the Tare menu to display a stored tare.

```
┌─────────┐   ┌─────────┐   ┌─────────┐
│  Accum  │───│  Tare   │───│ Mac ID  │
└─────────┘   └─────────┘   └─────────┘
              ┌─────────┐   ┌─────────┐
              │ ClrTare │───│ DispTar │
              └─────────┘   └─────────┘
```

Figure 12. DispTar Parameter Menu Path

1. Navigate to **Audit ▶ ... ▶ Tare ▼ DispTar**.

2. Press (GROSS NET B/N). The stored tare value displays.

3. Press (MENU) to exit the menu.

Clear a Stored Tare with Weight on Scale

Select **ClrTare** (Clear Tare) in the Tare menu to clear a stored tare without the weight being at zero.

📝 **NOTE: Press** 〔TARE〕 **while scale is empty to clear a stored tare.**

```
┌─────────┐   ┌─────────┐   ┌─────────┐
│  Accum  │───│  Tare   │───│ Mac ID  │
└─────────┘   └─────────┘   └─────────┘
                   │
┌─────────┐   ┌─────────┐   ┌─────────┐
│ ClrTare │   │ DispTar │   │ ClrTare │
└─────────┘   └─────────┘   └─────────┘
```

Figure 13. ClrTare Parameter Menu Path

1. Navigate to **Audit ▶ ... ▶ Tare ▼ DispTar ▶ ClrTar.**

2. Press 〔GROSS NET B/N〕 or 〔TARE〕 to clear the stored tare value. OK displays.

3. Press 〔MENU〕 to exit the menu.

View Configured Setpoint Values

Select **Setpnt** (Setpoint) in the top-level menu to view setpoint values.

```
┌─────────┐   ┌─────────┐   ┌─────────┐
│  Audit  │───│  Setup  │───│ Setpnt  │
└─────────┘   └─────────┘   └─────────┘
```

Figure 14. Setpnt Parameter Menu Path

1. Navigate to **Audit ▶ ... ▶ Setpnt**.

2. Press 〔GROSS NET B/N〕. The lowest configured setpoint number displays (for example, **Setpnt1**).

3. Press 〔UNITS〕 or 〔PRINT〕 to navigate to the desired setpoint number (1-8).

4. Press 〔GROSS NET B/N〕. The setpoint value displays.

5. Press 〔GROSS NET B/N〕 again to view the current configured setpoint value.

📝 **NOTE: Displayed setpoints are editable by default, since Access defaults to On. Change Access settings if Setpoint value needs to be read only (Access = Off) or hidden (Access = Hidden).**

If access is set to Off, the LaserLight3 does not allow setpoint values to be changed. If access is set to Hidden, the setpoint does not display.

6. Use arrow keys to edit the setpoint.

7. Press 〔TARE〕 to accept the new value.

8. Press 〔MENU〕 to exit the menu.

RICE LAKE
W E I G H I N G   S Y S T E M S