Crestron CLS-C6 Series
iLux® Integrated Lighting System
User Guide

CRESTRON®

Contents

iLux® Integrated Lighting System: CLS-C6 Series

Introduction

The CLS-C6 series of iLux® units are complete, integrated wall-mounted lighting system that can function as standalone devices and/or be part of a Crestron® solution total control system network. The units are intended for installation in boardrooms, auditoriums, home theaters, or anywhere versatile and cost-effective control of lighting and shades is required.

The units are functionally identical, except that certain units include a built-in motion sensor. Refer to the table on the next page for definition of available models. All models are available in three colors: white, black, or almond.

For simplicity in this guide, references to the CLS-C6 unit apply equally to all, except where noted.

Functional Summary

- Automated control of up to six lighting loads: LED*, incandescent, magnetic low-voltage, neon/cold cathode, 2-Wire Dimmable Fluorescent, and non-dimmable lights.
- Automated control of up to 16 shade and drape controllers, in up to six groups, for motorized window treatments, screens, and lifts
- Manual control of individual lighting loads and shade groups
- Versatile operation provides access to up to 16 stored scenes (lighting levels and shade position combinations)
- Built-in motion detector (certain units only) enables automated control based on room occupancy
- Built-in IR receiver allows wireless operation using an optional infrared remote control
- Multipoint control through up to 16 Crestron keypads (sold separately) allows control of rooms with several entrances or work areas
- Multi-unit expansion through support of up to eight additional CLS-C6 units, enables systems of up to 54 lighting channels and 54 shade groups
- Control system integration via two separate control networks; one for local devices and one for connection to a 2-Series control system
- Supports Daylight Harvesting

* For a list of compatible ballasts, visit www.crestron.com/lightingcompatibility.

CLS-C6 Model Definition

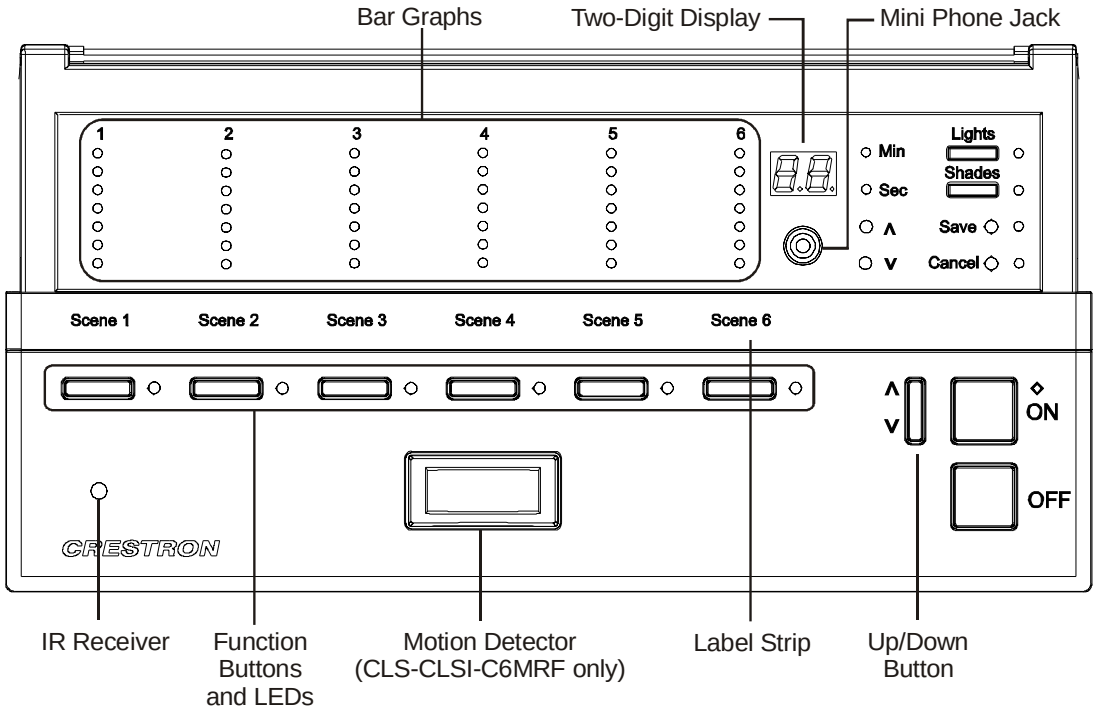
MODEL DESIGNATION	POWER REQUIREMENTS		MOTION DETECTOR	CONTROL SYSTEM INTEGRATION	
	120 VAC	230 VAC		Cresnet®	infiNET™
CLS-C6	X			X	
CLS-C6M	X		X	X	
CLSI-C6		X		X	
CLSI-C6M		X	X	X	
CLS-C6RF	X				X
CLS-C6MRF	X		X		X
CLSI-C6RF		X			X
CLSI-C6MRF		X	X		X

All controls and indicators for the CLS-C6 are located on the front of the unit. The front panel also contains a mini phone jack, under the flip-up cover, used for dealer programming functions, and an IR port for control via an optional IR remote control.

CLS-C6 (Cover Open)

Refer to the figure on the next page and the descriptions in the following paragraphs for operating controls and indicator details.

CLS-C6 Controls & Indicators



The table below and on the following page describes the function of the iLux unit's controls and indicators, which are listed in alphabetical order.

NOTE: *Standard* mode, *Lights* mode, and *Shades* mode mentioned in the following discussions are described in "Operating Modes" on page 5.

CLS-C6 Controls & Indicators Descriptions

CONTROLS & INDICATORS	DESCRIPTION
Bar Graphs	In *Standard* mode and *Lights* mode, the bar graph LEDs indicate the current light level for the six lighting loads. In *Shades* mode, they indicate the shade position for each of the shade groups.
Function Buttons	In *Standard* mode, these buttons are used to select/recall scenes. In *Lights* mode, they are used to make temporary adjustments to the six lighting loads. In *Shades* mode they are used to make temporary adjustments to the six shade groups.

(Continued on following page)

CLS-C6 Controls & Indicators Descriptions (Continued)

CONTROLS & INDICATORS	DESCRIPTION
IR Receiver	The IR receiver responds to commands from an optional remote control.
Label Strip	The label strip identifies the use of the function buttons. The illustration shows the default purpose: selection of the first six scenes. The label in your unit may be different, depending on the unit's configuration and lighting/shades arrangement.
Lights Pushbutton and LED	Use this button to select the *Lights* mode. The LED illuminates accordingly.
Mini Phone Jack	This mini-phone jack is only to be used by your dealer.
Motion Detector (CLS/CLSI-C6M/C6MRF only)	In *Standard* mode, the motion detector recalls the On scene if there is activity in the room, and recalls the Off scene when there is no activity for thirty minutes.
OFF Button	The **OFF** button always recalls the Off scene. (Refer to "Standard Mode" on page 5.)
ON Button	The **ON** button always recalls the On scene. (Refer to "Standard Mode" on page 5.)
^, v, Save, and Cancel Pushbuttons and LEDs	Use these pushbuttons when changing scene presets. The **Save** and **Cancel** LEDs indicate when these functions are active. (Refer to "Changing Scene Presets" on page 7.)
Shades Pushbutton and LED	Use this switch to select the *Shades* mode. The LED illuminates accordingly.
Two-Digit Display	In *Standard* mode, the display is blank, except when showing scene fade time. The **Min** and **Sec** LEDs illuminate to indicate time in minutes or seconds.
 Up/Down Pushbutton	In *Standard* mode and *Lights* mode, this button acts as lights master, adjusting all lighting loads simultaneously. In *Shades* mode, it adjusts all shade groups simultaneously.

Operating Modes

After installation, the CLS-C6 operates in one of three modes:

- *Standard mode*: this is the default mode; buttons are typically used to recall scenes, although they can be reprogrammed by the dealer for other functions.
- *Lights mode*: this mode is used to manually adjust lighting loads.
- *Shades mode*: this mode is used to manually control shade groups.

The following descriptions do not include additional functionality made possible by dealer programming. Those functions are beyond the scope of this guide.

Standard Mode

Daylight Harvesting

The iLux supports use of a photocell to automatically reduce light levels when natural light is present (aka "Daylight Harvesting"). Each load can be set for a custom response to daylight levels, or set to not respond at all.

If a photocell is present, Scenes 1 through 8 (plus the ON scene) will automatically utilize Daylight Harvesting. Scenes 9 through 16 will ignore daylight harvesting at all times.

When under photocell control, the load level can change automatically based on the current photocell level and the scene setting. When this automatic behavior is enabled, the top bar graph LED for that load will blink.

By default, the six function buttons recall scenes 1 - 6. As a scene is recalled, the lights fade (change from one level to another) in a specified time, and any shades in the scene go to their specified levels.

The **ON** and **OFF** buttons recall the On and Off scenes, respectively. By default, the On scene will set all lights to full on. The Off scene will always set all lights to full off.

While fading, the LED for the selected scene recall button blinks, and then stays on when fade is complete; the two-digit display shows the time remaining; If you press the selected scene recall button again before fade is complete, the lights immediately go to their assigned levels and the LED turns solid.

The six bar graphs always show the current level of each lighting load.

When all lights are off, the LEDs for all function buttons glow dimly to make it easy to locate the panel in the dark.

The up/down button acts as a lights master, adjusting the level of all dimmable lighting loads simultaneously. Pressing the top of the button raises the lights; pressing the bottom of the button lowers them.

You can also select functions using an optional remote keypad or IR remote control.

Lights Mode

Manual Load Adjustment With Daylight Harvesting

When a load is under photocell control, the top bar graph LED for that load will blink slowly. Manual adjustment of the load is still possible using the raise and lower buttons.

NOTE: Manual adjustment of the load does not disable the photocell. The load will change in response to the photocell, but the level will be shifted up or down according to an internal calculation that compensates for the amount of manual adjustment.

Lights mode lets you manually adjust any of the six lighting loads.

To enter *Lights* mode, press the **Lights** button. The LED will light, and the six function buttons can now be used to adjust the six lighting loads.

- Press the right side of the function buttons to raise the lights; press the left side to lower the lights.
- The six bar graphs show the current level of each lighting load.
- While a particular lighting load is being adjusted, the two-digit display shows its level. (“oF” indicates fully off; “on” indicates fully on; “1” – “99” indicate percent of the full on level.) Press the center of a function button to check light level without adjusting.
- The up/down button acts as an all lights master in this mode. Press the top of the button to raise the lights; press the bottom of the button to lower the lights.

The **ON** and **OFF** buttons operate normally while in *Lights* mode.

To exit *Lights* mode, press the **Lights** button again, or press **Cancel**. The LED will go off, and the unit will revert to *Standard* mode.

Shades Mode

Shades mode allows you to manually adjust any of the six shade groups.

To enter *Shades* mode, press the **Shades** button. The LED will light, and the six function buttons can now be used to adjust shade groups 1 through 6.

- Press the right side of the function buttons to open the shades; press the left side to close the shades. Press the button while the shade is moving to stop it.
- For presettable shade motors:
  - The bar graphs show the current position of each shade group.
  - While a particular shade group is being adjusted, the two-digit display shows its position. ("CL" indicates fully closed; "OP" indicates fully open; "1" – "99" indicate percent of the fully open position.)
- For non-presettable shade motors:
  - The bar graphs will display nothing while a shade is not moving.
  - While a particular shade group is being opened, its bar graph LEDs scroll up and the two-digit display shows "OP."
  - While a particular shade group is being closed, the bar graph LEDs scroll down and the two-digit display shows "CL."
- The up/down button acts as a shades master in this mode, no matter what function is programmed for it. Press the top of the button to open the shades; press the bottom of the button to close the shades. Press the button while the shades are moving to stop.

The **ON** and **OFF** buttons operate normally while in *Shades* mode.

To exit *Shades* mode, press the **Shades** button again, or press **Cancel.** The LED will go off, and the unit will revert to *Standard* mode.

Changing Scene Presets

Scene Presets With Daylight Harvesting

If a photocell is present, Scenes 1 through 8 (plus the ON scene) will automatically utilize Daylight Harvesting. When this automatic behavior is enabled, the top bar graph LED for that load will blink.

NOTE: When editing scenes with photocell-controlled loads, photocell output will be temporarily disabled. When the scene is recalled, photocell control will resume and light levels may change. To reduce the possibility of unintended scene behavior caused by photocell reaction to sunlight, edit scenes at night.

The CLS-C6 scene settings can be modified using the front panel controls, without having to use a PC.

Changes to the lighting load levels and shade presets for one or more scenes can be accomplished as follows:

1. In *Standard* mode, press the function button of the scene you wish to modify and hold it for five seconds. (Make sure you press the center of the button so both sides make contact.)
2. The two-digit display will first count down as the lighting loads fade to their preset levels for that scene; it will then begin flashing between **Sc.** and the scene number; the **Lights** LED will be lit, and the **Save** and **Cancel** LEDs will flash.
3. Use the six function buttons to adjust the levels of the lighting loads for that scene. Press the left side of the buttons to lower the lighting loads; press the right side of the buttons to raise the lighting loads.
4. If you would like a certain lighting load to be unaffected by that scene recall, press and hold the center of the button (so both sides make contact) for three seconds. The top two and the bottom two LEDs of the associated bar graph will be lit (and the display will show - -) to indicate that the level of the lighting load will not change when the scene is recalled.
5. To change the shade presets for that scene press the **Shades** button; the **Shades** LED will be lit.
6. Use the six function buttons to adjust the levels of the shade groups for that scene. Press the right side to raise the shades; press the left side to lower them.
   Note that for shades that are not "presettable," only full open or full closed positions can be recalled as part of a scene.
7. If you would like a certain shade group to be unaffected by that scene recall, press and hold the center of the button (so both side make contact) for three seconds. The top two and the bottom two LEDs of the associated bar graph will be lit (and the display will show - -) to indicate that the level of that shade group will not change when the scene is recalled.
8. To adjust the fade time, press the **^** and **v** buttons. When going up, the value will go from 0 seconds to 59 seconds, and then 1 minute to 99 minutes. When going down, the value will go from 99 minutes to 1 minute, and then 59 seconds to 0 seconds. The **Min** and **Sec** LEDs light as appropriate. Adjustment to fade time can be made when either *Lights* mode or *Shades* mode is active.
9. When all the lighting loads are at the desired level and shades are at the desired position, press **Save** to save these settings as the new preset for that scene. If you make a mistake while changing a setting, press **Cancel** to discard changes and return to *Standard* mode before pressing **Save**.
10. Repeat the above procedures for all scenes that require changes.

Problem Solving

Troubleshooting

The table below provides corrective action for possible trouble situations. If further assistance is required, please contact your dealer.

CLS-C6 Troubleshooting

TROUBLE	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
The unit does not respond as expected after changing preset.	Incorrect procedures were used to change the preset.	Refer to "Changing Scene Presets" on page 7 to revise the preset correctly.

Further Inquiries

If you cannot locate specific information or have questions after reviewing this guide, contact your dealer.

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