



# CLUSTER™ LED LCA-2LEDR UNIT & ELF652D REMOTE HEAD SERIES



## FEATURES

### Housing

- Injection-molded, UV stabilized thermoplastic body, snap together design
- Fully adjustable Cluster™ LED glare-free heads glare-free heads
- Corrosion and scratch-resistant of Mist-White white or Black color

### Mounting

- Ceiling or Wall Mount
- Keyhole slots and universal knock-outs to mount to any standard 4" junction box

### Finishes

- Available in Mist-White and Black

### Lamp Type

- White LED 3.6V-3.6W, with life expectancy 50,000+ hours, 70 lumens per head

### Electronics

- Automatic, solid-state
- Low voltage disconnect prevents over discharge of battery
- Automatic brownout protection is provided.
- Battery lock-out prevents battery discharge during installation
- Available Self-Diagnostics

### Self-Diagnostics

- Available

### Improved Diagnostics option

- Monitors battery/charger failure, battery disconnect and lamp failure

### Controls

- Red charger monitor LED indicates charging of the battery
- Momentary test switch allows for quick operational check of entire system

### Sealed Maintenance-Free Battery

- 3.6V Nickel-Cadmium battery

### Approvals

- Listed to UL 924 Standards
- UL 94, 5VA flame rated
- UL listed for Damp location (68°F to 86°F, 20°C to 30°C)

### Warranty (subject to proper installation and maintenance)

- Three-year full warranty (excluding lamps and fuses)<sup>1</sup>
- 3.6V Nickel-Cadmium battery, three-year full, five-year pro-rata warranty

<sup>1</sup> For LED lamps warranty, refer to Lightalarms® Limited Warranty paragraph 3.2

## SPECIFICATIONS

Supply and Install Lightalarms® Cluster™ LED LCA-2LEDR Series emergency light unit.

The emergency lighting battery unit shall be a self-contained fixture including a 3.6V sealed maintenance-free Nickel-Cadmium battery. The unit shall supply the rated wattage load for a minimum of 90 minutes to 87-1/2% of rated battery voltage. The unit shall be rated 120/277VAC, 60Hz, UL924 and Damp location listed standard (68°F to 86°F, 20°C to 30°C).

The unit charger shall utilize an integrated circuit which samples the battery in relation to temperature, state of charge and input voltage fluctuations. The charger shall be current limited, temperature compensated, short-circuit protected and reverse polarity protected. The unit shall be furnished with an electronic lockout circuit which will connect the battery when the AC circuit is activated, and an electronic brownout circuit which will activate the unit when utility power dips below 80-85% of nominal voltage. A low voltage battery protection circuit shall be provided and will disconnect the load and circuitry from the battery when it reaches 87-1/2% of its nominal voltage. The unit shall be capable of full recharge in compliance with UL924 specifications. The unit shall be furnished with sealed dust-tight relay, red charger monitor LED indicating charging of the battery and push test switch allows for quick operational check of entire system. The cabinet shall be injection-molded, UV stabilized thermoplastic body, snap together design with two fully adjustable white Cluster™ LED glare-free lighting heads being corrosion and scratch-resistant in a Mist-White or Black color.

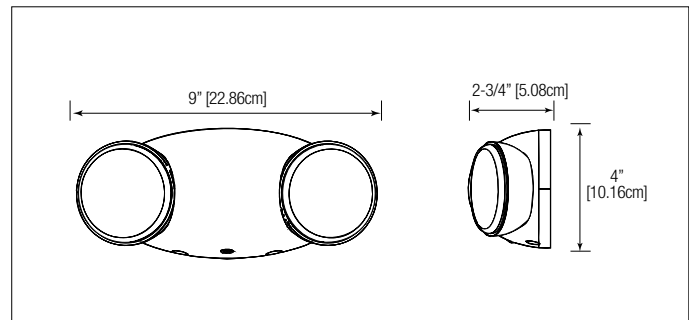
When specified, battery unit with Improved Diagnostics (-ID) shall include a self-test and silent diagnostic function managed by a micro-controller; it shall execute automatic tests for one minute every 30 days, 30 minutes every 60 days and 90 minutes annually. A diagnostic circuit shall continuously monitor the performance of the battery, charger module and LED lamps. When a fault is detected, the pilot light shall change color from green to red and flash with a specific code. The red light is steady-on in case of a battery disconnect; it will flash with one blink for battery failure; two blinks for charger failure and four blinks for LED lamp failure. A label with the diagnostic legend shall be visible next to the pilot light.

Every LCA-2LEDR Series unit shall be fully warranted for Three-years, subject to proper installation and maintenance.

The equipment shall be Lightalarms® Model: \_\_\_\_\_ .

## DIMENSIONS

Dimensions are approximate and subject to change.





TYPE \_\_\_\_\_

CATALOG # \_\_\_\_\_

NOTES \_\_\_\_\_

The Cluster™ LED Family features an emergency battery unit which includes extra battery capacity to power the Cluster™ LED ELF652D remote head or allow for extended run time.



### POWER CONSUMPTION CHART

SERIES	CURRENT (A) / POWER (W)	
	120VAC, 60Hz	277VAC, 60Hz
LCA-2LEDR	0.191/0.92	0.129/1.62

### ORDERING FORMAT

SERIES	LAMP	CAPACITY	COLOR
LCA	-2LED= Cluster™ LED head style	<b>Blank</b> = No Remote <b>R</b> = Remote capacity <b>RID</b> = Remote capacity with Improved Diagnostics <small>Note: Remote Capacity can ONLY be used to power the Cluster™ LED ELF652D Remote Head or the extend the battery units emergency run time beyond the standard 90 minutes.</small>	<b>Blank</b> = Mist-White <b>B</b> = Black

Example: LCA-2LEDR

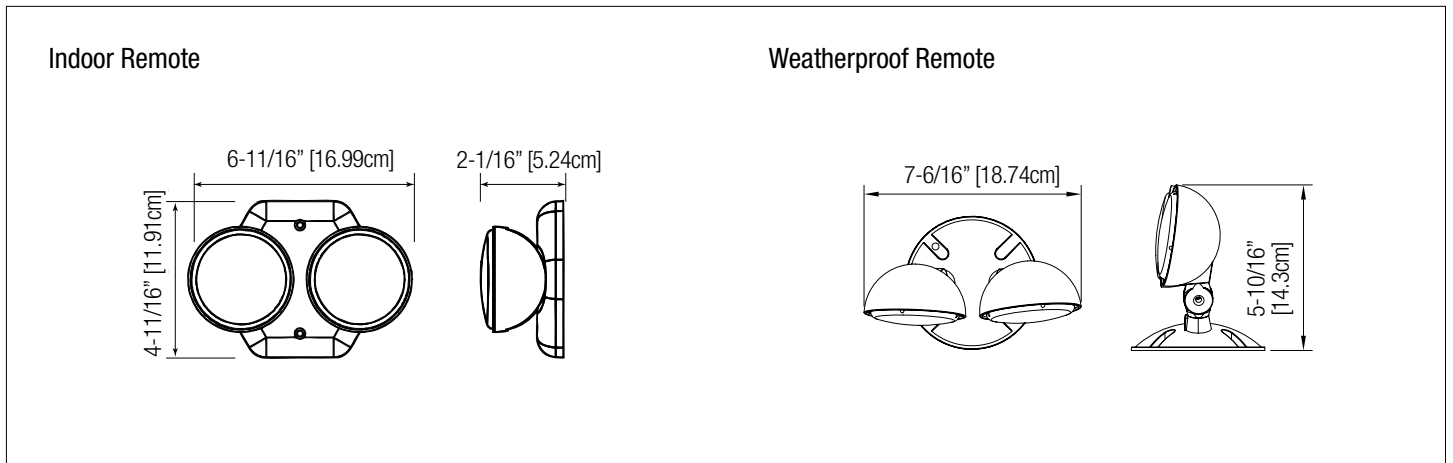
## CLUSTER™ LED ELF652D REMOTE HEAD

The Cluster™ LED ELF652D/LED Remote head can ONLY be powered from the UQLXN-2LED combo or LCA 2LED battery units of the same family. Used for internal or external applications, the indoor remote head draws 3.6V-3.6W and Weather-Proof head draws 3.6V-3.8W.



### DIMENSIONS

Dimensions are approximate and subject to change.



### ORDERING FORMAT

SERIES	# OF HEADS	LAMP	OPTION
ELF652	<b>D</b> = Double Head	<b>/LED</b> = Cluster™ LED head style	<b>Blank</b> = Indoor Use Only <b>-WP</b> = Weather-Proof

Example: ELF652D/LED