



The Leader in Event Critical Timing Electronics

# *Wireless Corner Safety Light Owner's Manual*

Model 6701A -Rev A



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## LIMITED WARRANTY

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To the original purchaser of this RaceAmerica product, RaceAmerica warrants it to be in good working order for a period of ninety (90) days from the date of purchase from RaceAmerica or an authorized RaceAmerica distributor. Should this product malfunction during the warranty period, RaceAmerica will, at its option, repair or replace it at no charge, provided the product has not been subjected to misuse, abuse, or alterations, modifications, and/or repairs not authorized by RaceAmerica.

Any product requiring Limited Warranty service during the warranty period should be returned to RaceAmerica with proof of purchase. If return of merchandise is by mail, the customer agrees to insure the product, prepay shipping charges, and ship the product to RaceAmerica, Inc., 280 Martin Avenue Unit 1, Santa Clara, CA 95050.

ALL EXPRESSED AND IMPLIED WARRANTIES FOR THIS PRODUCT ARE LIMITED IN DURATION TO THE ABOVE NINETY DAY PERIOD.

UNDER NO CIRCUMSTANCES WILL RACEAMERICA BE LIABLE TO THE USER FOR DAMAGES, INCLUDING ANY LOST PROFITS, LOST SAVINGS, OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF, OR INABILITY TO USE, SUCH PRODUCT.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE.

## PRODUCT OVERVIEW

The Wireless Corner Safety Light is a microprocessor controlled display using the latest technology Ultra-Bright LEDs. The Corner Safety Light receives display instructions via an internal wireless data link from a Keypad/T-Link Wireless unit as to how to change the display. The Keypad/T-Link wireless unit sends instructions to the display to a Green, Yellow or Red light and whether to flash or stay on solid. The display is viewable at wide angles and in conditions from full sun to total darkness without adjustment. The display is easily hung or bolted to a frame for viewing up to 660 ft away. Both the Corner Safety Light and Keypad are powered by rechargeable batteries so no external power is required.

**NOTE: THIS PRODUCT USES ULTRA-BRIGHT LED TECHNOLOGY. DUE TO THE BRIGHTNESS LEVEL OF THIS DISPLAY, CARE SHOULD BE TAKEN, AS WITH ANY BRIGHT LIGHTING SOURCE, TO AVOID PROLONGED VIEWING AT CLOSE RANGE AND SHORT DISTANCES. AS WITH ANY BRIGHT LIGHTING SOURCE, VISION MAY BE AFFECTED SHORT TERM SIMILAR TO CAMERA FLASHES.**

## PACKAGE COMPONENTS

Each package includes:

- 1 - Corner Light enclosure (6701A)  
w/internal wireless transceiver (4520C)  
w/internal rechargeable battery
- 1 - T-Link Wireless unit (5862C)
- 1 - Keypad with 15ft cable (05-2558)
- 1 - T-Link battery charger (5890A)
- 1 - Display battery charger (5893A)
- 1 - Owner's Manual

## AVAILABLE OPTIONS

- 6701A Light enclosure only (additional units)
- High gain antennas for increased range
- 6075B soft side carry/storage case

## SPECIFICATIONS

<b>Model</b>	<b>6701A</b>
Display Type:	4" Diameter Dot
Number of Dots:	Three
Dimensions (inches)	20.25Wx11.5Hx3D + 9" antenna
Mounting	Eye bolts/PEMs
Housing	Powder Coated Steel
View Filter	Green/Yellow/Red Transparent acrylic
View Range (ft)	660
Data Transmission	T-Link 900Mhz
Wireless Range	Miles with line of sight
Battery life (Hrs)	24+

## SET-UP

The Corner Light is intended to be hung when used in the horizontal orientation or alternately to be mounted using the 8-32 PEM nuts on the bottom in either a vertical or horizontal position.

RaceAmerica designed the display to be easy to operate, however, it is strongly suggested that the system be set up and operation familiarity gained prior to actual use. This can be done virtually anywhere.

### STEP 1 -

Familiarize yourself with the components. Screw the antennas onto the connectors on the Display and T-Link. The combination of a keypad transmitter and corner light constitute a network and will operate on the same network as identified by the optimizer code. Multiple 6701A units with the same optimizer code can be operated on the same network (Fig. 1).

### STEP 2 -

Connect the keypad cable to the T-Port connector on the T-Link. The T-Link operates best when it has line of sight to the display(s). The internal battery should be charged prior to use.

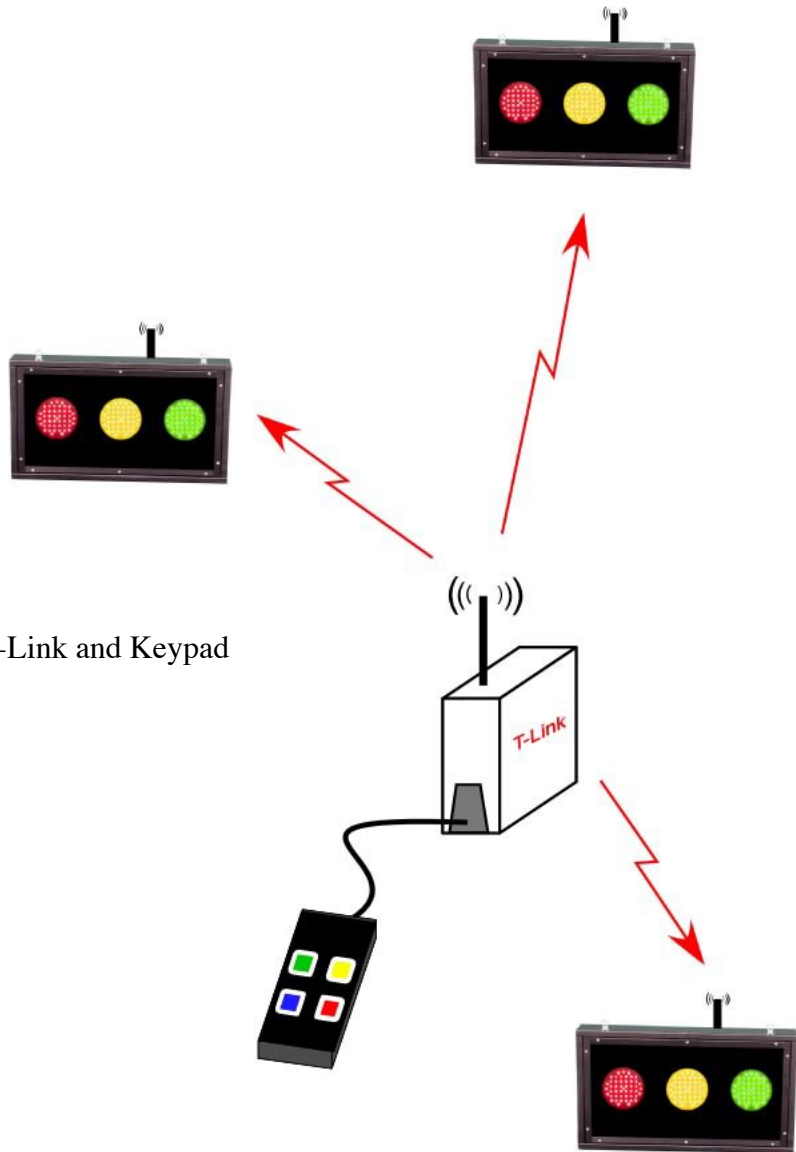


Figure 1 - Corner Lights, T-Link and Keypad

**Heartbeat**  
Freeze - when key is pressed and held

**Power On/RF Transmit**  
ON - Power ON  
Blink - Transmit

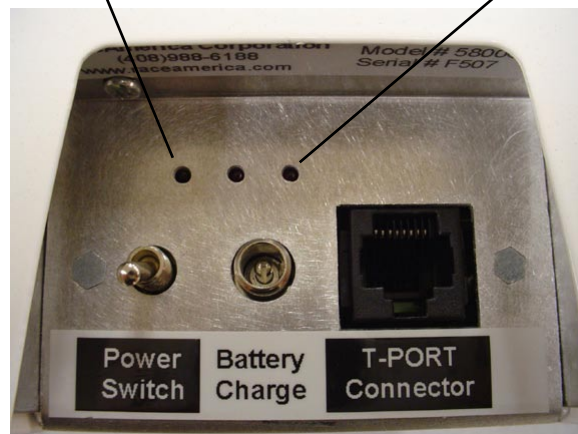


Figure 2 - T-Link power, external connections and status LEDs

## MAINTENANCE

The Corner Safety Light requires minimal maintenance.

To clean the red/yellow/green lens, use a non-abrasive cleaner on a soft cloth. This will keep the protective lens clean and maximize visibility and clarity of the digits. If the lens is soiled with mud or dirt, gently remove the grit using a soft wet cloth being careful not to press when wiping to avoid scratching the lens material.

Keep the batteries charged.



Figure 3 - Keypad

## SUPPORT AGREEMENTS

Support agreements are available from RaceAmerica providing Telephone Assistance on technical issues and operational questions, repair and/or replacement of hardware failures, Software and Firmware updates and bug reporting. Contact RaceAmerica for more information and pricing of Support Agreements.

### STEP 3 -

Turn on the Corner Safety Lights; the display begins a short power-up self-test. Each light will turn on ending with a flash of all three lights; next, one light will flash indicating the battery charge level (Red flashing 0-30%, Red and Yellow flashing 30-70%, Red, Yellow and Green flashing 70-100%) and then go blank. Turn on the T-Link and it will flash the left LED indicating it is ready to transmit (Fig. 2).

## DISPLAY OPERATION

The Corner Safety Light is simple to operate. Press the desired light color (**Green**, **Yellow** or **Red**) keypad button (Fig. 3) to turn the light(s) **ON**, press the same button again to **FLASH** the light(s); press **CLEAR** to revert to **ON (same color)** or press another color and the result is displayed immediately on all Corner Safety Lights on the same network (optimizer code). Pressing **CLEAR** once when a light is **ON** and twice when a light is **FLASHing** will blank the display.

The power switch on the Corner Safety Light will flicker when it is receiving commands from the T-Link keypad.