

Delux Automatic Display Racing Timer

Dual Channel

**Fully Independent START and FINISH
line Beams
4 or 6 Digit Big Display
Operating Instruction Manual
Version 1**

Includes 2 sets of IR Beams:



And a Big LCD Display



(optional mini-tripods and 6-digit display shown)

Distributed By:

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Delux Automatic Display Racing Timer Independent START and FINISH Beams and Display

Thank you for purchasing our Delux Automatic Display Timer with IR Beams and Display. A portable, flexible and economic answer to your timing and scoring needs. Please check the shipping box to make sure all components on your order were received undamaged:

2 sets of IR Beams (consisting of a Transmitter and Receiver), Beam Splitter harness cable, Big LCD Display (either 4 or 6 digit) with 9/110 Volt AC Power Supply.

A Brief Description of the Components:

IR Beam – Consisting of a black box (the Receiver) and a small yellow box (the Transmitter)

Beam Splitter harness Cable Custom length RJ9 “octopus” Cable, with three legs, one for START Beam(GREEN band), one for FINISH Beam(RED band) and one for Display(YELLOW band)

Optional Tripod Mounts Used to position IR Beam at START or FINISH line. Also used to hold the optional Big Display upright on a flat surface. Your system may come with different mounts depending on your application.

Big LCD Display - Either a 6.75" x 14.5" (4 Digit Display) or 6.75 x 21" (6 Digit Display) yellow case with a clear plastic display window on one side. It can be used with either the enclosed AC Adapter, or a 9VDC Alkaline Battery. It is turned on with the small black switch on left side of Display - Up for 'On' and Down for 'Off'. AC Power Adapter that can be used if 110 Volt Power is available, is included with a Big Display.

(Components may not all be exactly as shown due to manufacturing revisions)

The Delux Automatic Display Racing Timer uses separate IR Beams for your START and FINISH lines

- **START and FINISH lines use independent IR Beams**
- **Multiple START and/or FINISH IR Beams are supported – Any START Beam STARTS the Timer, any FINISH Beam STOPS the Timer**
- **Continuous display of last time until next competitor**
- **Automatic reset to ZERO when next competitor starts**

Some functions may require additional parts or cables (not included)

How to Use the Delux Automatic Timer with START and FINISH IR Beams

Install a 9 Volt **Alkaline Battery** in the Battery compartment of the 4 or 6 digit BIG Display.

Install an 9 Volt **Alkaline Battery** in the Battery Compartment of the IR Beam Transmitter.(yellow box)

Mount the IR Beam Receiver Box (black box) onto a suitable tripod (not included) or other mount as your conditions dictate, at the desired height at one side of the START Line.

Mount the IR Beam Transmitter (yellow box) on a suitable mount and position it between 3 and 120 Feet away on the other side of the START Line. Turn on the Transmitter using the small switch on the side of the Transmitter and aim it in the direction of the Receiver and Controller. (**Note:** Distances greater than 120 Feet are possible but you must use fresh batteries in both the Controller and Transmitter)

Mount the other IR Beam set in a similar fashion at your FINISH line. IR Beams may be mounted on vertical or horizontal surfaces, or attached to other objects, fences, etc., using our universal tunnel brackets or agility pole brackets (not included) or any other means of mounting, using the standard tripod socket on the beams (1/4" – 20 UNC thread).

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Operation:

IR Beam wiring, Beam Splitter Harness, and Beam alignment:

Plug the Beam Splitter Harness cable (included) marked with a GREEN band into the jack on the back of the IR Beam Receiver (black box) at the START line of your event, and the cable marked with a RED band into the Receiver at the FINISH line.

Locate the Big Display in a suitable place and plug the Beam Splitter Harness cable marked with a YELLOW band into the jack on the bottom. Turn on the Display with the black switch on the left side – “P8” followed by “rdy” will be displayed. Turn on both IR Beam transmitters by sliding the small black switch in the “ON” direction. Please note that the red (LED) lights on the back of each IR Beam Receiver (black boxes) are now ON, either solid or blinking.

Now align the IR Beam Receivers and Transmitters. Observe the Red light (LED) on the back of each Receiver. Move the Receiver on its stand or mount, pointing it in the direction of the Transmitter. When the units are aligned the Red (LED) will be on solid, indicating alignment of the two units and creating a invisible thin beam between the units. Observe the Display and if it is running, break the Beam at the FINISH line to STOP it. You are now ready for your first competitor.

You may start the next competitor any time after the clock has been stopped and the built-in 3-second delay elapses. Make sure the previous time is recorded. Once the START Beam is broken, it is locked out, so multiple STARTS are impossible.

Once the timer stops, always record the displayed time promptly. If the timer is stopped and the START Beam is broken, the timer will reset to ZERO and start again (after the built-in 3 second delay from the previous run). No need to manually reset for each competitor. Under normal conditions this means totally hands-free operation!

How to set up special START/FINISH requirements

You can use multiple IR Beams as START and/or FINISH Line Beams. Additional parts are required. Contact us and we can supply exactly what you need.

Hints:

The number one cause of problems with our systems is the failure to change the batteries. The batteries in our units can last an exceptionally long time, but it is wise to have spares available should they need to be changed. For best results always use **9 Volt Alkaline Batteries Only**.

Do not store the units for long periods of time (2 months or longer) with the batteries installed. Batteries can discharge and leak, damaging the units.

Avoid, if possible having the Receiver (Black Box) pointing directly or on the same plane as bright sunlight. This will cause premature stopping of the Display Time, should the receiver not stay in contact with the transmitter by blinding sunlight.

Important Hint.

When aligning the Transmitter and Receiver if you are using an adjustable tripod, tilt the Receiver (Black Box) up until the light on the back of the Receiver flashes then down until it starts to flash then adjust the vertical height in the middle of these two settings and the light is on solid. Adjust the horizontal the same way moving the Receiver left and right until the light on the back of the Receiver flashes then adjust the tripod to achieve the centering of the beam with the Transmitter and the light is on solid. This procedure assure that Beam is centered between the Receiver and Transmitter.

Note: A Gate width in excess of 120 Feet is possible but care must be taken that the batteries in both the Display and Transmitter are fairly fresh. Use Alkaline Batteries Only, and check the expiry dates!

DON'T RISK YOUR EVENT. ALWAYS USE FRESH BATTERIES!!!

RECORD OF PURCHASE

The Controller, Display and Beams (Transmitter and Receiver) are fully warranted to the original purchaser against any defects or workmanship for one year from the date of purchase from an approved Dealer. This warranty does not cover physical damage & will be voided if any attempt has been made to remove the sealed covers on the Display or Beams (Transmitter and Receiver). It is not necessary to register your warranty, your receipt from the reseller will be considered the start date of your warranty.

Display Serial Number _____

Purchase Date _____

Purchased from:

Dealer _____

Address _____

City _____ State/Prov. _____ Zip/PC _____

Should our products require service and to assure prompt repair, please call our Toll Free Support Line for instructions and if instructed, package the unit in a secure container with proof of purchase.

Outside of Canada mark the container **"CANADIAN GOODS RETURNING FOR REPAIR"** in plain view, and return the defective unit postage paid to:

R. U. READY Electronics Ltd.
P.O. Box 10
Inverary, Ontario,
Canada, K0H 1X0

Phone 613-353-1911
Fax 613-353-2003

Your Dealer is NOT equipped to support our Products

For Technical Support or Repairs
Please Call Toll Free
1- 877- 84 SPEED (77333)

Or contact your Distributor:

THUNDERPAWS Racing Equipment
P.O. Box 3033
Leslie, MO 63056
573-484-0030

support@raceqp.com
www.raceqp.com

Except as provided herein, we make no express warranties and any implied warranty of merchantability or fitness for a particular purpose is limited in its duration to the duration of the written warranty set forth herein.

Except as provided herein, we shall have no liability or responsibility to the purchaser or any other person or entity with respect to any liability, loss or damages caused or alleged to be directly or indirectly by use of this product, including, but not limited to, any incidental or consequential damages.

Some states or countries do not allow the limitation or exclusion of incidental or consequential damages or limitations on the length of implied warranties; therefore, the aforesaid limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which vary from state to state.