CHRONOTRACK

Quick Start Guide:
Line Setup

This Setup Guide is here to help you setup a Split, Start or Finish point using ChronoTrack equipment. Before we get started we need to keep a few basic rules in mind:

- Connect color coded cables to the matching color coded ports on the controller. This is recommended if troubleshooting is needed.
- Always synchronize the time of all controllers before the race.
- Once the controller is time synced do not power it off. The controller does not hold accurate time while it is powered off.
- The distance between a Primary Gator line and Backup Gator line should be 15ft.
- Test all antennas with a RFID card once they are connected.
- When running other cables through the gators make sure they are shielded to prevent interference.
- Use a Redundant Line whenever you have a critical timing point. A Redundant Line is a line that is backed up by another chronotrack timing device in case one of the lines stops functioning properly.

Gator Specifications:

- Width of one Regular Gator Skin is: 42 in.
- Width of one Mini Gator Skin is: 36 in.

FlashPoint Specifications:

- FlashPoints are designed for fast setup and breakdown.
- FlashPoints are ideal to use for running, biking, and other applications- if you have specific questions about an application not in this guide, please contact the support team.
- D-tags worn on shoes are not recommended for use with Flashpoints.
- The height at which you set a FlashPoint is dependent on the type of race and type of tag. Recommended FlashPoint heights when using:

  - Bib tags = 60 in.
  - Tags on a Helmet = 50 in.*
  - Tags on Ankle = 36 in.
  - Seat post Bike tags= 48 in.
    *The helmet height may vary depending on the type of race the helmet is worn in.

- FlashPoint antennas must be turned vertical for use with the Seat post Bike tags.
- If standard tag orientation is changed, the orientation of the FlashPoint will need to be changed as well.
- It is recommended to use a FlashGuard on the back of each antenna when using FlashPoints for a START/FINISH point. The FlashGuard will help prevent reads on the backside of the FlashPoint.
- Be sure nobody stands in front of a FlashPoint antenna during the race.

Gator-less timing point:

- Maximum distance that 1 FlashPoint covers is 12 ft.
  - Make sure when using 1 single FlashPoint you create an area around it with cones or fences to limit the distance a runner can pass by the FlashPoint
- Maximum distance that 2 FlashPoints covers is 24 ft.
- Always connect both cables of 1 FlashPoint in sequential order on the same reader.
  - i.e. Ports 1 and 2 or 5 and 6. Never ports 1 and 3 or 4 and 5.

FlashPoints used with Gators:

- 1 FlashPoint with Gators will cover 1-4 gators.
- 2 FlashPoints used with gators will cover 5-8 gators.

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4 Gator Line

Recommended tags: Dual B-tags, D-tags or Tri-tags
Line Width: 14'
Full Redundancy: NO

Setup: 4 gators connected to a Pro800, Pro400, or MiniTrack.

Single FlashPoint Line

Recommended tags: Single or Dual B-tags and Seat post Bike tags
Line Width: 12'
Full Redundancy: NO

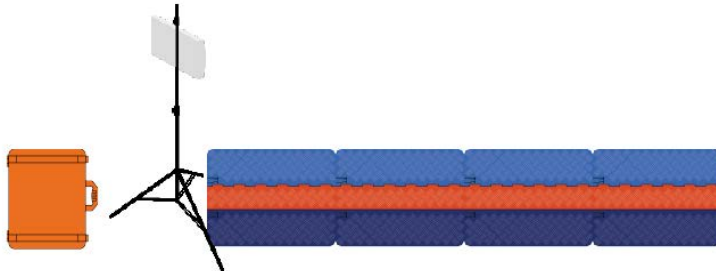**Setup:**One FlashPoint connected to a Pro800, Pro400, or MiniTrack.

12'

Single Over/Under Line

Recommended tags: Single or Dual B-tags and Seat post Bike tags
Line Width: 14'
Full Redundancy: NO, fully redundant if you use 2 MiniTracks or Pro400's

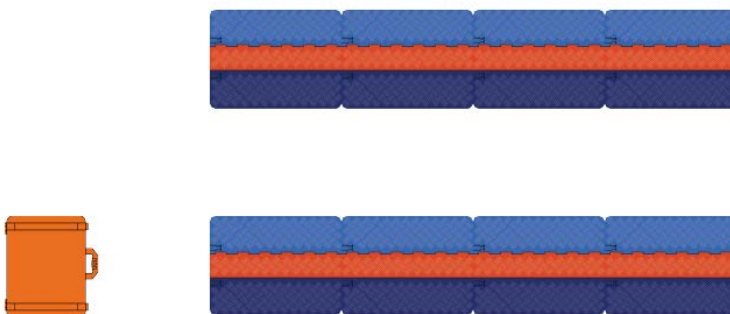**Setup:** One Flashpoint and 4 Gators connected to a Pro800 or 2 MiniTrack or 2 Pro400

4 Gator Line with a Backup

Recommended tags: Dual B-tags, D-tags and Tri-tags
Line Width: 14'
Full Redundancy: NO, fully redundant if you use 2 MiniTracks or Pro400's

Setup: 8 gators connected to one Pro800 or 2 MiniTrack or 2 Pro400
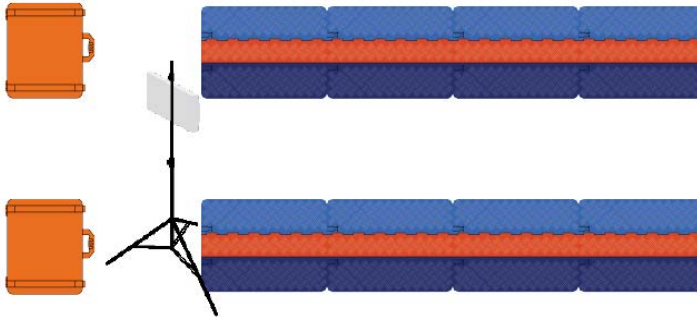
4 Gator Over/Under Line with Backup

Recommended tags: Single or Dual B-tags and Seat post Bike tags
Line Width: 14'
Full Redundancy: YES

Setup: Pro800 connected to 8 gators and one MiniTrack or Pro400 connected to a FlashPoint

6 Gator Line

Recommended tags: Dual B-tags, D-tags, and tri-tags
Line Width: 21'
Full Redundancy: NO

Setup: 6 gators hooked up to one Pro800.

6 Gator Line with a Backup

Recommended tags: Dual B-tags, D-tags, Tri-tags
Line Width: 21'
Full Redundancy: YES

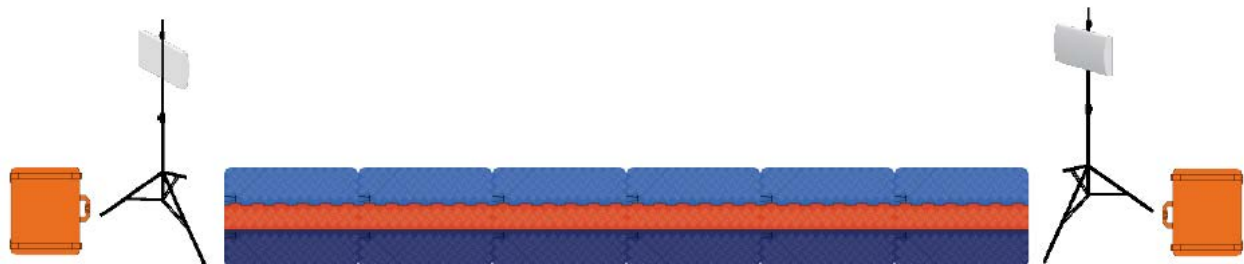**Setup:** Two 6 gator lines each hooked up to a Pro800.

6 Gator Over/Under Line

Recommended tags: Single B-tags or Dual B-tags and Seat post Bike tags
Line Width: 21'
Full Redundancy: YES

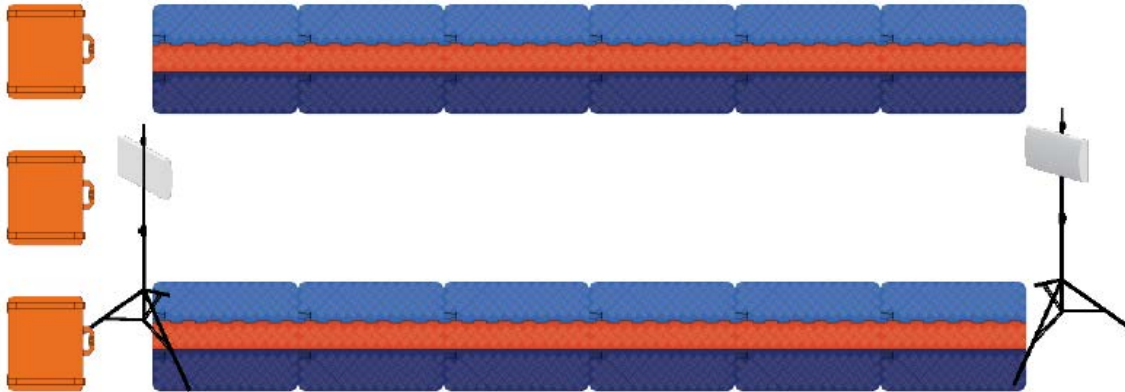**Setup:** 6 gators connected to one Pro800 and 2 FlashPoints connected to one MiniTrack or Pro400

6 Gator Wide Over/Under Line with Backup

Recommended tags: Dual or Single B-tags and Seat post Bike tags
Line Width: 21'
Full Redundancy: YES

Setup: Primary Line has 6 gators attached to one Pro800 and 2 FlashPoints attached to a MiniTrack or Pro400.The backup line has 6 gators attached to one Pro800.

Double FlashPoint Only Line

Recommended tags: Single B-tags and Seat post Bike tags
Line Width: 28'
Full Redundancy: NO

Setup: To reduce the use of cables we use on the road attach each FlashPoint to a MiniTrack or Pro400 on opposite sides of the road.
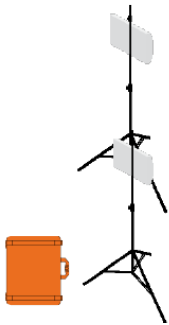
Double FlashPoint Line with Backup

Recommended tags: Single B-tags and Seat post Bike tags
Line Width: 28'
Full Redundancy: NO

Setup: Both FlashPoints are connected to a MiniTrack or Pro400 on each side of the road.

8 Gator Line

Recommended tags: Dual B-tags, D-tags and Seat post Bike tags
Line Width: 28'
Full Redundancy: NO

Setup: 8 gators connected to one Pro800 controller.

8 Gator Line with Backup

Recommended tags: Dual B-tags, D-tags, and Seat post Bike tags
Line Width: 28'
Full Redundancy: YES

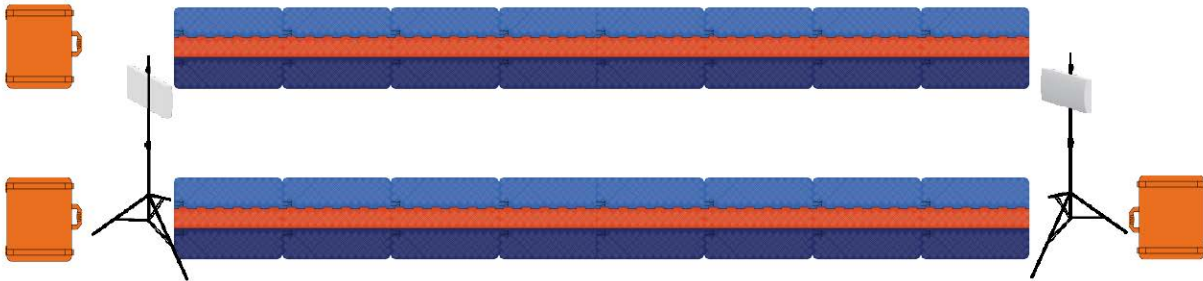**Setup:** Each line of 8 gators is connected to one Pro800 controller.

8 Gator Over/Under Line with Backup

Recommended tags: Single or Dual B-tags and Seat post Bike tags
Line Width: 28'
Full redundancy: YES

Setup: Two Pro800 controllers are used for the 8 gator lines. Then one MiniTrack or Pro400 dedicated to the flashpoints.
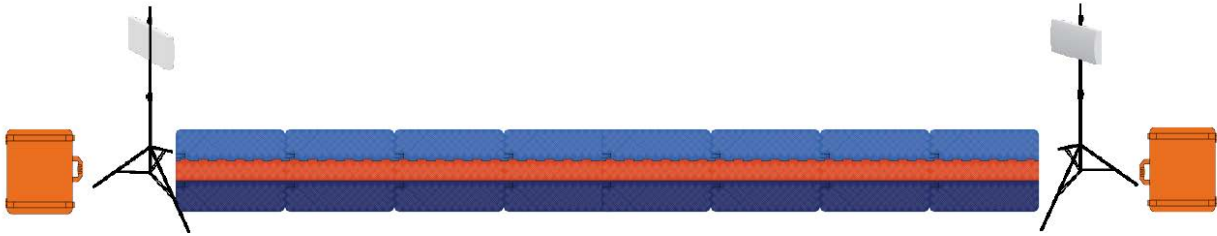
8 Gator Wide Over/Under Line

Recommended tags: Single or Dual B-tags and Seat post Bike tags
Line Width: 28'
Full Redundancy: YES

Setup: One Pro800 controller connected to 8 gators and one MiniTrack or Pro400 controller connected to 2 FlashPoints.

10 Gator Line

Recommended tags: Dual B-tags, D-tags, and Tri-tags
Line Width: 35'
Full Redundancy: NO

Setup: 5 gators each connected to a Pro800 controller.

12 Gator Line

Recommended tags: Dual B-tags, D-tags, and Tri-tags
Line Width: 42'
Full Redundancy: NO

Setup: 6 gators connected to one Pro800 and the other 6 six gators are connected to another Pro800 setup on the other side of the line.

12 Gator Single Redundant Line

Recommended tags: Single or Dual B-tags and Seat post Bike tags
Line Width: 42'
Full Redundancy: YES

Setup: 6 gators connected to each Pro800 controller on the outside. One Pro800 in the middle that is connected to the flashpoints.
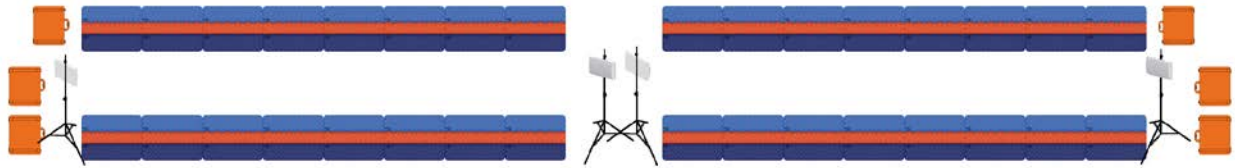
16 Gator Over/Under Line with Backup

Recommended tags: Single or Dual B-tags and Seat post Bike tags
Line Width: 56'
Full Redundancy: YES

Setup: Each gator line will be connected to one Pro800 controller. For the flashpoints, you can use one Pro400/MiniTrack per set of flashpoints as shown in the diagram or you can set up one Pro800 in the middle that is connected to all the flashpoints as shown in the 12 gator single redundant line diagram above.

16 Gator Line with Backup

Recommended tags: Dual B-tags, D-tags and Tri-tags
Line Width: 56'
Full Redundancy: YES

Setup: 4 Pro800's each connected to 8 gators.