The Crystallite Real Time Lasertag System

Technical Information

Description

The Crystallite Real Time Lasertag System uses a UHF radio loop to control and collect data from up to 80 phasers.

Phasers are usually supplied with vests for the players to wear during a game. Between games, the vests are stored on racks, which allow them to be connected to a charging system between session.

The low weight of a pack makes the system suitable for all age ranges.

Some indication of useful arena (play) areas is given in the Technical Data section below. We offer a *free* arena design service with confirmed orders. You supply us with a dimensioned drawing of your site and we will produce an exciting plan, complete with Bill Of Materials.

For more information on arena design, please visit:

http://www.laserventure.com/arenas.htm

Or download our Arena Tips pdf from the Instructions Section of our downloads page at:

http://www.laserventure.com/downloads-page.htm

The control Program AtriumPlus allows you to:

- Book in up to 6 games at any time
- Choice of Regular booking with up to 1000 handicaps – or -
- FastTrack gameplay for single button operation
- Assign Aliases (alternative/popular player names) and save them
- On-board compendium of gameplans – Highlander, Dracula, Tug-O-War etc
- Handicap Editor allows creation of countless additional gameplans
- Full control of background music, gameplay music etc
- Play games from 2 minutes to 99 minutes in length
- Display Real Time score data on an additional monitor
- Manual/Automatic score-form printing
- Create/Edit Ranking messages to players
- Import games from other URLs
- Monitor and keep records of games played
- Add a comment to the record entry for any or each game
- Extend a game at any time
- Reload recently played games
- Gameplay suitable for most ages and heights
- Remotely control one or two smoke machines

Technical Data

Number of Phasers per system: Up to 80

Floor Area Required: This will depend on the arena layout
(Refer to us for guidance)
8-16 players need 80-150 sq metres
16-24 players need 150-300 sq metres
24-40 players need 300-500 sq metres

Player Age: 5 years – 90 years (!!!)

Pack Weight (Phaser+Vest):   2.5Kg

Operating Frequency: 400MHz band or 868MHz (Europe and many countries)
920MHz (US and Canada) – using approved units.

Operating Voltage: Phaser battery 7.2v NiMH
Mains powered items – 110–240 VAC 50-60Hz.

Laser: 0.9mW (Class I) @ 650nM – this is an un-restricted item for use in lasertag equipment and is _totally safe_ for all users.

Phaser Construction: Two part shell made from clear PETG and Black textured ABS.

Vest Construction: Polyester reinforced webbing. Electronics modules (chest, back and shoulder) are made from black textured ABS, with clear PETG covers.

Phaser+Vest Lighting: Phaser – Large diffused LEDs that fade up and down during play and flash when the phaser is being fired. LED colour varying to suit player's team.
Vest – 6 channel LED display on chest and back, 4 channel LED display on shoulders. LED pattern changes with the various game events taking place.

Communications: Central Arena Transceiver, placed overhead roughly in the middle of the arena, connected by a Cat5 cable (supplied) to an Interface which sits by the control PC.

PC and Platform: The system will operate with all Windows platforms from Windows 98 up to Windows 7. We recommend the use of a conventional serial port. These can often be found on off-the-shelf PCs, but a serial card is very cheap and easy to fit.

Software Upgrades   From time to time we issue new versions, including additions and improvements, of AtriumPlus. These are free to download, and we do not charge an annual Intellectual Copyright fee.

We shall be happy to answer any other technical questions that you may have.

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Program demos/upgrades and PDFs: www.laserventure.com/downloads-page.htm

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