



The Stadiatech Firing System for professional pyrotechnic display operators

Product highlights

The Stadia Firing System is built for quality, not cost-cutting, with the goal of becoming the leading choice for major event contractors worldwide.

At the heart of the Stadia system is the powerful 32-channel Driver Unit, designed to control 32 outputs with precision. These outputs are effortlessly managed through intuitive, full-featured software running on a Windows laptop.

A number of supporting products are planned, including:

- Charge & Power units.
- Standalone rugged controllers for situations where full laptop control is not required.
- 32 channel rigid aluminium connection rails.
- 32 channel ABS cased connection rails.
- 16 channel daisy chained connection rails.
- 4 channel lightweight controller for special effects use such as Body packs and drone work.
- DMX Controllers

D32C 32 channel driver



Product highlights

- All driver units run Wirelessly (868Mhz) and/or wired
- Each driver unit supports 32 channels, with the capability to connect up to 999 driver units, enabling nearly 32,000 cues per universe. Each driver unit includes a built-in testing capability, featuring an on-demand LCD display for comprehensive test results. 48 Hour battery Life, which can be extended by simply attaching a USB power pack.
- Simultaneous firing as standard
- Free, fully functional PC software included
- Compatible with a wide range of aftermarket rails through a 36 way 'Centronics' connector.

A bit more detail...

Communications

- All driver units feature both wireless antenna and powerline connectors, providing multiple communication methods. Rails will also have XLR connectors.
- Wireless transmission operates on the 868 MHz 'Band P' frequency range, which is legal across Europe and many other regions. (Note: Systems using 900 MHz are not legal in Europe, as that frequency is reserved for mobile phones, potentially leading to unwanted interference.) The 868Mhz frequency offers significantly better range and obstacle penetration compared to the 2.4Ghz used by some systems.
- Five sub-frequencies are available. enabling multiple systems and universes to operate in the same area.
- Driver units can be easily configured through the onboard menu—no tools or cables are required—to use either the wireless or wired connectors as input or output, facilitating complex setups when needed. Driver units can be directly connected to a Laptop via USB. at which point they automatically switch into acting as a radio transceiver

Test and Display

- The driver unit features a backlit LCD dot matrix display that can simultaneously show the test results of all 32 channels.
- Simply press the TEST button on the membrane keypad to instantly test all channels.
- Display also shows driver unit number and current battery level, as well as serving as the interface for the onboard configuration menu.

Driver unit Test Display



Driver unit Config Menu



Batteries and Power

- Driver units are equipped with built-in batteries using the latest LiFePO4 chemistry, offering long life, high discharge capability and short circuit safety.
- Batteries can be charged either through the powerline connectors or the built in USB-C connector, allowing charging from any standard USB power source.
- Battery life can easily be extended by adding an off-the-shelf USB battery pack.
- Driver units can run indefinitely when powered through the powerline connectors or the USB power socket.
- The built-in batteries can be removed for shipping if required, and the entire unit can run without an internal battery using either powerline or an external USB battery pack/supply.

Firing capabilities

- Firing is fully simultaneous allowing Stadia to fire all 31,968 ignitors at once.
- Up to 10 ignitors can be connected to a single output, depending on the type and resistance of the ignitors.
- The script is downloaded to the driver units, which are automatically checked for accuracy when armed, ensuring there are no misconfiguration issues. Firing can be disabled entirely, or by Driver unit number, Position, Hazard type (with full text definition), or by user-created groups.

The main firing clock can be adjusted forwards or back with an accuracy of 100 ms, allowing for precise timing, especially useful in large sites with speaker delays. Manual firing is fully supported, allowing for individual igniter activation or the selection of multiple ignitors across various driver units into a group.

Stadia PC software Sample Screens

The Test Screen

Stadia - Large Show.sta

File Edit Tools Help

Test & Power Firing Manual Fire Edit

Connect to Hardware Not Connected

Selected Drivers

25	26	27	28	29	30	31	32	33	34	35	36
37	38	39	40	41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70	71	72
73	74	75	76	77	78	79					

Driver Unit Selection

All None

Invert Failed

Range Position

Remove Group Rename Group

Group Selection

Bridge

Pontoons

Shells 1

Shells 2

Driver Units Failed Cues Power

Failed Cues

Module	Cue	Description	Comment	Position	Excluded
47	1	2" ss Blood red mine	90 deg	Pontoon1	<input type="checkbox"/>
47	2	2" ss Blood red mine	90 deg	Pontoon1	<input type="checkbox"/>
47	3	Midi Ground salute	hanging	Pontoon1	<input type="checkbox"/>
47	4	Midi Ground salute	hanging	Pontoon1	<input type="checkbox"/>
47	5	Giant Ground Maroon	hanging	Pontoon1	<input type="checkbox"/>
47	6	Petrol Lifter		Pontoon1	<input type="checkbox"/>

Test Control

Test

Show Excluded

Show Invalid

Clear Results

Radio Ping

Drivers: 79 Cues: 1648

14:27:29

The Firing Screen

Stadia - Large Show.sta

File Edit Tools Help

Test & Power Firing Manual Fire Edit

Connect to Hardware Not Connected

Activity Status

Disables

Position Hazard Driver Group

Bridge Pontoons

Shells 1 Shells 2

Shells 3 Shells 4

Shells 5

Time Control

Time Source Clock Advance

Local Timer Timecode

Audio File

Choose File Play File

Program ARM

STADIA TECH

Pause

DISARM FIRE

Show Status

Disarmed

Master Clock

00:00:00.00

Time to Next Shot

00:00:03.76

Time to Last Shot

00:25:19.52

Show progress

Launch Time	Module	Cue	Description	Comment	Hazard Group	Position
00:00:03.76	25	3	45mm EU Yellow glitter comet/mine	right 60 deg	2	P2ss
00:00:15.82	17	3	45mm EU Yellow glitter comet/mine	left 60 deg	2	P10ss
00:00:25.77	36	7	45mm EU Yellow glitter comet/mine	left 60 deg	2	P6ss
00:00:25.77	36	6	45mm EU Yellow glitter comet/mine	right 60 deg	2	P6ss
00:00:32.72	25	4	45mm EU Yellow glitter comet/mine	right 60 deg	2	P2ss
00:00:33.76	17	4	45mm EU Yellow glitter comet/mine	left 60 deg	2	P10ss
00:00:36.70	25	5	45mm EU Yellow glitter comet/mine	right 60 deg	2	P2ss
00:00:37.71	17	5	45mm EU Yellow glitter comet/mine	left 60 deg	2	P10ss
00:00:45.75	36	9	45mm EU Yellow glitter comet/mine	90 deg	2	P6ss
00:00:45.75	36	11	45mm EU Yellow glitter comet/mine	right 65 deg	2	P6ss
00:00:45.75	36	10	45mm EU Yellow glitter comet/mine	left 40 deg	2	P6ss
00:00:45.75	36	8	45mm EU Yellow glitter comet/mine	left 65 deg	2	P6ss
00:00:45.75	36	12	45mm EU Yellow glitter comet/mine	right 40 deg	2	P6ss
00:01:04.00	0	Note	Warning - 20 seconds to first Shells			
00:01:24.13	63	6	5" Shell	Brocade ring R/B d...	1	SH-Left
00:01:24.13	64	6	5" Shell	Brocade ring R/B d...	1	SH-Right
00:01:24.13	78	1	5" Shell	Brocade ring R/B d...	1	SH5-5"
00:01:24.13	75	1	5" Shell	Brocade ring R/B d...	1	SH4-5"

Drivers: 79 Cues: 1648

14:33:04