



ChilliNet Sales Guide

For all Chilli Dimmers and Accessories

ChilliNet

What the system does now

The Zero 88 Chilli dimming range offers a number of functions, including a variety of playback methods, network capability, and comprehensive configuration options. Designed to work 'out of the box', the intuitive Chilli user interface allows operators to quickly set up and operate the dimmers, minimising valuable on site installation and commissioning time.

The system's network capability is provided by our custom written ChilliNet control protocol operating over a CAN based network. The CAN bus network was developed by Robert Bosch GmbH for the automotive industry. It was developed to work in highly hostile environments with excessive, noise, vibration, temperatures and environmental conditions and is therefore incredibly stable and reliable.

Using standard Cat 5 cabling, units simply daisy chain together, it is possible to have up to 50 devices on a single network, which can be up to 1000metres in length.

Each network is capable of storing up to 12 memories or scenes, which can be recalled using our remote commander panels. Our growing range of ChilliNet accessories provide simple and rapid installation tools for system monitoring, environmental lighting control and simple preset building systems.

Reasons for change

In response to market feedback as to what people want from a Zero 88 architectural dimming system we have standardised software across all dimmers in the range.

Dimmers now offer users features suitable for the most complex architectural applications. Key to this is the ability to zone or use areas to allow local control.

What ChilliNet Zoning Software Will Do

Channels & Areas

The software enables the use of “zones” or “areas”. New menus allow the user to assign any dimmer channel to any one of 10 zones.

This enables one dimmer to be used to control multiple areas within a room or environment. If we use the earlier nightclub example, the new software enables one dimmer to be split into 6 areas, each area having 4 channels and each area with its own control panel. This makes for shorter installation time and costs as only one mains supply is now needed and only one dimmer installed. (See Diagram on Page 9)

More complex systems can be used with multiple dimmers as shown in the table below. This example uses 12 channel dimmers

| | Dimmer 1 | Dimmer 2 | Dimmer 3 | Dimmer 4 |
|-------------------|-----------------|-----------------|-----------------|-----------------|
| Channel 1 | Area 1 | Area 5 | Area 5 | Area 9 |
| Channel 2 | Area 1 | Area 5 | Area 5 | Area 9 |
| Channel 3 | Area 1 | Area 5 | Area 6 | Area 9 |
| Channel 4 | Area 2 | Area 5 | Area 6 | Area 9 |
| Channel 5 | Area 2 | Area 5 | Area 6 | Area 9 |
| Channel 6 | Area 2 | Area 5 | Area 6 | Area 9 |
| Channel 7 | Area 3 | Area 5 | Area 7 | Area 10 |
| Channel 8 | Area 3 | Area 5 | Area 7 | Area 10 |
| Channel 9 | Area 3 | Area 5 | Area 7 | Area 10 |
| Channel 10 | Area 4 | Area 5 | Area 8 | Area 1 |
| Channel 11 | Area 4 | Area 5 | Area 8 | Area 1 |
| Channel 12 | Area 4 | Area 5 | Area 8 | Area 1 |

Memories & Sequences

The software allows for 12 memories per area, giving a total of 120 memories per network (10 times the existing software capabilities). Each memory can have its own fade times, which may be configured by the user.

Each area can have its own single or multiple control panels. This is easily achieved by putting the panel into a programme mode and then selecting an area number for the panel. The panel then only replays the memories associated with that area.

The number of memories accessible by the control panel depends on which control panel is employed. Our 10 button panel would provide access to all 12 area memories whilst the 5 button panel would provide access to the first four memories plus a dedicated “All Off”.

In addition to the 10 areas described above, there is also a master area. This area cannot be assigned by channel. The master area sends network wide messages and therefore affects all areas. This is useful if you wish to have control of all areas from one control panel. A master panel is assigned in the same way as any other area panel. Pressing the 'Memory 1' button on a master area panel will send a message to all areas telling them to play 'Memory 1'.

The software has retained the use of the sequences facility. Each dimmer has the capacity to store a maximum of three sequences, each sequence can be assigned to any one of the 10 area's.

Sequences are programmed using the stored memories and can be up to 12 steps long. The fade times of each step are taken from the fade times stored with the memories. It is also possible to add dwell times to each step to create the desired effect.

These sequences can only be recalled using the 10 button panel, master controller or touch screen.

Software Changes

The latest software provides a new menu allowing the user to select the DMX / ChilliNet relationship. The user can now disable the DMX on a dimmer by dimmer basis and choose the relationship on an area basis with a choice of LTP, HTP and DMX takes precedence modes.

Hardware Overview

Dimmers & Controllers

The range includes 4, 12 and 24 channel versions of the Chilli dimmer, along with special 4 and 12 channel units for controlling HF and DSI Ballasts. Dimmers are capable of dimming resistive and inductive loads and dimmable electronic transformers. Control of the dimmers can be via a DMX512 lighting control protocol, our custom written ChilliNet system or a combination of the two. 6 channel and 12 channel 25Amp versions are also available.

Each channel of the dimmer can have its own DMX address, preheat and Topset levels. 12 and 24 channel versions feature single pole plus neutral disconnect MCB protection on each channel in either 10 or 16amp versions.

The user interface, comprising a backlit 16 button numeric keypad and LCD screen ensures that even in the dark the full range of Chilli features is available. DMX addressing, preheats and dimmer curves can all be set with a minimum of fuss.

Installation of the dimmers is simple, the unit is located by two screws and secured by a further two.

For more information please refer to specification sheets (downloadable from www.zero88.com)

Control Panels

There are two categories of control panel;

System Controllers

System Controllers enable access to all dimmers and areas on a network. The Master Controller also provides remote access to each dimmer, allowing configuration and programming of the entire system from a single source.

The Master Controller

The Master Controller is capable of configuring an entire system. By duplicating the functions of the dimmers user interface it is possible to set all the functions of the dimmers remotely. Unlike the dimmer interface, the master controller can talk to any dimmer on the network allowing for overall setup, programming of memories and control of a network.

Last Man Out Panel

The last man out panel is usually employed at the entrance/exit to a building. The double gang panel is a master area panel broadcasting messages to all areas.

This panel features a 5 button panel and a keyswitch, allowing the person locking up to turn the network on or off from a single location. When the keyswitch is thrown the panel sends an "all off" message to the dimmers after a 30 second delay. This allows time for the user to exit the building and lock up.

Replay Panels

The second category of panels simply replay memories and sequences. These “dumb” panels provide direct access to the stored memories. These can be configured to work with any area on the network, or be designated as a Master Area Panel for overall control of all areas.

Panels include;

10 Button Panel – This panel can recall all 12 memories from an area, as well as 3 sequences and has a dedicated “all off” button.

5 Button Panel – This panel can recall only the first 4 memories from an area and has a dedicated “all off” button.

2 Button Panel – This panel can recall only the first memory from an area and has a dedicated “all off” button.

Raise & Lower – This is a 7 button panel allowing access to the first 4 memories from an area and has a dedicated “all off” button. Using this panel it is possible to select a memory and manually fade it up or down. The stored levels hold their relative values and are simply scaled up or down. This allows the user a degree of “manual” control without resorting to the dimmer interface or employing a System Controller.

The panels have been designed to work with any standard single gang UK back box allowing for simple installation and are available in either brushed stainless steel or brushed brass finishes with illuminated buttons.

RS232 Bridge

Using the RS232 bridge it is possible to employ any third party controllers using ASCII command format to control the ChilliNet network. Controlling the network in this way allows for greater flexibility and control. There is no limit to the numbers of memories/area's or sequences.

The Netlink Bridge

The Netlink Bridge can be employed where more areas are required. The bridge allows the connection of up to six separate networks, providing control of all networks from a single source, whilst retaining control at a local network and area level.

The Netlink Bridge is fitted with additional alarm inputs which, when triggered, send a system wide message forcing all channels to 80% over 1second. These inputs can be connected to Fire and Panic alarm systems providing the security of a fully integrated system.

Frog Box

Initially conceived as a reply unit for the Frog range of controllers, the Frog Box has developed into a powerful architectural controller, which can be integrated into any ChilliNet network. The Frog box can be employed in the network where control of intelligent fixtures is required. As the Frog Box operates on the same software as the Frog controllers complex shows can be created and recalled at the touch of a button.

The Frog Box now comes with an optional Touch Screen, which provides 128 buttons, which can be assigned to anyone of the 999 memories in the Frog Box's theatre stack. Pressing one of these buttons triggers the assigned memory in the Frog Box.

ChilliNet Key Features

- 10 Area's/Zones
- 1 Master Area/Zone
- 12 Memories Per Area/Zone
- 3 Assignable Sequences Per Dimmer
- Alarm Input
- User Selectable DMX interface relationship – DMX on/off, DMX takes precedence, LTP or HTP.

The Chilli Range features a comprehensive range of dimmers and accessories to enable you to create a powerful and flexible networked system.

| Product | Stock Code |
|--|------------|
| Chilli Pro 2410i | 01-108-00 |
| Chilli Pro 2410i +RCD | 01-118-00 |
| Chilli Pro 1216i | 01-106-00 |
| Chilli Pro 1216i +RCD | 01-116-00 |
| Chilli Pro 1210i | 01-105-00 |
| Chilli Pro 1210i +RCD | 01-115-00 |
| Chilli Pro 410i | 01-120-00 |
| Chilli Pro 410HF | 01-121-00 |
| Chilli Pro 2416i +RCD | 01-109-00* |
| Chilli Pro 625i | 01-107-00* |
| Chilli Pro 625i +RCD | 01-117-00* |
| Chilli Pro 1225i | 01-122-00* |
| Chilli Pro 1225i +RCD | 01-123-00* |
| Master Controller | 01-201-00 |
| 10 Button Panel - Stainless | 01-200-00 |
| 10 Button Panel – Brass | 01-202-00 |
| 5 Button Panel – Stainless | 01-203-00 |
| 5 Button Panel – Brass | 01-204-00 |
| 2 Button Panel – Stainless | 01-205-00 |
| 2 Button Panel – Brass | 01-206-00 |
| Last Man Out Panel – Stainless | 01-207-00 |
| Last Man Out Panel – Brass | 01-208-00 |
| 5 Button + Raise & Lower Panel – Stainless | 01-213-00 |
| 5 Button + Raise & Lower Panel – Brass | 01-214-00 |
| Frog Box Controller | 00-731-01 |
| Touch Screen - White | 01-220-00 |
| Touch Screen – Stainless | 01-221-00 |
| RS232 Link | 01-211-00 |

* Available to special order

Note

Chilli refers to dimmers shipped with single pole breakers
Chilli Pro refers to dimmers shipped with neutral disconnect breakers.

System Example – Small Club

