Zero 88 Dealer Training

Product Awareness

Module 3 - Chilli Range

COOPER Controls

The Evolution… Module 3 – Chilli Range

- The Zero 88 Chilli dimming range was introduced to the market 8 years ago. Designed to compete with the Strand LD 90 dimmer, which was, at that time, the dominant product in the market.

- The Chilli Range launched as two models, the Chilli Basic and the Chilli Pro – the basic was an entry level version, designed to cater for the entertainment needs of the entry level market.

- The Chilli Pro had an enhanced software feature set. It was designed to meet the needs of the pro user and to cater for the emerging "Architainment" market.

- Over time the two variants have evolved, today both variants offer the same software feature set. The Chilli Pro has become a European variant and the Chilli now the UK variant, the only distinguishing feature being a neutral disconnect breaker.

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- The range includes 4, 12 and 24 channel variants
- 12 & 24 Channel versions available in either 10Amp or 16Amp per channel
- 6 & 12 Channel 25Amp versions available to order
- Special 4 and 12 Channel HF versions to control dimmable high frequency ballasts/fluorescents or simply used as a switch pack.
- Dimmers are capable of dimming resistive and inductive loads and dimmable electronic transformers.
- Control is via DMX512 or our custom written ChilliNet protocol or a combination of the two.
- Each channel of the dimmer can have its own DMX address, Preheat and Topset levels.
- Each channel has MCB protection, Pro versions feature a Neutral Disconnect Breaker.
- A built in user interface, comprising a backlit 16 button numeric keypad and LCD screen allow easy programming and system setup.
- Installation of the dimmers is simple, the unit is located by two screws and secured by a further two.

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- 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.

- The ChilliNet, network 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 a highly hostile environment 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 1000 metres in length.

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What is ChilliNet?

Channels & Area's

- The ChilliNet software enables the use of "zones" or "areas". Easy to use 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. The software enables one dimmer to be split into areas, each area having a number of channels and each area with its own control panel/s. This makes for shorter installation time and reduced costs as only one mains supply is needed and only one dimmer installed.
- More complex systems can be used with multiple dimmers as shown in the table opposite. This example uses 12 channel dimmers.

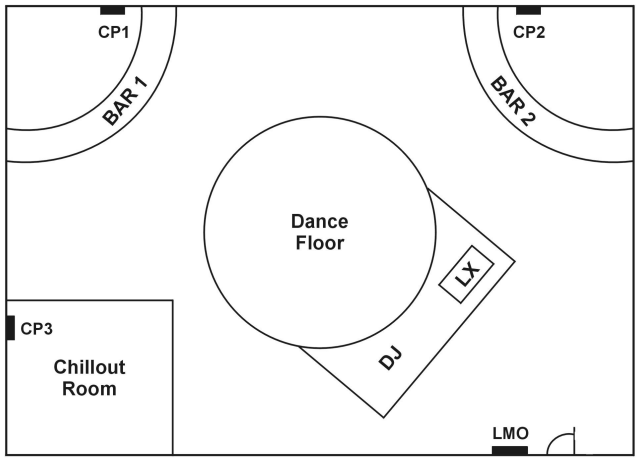
	Dimmer 1	Dimmer 2	Dimmer 3	Dimmer 4
Channel 1	Area 1	Area 5	Area 5	Area 9
Channel 2	Area 1	Area 5	Area 5	Area 9
Channel 3	Area 1	Area 5	Area 6	Area 9
Channel 4	Area 2	Area 5	Area 6	Area 9
Channel 5	Area 2	Area 5	Area 6	Area 9
Channel 6	Area 2	Area 5	Area 6	Area 9
Channel 7	Area 3	Area 5	Area 7	Area 10
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

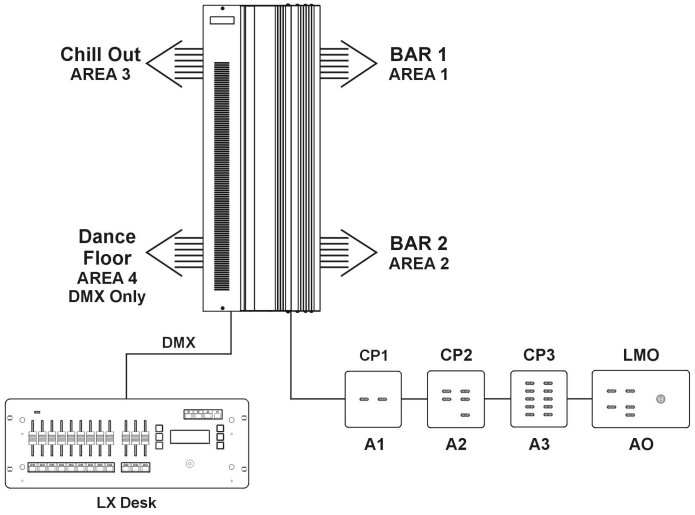
Memories & Sequences

- The software allows for 12 memories per area, giving a total of 120 memories per network. 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”.





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- In addition to the 10 areas described previously, 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.

System Controllers… Module 3 – Chilli Range

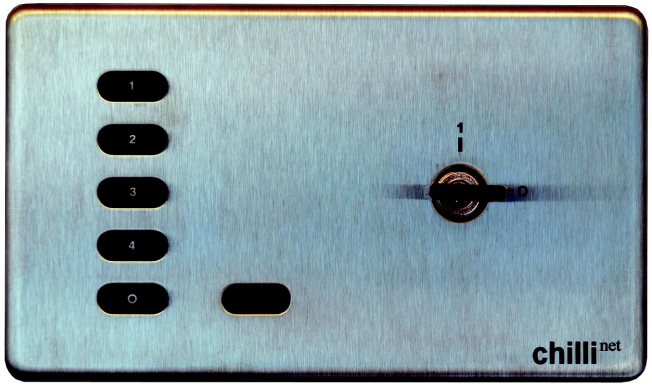
System controllers enable access to all dimmers and areas on a network. The Master Controller & Master Touchscreen also provide remote access to each dimmer, allowing configuration and programming of an entire system from a single source

The Master Controller

The master controller duplicates the functions of the dimmers user interface in doing so 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

The Master Touchscreen

The master touchscreen provides a graphical interface to the Chilli dimmer range, like the master controller it is possible to set all the functions of the Chilli dimmer remotely. Various lock levels allow the user to control access to the system settings. All areas and memories can be accessed via a simple touch interface.



The Last Man Out Panel

The last man out panel is usually employed at the entrance/exit to a building. The double gang panel consists of 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 delay of 30 seconds. This allows the user to exit the building and lock up.

The last man out panel has a second configuration option which allows the keyswitch to turn the panel, and any panels down line of it, off. Useful during a show where the users wishes to disable the panels in the auditorium.

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Replay Panels… Module 3 – Chilli Range

Several replay panels are available to facilitate memory playback from the dimmers. These are “dumb” panels which provide direct access to stored memories. These can be configured to work in any area on the network, or be designated as a Master Panel for overall control of all areas. The panels have been designed to fit a standard UK single gang back box and are available in either brushed stainless steel or brass finishes with illuminated buttons.

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

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Raise & Lower – This is a 7 button panel allowing access to the first 4 memories from 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.

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System Integration… Module 3 – Chilli Range

The ChilliNet system can be integrated with a number of third party systems, such a Crestron, AMX and LightFactory for a more sophisticated control solution.

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, areas 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 1 second. These inputs can be connected to Fire and Panic alarm systems providing the security of a fully integrated system.

Why buy from Zero 88?

- All products come with a 3 year warranty
- Extensive national and internal dealer support network
- Reliable solid products, built on strong foundations
- Free training held monthly at our offices. Training arranged globally on request
- Continuous development cycle, all software updates are available free of charge
- Busy support forums, help you find answers to your questions even when the office is closed
- ISO 9001 accredited company

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- Thank you for completing the Chilli Range product awareness module!
- For further information please visit our website www.zero88.com
- Or Call us at the office on +44 (0) 1633 838088