VISUAL
PRODUCTIONS

lighting control

BSTATION2
WALL-MOUNT BUTTON PANEL

CUECORE3
ARCHITECTURAL LIGHTING CONTROLLER

B-Station2

The B-Station2 is a wall-mount button panel with 6 push-buttons. It can remote control the CueCore, DaliCore, IoCore or LPU-2. The buttons have a RGB light-ring and can provide visual feedback, for example, to indicate the selected cue or active show. Multiple units can be networked together.

The B-Station2 fits European and North American gang boxes. Easy to wall-mount, even when no gang box is available. The B-Station2 contains an inbuilt lighting controller that is sufficient for small architectural projects.

CueCore3

The CueCore3 is the flagship lighting controller for the most demanding architectural lighting projects. Equipped with a powerful CPU and large flash memory, this CueCore offers extensive programming possibilities in terms of playbacks, recordings and automation.

The CueCore3 is supported by the Purple Cloud, a remote management platform that allows users to remotely monitor, troubleshoot and reprogram the devices.

6 Push-Buttons
The buttons are lit by RGB LEDs. There is complete freedom in choosing which function is assigned to the buttons.

16 Playbacks
The additional playbacks offers flexibility in implementing the project requirements and makes it easy to control more zones.

Stand-Alone Controller
Control small architectural installations stand-alone with the inbuilt lighting controller for 32 fixtures and 6 zones, including FX Generator.
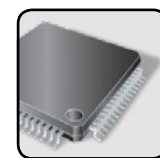
6 GB memory
6 GB of memory is available for external DMX recording. This memory size allows extensive recording of pixel heavy DMX shows.

Control AV equipment
B-Station2 speaks many protocols that are popular in systems integration. Compatible with equipment like media players and show control.

Purple Cloud
Connect to the Purple Cloud and get real-time monitoring or remote control. This makes it possible to diagnose and fix problems remotely.

Multi Protocol
Support for various protocols including DMX- 512 and Ethernet based protocols such as Art- Net, sACN, UDP & OSC.

RDM
The DMX ports on the CueCore3 are RDM compatible, enabling RDM commissioning and monitoring the status of your RDM fixtures.
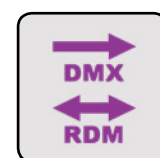
Power over Ethernet
This device is conveniently powered by PoE (Power over Ethernet). No separate power supply is needed. The B-Station2 uses PoE Class I.

Fast web interface
The CueCore3 is equipped with an intuitive and real-time web GUI. Make all functions available without the need to install special software.

CUECORE2
ARCHITECTURAL LIGHTING CONTROLLER

QUADCORE
ARCHITECTURAL LIGHTING CONTROLLER

CueCore2

The CueCore2 is a 1,024 DMX channel lighting controller for permanent installations. The device is completely solid-state, with no moving parts. It is an extremely secure and low-maintenance installation control solution that has only a minimal power consumption.

All operating and programming is done through its dynamic web interface. Each CueCore2 includes a 2-universe licence for the CueluxPro software.

QuadCore

The QuadCore is a solid-state lighting controller that features 2,048 DMX channels across 4 DMX outputs. The onboard flash memory allows for storing DMX shows.

The QuadCore includes a 4-universe license of CueluxPro. Larger universe numbers are achieved by stacking more QuadCores. Targeted at channel hungry projects that typically involve pixel mapping, the QuadCore reduces the cost per DMX universe.

Stand-Alone Playback
Simultaneous playback of dynamic DMX shows or static lighting scenes. They can be recorded from DMX, Art-Net, sACN or CueluxPro.

Show Control
Events can be triggered via weekdays, date, time, sunrise, sunset, DMX, Art-Net, sACN, HTML, TCP, UDP and OSC.

Timecode
Trigger events or synchronise playback by timecode. Both units support Art-Net, CueCore2 also features SMPTE and MTC.
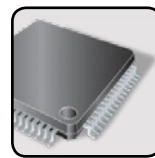
MIDI (CueCore2 only)
IN and OUT port supporting MIDI, MSC and MMC. Incoming messages can be used to trigger functions within the CueCore2.

GPI (CueCore2 only)
The GPI port features 4 dry contact-closures, which can trigger any event within the CueCore2. The ports can also be set to 0-10V level input.

Solid-State
The units are constructed without any moving part or forced cooling. Data is securely stored in onboard flash. Designed for maximum reliability.

Internal Clock
The internal clock is used for scheduling events based on time, date or weekday. NTP is supported for synchronising with an external server.
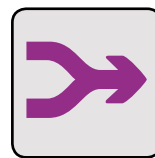
Master-Slave
Multiple Cores can easily be used together. Only the master needs to have its triggers programmed, the slaves will follow in sync.

Ethernet-DMX node
The devices can also function as a 2- or 4-universe bi-directional Ethernet to DMX node. It supports Art-Net, sACN and KiNet.

DMX Merging
The QuadCore can merge incoming data from DMX, Art-Net and sACN. The merging behaviour can be determined by setting the HTP or Priority.
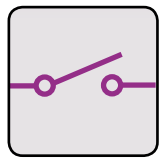
IOCORE2
GPIO INTERFACE

DALICORE
ARCHITECTURAL LIGHTING CONTROLLER

IoCore2

The IoCore2 is an expansion module in the product family of solid-state lighting controllers. It offers interfacing to digital and analogue inputs and digital outputs and supports various other protocols that are common in lighting and show control.

The compact and versatile IoCore2 is the ideal expansion for the CueCore and QuadCore in projects that demand more IO. Furthermore, IoCore2 is equally well suited for stand-alone IO interfacing or working together with any third-party show control system.

DaliCore

The DaliCore is an application lighting controller that supports DALI, DT-6 and DT-8. An ideal solution for a stand-alone DALI installation as the DaliCore takes care of the commissioning and daily control of the DALI fixtures.

Featuring a bi-directional DMX port, the DaliCore is capable of controlling hybrid systems containing both DALI and DMX luminaries.
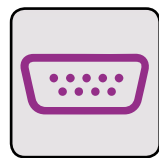
Inputs
The eight GPI ports can be configured as digital contact-closures, or as analog 0-10V level inputs ideal for sensors.
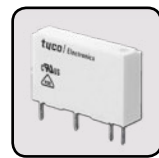
Outputs
The IoCore2 features eight GPO ports. These ports are relays for creating pulses on contact-closures or switching external equipment.
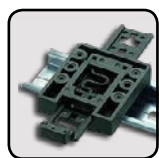
RS-232
The bi-directional serial port allows integration with legacy equipment. RS-232 can be used for triggering and conversions.

DMX
The DMX port is switchable between input and output. It can be used for conversion (e.g. GPI->DMX) or triggering (e.g. DMX->RS-232).

DIN Rail
The desktop IoCore can be easily mounted on a DIN rail by using the optional DIN rail mount adapter.

DALI
Control up to 64 DALI fixtures including DT-8 and interact with DALI actuators and sensors. Commission fixtures, set addresses and groups.

DMX
Control DMX fixtures, use DMX to trigger DALI scenes or convert between DMX and DALI.
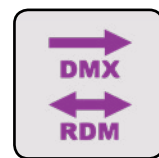
RDM
Discover RDM capable DMX fixtures and set their starting addresses remotely. RDM sensor readings are displayed in the web-GUI.
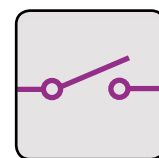
GPI
The GPI port features 4 dry contact-closures, which can trigger any event within the DaliCore. The ports can also be set to 0-10V level input.

Ethernet
Plug into the ethernet network and extend the DaliCore by connecting to B-Station, CueCore, IoCore or Kiosc.

TIMECORE
TIMECODE TOOLBOX

KIOSC
CUSTOM TOUCH SCREEN

IOS ANDROID WIN MACOS LINUX

Timecore

Entertainment shows and themed environments require show-disciplines like sound, lighting, video, animatronics and pyrotechnics to be synchronised.

The TimeCore is a one-stop toolbox for timecode; it is a reliable device for generating, following and converting various timecode protocols; both traditional protocols like SMPTE and MTC as well as new Ethernet-based protocols.

Kiosc

Kiosc enables to create custom touch screen user interfaces for Visual Productions' controllers. Kiosc is designed to have no editing capabilities, making it a foolproof interface that can be safely presented to non-technical operators.
Kiosc is available as a wall-mount touchscreen. It is a plug & play, 7 inch resistive touchscreen with 800x480 resolution. Kiosc Touch uses PoE Class III. The Kiosc App can also be downloaded for your own iOS, Android, Windows, macOS and Linux devices.

Display
A large LED display gives a real-time readout on the current timecode frame. The timecode can also be monitored via the web-interface.

Generator
The TimeCore can be set to be a timecode master, generating a stable timecode signal. The device can also be set as a timecode slave.

Convertor
The TimeCore is capable of converting between any of the SMPTE, MTC and Art-Net timecode protocols and frame-rate.

Custom Logos
Enrich the graphical user interface with your own images such as company logos or project-specific images.

Lighting GUI
Kiosc provides you with a graphical user interface that is perfect for controlling lighting installations.

Editor
Kiosc is accompanied by the Kiosc Editor that allows you to easily design custom layouts, including the use of images and logos.

RdmSplitter

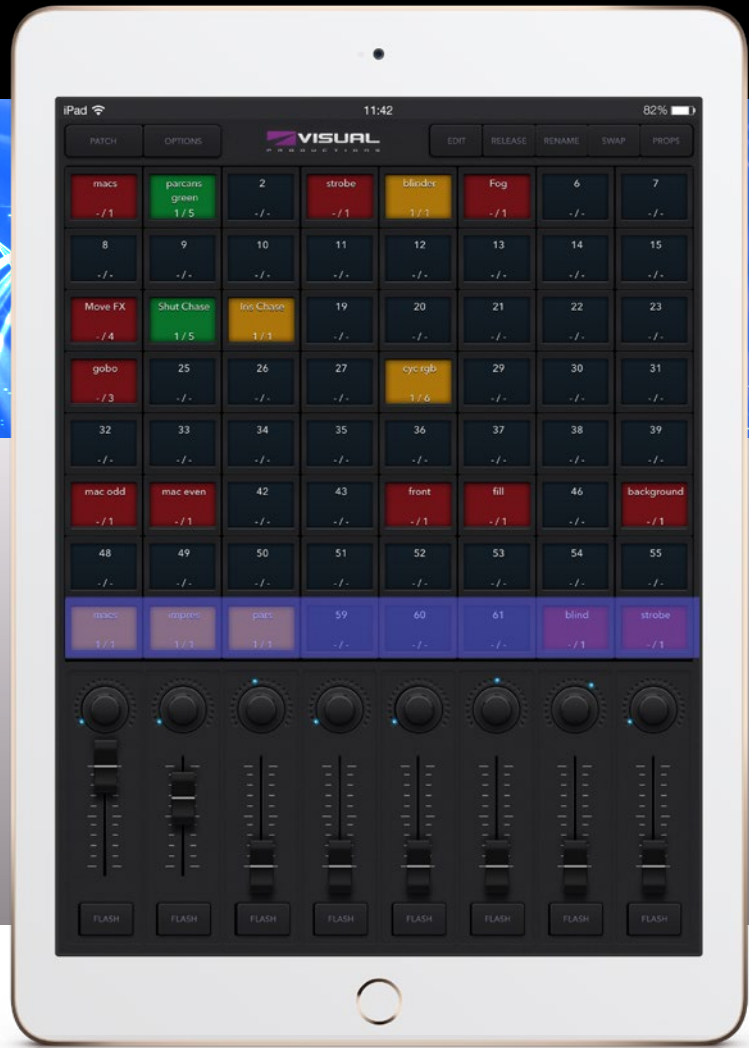Optically isolated splitter for distributing and boosting DMX-512 signals.

- 6 DMX-512 Outputs
- RDM
- Optical isolation per port
- DIN Rail mounted
- 9-24V DC
- Terminal and RJ-45 version

DmxMerger

Optically isolated DMX-512 merger in a DIN rail form factor.

- 3x HTP input
- 2x LTP input
- 1x Priority input
- Optical Isolation per port
- DIN Rail mounting
- 9-24V

Cuety

Cuety is a new generation lighting controller that turns your iPad or Android tablet into a powerful lighting console. Easy to use and budget friendly, Cuety enables you to take full advantage of the tablets mobility and multi-touch display. The controller has full support for moving heads, LEDs, conventional lighting and DMX controlled special effects.

LPU

The Cuety app requires the LPU-1 or LPU-2. This device is connected via Ethernet and offers a optically isolated DMX-512 port.

Architecture

The system architecture of the Cuety and LPU is designed for robustness. The LPU contains the engine that runs your show, calculates fade times and renders dynamic FXs. The App is your user-interface.

Cuelist

Cuety adapts the cuelist-based system standard to the professional lighting industry. You will be programming your lights according to the same workflow that LDs use for stadium-size events. Cuety just simplifies it.

FX

An inbuilt FX generator provides you with automatic movements for pan & tilt, various intensity chases and colourful RGB effects. The FX generator can be tweaked by changing its speed, size and phase parameters.

Remote

The Cuety Remote is a simple and intuitive app for your iPhone. It allows you to remote control your LPU. You can use it to call up your pre-programmed cues with-out the risk of inadvertently making a change.

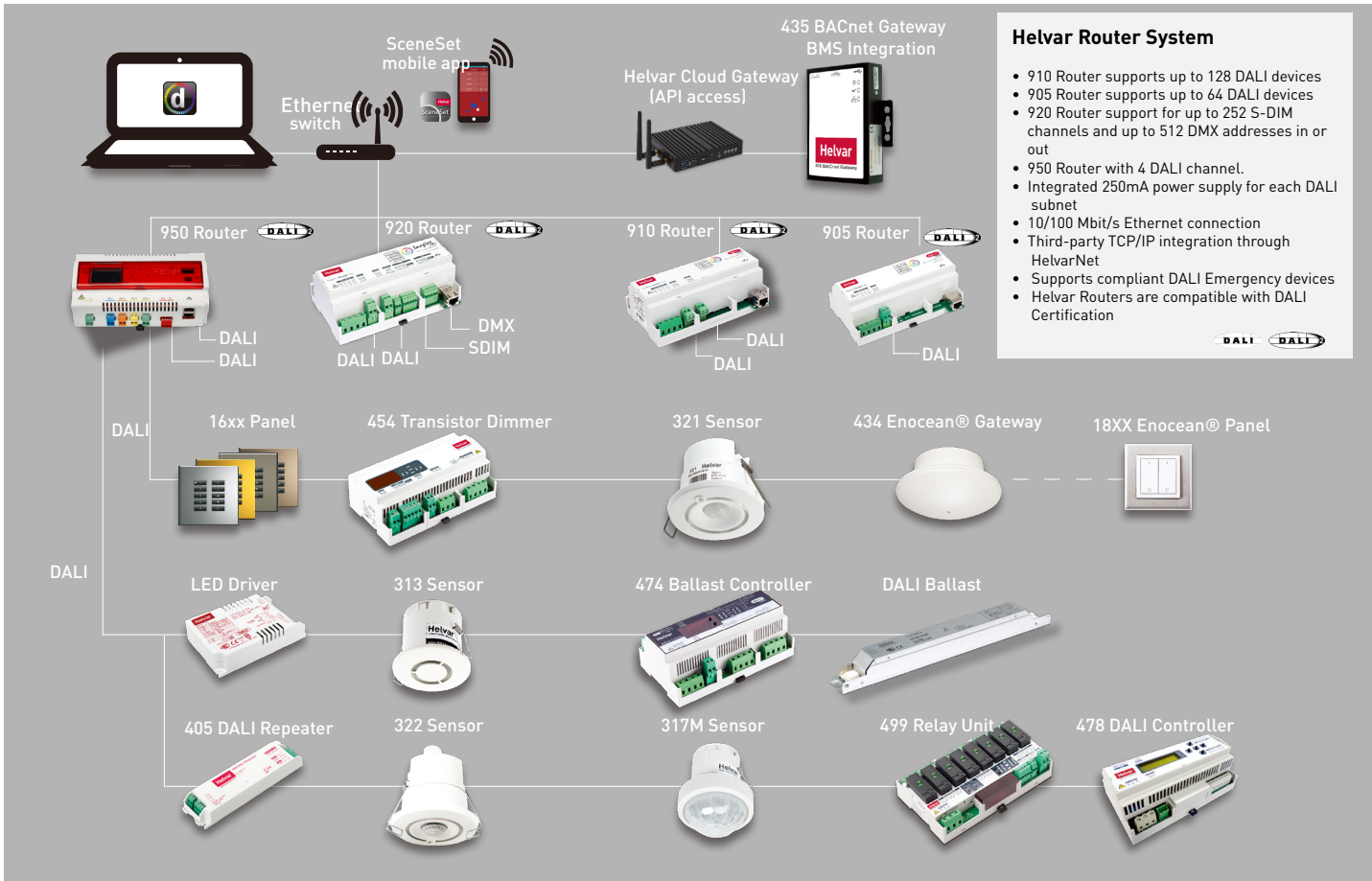|	LPU-1	LPU-2
Market	Entertainment	Installation
DMX Channels	512	512
Fixtures	64	64
Playbacks	64	64
Cues per Playback	48	48
FX Generator	✔	✔
Personality Files	4500+	4500+
HTTP		✔
TCP		✔
UDP		✔
OSC		✔

Helvar

Lighting Intelligence

About Helvar

- Founded in Helsinki , Finland in 1921, 100 years of history.

- Global partners in more than 40 countries.

- More than 90 years of experience in the electronics industry and more than 60 years of professional lighting and control product manufacturing experience.

- More than 3500 job references worldwide in different industries, including: Hotels, Commercial, Residential, Industrial, Exhibition hall, Education, Medical, Cruise....

- A core member of DALI Alliance - A Global manufacturing association based on the DALI standard.

- The unique 'Light Over Time' function can automatically set and maintain the correct color temperature and brightness output.
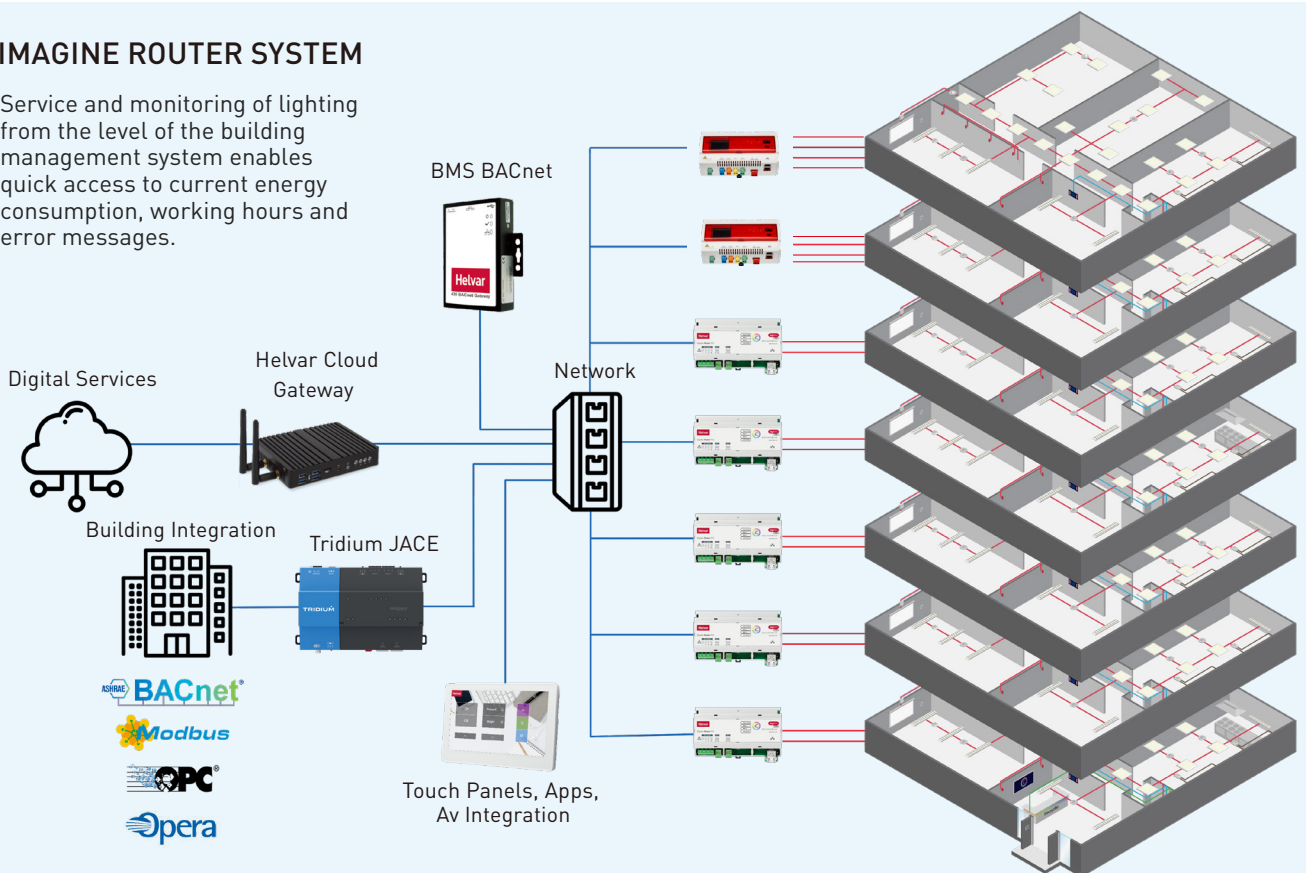
Example configuration

Note, the Imagine system is compatible with a wider selection of components

SceneSet mobile app

Ethernet switch

435 BACnet Gateway BMS Integration

Helvar Cloud Gateway (API access)

950 Router DALI
920 Router DALI
910 Router DALI
905 Router DALI

DALI
DALI

DMX
SDIM

DALI
DALI

DALI
DALI

DALI

Helvar Router System

- 910 Router supports up to 128 DALI devices
- 905 Router supports up to 64 DALI devices
- 920 Router support for up to 252 S-DIM channels and up to 512 DMX addresses in or out
- 950 Router with 4 DALI channel.
- Integrated 250mA power supply for each DALI subnet
- 10/100 Mbit/s Ethernet connection
- Third-party TCP/IP integration through HelvarNet
- Supports compliant DALI Emergency devices
- Helvar Routers are compatible with DALI Certification

DALI DALI

DALI

16xx Panel
454 Transistor Dimmer
321 Sensor
434 Enocean® Gateway
18XX Enocean® Panel

DALI

LED Driver
313 Sensor
474 Ballast Controller
DALI Ballast

405 DALI Repeater
322 Sensor
317M Sensor
499 Relay Unit
478 DALI Controller

IMAGINE ROUTER SYSTEM

Service and monitoring of lighting from the level of the building management system enables quick access to current energy consumption, working hours and error messages.

BMS BACnet

Digital Services

Helvar Cloud Gateway

Network

Building Integration

Tridium JACE

BACnet®

Modbus

OPC®

Opera

Touch Panels, Apps, Av Integration

Imagine

910 Router

The 910 Router uses an Ethernet connection (10/100 Mb/s) as a network backbone to seamlessly combine DALI networks.

Basic functionality is available out of the box without any programming. Helvar's Designer software allows for advanced configuration and functional programming of the router.

The system provides energy-saving features via presence detection and daylight harvesting. Further automation can be achieved through scheduled events.

A PC can be connected to the system for diagnostics and logging purposes if required, but there is no need for PC control in daily operation, as all data is stored within the system itself. The elimination of a central controller ensures that no single point of failure can cause a total system shutdown.
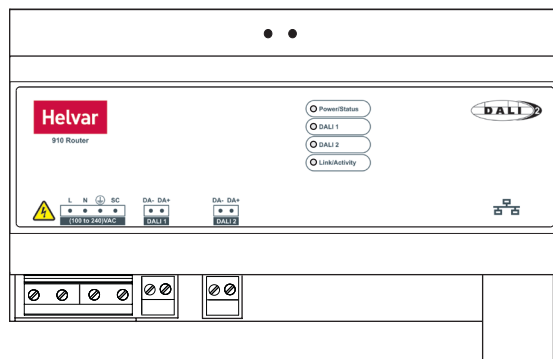
Key Features

- Support for 128 DALI devices (64 DALI devices on each subnet).
- Certified DALI-2.
- Built-in real-time clock.
- Can be networked together to form large scalable systems.
- Provides local as well as central control if required.
- Compatible with other Helvar routers (905/920).
- Integration with other building systems.
- Universal supply input.

Installation

AC

DALI 1 and 2
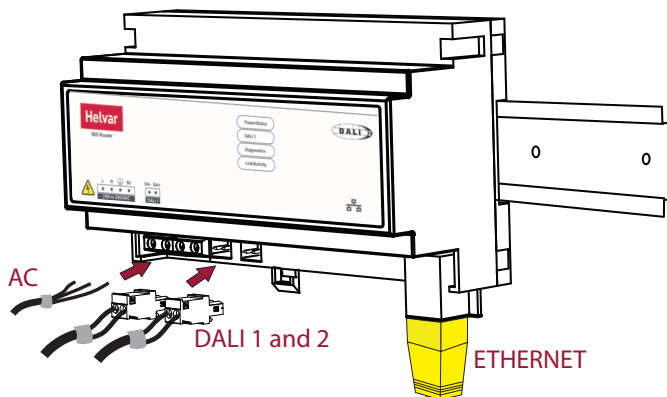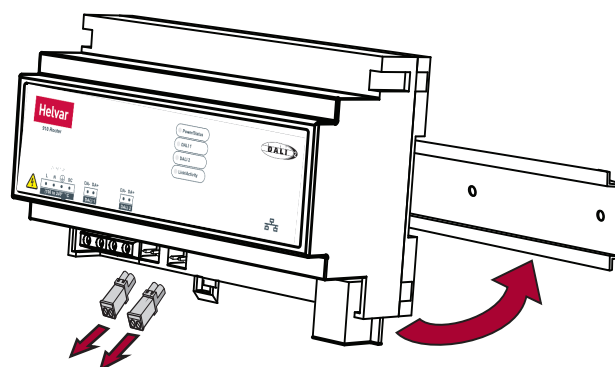
ETHERNET

Technical Data

Connections

Mains cable:	Solid core up to 4 mm² Stranded up to 2.5 mm²
DALI cable:	2-wire mains rated, 0.5 mm² – 2.5 mm² Max. length: 300 m @ 1.5 mm²
Ethernet:	1 × RJ45 10/100 Mb/s, Cat 5E up to 100 m (Auto MDI/MDI-X crossover)

Power

Mains supply:	100 VAC – 240 VAC (nominal) 85 VAC – 264 VAC (absolute) 45 Hz – 65 Hz
Power consumption:	23 VA (DALI subnet fully loaded)
Power circuit protection:	External protection max. 6 A. Earth mandatory.

DALI output supply

DALI-OUT current:	2 × 240 mA (guaranteed) 2 x 250mA (maximum)

Mechanical data

|	
Dimensions:	9U – 160 mm × 100 mm × 58 mm
Weight:	260 g
Mounting:	DIN Rail. Keep mains and DALI wiring separate from Ethernet cable.
IP code:	IP30 (IP00 at connectors)

Operating and storage conditions

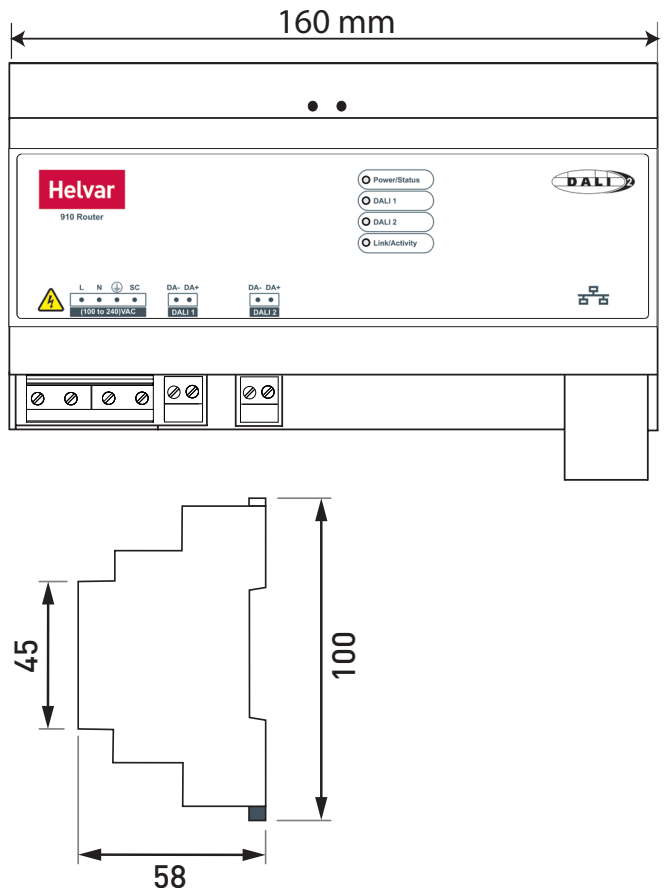|	
Ambient temperature:	0 °C to +40 °C
Relative humidity:	Max. 90 %, noncondensing
Storage temperature:	–10 °C to +70 °C

Conformity and standards

DALI data transfer:	DALI-2 Application Controller (Single Master) parts 101, 103
EMC emission:	EN 55022 Class A
EMC immunity:	EN 55024
Safety:	EN 60950
Environment:	Complies with WEEE and RoHS directives.

Inputs/Outputs
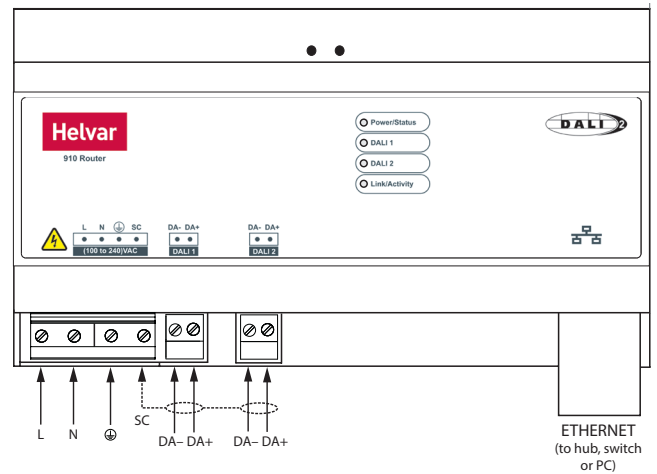
Dimensions (mm)

8-Channel Ballast Controller Module (458/CTR8)

The 458/CTR8 is an eight-channel digital ballast controller module capable of controlling 0–10 V, 1–10 V, DSI®, DALI broadcast or PWM loads. It has both a DALI and an SDIM/DMX interface, and therefore can be fully integrated into a DIGIDIM or an Imagine router system. It can also be used on the TouchPanel or on standalone DALI or DIGIDIM systems.

The module has eight high-inrush relays, rated at 16 A per channel.

The front of the module is equipped with an LCD display and a keypad to set basic configuration parameters and provide basic control of channel and output levels.

The module is easily fitted to a 458Mx chassis, in which each load channel is protected by an individual MCB.

Note: *The 458/CTR8 8-Channel Ballast Controller Modules are supplied separately from the 458Mx chassis.*

LCD Display

Key Features

- Easily attached to a 458Mx chassis and connected to the mains supply for quick installation.
- LCD display screen and a five-button keypad for monitoring, configuration and manual control.
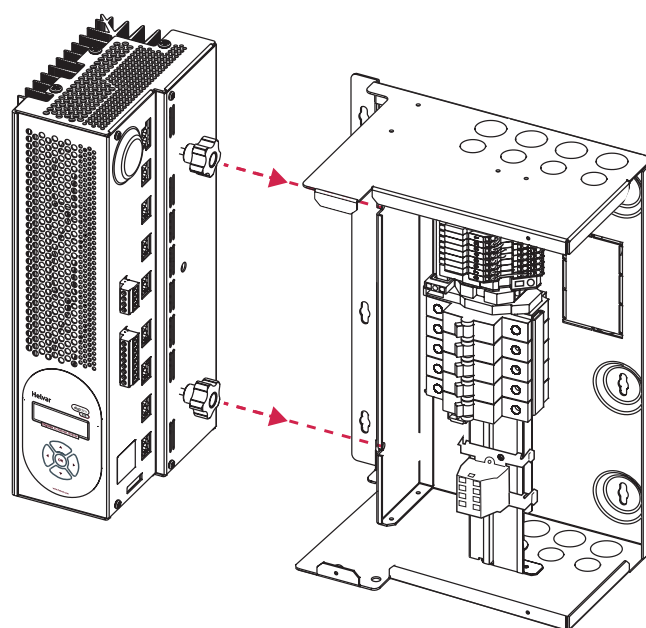- Universal mains power supply: 85 VAC – 264 VAC (absolute).

Control Features

Each channel of the control module can be configured to operate in any of the following modes:

- 0–10 V $\rightarrow$ source 20 mA
- 1–10 V $\rightarrow$ sink 100 mA
- DSI® (Digital Signal Interface) $\rightarrow$ source 100 mA
- PWM (Pulse Width Modulation) $\rightarrow$ source 100 mA
- DALI broadcast $\rightarrow$ source 100 mA

DSI® is a registerd trademark of Tridonic GmbH.

Technical Data

Connections

DALI: 0.5 mm² – 1.5 mm² (max. 300 m @ 1.5 mm²)

SDIM/DMX: 0.22 m² – 1.5 mm² low-loss RS485 Type (multistranded, twisted and shielded)

Override (OVR): 0.5 mm² – 1.5 mm² (screened and twisted)

Relay

Relay contacts: High inrush, single pole, single throw (SPST), normally open (NO), volt-free

Voltage: 400 VAC

Max. load per contact: 16 A resistive/incandescent, 10 A HID (cos y = 0.6).
Note: For ballasts, quantity is limited by MCB: refer to manufacturer's data. External protection must not exceed 16 A type C MCB.

Outputs

0–10 V: Source 20 mA

1–10 V (50 ballasts): Sink 100 mA

**DALI/DSI®
(50 ballasts):** Source 100 mA

PWM +/– (50 ballasts): Source 100 mA

Power

Mains supply: 100 VAC – 240 VAC (nominal)
85 VAC – 264 VAC (absolute)
45 Hz – 65 Hz

Power consumption: 1.2 W (excluding loads)

Protection

Power circuit protection: 6 A max. external protection, earth mandatory

Thermal protection: Control board – resettable fuse

Installation

Mounting: Attached to 458M1, 458M2, or 458M3 chassis

Mechanical data

Dimensions: 105 mm × 360 mm × 170 mm

Housing: Powder coated steel (black)

**Weight:** 2.2 kg

IP code: IP20

Operating conditions and storage

Ambient temperature: 0 °C to +40 °C

Relative humidity: Max. 90 %, noncondensing

Storage temperature: –10 °C to +70 °C

Conformity and standards

EMC emission: EN 55015

EMC immunity: EN 61547

Safety: EN 60950

DALI data transfer: According to DALI standard IEC 60929, with Helvar extensions

SDIM data: Helvar protocol (RS485, 115 kbps)

DMX data: DMX512-A protocol (max. refresh rate: 33 Hz)

Environment: Complies with WEEE and RoHS directives.

Dimensions (mm)
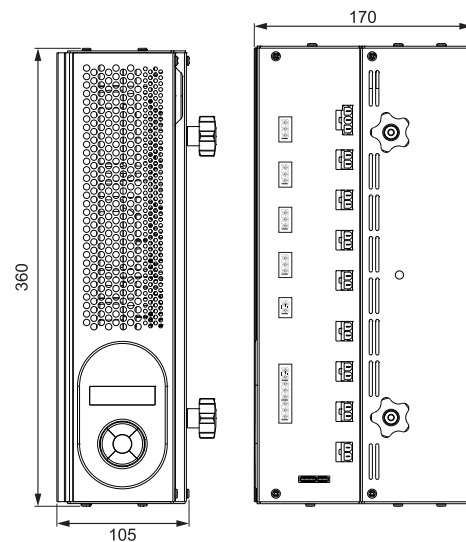
Connections
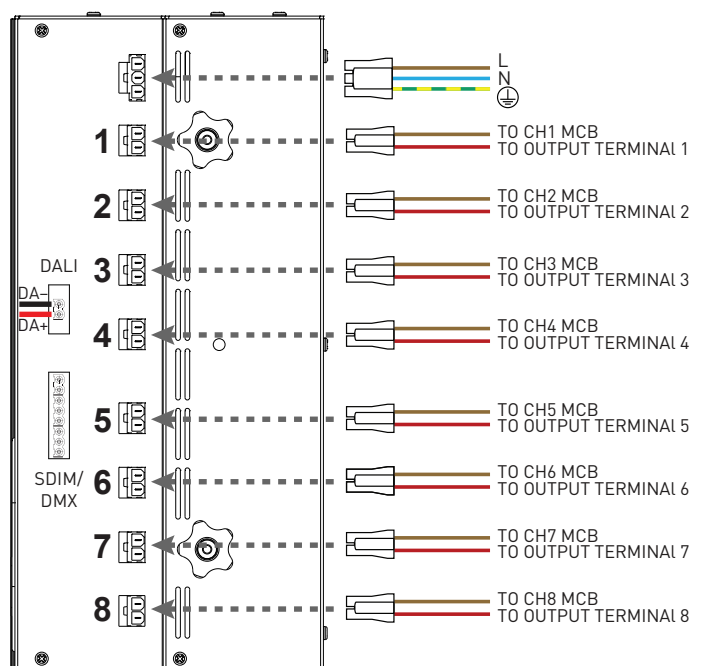
16xxx Control Panels

The 16xxx Series is a range of DALI-compatible button panels that allow control of the lighting system.

The buttons have LEDs indicating the selected scene. Each module is fitted with an infrared receiver that gives the option of remote operation using DIGIDIM hand-held remote control.

The 16xxx control panels are fully programmable in Helvar's Designer or Toolbox software.

Key Features

- Range of switch combinations, including customisable versions
- LED brightness programmable
- DIGIDIM/DALI
- Suited for UK back box only

Fascia Options

16xAB: Antique bronze
16xBN: Black nickel
16xMS: Mirrored stainless
16xPB: Polished brass
16xPN: Polished nickel
16xSS: Stainless steel
16xWH: Painted white

Customisable Versions

Both the button layout of the panels and the images or labels that are printed on each button can be customised:
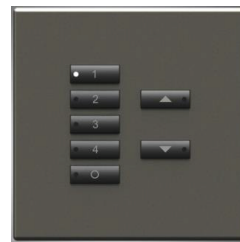
- Any button layout can be specified to a maximum of two columns of five buttons.
- The image or labels printed on the buttons can be chosen from the gallery shown on the next page.
- Other images or labels to meet individual tastes or themes can be tailored upon request.

161xx: On / Off

164xx: 4 Scenes + Off

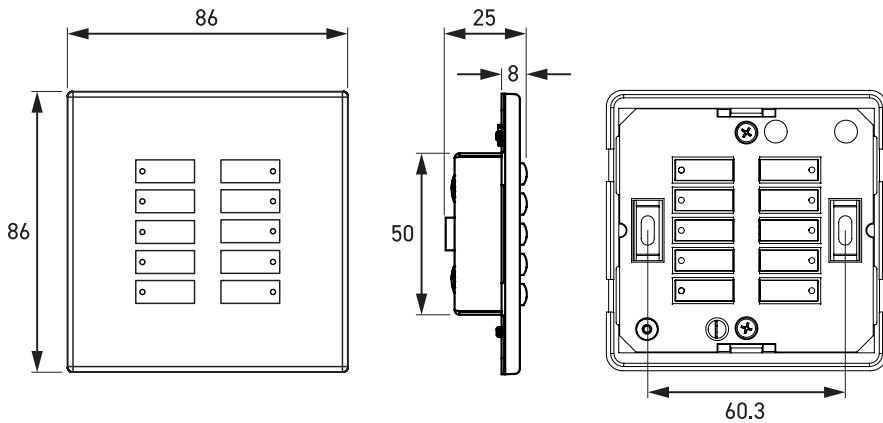

165xx: 4 Scenes
+ Off + Up / Down

166xx: 7 Scenes
+ Off + Up / Down

169xx: 9 Scenes + Off

Dimensions (mm)

Technical Data

Connections	
DALI:	2-pole connector block, rising clamp terminals, captive screw
	Wire section: 0.5 mm² – 2.5 mm²
	Recommended: 1 mm² – 1.5 mm²
	Max. length: 300 m @ 1.5 mm²
Cable rating:	All cables must be mains rated.

Electrical data	
DALI supply input:	13 V – 22.5 V
DALI consumption:	10 mA

Operation	
IR frequency:	36 kHz

Operating and storage conditions	
Ambient temperature:	0 °C to +40 °C
Relative humidity:	Max. 90 %, noncondensing
Storage temperature:	-10 °C to +70 °C

Mechanical data	
Dimensions:	86 mm × 86 mm × 25 mm
Housing:	Buttons: black plastic
	Fascia: metal
Weight:	150 g
Mounting:	Mount to back box
IP rating:	IP30

Conformity and standards	
Conformity:	CE UKCA
EMC emission:	EN 55015
EMC immunity:	EN 61547
Safety:	EN 61347-2-11
DALI:	IEC 62386
Environment:	Complies with WEEE and RoHS directives.

Software compatibility	
Designer:	4.2.18 or higher
Toolbox:	2.3.3 or higher

Introducing A Whole New Way To Think About Architectural Preset Stations...

SceneStation sets a new standard for full-featured, easy to use, cost-effective DMX lighting control. SceneStation is entirely self-contained in a single gang wall switch sized unit. Perfect for restaurants, high-end residential, trade show booths, churches and more, SceneStation can control nearly any DMX device (RGB fixtures, moving lights, dimmers, effects, etc.), while also remaining very simple for the end user.

SceneStation is dynamic. Instead of only offering the ability to play back a few simple "presets", SceneStation can be programmed to run shows with multiple steps, loops and beautiful built-in effects.

The secret is the power and flexibility of the built-in effects engine and fully-customizable preset buttons. SceneStation goes way beyond simple "presets" with the ability for each scene to have stunning effects such as Twinkle, Sparkle, various color animations and more. SceneStation's buttons can be programmed with advanced features like running chases, stepping sequentially through a list of scenes, toggle, momentary and pile-on functions and more. Additionally, each button includes fully-programmable RGB backlighting and the button caps can be optionally engraved with custom legends.

Another important feature of SceneStation is how easy it is to program. The powerful SceneStation Studio software (available for Mac or Windows) is a simple, but powerful graphical environment for setting up and building content for SceneStation.

- Completely Self-Contained
- SceneStation Studio software for Station Management, Programming and Operation
- Built-in Effects Engine for creating beautiful, dynamic scenes ✱
- 64 Scene Capacity
- Static, Sequential, Toggle, Chase, Momentary and Pile-On Modes for each button
- Programmable RGB Backlit Buttons
- Optional IR Remote for recalling presets or adjusting overall brightness ✱
- Multiple Master/Slave Stations via 2.4GHz Wireless Network
- DMX-512 Output with 44Hz Update Rate for silky-smooth fades and effects ✱
- Update DMX Snapshots Directly from Front-Panel ✱
- Automatic "Power-On" Preset Activation
- Automatic Console Backup
- 12-24V AC or DC Operation
- Decora® Wall Station Compatible
- Optional Button Engraving
- Available in White, Black, Ivory or Light Almond

✱ New in version 3.0

Interactive Technologies

Interactive Technologies, Inc.
www.interactive-online.com

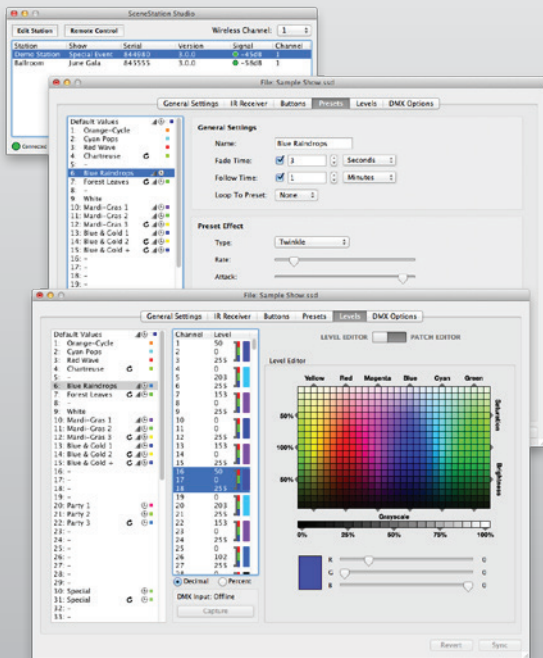# SceneStation
Architectural DMX Preset Station

Now With Built-In Effects!

Programming & Operation

SceneStation Studio
Programming Software for Mac or Windows

SS-USB-STICK
Wireless Programming Stick

SS-USB-DONGLE
Long-Range Wireless Dongle

SS-UR1
User's Remote

For triggering presets or adjusting grandmaster remotely.

SceneStation Models

SS-305
Architectural SceneStation

SS-310
Portable SceneStation

SS-315
Portable SceneStation Kit

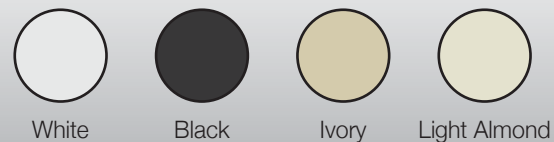## Custom Engraving

Personalize SceneStation for a specific Application

Color Options

Color Options for Architectural SceneStation

White   Black   Ivory   Light Almond

Effects

Color Cycle   Sparkle   Random Palette

Twinkle   Color Rotate

And More...

Typical Wiring

12-24V AC/DC

Optional DMX Input

DMX-512