Imagine

## 950 Router Datasheet

The 950 Router is a certified DALI-2 Multi Master Application Controller capable of controlling DALI-2 Lighting, DALI-2 Controls as well as Helvar's unique range of loads and controls which also connect to the DALI-2 network.

Control and power up to four DALI-2 networks with the 950 Router. Scale up to large and complex projects by networking multiple Imagine Routers together using standard TCP/IP Ethernet connection.

Programming can be carried out using Helvar's Designer software. All programming data is stored within the system itself eliminating a central point of failure and the need to always program with the latest saved configuration file.

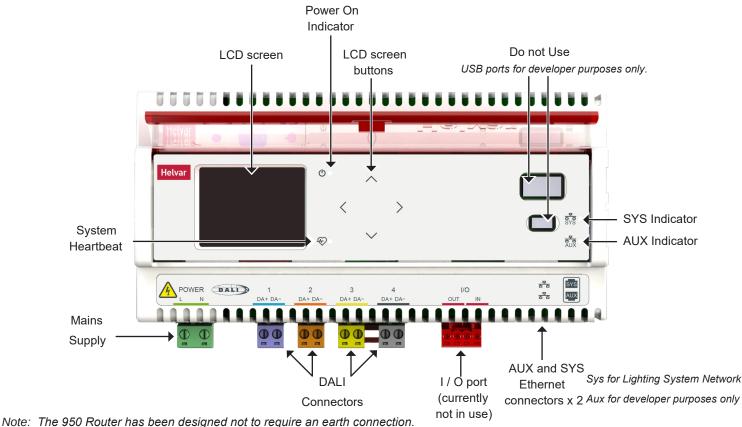


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## **Key Features**

- DALI-2 Certified Multi-master application controller.
- Support for 512 DALI devices (128 per subnet consisting of 64 lighting and Helvar DigiDim services + 63 DALI-2 Controls. Address
  128 reserved for Application Controller).
- Built in LCD for DALI network testing and alerts display.
- Built-in real-time clock.

- Can be networked together to form large scalable systems.
- Compatible with other Helvar routers (905/910/920).
- Integration with other building systems.
- LightOverTime Circadian Rhythm Control.
- No central database required for system operation.



Note: Where DALI cable has screen, terminate to cabinet earth.



## Technical Data

## Connections Mains cable:

Connections		Helvar
Mains cable:	Solid core up to 2.5 mm <sup>2</sup> Stranded up to 2.5 mm <sup>2</sup>	
Note: The 950 Router has been designed not to require an earth connection.		
Note: Terminate all DALI s	creen cables to cabinet earth.	
DALI cable:	0.5 mm² – 2.5 mm² Max. length: 300 m @ 1.5 mm²	
Ethernet:	2 × RJ45 10/100/1000 Mb/s, Cat 5E up to 100 m (Auto MDI/MDI-X crossover)	
	Sys for Lighting System Network Aux for developer purposes only	
Power supply Dimensions (mm)		
Note: See router variants se	ection below.	
Mains supply: 24	10 V: 220 VAC – 240 VAC (nominal) 198 VAC – 264 VAC (absolute) 45 Hz – 65 Hz	
110V:	100 VAC – 120 VAC (nominal) 90 VAC – 140 VAC (absolute) 45 Hz – 65 Hz	Helvar -
Power factor:	>0.95 at full load	
Power consumption:	35 W (All DALI subnets fully loaded)	Helvar Helvar
Power circuit protection:	Internal fuse. External protection according to supply wiring, max. 6 A.	
DALI Network Limitations		
DALI-OUT current:	4 × 240 mA (guaranteed) 4 x 250mA (maximum)	
Mechanical data		
Dimensions:	10U –177 mm x 99.5 mm x 58 mm	
Weight:	460 g	
Mounting:	DIN Rail. Keep the Ethernet cable separate from all mains and DALI wirings.	
IP code:	IP20 (IP00 at connectors)	
LCD:	Colour display 320x240px	
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 (Multi Master) IEC62386 Part 101, 103 See DALI Alliance Website for full detail of supported parts https://www.dali-alliance.org/products	
EMC emission:	EN 55032 Class A, EN 55015	00000000000000000000000000000000000000
EMC immunity:	EN 55024, EN 61547	
Safety:	EN 61347	
Environment:	Complies with WEEE and RoHS directives.	
	Body: White (RAL 9003)	Helvar   = ;
	id:Translucent red (RAL 3027)	
	ody: Polycarbonate	
	id: Polycarbonate	
Designer:5.7.0 or later. Note: To ensure complete DALI-2 compatibility, use only with Helvar recommended DALI-2 controls (control devices)		
Router variants (Mains Supply)		
950:240V version		
950-110V:110V version		

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