

Core



The Intelligent Hub for Unified Light & Sound Control



Description

K-array unveils the CORE, an intelligent control system designed to integrate audio and lighting into a single, streamlined platform within the KSCAPE ecosystem, simplifying configuration and management for architectural applications.

Housed in a painted aluminum enclosure, CORE manages up to four independent lighting channels (max 2 A per channel) and two audio channels, powered by an external 240 W PSU with 24 V or 48 V operation. Audio processing is handled via PureData (PD), while lighting control is managed through PWM signals.

Configuration and system control are executed through the proprietary CORE-OS software. With options for integrated mounting on RAIL or remote installation, CORE adapts seamlessly to corporate, residential, hospitality, and cultural environments, delivering unified control in a compact and elegant form.

Features

- Configuration: Audio & Lighting control unit
- Power supply: 24 Vdc / 48 Vdc via external 240 W PSU
- Lighting control: 4 independent channels, 2A
- Audio channels: 2 amplified outputs (50 W @ 4 Ω / 100 W @ 2 Ω)
- Software: CORE-OS configuration and control platform
- Installation: Integrated on RAIL or remote standalone mounting

Colors Available

- Black
- White
- RAL



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Technical Specifications

Type	Central control unit for audio & lighting
Control Platform	CORE-OS proprietary software
Lighting Control	4× PWM channels, max 2A per channel (48 W @ 24 V / 96 W @ 48 V)
Audio power channels	CH1: 50 W @ 4 Ω (BTL) / CH2: 100 W @ 2 Ω (PBTL)
Audio Processing	Pure Data (PD)
Connectivity & I/O controls	Ethernet (RJ-45), USB, DALI bus (PS), 2× GPIO
Power Supply	External 240 W PSU, 24 Vdc / 48 Vdc

Handling & Finishes

Material	Painted Aluminum
Color	Black / White / RAL _{custom}
Dimensions (W×H×D)	252.5 × 92 × 35 mm 9.94 × 3.62 × 1.37 in
Weight	0,53 Kg

1. With dedicated preset.
2. Maximum SPL is calculated using a signal with crest factor 4 (12 dB) measured at 8 m then scaled at 1 m.
3. For long-lasting installations, contact the manufacturer to ensure the appropriate IP protections.

All product components are designed and custom-made by K-array's R&D department, adhering to the company's stringent quality control standards.