

Dimming

Dimmer Modules

EC21 dimmer modules are built to last from heavy-duty formed aluminium, and incorporate the highest-quality power components and thermal-magnetic DIN circuit breakers. Standard circuit breaker options include single pole, neutral disconnect and RCD. Power pins are generously overrated at 150amps to ensure low heat rise and absolute reliability.

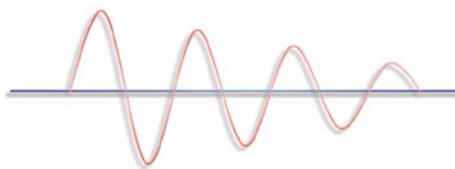
EC21 racks may be specified with any combination of dimmer modules. Modules are keyed to prevent insertion in inappropriate module slots.

Reporting and TrueSine™ modules also feature a status LED and a test switch for each dimmer circuit – one-touch dimmer testing from the rack, and level/status indication for every dimmer.

And when you just have to get a lot of dimmers in a small space – the EC21 quad is for you! With up to 144 dimmers in a full-size rack, EC21 offers exceptional density when space is at a premium.

TrueSine™ True silence and true economy

Strand's extraordinary TrueSine™ dimming technology gives you two 3kW or 5kW dimmers in a single EC21 module – full density, fully silent! TrueSine™ dimmers output a precise variable sine wave, with no sharp rising edges, and therefore no filament noise. TrueSine™ dimming is a must for concert venues and many houselight applications. But there's more – TrueSine™ dimming systems also eliminate triplen harmonics, meaning that the dimming system puts **no** noise on the power grid. With a power factor of 1, the expensive 'K-rated' supply transformer and oversized neutrals are no longer required, and power company harmonic surcharges are a thing of the past. On some new installations, a 100% Strand TrueSine™ dimming system can pay for itself within the first year of operation.



TrueSine™ module



EC21 Features

- Extra-high-density modular dimming system
- 24, 48 module racks with lockable EasyView™ steel doors
- Matching 19" equipment rack
- Up to 96 20amp TrueSine™ dimmers per rack
- Rocker-style magnetic circuit breakers with high-visibility trip Indication
- Up to 192 20amp Quad SCR dimmers per rack
- Module reporting option (standard with TrueSine™ modules)
- Optional dimmer test/status indicators on reporting modules (standard with TrueSine™)
- Full range of SCR dimmers with 350µS, 500µS or 800µS filter chokes
- Single, Dual and Quad Contactor Modules
- Browsable Ethernet-based control module for 96 or 192 dimmers
- Dimmer status reporting via Web browser, Report.net and email
- Indicator beacon for rapid faultfinding
- Optional redundant tracking control module
- Hard-wired 'panic' backup works even if the rack controller is not present
- Full support for ACN*, DMX512, Strand Vision.net control systems
- Timed event programming
- 90-260Vac, 50/60Hz
- CE marked

* EC21 hardware is ACN-ready and will be upgrade able to full ACN functionality at such time as the ACN protocol is released for general use.



Single or dual electronic modules control up to 192 dimmers per rack. Panic controls may be wired to external switches/systems as required. EC21 Panic is fully functional even when the electronic modules are not present.

Strand Lighting
a Genlyte company

www.strandlighting.com

EC21 Dimmer Rack Mechanical Data

Construction: Formed steel assembly

Weight:

48-module rack: 223kg (296kg packed)

24-module rack: 181kg (198kg packed)

Dimensions (HxWxD)

48-module rack: 2032 x 623 x 600mm

24-module rack: 1448 x 623 x 600mm

Connections

Ethernet CAT 5 input for ShowNet™ or ACN control protocols

2 DMX512 inputs standard. 2nd DMX512

input can be used to support Strand

Outlook VN Architectural System, Strand

System-Wide Control (128 back-up presets)

RS485 interface for 3rd party AV controllers