



Strand Lighting

Dimming • Control • Luminaires

Catalogue



Strand Lighting

Creative. Unique. Superior.

Strand Lighting offers the world's most comprehensive and competitive range of luminaires, dimming equipment, control systems and software to answer the creative needs of lighting designers working in theatre, television, film, themed environments and sophisticated architectural applications.

The Strand Story

The Strand Electric Company began operating in 1914 to serve London's theatre district. In 1926, Century Lighting opened for business in New York to serve Broadway. Today, Strand Lighting, the union of these two companies, continues as the world's leading name in stage, television, motion picture, and architectural lighting and services. In 2008, Strand Lighting became part of the Philips Lighting Group. Philips is the world's largest lighting company. Vari*Lite and Strand Lighting are Philips' world-leading entertainment lighting brands.

Current Strand Lighting Operations

Unique in the breadth of its operations, Strand Lighting now serves the world from our various facilities. Los Angeles is our main location, supporting sales teams based throughout the Americas to serve our customers in those regions. European operations are based in our London Office, serving Europe, the Middle East and Africa. The Asia/Pacific region is supported from Strand Lighting's office in Hong Kong. Each of our sales groups work closely with its local network of distributors to ensure the most extensive distribution of products and services in the entertainment lighting industry.



Spring Awakening was the 2007 Tony Award Winner for Best Musical and Lighting Design. Strand Lighting congratulates Kevin Adams for his award winning design.

Strand Lighting Worldwide Locations

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"Spring Awakening"
lighting by Kevin Adams, photo by Doug Hamilton

Light Palette

Moving Light Consoles for the 21st Century

At last, the next generation of Light Palette consoles has arrived. Based on our powerful Palette OS with its direct action point and click graphical interface, these new consoles offer control to meet productions of any size. Systems are available from 1500 to 8000 channels with over 32,000 DMX outputs, providing exceptional range and control.

Light Palette has a powerful web browser that lets you configure and monitor your network and interact directly with Strand's award-winning C21 and EC21 dimming systems. Right there on the console screen. And Light Palette is an elegant and highly functional lighting console, leveraging industry-standard technologies and making it easy to communicate with other cool products (and not just ours) over the network. Whether you want to visualise your show with WYSIWYG or run a PowerPoint projection, Light Palette connects quickly and easily. Light Palette provides full support for multi-console operation as well. Now you can have one operator program conventional lights while another programs moving lights simultaneously on the same show.

And Light Palette's brain is a rugged industrial PC with a powerful Dual Core processor that could be swapped in seconds if you ever needed to. Which you most likely wouldn't. Light Palette has an 80 gigabyte hard drive, or you can save your shows anywhere on the network. Tracking back-up is available, too, either through a multi-console system or with a Rack Palette Back-up for total security for your show. You even get a USB key for show storage. On us. How cool is that?

PaletteOffline™ runs in Windows and imports Strand 300 and 500 series show files, so you can mix, match and swap to your heart's content.



All Light Palettes feature the latest in moving light control for shows of any size.

Communicating with your console has never been easier, as the latest generation of Light Palette brings real world language to your programming. Pan 50 degrees – Tilt 20 degrees are among the many instructions that you can apply to your rig.

Need to change a light out for a different model? No problem. Light Palette will automatically adjust for the new light and make your show look right.

Coliseum, English National Opera



Consoles

Light Palette classic™

Classic Light Palette delivers power in a traditional console with two timed split crossfaders and 12 combination submaster/ playback faders. Four rotary encoders and a built in touchpad along with sophisticated onscreen controls provide powerful moving light control like you have never seen before. Our industry standard Light Palette command line is built into every Light Palette console providing the intuitive interface you have come to expect from Strand Lighting.



Light Palette Live™

Our Live performance console has 48 powerful submaster faders for exceptional hands on control. Whether you are programming a television production or running live events on a regular basis complete control is at your finger tips. Light Palette Live offers ten pages of submaster assignments along with 12 playback faders for multiple cue stacks for quick access to all aspects of your show.



Light Palette command line operation makes setting up and programming your show a breeze. Intuitive and easy to use, our traditional command structure will be familiar to operators everywhere.

Light Palette VL™

Building on Classic Palette, the VL is our advanced moving light console. The VL adds 24 submasters and a 100 key direct action keypad. The direct action keypad speeds your production with direct selection of lights, positions, colours or any other attribute. Our abstract control model for automated lighting provides lighting control the way you design – pan 50 degrees, tilt 85 degrees, rotate gobo 3 are among the many commands available to you.



The VL's moving light effects generator and extensive fixture library mean that you can always get the most out of your moving light rig.

Light Palette Features

- Graphical User Interface
- Windows Embedded OS
- Dual Core processors for optimum performance
- Colour Picker for direct colour selection
- Abstract Control Model for optimum moving light control
- Two timed playbacks.
- Twelve direct access playback faders.
- Four rotary encoders.
- Integrated Trackpad.
- Position, Colour, Focus, Lens selection buttons.
- Two Grand Masters.
- Two Blackout keys.
- Four DMX512 Outputs.
- Dual Video 1280 x 1024 display support
- Optional Touchscreens
- Network support for a wide range of Ethernet data protocols including ShowNet, streaming ACN, ArtNet, Pathway and Colorkinetics networks
- Remote video support.
- Optional wired and wireless graphical handheld remote with cue sheet, channel control and submaster Access
- Up to 8000 Control Channels/Attributes
- Show file compatibility with all 300 and 500 series consoles

LightPaletteLive Additional Features

- Forty-eight submaster faders provide live action control

LightPaletteVL Additional Features

- Twenty-four submaster faders
- One 100 key quick action selection panel

Light Palette Mechanical Data

	Size, mm (l,d,h)	Weight Kg	Packed Weight Kg
Light Palette classic	1035.5 x 470 x 127	21.5	25.5
Light Palette Live	1035.5 x 624 x 197	27.5	31.5
Light Palette VL	1035.5 x 624 x 197	27.5	31.5

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Royal National Theatre's Olivier Theatre; photo by Mike Smallcombe

PaletteVL™

Brilliance within reach

There's so much that's new with Palette VL. And so much that you already know. The Palette VL family of consoles bridge between the clean simple operation of our regular Palette consoles with the control and sophistication of our larger Light Palette VL consoles. Now you can have the power of conventional and moving light control in a value priced system. Palette VL features an integral trackball, moving light encoders and direct action attribute keys to extend the power of the Palette family of consoles. Available with 500 to 1500 channels, the new consoles now offer an optional second video display to present more information to console operators, including an advanced moving light control screen. display to present more information to console operators, including an advanced moving light control screen.

Palette VL 16 delivers powerful moving light control and intuitive programming in a compact light weight package. 10 pages of 16 submasters provide rapid programming.



Palette VL, 16 submaster console

The larger Palette VL 64 extends the hands on controls of the VL16 with 64 submasters giving complete control of your production. Both consoles are available with an optional second video display.



Palette VL, 64 submaster console

Consoles

PaletteVL Features

- Available with 500, 1000 or 1500 channels
- 16 or 64 Submaster models with 10 pages of sub assignments
- PaletteOS Windows XP Embedded operating system
- High-resolution Graphical User Interface with integrated trackball
- Rotary encoders provide intuitive control of automated lighting
- Direct access keys for selection of key automated lighting attributes
- Up to 2000 cues per show
- Hard disk cue storage
- USB Key Library storage
- Network support for a wide range of Ethernet data protocols including ShowNet, streaming ACN, ArtNet, Pathway and Colorkinetics networks
- Two DMX ports with 1,024 outputs
- Up to 26-part cues
- Unlimited effects playbacks
- Tracking or whole cue operation
- Wired and wireless focus remote options
- Full WYSIWYG network interface
- Vision.net control interface for seamless interface between Entertainment and Architectural controls
- Windows Off-line Editor

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PaletteVL Mechanical Data

	Size, mm (l,w,h)	Weight Kg	Packed Weight Kg
16	642.6 x 462.3 x 109.3	12.2	16.7
64	993.1 x 462.3 x 109.3	20.9	21.2

Palette

Ride the New Wave

Prepare to be blown away. Strand's new Palette consoles build on the most successful lighting control operating system ever, to bring you PaletteOS™, a high-resolution point/click graphic environment to unleash your creativity and speed up workflow. PaletteOS harnesses the power of your computer to run offline in Windows – and native in Embedded Windows XP Palette consoles.

Palette is powerful – up to 500 channels and 1000 moving light attributes, with amazing automatic focus group controls that will slash your programming time.

Palette has a powerful web browser that lets you configure and monitor your network and interact directly with Strand's award-winning C21 and EC21 dimming systems. Right there on the console screen.

And Palette is an elegant and highly functional lighting console, leveraging industry-standard technologies to make it robust and future-safe. Screen layouts and network communications use state of the art communication protocols, making it easy to communicate with other cool products (and not just ours) over the network. And Palette's brain is a rugged industrial PC that could be swapped in seconds if you ever needed to. Which you most likely wouldn't.

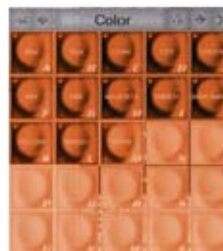
Palette has a 40 gigabyte hard drive, or you can save your shows anywhere on the network. You even get a USB key for show storage over sneakernet. On us. How cool is that?

PaletteOffline™ runs in Windows and imports Strand 300 and 500 series show files, so you can mix, match and swap to your heart's content.

There's so much that's new with Palette. And so much that you already know. You'll want to get a demo and see for yourself...

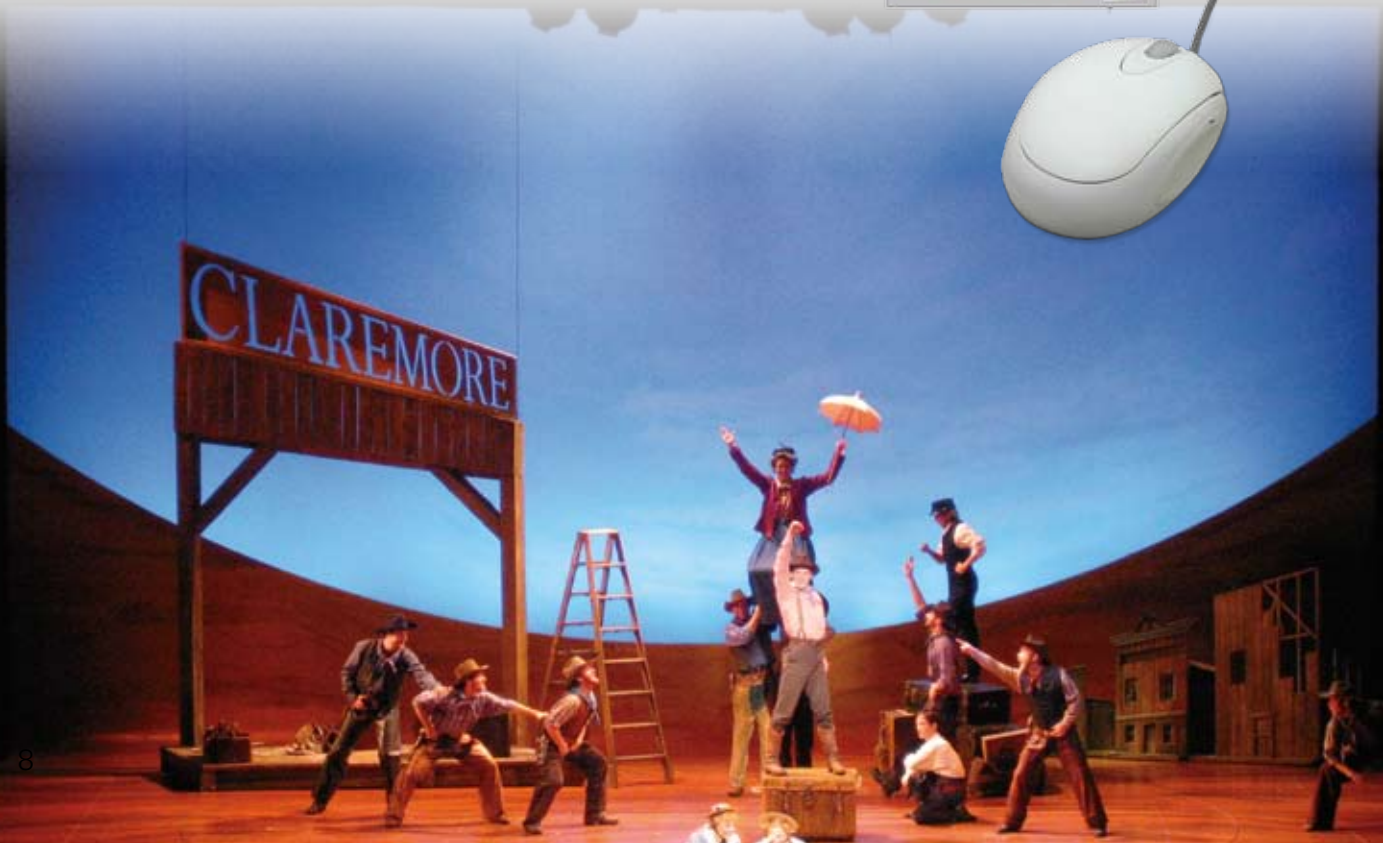


Palette OS automatically creates tool bars for selecting lights and focus positions as you create them. Programming a show has never been easier.



Use your mouse to easily select a colour, focus position, or gobo.

Add a touchscreen monitor and select any function with the touch of a finger.



classicPalette™

Clean, elegant, and very, very powerful, classicPalette is a thoroughbred. With 150, 250 or 500 channels, two playbacks and 32 submasters, classicPalette will eat up complex shows, easily – elegantly.

There's even an entry-level classicPalette console, with 100 channels, 16 subs, and all the power of Palette.



Palette Features

- PaletteOS Windows XP Embedded operating system
- High-resolution Graphical User Interface with Mouse
- Up to 2000 cues per show
- Hard disk cue storage
- USB Key Library storage
- Strand ShowNet standard on all systems with over 18,000 DMX outputs
- Network support for a wide range of Ethernet data protocols including ShowNet, streaming ACN, ArtNet, Pathway and Colorkinetics networks
- Automated lighting control with fixture library
- Up to 26 part cues
- Multiple effects playbacks
- Tracking or whole cue operation
- Optional second video display
- Wired and wireless focus remote options
- Windows Off-line Editor
- Available with up to 500 channels and 1000 moving light attributes
- Dual memory playbacks
- Standard memory desks feature 32 Submasters with 10 pages of sub assignments

presetPalette™

Single-scene/two-scene is still the best starting point for a lighting control education, but these preset boards are a far cry from the one your daddy learned on!

With 32/64 or 48/96 single/two-scene operation, presetPalette hasn't even broken a sweat!

When students are familiar with preset operation, there is literally no limit to what they can learn from the power and intelligence of PaletteOS.



presetPalette Additional Features

- 32/64 and 48/96 hardware versions
- Single (wide mode) and two scene preset operation
- Memory and manual playbacks
- 16 or 32 Submasters with 10 pages
- 100 control channels

subPalette™

128 submasters for hands-on control of lights, groups, effects or just about anything, subPalette is the console for live shows, TV production and tours.



subPalette Additional Features

- 128 Submasters with 10 pages of sub assignments

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Palette Mechanical Data

	Size, mm (l,d,h)	Weight Kg	Packed Weight Kg
classicPalette	640 x 452 x 115	12.7	16.7
presetPalette 32/64	991 x 452 x 115	17.2	21.2
presetPalette 48/96	1339 x 452 x 115	21	25
subPalette	1339 x 452 x 115	21	25

Rack Palette™

Our Rack Mount console for show control and tracking backup operation provides users with powerful control and security for any application. Whether you are programming a large production or running a live event and want the security of tracking backup electronics or working in a Showcontrol environment, Rack Palette can meet your needs. Rack Palettes are available to match our Palette and Light

Palette range of consoles and run Palette OS, making it easy to transfer information in a tracking backup or show control application. New in Rack Palette are multiple cue stacks for quick access to all aspects of your show.



Light Palette command line operation makes setting up and programming your show a breeze. Intuitive and easy to use, our traditional command structure will be familiar to operators everywhere.

For show control applications, Rack Palette offers a wide range of control options including system access from our family of Vision.net slider and button stations and touchscreens. Show timing can be coordinated with our available SMPTE - Midi control interface.

Rack Palette Features

- Graphical User Interface
- Windows Embedded OS
- Available with single and dual core processors for optimum performance
- Ideal for tracking backup or show control applications
- Colour picker for direct colour selection
- Abstract Control Model for optimum moving light control
- Multiple playbacks for parallel event control
- Four DMX512 outputs.
- Network support for a wide range of Ethernet data protocols including ShowNet, streaming ACN, ArtNet, Pathway and Colorkinetics networks
- Single or dual video 1280 x 1024 display support
- Optional touchscreens
- ShowNet Ethernet output.
- Vision.net control interface
- Available SMPTE MIDI support
- Remote video support and remote access with Palette PC.
- Optional wired or wireless graphical handheld remote with cue sheet, channel control and submaster access
- Up to 8000 control channels/attributes
- Show file import with all Strand 310 and 510 rack mount consoles

Pocket Palette™

Pocket Palette is the latest addition to Strand Lighting's family of handheld remotes for our range of lighting control consoles.

Pocket Palette's new graphical user interface provides intuitive controls that you will use every day for set up and operation of your lighting system. The remotes provide full access to all elements of your Palette OS based system including channel levels, cue sheet, level setting and even submasters.

All Pocket Palette wireless remotes support both Palette OS based consoles as well as all 300 and 500 series desks.



Pocket Palette Features

Advanced technology remotes with Windows Mobile operating system

- Channel level display
- Full system record and playback access
- Channel Check function
- Programmable Macro Screen
- Remote Submaster access with on-screen faders
- Available in wired and wireless versions
- High performance access points provide reliable network connectivity
- Long life battery and rugged enclosures with belt case standard
- Charger and stand included
- Wireless remotes support both Palette OS and 300/500 series DOS based consoles

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Rack Palette Mechanical Data:

Construction: Steel enclosure
 Dimensions, mm (HxWxD): 3U x 483 x 292"
 Weight: 9 kg
 Packed Weight: 15.9 kg

Pocket Palette Mechanical Data: Dimensions, mm (HxWxD):

114.3 x 76.2 x 25.4

N21 ShowNet™ Nodes

Compact and flexible, the N21 ShowNet DMX nodes provide cost-effective network connectivity for facilities of all sizes. Each node features two or four DMX connectors that may dynamically be configured for input or output operation.

Based on a 32 bit ARM processor, all N21 nodes utilise the Linux operating systems for stable 10/100BT operation.

Nodes may be configured with Strand's popular ShowNet software or with any web browser. Node status, Node ID, and DMX port identification are available on the integral LCD display. The display features adjustable back lighting.

All Strand ShowNet nodes feature advanced DMX patching, permitting any range of 512 numbers to be selected for each DMX port. Priority patching with up to three levels of priority assignments available.



*N21 2-port
wall mount node
power over Ethernet*



*N21RM 4-port 1U rack mount node
power over Ethernet*

N21 Shownet Nodes Features

- Compact, cost effective ShowNet DMX nodes
- Up to four DMX In/Out ports
- Fast 40 Hz DMX update rate
- DMX ports may be custom configured with any 512 DMX addresses for complete system flexibility
- 10/100BT Ethernet operation
- Integral LCD display provides node and port labeling
- Adjustable backlight levels for dark applications
- Supports IEEE802.3af power over Ethernet
- Dimmer status reporting link available on any port
- Nodes may be configured with a standard Web browser
- Each node may be configured using Strand's new wireless remote
- ShowNet nodes are available in portable, wall mount and 1U rack mount variants
- Rack mount nodes are available with front or rear DMX connectors
- Rack mount nodes include mains power adaptors
- 32 Bit processor standard with Linux O/S
- Compatible with all ShowNet nodes and control systems
- All ShowNet nodes support Vision.net control inputs to network your architectural control system

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N21 Mechanical Data:

Wall Mount Construction:
High-impact injection-molded fascia with steel subframe
Rack Mount Construction: Steel enclosure
Wall Mount Weight: 0.86 kg
Rack Mount Weight: 2.22 kg
Wall Mount Dimensions (HXWXD): 114.3 x 114.3 x 101.6 mm
Rack Mount Dimensions: 1U x 482.6 x 165 mm

100series console

Designed for simple programming and ease of use. The 100 Series offers value and performance. The system features 12 channel two scene operation or expanded 24 channel single preset control. A simple effects system and a grandmaster with black out button complete the package. Desks may be used table top or rack mounted.



100 Series Console Features

- Fully digital control console
- 12 channel 2 scene preset, 24 channel single scene preset operation with unique Hold function in single scene mode
- Built in effect operation
- Designed for portable or rack mounting applications with removable end caps to facilitate rack mounting
- Split crossfader with time fade function
- Bump buttons
- Grand Master and Black out key
- DMX512 output
- CE marked

200series console

A powerful package for smaller venues; the 200 Series is a manual plus memory console. Available in two sizes: 12/24 channels or 24/48 channels. Both consoles offer two scene or extended channel single scene preset control as well as submaster operation.

200 Series consoles will support 512 dimmers with a proportional patch, and feature 6 effects playbacks with a total of 24 different effects, available simultaneously utilising 4 pages of effects memories. These desks also feature MIDI Interface as standard.



200 Series Console Features

- Fully digital control console
- Two models available 12/24 channels or 24/48 channels
- Two pages of Submasters memories
- All consoles feature 2 scene preset operation or expanded single scene preset operation with unique Hold function in single scene mode
- Up to 24 effects each with up to 99 steps
- Split crossfader with time fade function
- Bump buttons on all channels
- Grand Master and Black out key
- Full DMX512 operation with patch
- Library Storage with optional 32 MB flash memory card
- Optional Video Display Card displays system fader status, effect, patch and submaster data
- CE marked

301backup console

Portable or Rack Mounting Control System

The 301 console is a versatile multi-function console that may be used as a backup to any DMX lighting system and as a manual desk. It may also be used as a timed event controller.

Capable of storing up to 144 cues on 12 memory pages, the 12 manual faders on the 301 offer simple and intuitive operation as a back up for any DMX lighting console. Unit may be used table top or rack mounted.



301 Back up Console Features

- Multi-function control system may be used as a Back up, Timed Event Controller or Manual Console
- Simple to program and set up
- Back up mode features 12 Pages of 12 Back up looks standard for a total of 144 Back up cues
- Time clock mode with 12 events ideal for Stage Manager panel applications
- 12 channel manual control with DMX patch
- 12 faders with master and page controls
- 12 analogue inputs for remote fader control
- LCD display for set up and configuration
- DMX input indicator with audible DMX fail warning
- Automatic DMX bypass on system failure
- Designed for table or rack mounting
- CE marked

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100 Series Mechanical Data

Weight	5.5 kg
Packed weight	7.8 kg
Dimensions	570 x 370 x 98 mm
Packed Volume	0.06 m ²

200 Series Mechanical Data

	200 Series 12/24	200 Series 24/48
Weight	6.9 kg	9.5 kg
Packed weight	10.5 kg	16.0 kg
Dimensions	736 x 370 x 92 mm	1010 x 370 x 92 mm
Packed Volume	0.1 m ²	0.14 m ²

301 Back up Console Operational Data

Weight:	5 kg
Packed weight	7.8 kg
Dimensions	570x370x98 mm
Packed Volume	0.06 m ²

Accent

DMX Programmable Preset Architectural Lighting Control

Accent is an extremely versatile architectural control system, providing simple scene programming and recall from a single control surface.

Accent control stations can be used as a stand-alone control system. A separate architectural processor is not required. Accent control stations generate DMX512 and are able to control any DMX512 compatible dimming system.

Architectural Lighting Controls

Accent Features

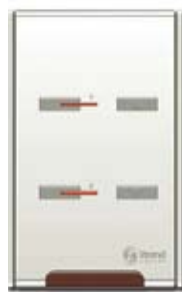
- Two, Four and Eight Preset Control Stations with individual preset fade times
- Raise/Lower mastering
- Up to 48 dimmers per room, up to 8 stations and 8 rooms per system
- Room selection by dipswitch selection on control station, no special programming required
- Compatible with all Strand Dimmer Racks
- Wireless IR remote provided with each station for simple programming and remote preset access
- Secure fastener-free faceplates
- Secure digital control wiring system
- Fits Standard 1 Gang Deep Masonry Box
- DMX512 output



*Eight Preset Station
w/ Raise/Lower
control*



*Four Preset Sta-
tion w/Raise/Lower
control*



*Two Preset Station
w/Raise/Lower
control*



*Wireless IR
Remote
Programmer*



Vision.net

Vision.net touchscreen technology is designed to bring exceptional control and flexibility to your project. Whether you are designing a board room or a large hotel and convention centre complex, Vision.net provides a wide range of fully scalable solutions. Easy to set up and program, Vision.net touchscreens can be combined with our Outlook VN control stations, offering a wide range of push button and slider stations to meet the needs of any system. Any system command may be programmed to any pushbutton in your system for exceptional flexibility.

Vision.net opens a connection to our powerful range of entertainment lighting control systems, providing large scale control for any interactive display or presentation in today's modern themed environments.



15-inch color touchscreen



Touchscreens support custom button styles and fader labelling as well as a wide range of features and functions



10-inch wireless touchscreen

Vision.net Designer is Windows-based configuration software with simple drag and drop set-up, and point and click operation. It's easy to download and upload station configuration data to an entire system from a single access point. Built-in design tools and system simulators allow users to fully test and simulate their systems.



Touchscreen set-up slider/button view



Vision.net Occupancy Sensors and Photocells provide energy management controls for your facility

System Capacity and Connectivity

- Scales from a single space up to 255 rooms in a single system
- 125 channels per room
- Unlimited dimmers per room with patching and DMX capture support
- Occupancy sensors and photocells available
- 255 stations per system
- Calendar-based events
- Time-clock events
- Connects to EC21 Dimmer Systems
- Vision.net to DMX module available for interface to a wide range of DMX-controlled devices

Architectural Lighting Controls

The Vision.net programmable panel system is designed to control architectural lighting by distributing both power and intelligence. Like all Vision.net systems, no central processor is required. Installation is simple, using Cat5e wiring for a low cost and reliable installation.



Vision.net programmable panels provide individual channel control, 13 scenes plus "Off", adjustable fade times, and graphic representation of channel intensities. Multiple Master Stations may be linked together for control of up to 128 Channels, and 13 preset scenes. Combine Vision.net programmable panels with our range of matching Remote Stations to provide remote access to scenes, Master Raise/Lower control, Multi-room partition control, or Master Station Lockout. Master Stations are easily programmed using the front panel buttons, without removing the Master Station from the wall, and without the need for a computer. Need a touchscreen with your system? You can easily combine any Vision.net touchscreen with our whole range of programmable panels.

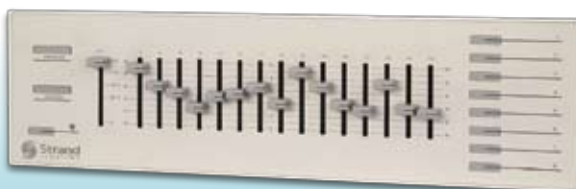
All Vision.net stations are compatible with our EC21 Dimmer racks. Vision.net DMX panels may be used in combination with our popular Wall Rack dimmer racks.

Outlook VN stations provide a wide range of button and fader stations. Any button can be programmed with a wide range of functions, providing exceptional flexibility and ease of use.

Sliders stations may be assigned to any system dimmers as needed.



Outlook VN stations are available with one, two, four or eight buttons; three, six, nine, twelve or fifteen sliders. Wallmount or portable.



Vision.net Features

- Next Generation Architectural control
- Touchscreen systems provide connectivity to Vision.net and direct to Palette consoles and dimmer racks for system access and monitoring
- Station-based technology; no central processor required
- Available with push button, slider and touchscreen panels
- Simple computer-based set up and configuration
- Fully scalable to hundreds of stations
- System configuration is simple using Vision.net Designer
- Designers can easily create rooms, room combinations and easily define stations and buttons
- The system can easily upload existing configurations for editing
- Systems are simple to support and change
- Low-cost Cat 5 cable wiring

Vision.net Station Features

- All stations' buttons and faders are fully programmable
- All stations include integrated processors and may operate as stand-alone systems
- Station set up and configuration is simple
- Wall stations all have unique addresses
- Configuration software can upload and download station set-up data
- Commands include:
 - Raise Lower
 - Preset
 - Toggle on/off
 - Smart commands allow multiple system commands to be executed from a single button press
 - Commands to Palette and Light Palette Consoles

Vision.net Touch Screen Features

- Full colour touchscreens available in 7-inch and 15 inch rackmount, 10-inch wireless sizes
- Screens may be easily configured and set up with Vision.net Designer software with simple USB or serial data interface
- Using our optional ShowNet Ethernet connectivity touchscreens can provide remote access to Strand Lighting Rack Palette, Palette and Light Palette Control Consoles, EC21 dimming systems
- Touchscreens provide system astronomical time-clock and calendar functions
- Fully graphical Room Combine supported
- Bit-mapped backgrounds provide custom appearance
- Wide range of on-screen button and fader options
- Web browser available for all network-based stations

Strand Lighting
www.strandlighting.com

EC21™

Professional Dimming for the 21st Century

EC21 offers new standards of performance, ruggedness and ease of installation to meet the toughest demands of 21st Century entertainment venues. EC21 is based on a proven Strand design, with over 2 million dimmers installed around the world— solid reliability, day in, day out.

EC21 is flexible – mix and match single, dual, even quad modules, TrueSine™, thyristor, fluorescent, contactors or fillers, in any EC21 rack. We'll design an EC21 system to fit your needs now, and it'll grow with you as those needs change over time.

And EC21 is sophisticated. Strand's TrueSine™ sinewave dimming technology is available in full-density dual modules, at either 3kW or 5kW – with EC21 you don't have to trade space for silence.

EC21's all-new control electronics live right on your ShowNet™ or ACN* control network. The network-centric 16/32-bit RISC processor runs embedded Linux, with a powerful web-based configuration and dimmer reporting system. So you can configure or monitor dimmer performance from a suitable PC, PDA or Strand lighting console.

And EC21 even includes Strand Outlook VN capability at no extra cost – a sophisticated architectural processor in every rack. Just connect up Outlook VN wall stations and you're done. Very New Century – very cool.

Easy Installation

EC21 dimmer racks are easy to install. Power feeds, up to 800amp three-phase, are from above or below, with generously dimensioned buss-bar terminations. All load wires exit the top of the rack, and earthing options are available to facilitate either single or multicore load wiring.

Each control module incorporates an Ethernet switch, allowing the installer effectively to loop the network cable from rack to rack, using standard CAT5 patch cables. There's no need to install an Ethernet switch in the dimmer room, though a Wireless Access Point is recommended, allowing users to access all configuration and reporting features from a suitable PDA or laptop.



EC21's rugged EasyView™ door assures safety and total security while allowing users to easily identify circuit-breaker trips.



EC21 configuration and status reporting is accessible from any wired or wireless network PC or PDA and networked Strand consoles via Web browser.



Report.net, Strand's new Windows-based monitoring software, supports all of Strand's dimming systems. Configuration and status reporting for large integrated systems can be viewed on a single display.

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.

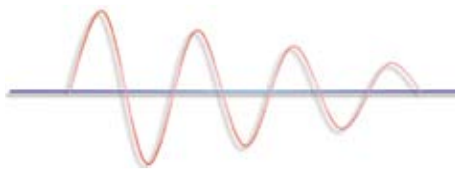
EC21 racks may be specified with any combination of dimmer modules. Modules are keyed to prevent insertion in inappropriate module slots.

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 200ms or 400ms filter chokes
- Single, Dual and Quad Contactor Modules
- Browsable Ethernet-based control module for 96 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 upgraded 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
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

Lightpack

Now you can have our most advanced IGBT dimming technology in the palm of your hand. The new 750 watt and 1200 watt Light Pack individual dimmers provide the ultimate in control flexibility allowing you to have a dimmer right at your light source wherever and whenever you need it.

Quiet and reliable Light Pack features easy to use DMX addressing and plug and play DMX In/Out connectivity. All Light Packs are convection cooled and very quiet so they can be placed anywhere. A wide range of hangers makes mounting your Light Pack a snap.



Distributed Dimming

Light Pack Features

- 3 Year Warranty
- Local control switch for easy set up
- Quiet IGBT Dimming technology
- Built in short circuit protection
- 800 ms transition time filtering
- Forward or Reverse phase operation
- Integrates with all Strand dimming systems
- CE marked

6pack & 3pack

Strand's new 6pack and 3pack digital dimmer packs are perfect for portable, rack and wall-mounting applications.

These handy 4U high 19" packs are DMX controlled, convection cooled (no fans), and are equipped with neutral-disconnect DIN circuit breakers as standard.

6pack and 3pack are ideal for rental, educational drama spaces, and just about any place where accurate, reliable dimming is needed in a small space – and on a small budget.



3 Pack 6 Pack Features

- MCB (SPN) protection for each channel
- Wide range of socket options including Dual UK 15A, Schuko, French, CEE17, CEE17
- (32A connector, 5kW load) and hardwired
- Suitable for portable, rack-mount and wall-mount operation (wall brackets included)
- Single or three phase operation
- Fully digital control electronics
- DMX In/Out
- DMX fail hold function
- DMX termination switch
- Local on/off test buttons
- Selectable Minimum Level for each dimmer
- Simple Set up using front panel keypad and LED display
- DMX addressing with individual patching for all dimmers
- Simple slide-out service access
- Fan free convection cooling for quiet operation

Strand Lighting

www.strandlighting.com

Light Pack Mechanical Data:

750W Unit

Weight: 0.95 kg

Dimensions (HxWxD): 174 x 115 x 75 mm

1200W Unit

Weight: 1.02 kg

Dimensions (HxWxD): 174 x 115 x 81 mm

6 pack & 3 pack Mechanical Data

Weight: 14 kg

Dimensions (HxWxD):

178 x 483 x 250 mm

Wallrack

Defining the new standard in permanent installation dimming for small/medium entertainment and architectural venues, the Strand Wallrack is available in three sizes, and with a host of features to suit every application.

Wallrack is convection cooled (no fans) and yet extremely compact – great for distributed dimming schemes or just to get a lot of dimmers into a small space!



6 x 2.5KW

6 x 5KW

24 x 2.5KW

Distributed Dimming

Wallrack Features

- 24 x 2.5kW, 6 x 2.5kW and 6 x 5kW versions
- 220-240Vac, 3-phase/single phase operation
- MCB (SPN) protection for each channel
- Field-upgradeable to RCD protection
- Easy installation/compact size
- Convection cooled – no fans
- Substantially overrated plug-in power devices
- Dual DMX input, DMX patch and DMX output
- Powerful patch, with user-selectable curves and non-dims
- 8 remote preset closures and Panic input
- Up to 6 analogue outputs for external fluorescent or contactor operation
- Plug in control electronics for easy maintenance
- Ample cable space for top or bottom entry
- Simple and intuitive software configuration
- LED indicators for 3 phases, DMX A and B, and Over-temperature
- Integral power supply for up to eight Accent architectural control stations

Propack Features

- Compact 2U High Rack Mount design
- Four Programmable Fade curves
- DMX input patch
- Minimum and Maximum output settings
- Programmable Presets with on panel access
- 12 – 3000 watt Dimmers
- DMX In and Out
- Phase and overtemp indicators
- CE marked, cCSAus approved
- Simple set up and operation
- Digital control electronics
- Mux Fail hold
- Flat Front Rocker Style Fully Magnetic Circuit Breakers
- Socapex or Terminal Strip output configurations

SD6 Dimmer Pack Features

- 6 X 13 Amp (2.5kw) dimmers with MCB's for 230/240 volt operation
- Designed for single or three phase supplies
- Fully digital control electronics
- DMX In/Out
- Simple setup using front panel keypad and LCD display
- 24 backup cues with backup link to connect multiple dimmer packs
- Chase and scene pattern library for stand-alone operation
- Min/Max level for each dimmer
- Curve selection for all dimmers
- DMX addressing with individual patching for all dimmers

Strand Lighting
www.strandlighting.com

Propack

Propack provides high-density, high-power dimming in a compact 2U rack mount package. Each Propack features twelve 3000 watt dimmers connected to your choice of Socapex or terminal strip outputs to meet a wide range of applications. All Propacks feature our popular flat front circuit breakers that provide clear tripped-status indication and have no toggle handles that can break off. Control is supplied with our simple to set up and use digital processor.



SD6 dimmer pack

Rack Mounting Digital Dimmers Feature 6 x 13 Amp (2.5kw) dimmers with MCB's for 230/240 volt operation.



Wallrack Mechanical Data

24 x 2.5kW:
Weight: 43 kg
Dimensions (HxWxD): 870 x 549 x 164 mm
6 x 5kW:
Weight: 31.4 kg
Dimensions (HxWxD): 870 x 417 x 164 mm

Propack Mechanical Data

Weight: 15 kg
Packed weight: 17.9 kg
Dimensions (HxWxD): 2U x 482.6 x 476.3mm
Packed dimensions (HxWxD): 228.6 x 609.6 x 584.2mm

SD6 Mechanical Data

Weight: 12 kg
Packed Weight: 14kg
Dimensions (HxWxD): 395 x 485 x 90mm
Packed Dimensions (HxWxD): 400 x 490 x 95mm



Studio Production

Strand Lighting luminaires, dimmers, and controls have been installed in studios and production facilities in 107 countries around the world. Contact us for help in designing a facility to meet your needs.



“What happened to my Special?”

Our powerful EC21 dimming system now supports email notification of all processor status data. Status reporting dimmers provide load information. For the first time you can know what happened to a special, or any other circuit within moments of a problem appearing. We put you in control of any situation.



Strand Lighting

Training

Strand Lighting offers seminars and user training from our European Offices near Gatwick Airport. Other classes are held regularly at our worldwide offices . Contact your nearest office to find out when and where our next seminars are scheduled.





Strand Lighting

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