

Conventional Studio

Luminaires	
12	650 Fresnel
22	8" Fresnel (Night)
21	10" Fresnel (DayLight)
6	6'-0" Mini Strip (4 Cir)
6	Soft Light
1	Year Supply of Lamps (1,467 lamps needed)
Dimming/distribution	
1	96 circuit Dimming Rack
1	Three Phase 400 Amp Feed
6	16 Circuit Connector Strip
288	single conductor load feeds
Control Consoles	
1	Light Palette Live (1500 Channels)
1	Wireless Remote
1	Vision Net Touch Screen
1	Network Contol Rack
1	Console Receptacle

Power consumption (60% diversity) 47,720 watts

Energy costs and consumables \$76,000 per year

LED Studio

Luminaires	
20	PL3 Wash
6	LED Cyc Light
13	PL1 Wash
13	PL Wash (White)
6	Chimera Soft Box
Dimming/distribution	
6	S-21 LED
6	120 Volt power feeds
6	Data receptacles
Control Consoles	
1	Light Palette Live (3000 Channels)
1	Wireless Remote
1	Vision Net Touch Screen
1	Network Contol Rack
1	Console Receptacle

Power consumption (60% diversity) 4,484 watts

Energy costs and consumables \$6,000 per year

Both of the studios illustrated above have the same installed cost and overall performance. In the LED Studio the low power consumption and energy savings speak for themselves and will repay the initial capital investment in less than three years, making your CFO very happy.

Lighting directors will appreciate our fully integrated solution with simple set up, focus and intuitive control. The S-21 LED, PL1, PL3 and PL wash luminaires cut the setup and focus time in half from automatic PLWash DMX addressing to automated PL3 Pan/Tilt repositioning systems to Wireless DMX control. The appreciation for these solutions won't end there as our Light Palette consoles feature optimized software for controlling these extremely flexible luminaires. Palette and Light Palette consoles offer direct access to color mixing and smooth color temperature control to balance against daylight or optimize for any camera.

Also we did not forget the talent; all of our LED luminaires emit no infrared light and provide cool bright light so no one has to break a sweat.

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Part Number: StudioBro 10411

PL1 LED LUMINAIRE

PL1RHC03 - PL1 Black LED Luminaire, Spot, fitted with a Half Coupler, 39-inch AC Input Cable with Specified Connector
PL1IRR - PL1 LED Luminaire IR Remote Preset Programmer
PL1CF - PL1 LED Luminaire Color Filter Holder
PL1BD03 - PL1 LED Luminaire Barndoor, Black Exterior, Black Interior
PL1WDMX03 - PL1 LED Luminaire W-DMX Wireless DMX512 Receiver, Black
PL1LDMX03 - PL1 LED Luminaire Lumen Radio Wireless DMX512 Receiver, Black
PL1WDMXTR - PL1 LED Luminaire W-DMX Wireless DMX512 Transmitter
PL1LDMXTR - PL1 LED Luminaire Lumen Radio Wireless DMX512 Transmitter
PL1DMXFRJ46 - PL1 LED Luminaire DMX512 cable XLR5 Female to RJ45 12 in. / 305 mm Black
PL1DMXMRJ48 - PL1 LED Luminaire DMX512 cable XLR5 Male to RJ45 12 in. / 305 mm Black

PL3 LED LUMINAIRE

PL3 - PL3 LED Luminaire, Black
PL3IRR - PL3 LED Luminaire IR Remote Preset Programmer
PL3MKIT - PL3 LED Luminaire Pan & Tilt Kit (Pan Motor Module, Tilt Motor Module, Pan Cable Assembly, and Tilt Cable Assembly)
PL3ACH - PL3 LED Luminaire Accessory Holder with Diffuser Frame
20BDSF2020 - Barndoor, Black
20CFSF2020 - Spare Diffuser Frame
PL3WDMX03 - PL3 LED Luminaire W-DMX Wireless DMX512 Receiver, Black
PL3LDMX03 - PL3 LED Luminaire Lumen Radio Wireless DMX512 Receiver, Black
PL3WDMXTR - PL3 LED Luminaire W-DMX Wireless DMX512 Transmitter
PL3LDMXTR - PL3 LED Luminaire Lumen Radio Wireless DMX512 Transmitter
Note: PL3 luminaires are supplied with one metre power cable. All other accessories, including Front Holder Accessory, are sold separately.

PL WASH

PL1TR1RGB - PL Wash light RGB with integral accessory holder
PL1TR1RGBAW - PL Wash light RGBAW with integral accessory holder
PL1TR1RWhite - PL Wash light tunable white with integral accessory holder
PLFBD03 - PL Wash Barndoor

S21 LED RACEWAY (a completely configurable product)

71800 - _ - _ - _
• You choose any combination of designators below and we will manufacturer to your specification.

DS - Dimmer module with Stage pin connectors
DT - Dimmer module with Twist lock connectors
DE - Dimmer module with Edison connectors
DP - Dimmer module with Powercon connectors
RS - Relay module with Stage pin/DMX connectors
RT - Relay module with Twist lock/DMX connectors
RE - Relay module with Edison/DMX connectors
RP - Relay module with Powercon/DMX connectors
CC - Low Voltage LED module

Example S21 Product Number: 71800-CC-RS-CC
(Note: This configuration as two modules for driving LED luminaires and one relay module for PL1 or PL3 luminaires)

LIGHTPACK LED

71361 - LightPack LED Mod. 120v, GP CONN.
71362 - LightPack LED Mod. 120v, TL CONN.
71363 - LightPack LED Mod. 120v, GR CONN.

PALETTE CONTROL CONSOLES

92813 - Palette VL16 – 1500 Channel, 16 submaster Console
92816 - Palette VL64 – 1500 Channel, 64 submaster Console
91867 - Light Palette Live 3000 Console with 3000 channels
91827 - Light Palette VL 3000 Console with 3000 channels
66150 - Wireless remote and Desktop Access Point

VISION.NET

95242B- Vision.net 7-inch color VGA touchscreen station,black



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Low-Energy, High-Performance Studio Lighting

PHILIPS
Strand Lighting

The Low-Energy Studio

Sparked by today's increasing costs of energy and the higher demands being put onto power grids, television studios around the world have begun to undergo the process of a much-needed transformation. In their changeover from high-wattage, high-heat and high-output productions to those with a desired reduction in both power and HVAC consumption, lighting designers are faced with the challenge of identifying the exact fixtures and control products, along with power and data distribution, that will help them achieve their Green initiatives without breaking the bank.

With these challenges in mind, and backed by the strength of Royal Philips Electronics, Philips Entertainment has developed a range of LED luminaires, control consoles, and power and data distribution products to meet the growing need for low-energy studio lighting that does not sacrifice performance. Built on proven technologies, our LED luminaires also overcome the challenges created by Daylighting initiatives by offering the most precise and broad range of color temperature control directly from one source.

In the graphic to the right, we are comparing the lighting and control products of an antiquated high-energy studio and those inside the low-energy studio of today. While the product costs for each is similar, a completely different story is told over the course of time through a significant reduction in both energy and maintenance costs. With the low-energy studio of today, not only will you recoup the full cost of renovating your studio in only three years, but you will save an overwhelming 73% in total operational costs in a five year period.

Philips Entertainment is building on a century of lighting expertise and remains committed and focused on the development of the most technologically advanced and environmentally-friendly lighting tools for lighting designers everywhere. Over the past 10 years, energy consumption in studios has dropped significantly from 70 watts per square foot to less than 20 and we meet this energy efficiency challenge by inspiring our customers to make simple changes that can have profound results. So no matter what the size or location of your studio, Philips Entertainment provides flexible lighting solutions that empower people to create unique experiences, all without a high cost to themselves or the environment.

Dream Big. Light Bigger.

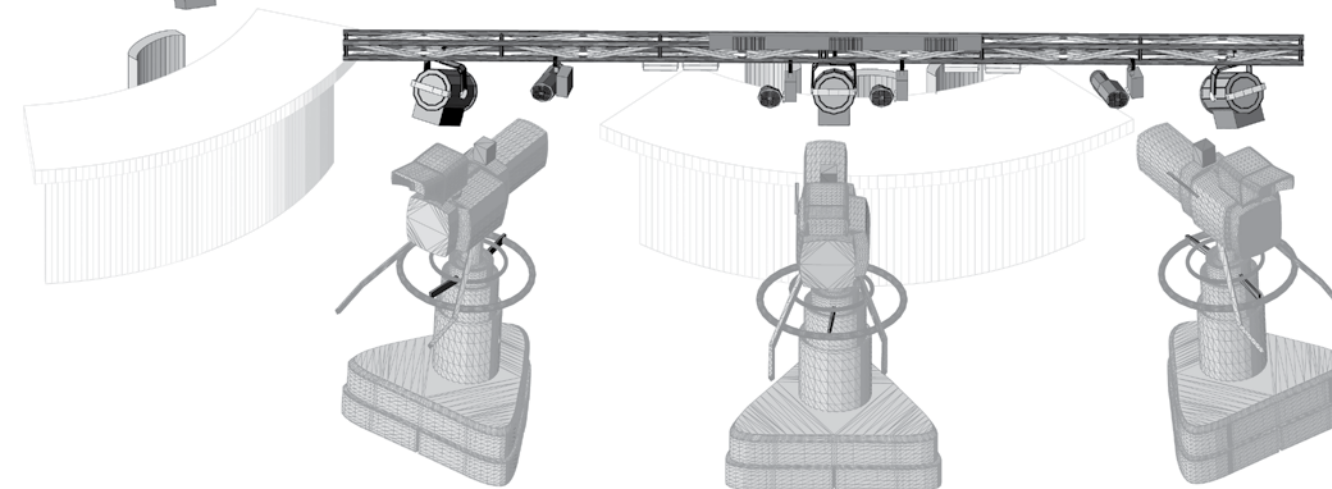
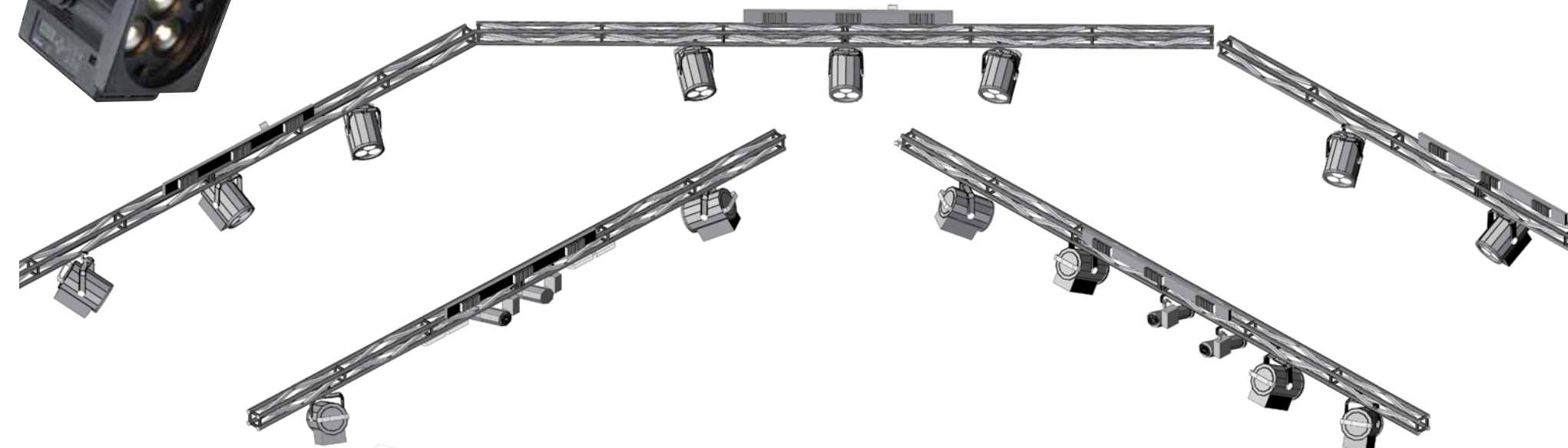
Our **PL1 and PL3 focusing LED luminaires** are designed to deliver the critical key and back lighting needed for every shot. Each PL fixture features 1 or 3 LED engines that provide perfectly mixed color and high quality natural white light while delivering light levels similar to 500 watt and 1kW sources, plus an adjustable beam spread from 15-55 degrees. Additionally, all our luminaires feature integral dimming, full color mixing and preset balanced white light with warm, cool and daylight settings to balance against a wide range of sources. All PL series luminaires maintain color temperature and their color mix across the entire dimming range with no color temperature shift.



News studios are often operated on a 24 hour basis when full lighting staff may not be available. For these applications our **Vision.net touchscreens** allow camera and video operators direct access to lighting cues for simple set up and "Breaking News" opportunities. These systems can be fully integrated with our Palette consoles to provide a complete solution.



Compact and flexible, the **N21 ShowNet DMX nodes** provide cost-effective network connectivity for studios of all sizes. Our N21 ShowNet nodes provide a simple way to deliver data to all of your luminaires.

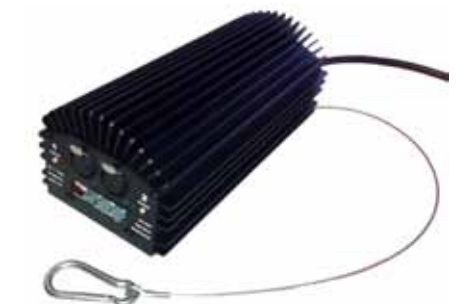


The **Palette family of control consoles** are ideal companions to any LED lighting system. The familiar user interface and powerful color mixing tools make these consoles easy to use and help reduce set up and programming time. The Light Palette Live and its smaller brothers, the Palette VL16 and 64 consoles were designed with Television production in mind and have the channel capacity to support systems with the high channel count that is typical of LED luminaires.

As we grow our range of LED luminaires control and information distribution becomes a key element in offering a complete control and lighting solution for stage and studio applications. We are pleased to introduce new solutions for our customers. The S21 LED solves the need to deliver both power and data to our new luminaires; and at the same time it eliminates the need for costly dimmer rooms.

The **S21 LED Raceway** is a configurable power and data distribution system for use with our PL Wash, PL1, and the PL3 Focusing LED luminaires, as well all conventional lighting sources. There are three standard modules that may be fitted into the S21 Led Raceway; a dual IGBT dimmer for conventional loads, a dual relay module with power and DMX connectors for use with our PL range of focusing LED luminaires, and a Quad power supply module for PL Wash fill lights or ColorKinetics Blast luminaires. The Quad power supply module features auto identification and simple patching that does not require individual luminaire addressing as all addressing for these sources are done on the processor.

All Raceways include DMX input and are available with a wireless DMX module eliminating control wiring. Each raceway can support any combination of three modules and may be ordered with a range of hangers to support a variety of installations.



Need an extra power module in an awkward location? The **LightPack LED module** supports two PL Wash luminaires in a compact enclosure that can be mounted almost anywhere. LightPack LED has DMX In and Out and is convection cooled. Each unit is easy to set up with a simple start address that works in conjunction with our auto ID system.

PL Wash lights are compact 50 watt light sources that deliver high performance color for use on set as an effect source and a tunable white wash as a fill light for performers. Fill lighting provides the balance to key light sources that help give a television image depth and contrast. Our fill lights operate on 24 volts and have both data and power on the same cable simplifying installation and rigging. Two versions are available one with tunable white light the other with full 5 color RGBAW color mixing.



The **LED Cyc Light** provides a high-quality and cost-effective LED solution for beautiful cyc light. Building upon the technology inside the PL1 and PL3 Wash luminaires, the LED Cyc Light uses a revolutionary mixing chamber designed to homogenize the RGBW colors. The front of the mixing chamber utilizes a holograph diffuser to complete beam homogenization and with the added elliptical reflector system the LED Cyc Light creates a true asymmetric beam and distribution, the first of its kind. The LED Cyc Light delivers a beam that is even and smooth and above all – bright. It can be used on Cyclorama's, backdrops, and scrim up to 20'-0" in height with a spacing at 4'-0" centers when placed 5'-0" away from the backdrop. To aid in additional beam shaping the fixture is available with barn-door accessories, for cutting the light away from ceilings or set pieces.