HaluPix Duo

ORDER CODE: HALUPIXDUO



Source

441 (21 x 21) - 120° - 1.5W RGB + Warm White LEDs

IP rating

IP65 for temporary outdoor use

Weight

16,3kg / 35.94lbs

The **HaluPix** DUO is a dual layer LED matrix that seamlessly integrates lighting and video capabilities into a modular design. This twin-source unit offers high-power, long-throw white beams alongside high-brightness video and strobe features, with full pixel-level control. This integration facilitates diverse and dynamic lighting setups, suitable for a variety of professional stages and TV applications.

Each unit of **HaluPix** DUO is a 50x50cm (20x20 inches) building block. It comprises two distinct layers of light sources: 441 (21x21) RGB+WW pixels with a 120° beam spread, and 49 (7x7) WarmWhite 4° beam sources. The total power draw is 500W, which can be distributed between either or both groups of light sources according to user preference. Additionally, each emitter is individually pixel controllable, enabling the display of video content on either one or both sources. This offers exceptional brightness and unmatched colors.

The modular frame of **HaluPix** DUO, akin to LED tile structures, allows seamless interlocking of multiple units. This maintains a consistent pixel pitch across both source groups when using several devices. The frame is designed for versatility, supporting various configurations such as flat or curved, hanging or ground stacking.

HaluPix DUO also excels as an all-weather lighting solution. Its IP65-rated design ensures reliability and durability in both indoor and outdoor applications, protecting against water and dust.

In terms of connectivity, **HaluPix** DUO comes with an integrated power supply and user interface. It supports a variety of lighting protocols including DMX, RDM, sACN, Art-Net and RDMnet, offering unparalleled flexibility for any setup.

MAIN FEATURES

- 500W IP65 dual layer LED matrix panel, 441x RGBWW pixels and 49x 2700K beams
- Seamless modular frame for flat, curve, hanging / ground, on yoke configurations
- DMX, RDM, sACN, Art-net and RDMnet protocols supported

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PROLIGHTS

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TECHNICAL SPECIFICATIONS

LIGHT SOURCE

- Source: 441 (21 x 21) - 120° - 1.5W RGB + Warm White LEDs
- Additional source: 7 x 7 - 4° - 6W - 2700K LEDs
- Luminous flux: Full Power Wash - Combined: 11'388 lm @Full
- Luminous flux: Full Power Wash: 7'391 lm (beam layer) | 12'555 lm (pixel layer) @Full
- Luminous flux: Full Power Strobe - Combined: 24'000 lm
- Lux: Full Power Wash - Combined: 23'686lx @5 m full
- Lux: Full Power Wash: (beam layer) 51'268 lx | (pixel layer) 173lx @5 m full
- Lux: Full Power Strobe - Combined: 33'000lx
- CRI: (beam layer) > 80 @2700K; (pixel layer) 94 @3200K; 91,5 @5600K
- R9: (pixel layer) 94,8 @3200K; 95,8 @5600K
- Source life expectancy: > 30.000 h

DYNAMIC EFFECTS

- Control Resolution: 16-bit dimmer and color control
- Pixel patterns: pre-programmed static and dynamic pixel patterns
- FX generator: adjustable foreground/background colour, index, speed, direction
- Static mode: selection of static dimmer, colors and color temperature

CONNECTIONS

- Power connection: Seetronic powerCON waterproof IN/OUT connectors
- Signal connection: IP65 Seetronic XLR 5p IN/OUT connectors
- Wireless Connection: optional LumenRadio TiMo FX RDM - CRMX and W-DMX compatible
- Data connection: Seetronic Ethernet IP in/out connectors
- EtherFlow: Ethernet pass-through switch that preserves network connectivity even when the fixture is unpowered

ELECTRICAL

- Mains power supply: 100-240V - 50/60Hz
- Max power consumption (230V): strobe: 1.200 W (peak) - wash: 500W
- Output (at 230V): 4 units on a single power line
- Output (at 120V): 2 units on a single power line
- Standby power: 14,8 W
- Power factor: > 0,94

CERTIFICATIONS / REPORTS

- Compliance: CE, RCM, FCC, cTUVus

BOX CONTENT

- 1 x HALUPIXDUO
- 1 x 1,5 meters 3G1,5mmq power cable (BARE END - SEETRONIC IP65 power connector)

OPTICS

- Beam angle: (Beams) 3,6°; (Pixels) 116°
- Field angle: (Beams) 6,8°; (Pixels) 155°
- Pixel pitch: (BEAMs) 72 mm | (PIXELs) 24mm
- Additional optics: available optional optics for beam LEDs 12°, 24°

COLOUR SYSTEM

- Macros: several pre-built pixel macros with adjustable speed

CONTROL

- Supported Protocols: DMX512, RDM, ArtNet, RDMnet, sACN (IGMP v2), CRMX (optional)
- DMX channels: from 12 channels to 1855ch modular and user-customizable DMX architecture (MCA)
- Pixel control: pixel2pixel control
- RDM: for remote addressing and parameter configuration
- Display: Graphic User Interface
- Master/Slave: for synchronised operation of more units linked in a chain

ELECTRONICS

- Dimmer: linear 0 - 100% electronic dimmer
- Dimmer curves: up to 6 independent selectable dimmer curves per source
- Strobe / shutter: 1 - 30 Hz, electronic
- Selectable PWM: 600 to 25,000 Hz (selectable steps)
- Firmware upgrade with: via DMX with UPBOXPRO (not included) or via Ethernet with DMX-Workshop

PHYSICAL

- IP rating: IP65 for temporary outdoor use
- Cooling: fan-free with natural convection
- Housing: Weatherproof IP65 construction with magnesium alloy
- Finish: black
- Operating temperature: Ta -20 to +45 °C (-4 to +113 °F)
- Dimensions (WxHxD): 500x500x133mm
- Weight: 16,3kg

INSTALLATION

- Suspension and fixing: spigot for tripod use, bracket for truss rigging and hardware for connection of more units
- Bracket system: spigot for tripod use and bracket for truss rigging
- Hardware on-board: on board mechanics for modular assembly of multiple fixtures
- Curve configurations: -10° to +15° with onboard mechanics - back accessories for ground applications compatible with KAPPAX Ledwall (refer to the user manual for details)

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ACCESSORIES & RELATED PRODUCTS



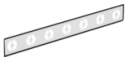
HALUCONNECT
Setting software for Prolights Halu fixtures: discovery, layout, addressing and testing



FCLHALUPIXDUO
Flight case for 4 pcs HALUPIXDUO



OXFCIS150
Rigging/ground-stack structure flightcase for all LEDScreen series, 150cm



HDFILTBK
Adhesive anti-glare and stealth filter specifically designed for a single strip on HALU DUO series



HDL12
Optional Beam Lenses 12° for HALUPIXDUO and HALUSTRIPDUO

HDL24
Optional Beam Lenses 24° for HALUPIXDUO and HALUSTRIPDUO



OS25PLUS
Quick-lock omega bracket, M12 hole



OS25H3PLUS
Quick-lock omega bracket, 6 cm height, M12 hole



ECLFRSPG
Spigot for PROLIGHTS fixtures



VBSPG
Spigot for HALUPIXDUO



VBJMPF
Metal joint used to connect 4 pcs HALUPIXDUO cabinets in flat configuration, M10 hole



VBJMPC
Metal joint used to connect 4 pcs HALUPIXDUO cabinets in curve configuration, M10 hole



OXACL01
Power cable for LED display series, Seetronic, L.140 cm



OXACL10
Power cable for LED display series, Seetronic, L.10 m



OXDCL01
Data cable for OMEGAX LED display series assembled with RJ45, Seetronic, IP65, L.1,4 m



OXDCL10
Data cable for OMEGAX LED display series assembled with RJ45, Seetronic, IP65, L.10 m



VBHGB01
Fly bar / ground bar for HALUPIXDUO, 1 column



VBHGB02
Fly bar / ground bar for HALUPIXDUO, 2 column



KSXCJB
Ground system back horizontal support for SIGMAX and KAPPAX series LED wall



KSXSPC
Ground structure spacer for HALUPIXDUO



KSXBS21
2in1 back support for SIGMAX and KAPPAX series LED wall for ground system fixing



KSXBS31
3in1 back support for SIGMAX and KAPPAX series LED wall for ground system fixing

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ACCESSORIES & RELATED PRODUCTS



KSXBSC

Back plate for SIGMAX and KAPPAX series LED wall for ground system fixing



KSXGHR

Ground system back horizontal reinforcement for SIGMAX & KAPPAX series LED wall



IPTESTBOX

Portable vacuum and pressure tester for ProLights IP fixtures



RSR1235B

Steel security cable for hanging bodies, inox steel shackle, L=120 cm, black



C6016B

Selflock slim clamp, 250Kg load, 48-51mm tubes, M10 bolt incl, Black&White& White



AETHERBOXONE

IP65 1x universe CRMX transceiver, DMX, Ethernet protocols, Wi-Fi, Bluetooth, battery-ready, POE



AETHERBOX

IP65 1 universe CRMX transceiver, DMX and Ethernet protocols, Wi-Fi, Bluetooth and battery ready



C6002B

Slim aluminum clamp, 200kg loading, 48-51mm tubes, M10 bolt, Black&White& White



9513FXWL03

Ass. 3x2.5mm TH07 cable, 16A 3p 230V CEE plug, MENAC3FXW socket, L.3 m



9533FXWL03

Ass. 3x2.5mm TH07 cable, SCHUKO plug, MENAC3FXW socket, L.3m



958225L03

3x2.5mm TH07 Cable, 16A 3p PwCon MXW, 16A 3p PwCon FXW, L. 3m

TOUR53415L03

Dmx cable HC5340. CANC5MXX XLR 5p->CANC5FXX XLR (f) 5p, L.3m



HDWK

Wireless kit, compatible with multiple Prolights products



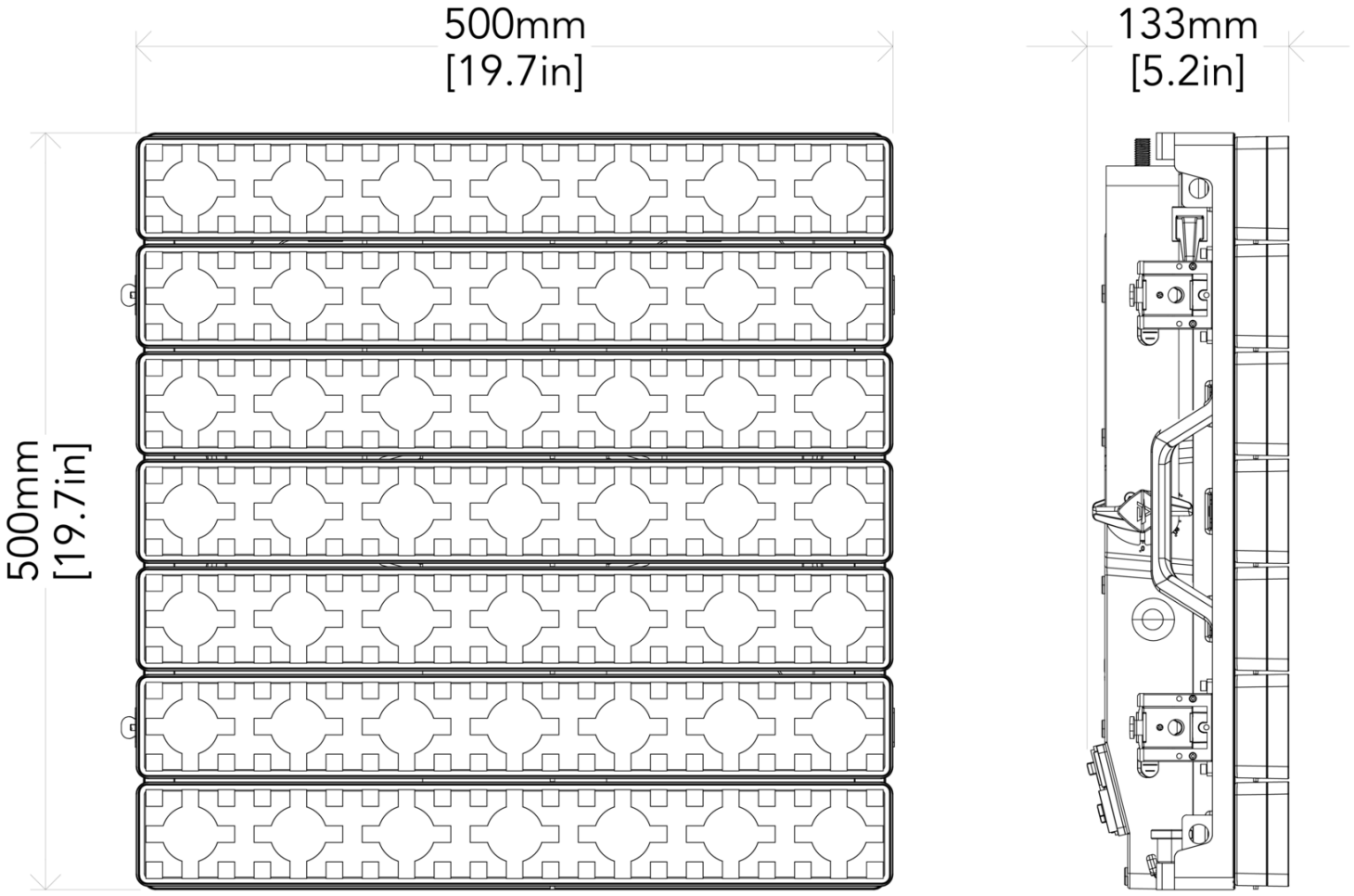
UPBOXPRO

Firmware uploader kit, USB IN, 5-pin XLR DMX OUT connector

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TECHNICAL DRAWINGS

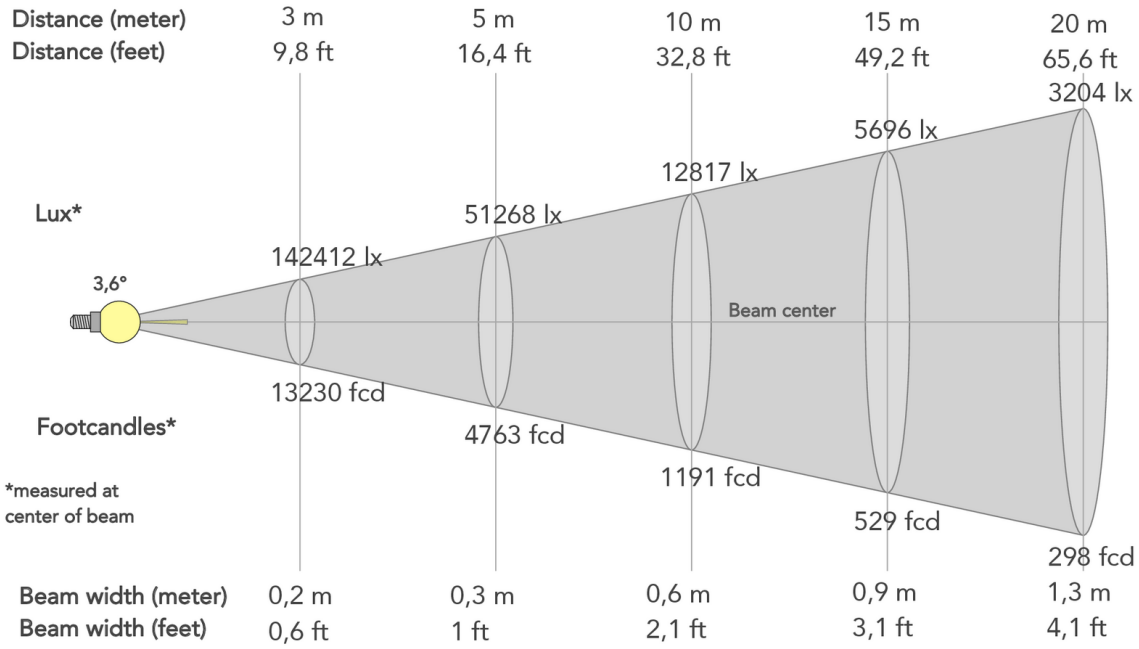


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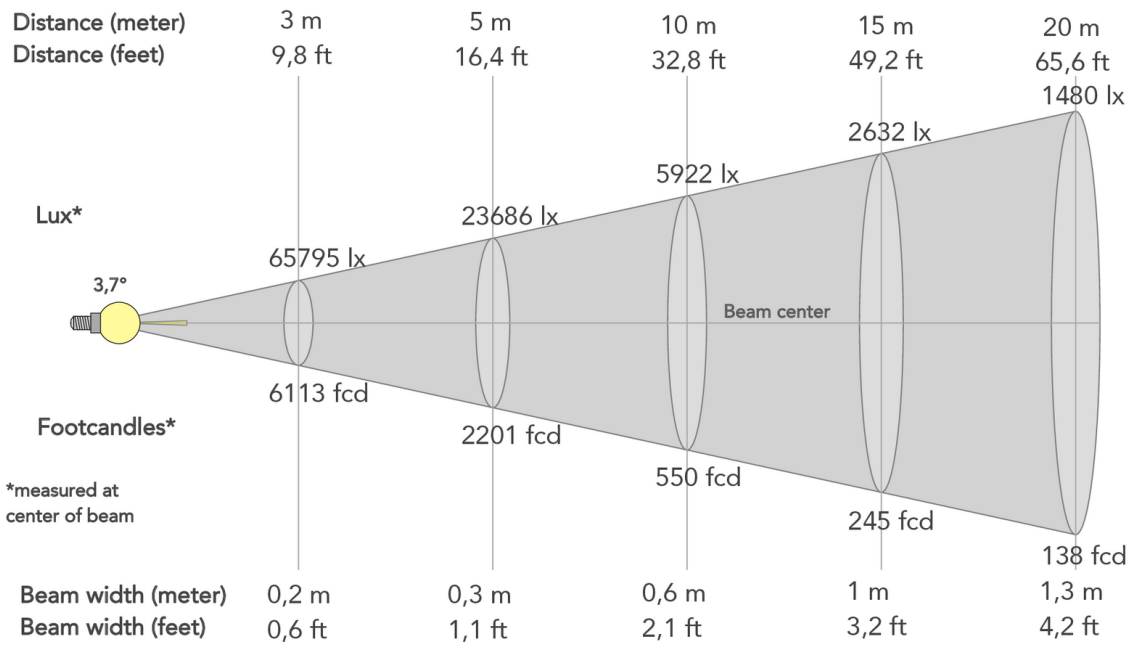
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PHOTOMETRICS

Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
3,6°	6,8°	8,8°	95,9%	93,3%



Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
3,7°	6,9°	9,2°	86,9%	67,6%



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