

HaluPix DUO

400W IP65 dual layer LED matrix panel with 7x7 led 2700K 4° + 21x21 led RGBW Video pixels

ORDER CODE: **HALUPIXDUO**



The **HaluPix** DUO is a dual layer LED matrix panel that seamlessly integrates lighting and video capabilities into a modular design. This twin-source unit offers high-power, long-throw white pixels 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 stage 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 emitters with a 120° beam spread, and 49 (7x7) WarmWhite 4° beam sources. The total power draw is 400W, 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 and video protocols, including DMX, RDM, sACN, and Art-Net, offering unparalleled flexibility for any setup.

MAIN FEATURES

- 400W IP65 dual layer LED matrix panel
- Seamless modular frame for flat, curve, hanging / ground, on yoke configurations
- DMX, RDM, sACN, and Art-net protocols supported

TECHNICAL SPECIFICATION

LIGHT SOURCE

- Light source: 7 x 7 4° 2700K LEDs + 21 x 21 120° RGB+WW LEDs
- Luminous flux: (total) 11'388 lm - (beam layer) 7'391 lm - (pixel layer) 12'555 lm @full
- Lux: (total) 23'686 lx - (beam layer) 51'268 lx - (pixel layer) 173lx @5m full
- 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

OPTICS

- Beam angle: (beam layer) 3,6°; (pixel layer) 116°
- Field angle: (beam layer) 6,8°; (pixel layer) 155°
- Pixel pitch: (beam layer) 72 mm; (pixel layer) 24mm / 0"x0"
- Lens type: TIR lenses
- Additional optics: optional 12°, 24°

COLOUR SYSTEM

- Colour mixing: (beam layer) Warm White (2700K), (pixel layer) RGB + Warm White
- Colour wheel: virtual colour wheel with macros
- Macros: several pre-built pixel macros with adjustable speed

DYNAMIC EFFECTS

- Control Resolution: 16-bit dimmer, colours
- Pixel patterns: pre-programmed dynamic and static patterns
- FX generator: adjustable foreground/background colour, index, speed, direction
- Static mode: selection of static dimmer, colors and color temperature
- Manual mode: manual adjustment of dimmer and strobe
- Auto mode: built-in programs with execution speed adjustment

BODY

- Bracket system: spigot for tripod use and bracket for truss rigging
- Hardware on-board: on board mechanics for modular assembly of multiple fixtures
- Body: weatherproof IP65 construction with magnesium alloy
- Body colour: black
- Other: from -10° to +15° curve configurations with onboard compass mechanics - the back accessories for the ground applications are compatible with KAPPAX an

CONTROL

- Protocols: DMX512, RDM, ArtNet, RDM over Artnet, sACN, CRMX, Web Server
- DMX channels: from 12 channels to 1855channel
- Pixel control: pixel2pixel control
- Wireless Control: optional, LumenRadio Timo Fx DMX/RDM compatible with both CRMX (Lumen Radio) and W-DMX (Wireless DMX)
- RDM: RDM for remote monitoring and settings
- Display: Graphic User Interface
- Firmware upgrade: yes, via USB - DMX interface (UPBOXPRO) not included
- Master/Slave: for synchronised operation of more units linked in a chain
- Other: Ethernet pass through in case of failure

ELECTRONICS

- Dimmer: linear 0 ~ 100% electronic dimmer
- Dimmer curves: up to 6 independent selectable dimmer curves per source
- Strobe / shutter: 1 - 30 Hz, electronic
- Operating temperature: -20° C / +45° C (-4° F / +113° F)
- LED Control: flicker free operation
- Selectable PWM: 600 ~ 25.000 Hz

ELECTRICAL

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

PHYSICAL

- IP rating: 65 for temporary outdoor application, not for fixed installations
- Cooling: passive cooling and fan-free
- Suspension and fixing: spigot for tripod use, bracket for truss rigging and hardware for connection of more units
- Signal connection: IP65 Seetronic XLR 5p IN/OUT connectors
- Data connection: Seetronic Ethernet IP in/out connectors
- Power connection: Seetronic powerCON waterproof IN/OUT connectors
- Dimensions (WxHxD): 500x500x133mm / 19.69"x19.69"x5.24"
- Weight: 16,3kg / 35.94lbs

CERTIFICATIONS / APPROVALS

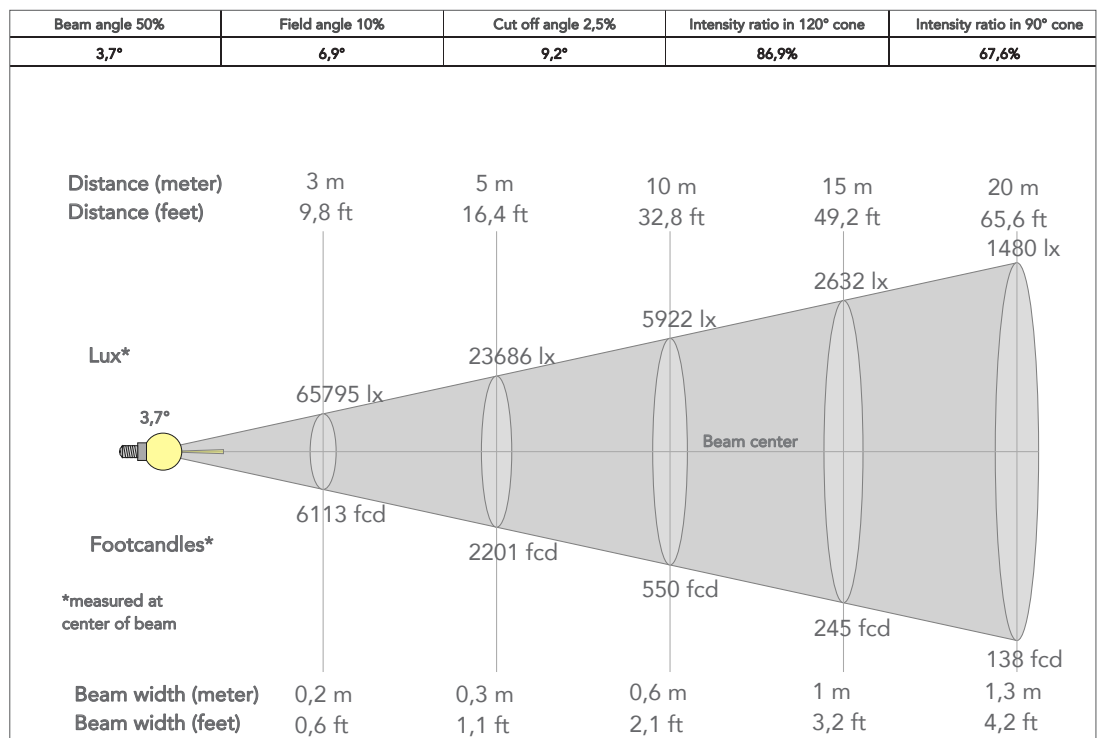
- Certifications / Approvals: CE, RCM, FCC, cTUVus

ACCESSORIES & RELATED PRODUCTS

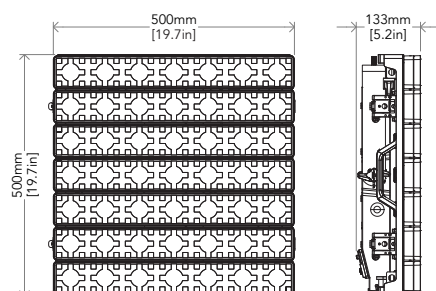
- FCLHALUPIXDUO Flight case for 4 pcs HALUPIXDUO
- OXFCS150 Rigging/ground-stack structure flightcase for all LEDScreen series, 150cm
- HDL12/24/35/52 Optional Beam Lenses 12°/24°/35°/52° for HALUPIXDUO
- ECLFRSPG Spigot for PROLIGHTS fixtures
- VBSPG Spigot for PIXELBRUTE and HALUPIXDUO
- OS25PLUS Quick-lock omega bracket, M12 hole
- OS25H3PLUS Quick-lock omega bracket, 6 cm height, M12 hole
- VBHGB01 Fly bar / ground bar for PIXELBRUTE and HALUPIXDUO, 1 column
- VBHGB02 Fly bar / ground bar for PIXELBRUTE and HALUPIXDUO, 2 column
- KSXCJB Ground system back horizontal support for SIGMAX and KAPPAX series LED wall
- KSXSPC Ground structure spacer for HALUPIXDUO and PIXELBRUTE
- 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
- 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
- VBJMPP Metal joint used to connect 4 pcs PIXELBRUTE and HALUPIXDUO cabinets in flat configuration, M10 hole
- VBJMPC Metal joint used to connect 4 pcs PIXELBRUTE and HALUPIXDUO cabinets in curve configuration, M10 hole
- HDWK Wireless Kit for HALUPIXDUO
- 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
- 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. CANS5MXX XLR 5p->CANS5FX XLR (f) 5p, L.3m
- LRLUNA Single Universe DMX transceiver with Bluetooth
- LRAURORA Single Universe DMX/RDM transceiver with WiFi and Bluetooth
- UPBOXPRO Firmware uploader kit, USB IN, 5-pin XLR DMX OUT connector

PRESET FULL ON

Beam angle 50%: 3,7°



TECHNICAL DRAWINGS



CERTIFICATIONS / APPROVALS



Conforms to UL STD. 1573
Certified to CSA STD: C22.2 NO. 166

Visit our website for specifications and tech documentations

