HaluPix Duo

500W IP65 dual layer LED matrix panel with 7x7 2700K 4° Beams + 21x21 RGBWW pixels

ORDER CODE: **HALUPIXDUO**

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

TECHNICAL SPECIFICATION

LIGHT SOURCE
- Light source: 7 x 7 4° 2700K LEDs + 21 x 21 120° RGB+WW 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

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

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

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
- Curve configurations: -10° to +15° with onboard mechanics - back accessories for ground applications compatible with KAPPAX Ledwall (please refer to the user manual for more details)
- Body colour: black

CONTROL
- Protocols: DMX512, RDM, ArtNet, RDMnet, sACN, CRMX (optional)
- 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: via DMX with UPBOXPRO (USB-DMX interface not included) or via Ethernet (Art-Net with DMX-Workshop)
- Master/Slave: for synchronised operation of more units linked in a chain
- EtherFlow: Ethernet pass-through switch that preserves network connectivity even when the fixture is unpowered.

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) Ta
- LED Control: flicker free frequency with adjustable PWM
- Selectable PWM: 600 ~ 25.000 Hz

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

PHYSICAL
- IP rating: 65 for temporary outdoor application, not for fixed installations
- Cooling: fan-free projector with a chassis designed for natural convection cooling
- 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''
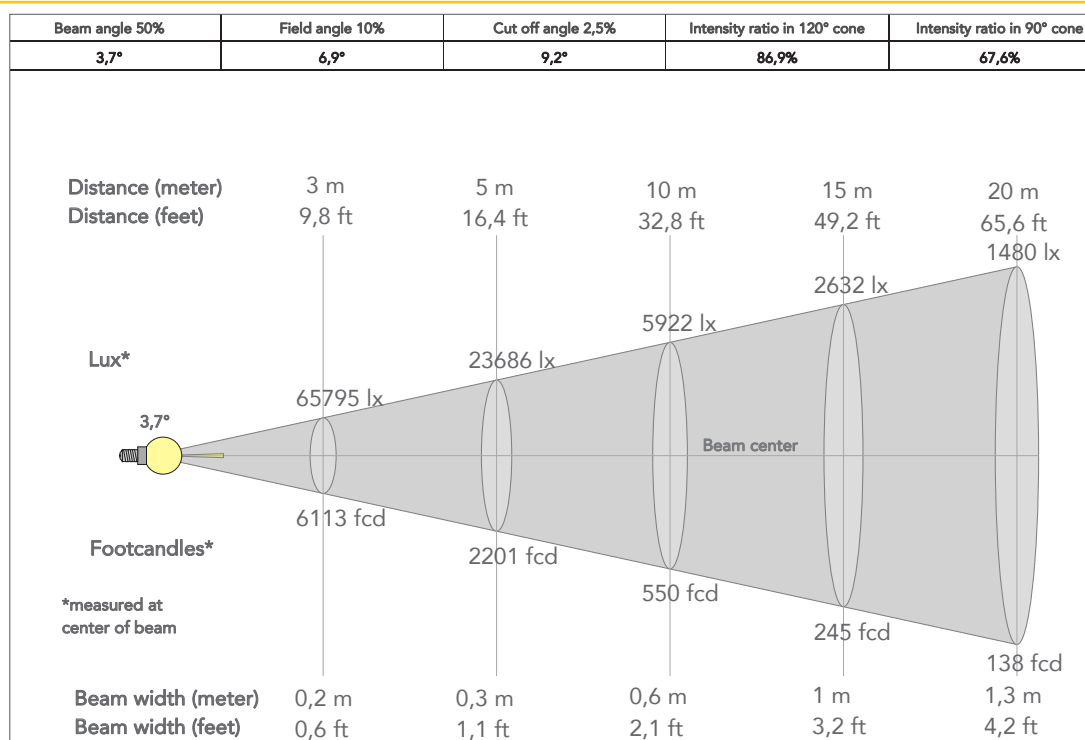- Weight: 16,3kg / 35.94lbs

CERTIFICATIONS / APPROVALS
- Certifications / Approvals: CE, RCM, FCC, cTUVus
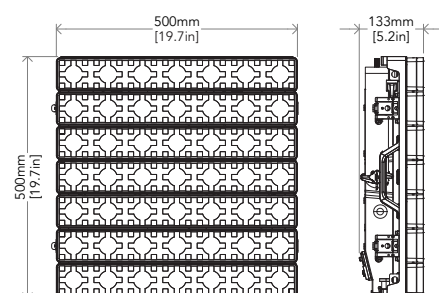
ACCESSORIES & RELATED PRODUCTS

- **ÆTHERBOX** — IP65 1 universe CRMX transceiver, DMX and Ethernet protocols, Wi-Fi, Bluetooth and battery ready
- **ÆTHERBOXLITE** — 1 Universe CRMX Wireless Transceiver
- **FCLHALUPIXDUO** — Flight case for 4 pcs HALUPIXDUO
- **OXFCIS150** — Rigging/ground-stack structure flightcase for all LEDScreen series, 150cm
- **HDL12/24** — Optional Beam Lenses 12°/24° for HALUPIXDUO
- **ECLFRSPG** — Spigot for PROLIGHTS fixtures
- **VBSPG** — Spigot for HALUPIXDUO
- **OS25PLUS** — Quick-lock omega bracket, M12 hole
- **OS25H3PLUS** — Quick-lock omega bracket, 6 cm height, M12 hole
- **OXACL01/10** — Power cable for LED display series, Seetronic, L.01/10 m
- **OXDCL01/10** — Data cable for OMEGAX LED display series assembled with RJ45, Seetronic, IP65, L. 01/10 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
- **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
- **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 hol
- **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. 3 m
- **TOUR53415L03** — Dmx cable HC5340. CANC5MXX XLR 5p->CANC5FXX 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°

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%

	3 m	5 m	10 m	15 m	20 m
Distance (meter)	3 m	5 m	10 m	15 m	20 m
Distance (feet)	9,8 ft	16,4 ft	32,8 ft	49,2 ft	65,6 ft
Lux*	65795 lx	23686 lx	5922 lx	2632 lx	1480 lx
Footcandles*	6113 fcd	2201 fcd	550 fcd	245 fcd	138 fcd
Beam width (meter)	0,2 m	0,3 m	0,6 m	1 m	1,3 m
Beam width (feet)	0,6 ft	1,1 ft	2,1 ft	3,2 ft	4,2 ft

*measured at center of beam

TECHNICAL DRAWINGS

500mm [19.7in]
133mm [5.2in]
500mm [19.7in]

CERTIFICATIONS / APPROVALS

TÜVRheinland

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

Visit our website for specifications and tech documentations

FC   CE   RCM

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