

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: 441 (21 x 21) 120° RGB+WW LEDs + 7 x 7 4° 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

OPTICS

- Beam angle: (Beams) 3,6°; (Pixels) 116°
- Field angle: (Beams) 6,8°; (Pixels) 155°
- Pixel pitch: (BEAMS) 72 mm | (PIXELS) 24mm / 0"
- Additional optics: available optional optics for beam LEDs 12°, 24°

COLOUR SYSTEM

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

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

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 25000 Hz (selectable steps)
- Firmware upgrade: via DMX with UPBOXPRO (not included) or via Ethernet with DMX-Workshop

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

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 / 19.69"x19.69"x5.24"
- Weight: 16,3kg / 35.94lbs

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)

CERTIFICATIONS / REPORTS

- Compliance: CE, RCM, FCC, cTUVus

BOX CONTENT

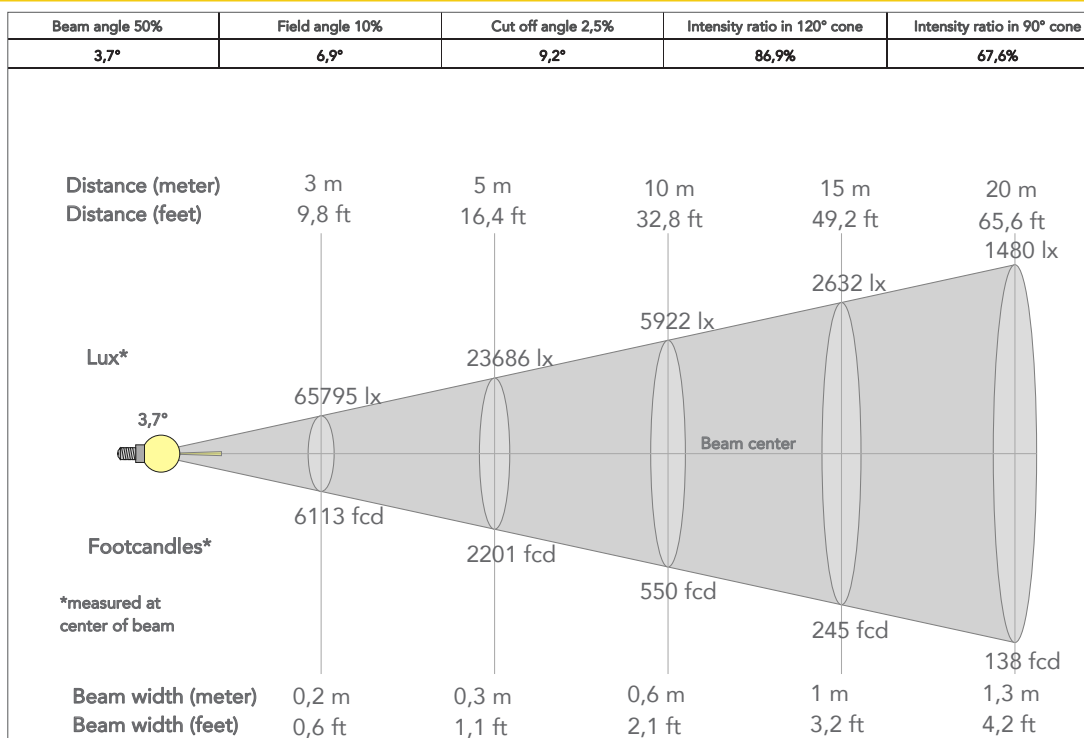
- 1 x HALUPIXDUO
- 1 x 1,5 meters 3G1,5mmq power cable (BARE END - SEETRONIC IP65 power connector)
- 1 x User Manual

ACCESSORIES & RELATED PRODUCTS

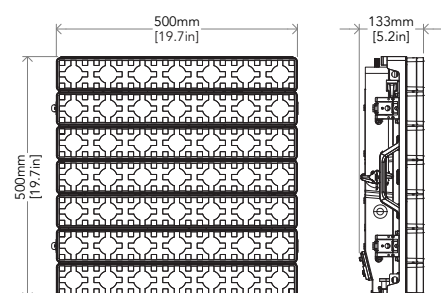
▪ ÆTHERBOX	IP65 1 universe CRMX transceiver, DMX and Ethernet protocols, Wi-Fi, Bluetooth and battery ready	▪ KSXGHR	Ground system back horizontal reinforcement for SIGMAX & KAPPAX series LED wall
▪ ÆTHERBOXLITE	1 Universe CRMX Wireless Transceiver	▪ VBJMPF	Metal joint used to connect 4 pcs HALUPIXDUO cabinets in flat configuration, M10 hole
▪ FCLHALUPIXDUO	Flight case for 4 pcs HALUPIXDUO	▪ VBJMPC	Metal joint used to connect 4 pcs HALUPIXDUO cabinets in curve configuration, M10 hol
▪ OXFCS150	Rigging/ground-stack structure flightcase for all LEDScreen series, 150cm	▪ HDWK	Wireless Kit for HALUPIXDUO
▪ HDL12/24	Optional Beam Lenses 12°/24° for HALUPIXDUO	▪ IPTSTBOX	Portable vacuum and pressure tester for ProLights IP fixtures
▪ ECLFRSPG	Spigot for PROLIGHTS fixtures	▪ RSR1235B	Steel security cable for hanging bodies, inox steel shackle, L=120 cm, black
▪ VBSFG	Spigot for HALUPIXDUO	▪ C6016B	Selflock slim clamp, 250Kg load, 48-51mm tubes, M10 bolt incl, Black&White& White
▪ OS25PLUS	Quick-lock omega bracket, M12 hole	▪ C6002B	Slim aluminum clamp, 200kg loading, 48-51mm tubes, M10 bolt, Black&White& White
▪ OS25H3PLUS	Quick-lock omega bracket, 6 cm height, M12 hole	▪ 9513FXWL03	Ass. 3x2.5mm TH07 cable, 16A 3p 230V CEE plug, MENAC3FXW socket, L.3 m
▪ OXACL01/10	Power cable for LED display series, Seetronic, L.01/10 m	▪ 9533FXWL03	Ass. 3x2.5mm TH07 cable, SCHUKO plug, MENAC3FXW socket, L.3m
▪ OXDCL01/10	Data cable for OMEGAX LED display series assembled with RJ45, Seetronic, IP65, L. 01/10 m	▪ 958225L03	3x2.5mm TH07 Cable, 16A 3p PwCon MXW, 16A 3p PwCon FXW, L. 3m
▪ VBHGB01	Fly bar / ground bar for HALUPIXDUO, 1 column	▪ TOUR53415L03	Dmx cable HC5340. CANC5MXX XLR 5p->CANC5FXX XLR (f) 5p, L.3m
▪ VBHGB02	Fly bar / ground bar for HALUPIXDUO, 2 column	▪ LRLUNA	Single Universe DMX transceiver with Bluetooth
▪ KSXCJB	Ground system back horizontal support for SIGMAX and KAPPAX series LED wall	▪ LRAURORA	Single Universe DMX/RDM transceiver with WiFi and Bluetooth
▪ KSXSPC	Ground structure spacer for HALUPIXDUO	▪ UPBOXPRO	Firmware uploader kit, USB IN, 5-pin XLR DMX OUT connector
▪ 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		

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

