

# 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: 11'388 lm (total) @Full
- Luminous flux: 7'391 lm (beam layer) | 12'555 lm (pixel layer) @Full
- Lux: (total) 23'686lx @5 m full
- Lux: (beam layer) 51'268 lx | (pixel layer) 173lx @5 m 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°
- 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
- Body colour: black

### CONTROL

- Protocols: DMX512, RDM, ArtNet, RDMnet, sACN, CRMX
- 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: 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: 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

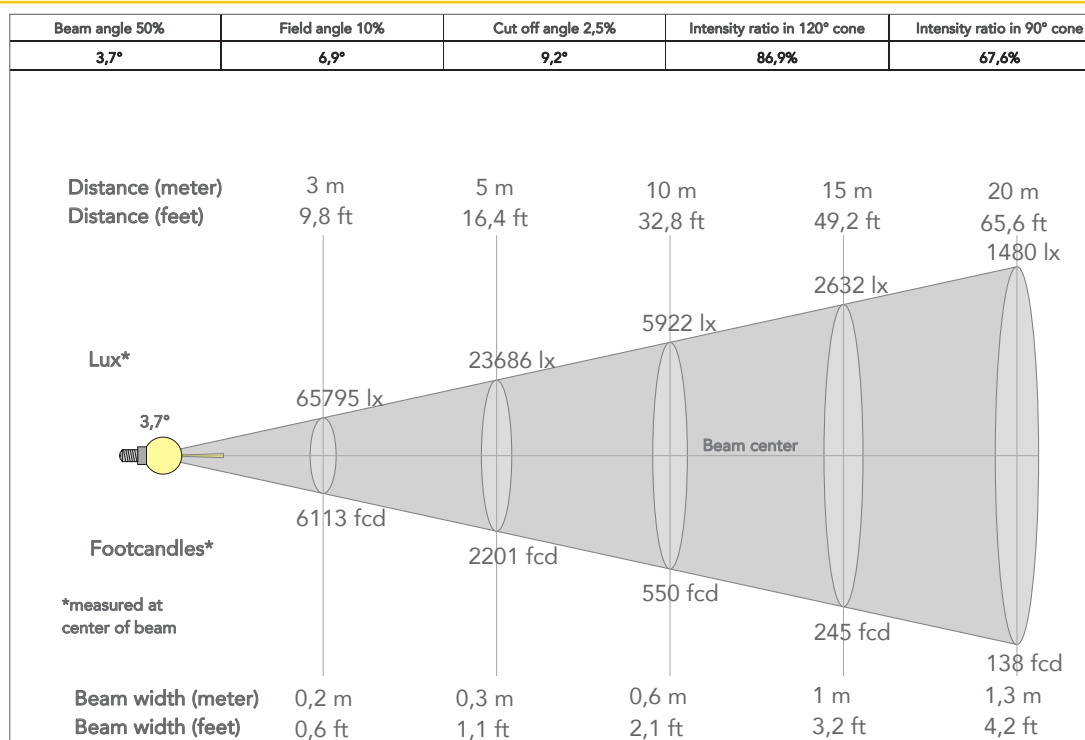
- Certifications / Approvals: CE, RCM, FCC, cTUVus

## ACCESSORIES & RELATED PRODUCTS

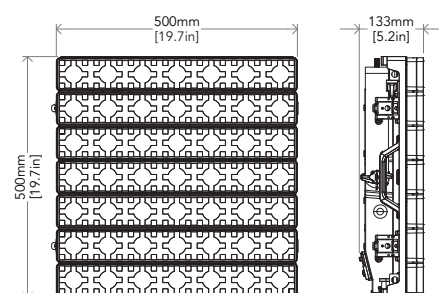
|                 |                                                                                                  |                |                                                                                       |
|-----------------|--------------------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------|
| ▪ AETHERBOXLITE | 1 Universe CRMX Wireless Transceiver                                                             | ▪ VBJMPPF      | Metal joint used to connect 4 pcs HALUPIXDUO cabinets in flat configuration, M10 hole |
| ▪ AETHERBOX     | IP65 1 universe CRMX transceiver, DMX and Ethernet protocols, Wi-Fi, Bluetooth and battery ready | ▪ VBJMPC       | Metal joint used to connect 4 pcs HALUPIXDUO cabinets in curve configuration, M10 hol |
| ▪ FCLHALUPIXDUO | Flight case for 4 pcs HALUPIXDUO                                                                 | ▪ HDWK         | Wireless Kit for HALUPIXDUO                                                           |
| ▪ OXFCS150      | Rigging/ground-stack structure flightcase for all LEDScreen series, 150cm                        | ▪ IPTESTBOX    | Portable vacuum and pressure tester for ProLights IP fixtures                         |
| ▪ HDL12/24      | Optional Beam Lenses 12°/24° for HALUPIXDUO                                                      | ▪ RSR1235B     | Steel security cable for hanging bodies, inox steel shackle, L=120 cm, black          |
| ▪ ECLFRSPG      | Spigot for PROLIGHTS fixtures                                                                    | ▪ C6016B       | Selflock slim clamp, 250Kg load, 48-51mm tubes, M10 bolt incl, Black&White& White     |
| ▪ VBSPG         | Spigot for HALUPIXDUO                                                                            | ▪ C6002B       | Slim aluminum clamp, 200kg loading, 48-51mm tubes, M10 bolt, Black&White& White       |
| ▪ OS25PLUS      | Quick-lock omega bracket, M12 hole                                                               | ▪ 9513FXWL03   | Ass. 3x2.5mm TH07 cable, 16A 3p 230V CEE plug, MENAC3FXW socket, L.3 m                |
| ▪ OS25H3PLUS    | Quick-lock omega bracket, 6 cm height, M12 hole                                                  | ▪ 9533FXWL03   | Ass. 3x2.5mm TH07 cable, SCHUKO plug, MENAC3FXW socket, L.3m                          |
| ▪ VBHGB01       | Fly bar / ground bar for HALUPIXDUO, 1 column                                                    | ▪ 958225L03    | 3x2.5mm TH07 Cable, 16A 3p PwCon MXW, 16A 3p PwCon FXW, L. 3m                         |
| ▪ VBHGB02       | Fly bar / ground bar for HALUPIXDUO, 2 column                                                    | ▪ TOUR53415L03 | Dmx cable HC5340. CANS5MXX XLR 5p->CANS5FXX XLR (f) 5p, L.3m                          |
| ▪ KSXCJB        | Ground system back horizontal support for SIGMAX and KAPPAX series LED wall                      | ▪ LRLUNA       | Single Universe DMX transceiver with Bluetooth                                        |
| ▪ KSXSPC        | Ground structure spacer for HALUPIXDUO                                                           | ▪ LRAURORA     | Single Universe DMX/RDM transceiver with WiFi and Bluetooth                           |
| ▪ KSXBS21       | 2in1 back support for SIGMAX and KAPPAX series LED wall for ground system fixing                 | ▪ UPBOXPRO     | Firmware uploader kit, USB IN, 5-pin XLR DMX OUT connector                            |
| ▪ 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                  |                |                                                                                       |

## 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

