

Tender Specifications



KAPPAPIX26B

XR/VP 2,6 mm LED screen, 50x50 cm tile
with Brompton R2 control system

1. General

1. The KappaPix 26B is an high standard LED screen for XR & Virtual Production with a 2,6 mm pixel pitch, designed to meet requirements for motion picture and XR studios.
2. The LED screen shall be CE, UKCA, cURus compliant.
3. The LED screen shall be equipped with Brompton R2 receiver cards on board, achieving >7680 Hz refresh rate, > 251 Hz image frame rate and up 16 bit grey scale.
4. The LED screen shall feature with a mechanical design of the tiles conceived to allow fast single person installation with safety and handling features such automatic edge and corner protection.
5. The LED screen shall be conceived for a fast maintenance for LED modules and PSU unit, allowing the replacement without tools.
6. The LED screen shall be designed for curved, concave and convex $+10^{\circ}$ / $- 5^{\circ}$ through high precision curving plates.
7. The LED screen should feature with a cabinet built into magnesium, for a lightweight with 6,3 kg per panel and 25,2 kg per sqm.

2. Video

1. The LED screen shall feature with a Driver Chip type MBI 5264
2. The LED screen shall feature with LED source from Nationstar SMD 1515 full black.
3. The LED screen shall feature with a pixel pitch of 2,6 mm.
 - Panel resolution: 192x192 pixels.
 - Module resolution: 96x96 pixels.
4. The LED screen shall be with a luminous flux of 1200 nit.
 - Contrast: 6.000:1.
 - Grayscale: 16 bit.
 - Refresh rate: $\geq 7,680$ Hz.
 - Frame rate: 251 Hz.
5. The LED screen shall feature 1/16 scan, constant current Drive Mode.
6. The LED screen shall feature 160° vertical and horizontal viewing.

- LED density: 147.456 LED/sqm.
- Dead Pixel Ratio: <0,002.
- Average LED life span: 100.000 Hrs.

3. Electrical

1. The LED screen shall feature IP65 Neutrik IN/OUT PowerCON.
2. The LED screen shall feature AC 110/230 V 50/60 Hz power input.
 - Max power consumption (panel): 160W.
 - Avg power consumption (panel): 55W.
 - Max power consumption (sqm): 640W.
 - Avg power consumption (sqm): 220W.
 - Standby power consumption (panel): 55W.
 - Max rated current/panel: 220 Vac / 0,73 A.

4. Environmental

1. The LED screen shall have an IP30 rate (front and rear).
2. The LED screen shall be capable of operating in ambient temperature range of -10°C (14°F) to +45°C (113°F).
3. The LED screen shall be capable of operating in ambient humidity range of 10~80 RH %.
4. The LED screen shall feature waterproof IN/OUT Neutrik RJ45 connection.
5. The LED screen shall feature with cooling system fan free.

5. Control

1. The LED screen shall feature with R2 receiving card.
2. The LED screen shall feature with Brompton control protocol.

6. Mechanics

1. The LED screen shall be feature with magnetic LED modules.
2. The LED screen shall feature with curve configurations block, corner protection, auto-lock mechanics.
 - Vertical hanging sytem: built in aliscaf clamp support.
 - Curvability: -5° convex and +10° concave accessorires system.
 - Body: die-cast magnesium housing in black colour.
 - Module size (WxH): 250x250 mm.
 - Panel size (WxHxD): 500x500x70.1 mm.
 - Panel weight: 6,3 kg.
 - Weight per square meter: 25,2 kg.
 - Hanging Panel Quatities ≤: 20 for hanging and 12 for stacking.

7. Accessories

The following accessories shall be included in fixture supplied:

1. Cabinet curve plate standard, flat 0°.

The following accessories shall be available as an optional:

- Flight case for 8 units.
- Fly bar / ground bar (1 column).
- Fly bar / ground bar (2 columns).
- Ground system back horizontal support.
- 2 in 1 back support system.
- 3 in 1 back support system.
- Ground system back horizontal reinforcement.
- Metal joint to connect 4 units.
- Cabinet curve plate concave 10°, 9°, 8°, 7,5°, 7°, 6°, 5°, 4°, 3°, 2,5°, 2°, 1°.
- Cabinet curve plate convex 1°, 2°, 2,5°, 3°, 4°, 5°.
- Flight case for 100 cm Rigging/ground-stack structure.

- Flight case for 200 cm Rigging/ground-stack structure.
- 140 cm power cable, assembled with PowerConn IN/OUT
- 10 m power cable, assembled with PowerConn IN/OUT
- 140 cm data cable assembled with rj45 connectors.
- 10 m data cable assembled with rj45 connectors.
- Bromton 4K LED video processor.
- Brompton data distribution unit.

Approved device shall be the PROLIGHTS LED Screen KappaPix 26B , no alternates or equals.