



# VDO Face 5 HB

The VDO Face 5 HB is a high-brightness outdoor-rated LED video panel with a pixel pitch of 5.2 mm for the rental market. This well-designed panel from Martin is driven by the same P3 System Controller as all other Martin LED Video products for a seamless total video solution. Consistent pixel-to-pixel calibration not only gives the best image quality, it also enables panels from different batches to be mixed. Ease of service and support from a brand that is here to stay give you peace of mind.

Bright flicker-free video output

Consistent calibration allowing cross-renting between different batches

Easy setup, mapping and configuration, and easy mix with other Martin LED Video products

## GALLERY



## FEATURES

- 5.2 mm pixel pitch
- 5000 nits calibrated
- Compatible with Martin P3 System Controllers for mix and match with other (Creative) LED Video products
- Pixel-level brightness and color calibration for optimal image quality
- High-quality 16-bit per colour P3 image processing technology
- Integration with lighting and motion controls via P3 System Controller
- Intuitive mapping and addressing via P3 System Controller
- IP65 rated (all sides and angles) for reliable outdoor (and indoor) use
- LED ageing compensation via P3 Fixture Adjuster
- Easy swap of LEDBlock from behind (and in front of) the screen
- Easy swap of power supply and mainboard in the middle of a screen
- High refresh-rate for flicker-free performance

## TECHNICAL SPECIFICATIONS

### Physical

VDO Face 5 HB LED Video Panel  
Width: 500 mm (19.7 in.)  
Height: 562.5 mm (22.2 in.)  
Depth: 105 mm (4.2 in.)  
Weight: 10.5 kg (23.2 lbs.)

VDO Face Single Header  
Width: 500 mm (19.7 in.)  
Height: 36 mm (1.5 in.)  
Depth: 69 mm (2.8 in.)  
Weight: 2.4 kg (5.3 lbs.)

VDO Face Double Header  
Width: 1000 mm (39.4 in.)  
Height: 36 mm (1.5 in.)  
Depth: 69 mm (2.8 in.)  
Weight: 5.0 kg (11.1 lbs.)

Control and Programming  
Addressing and status: Via Martin™ P3 System Controller

Mapping: Via Martin™ P3 System Controller  
Firmware update: Via Martin™ P3 System Controller

Control/User Interface  
Device status: Multicolor status LED  
Device testing and reset: Pushbutton

Optics  
Pitch (pixel center-to-center): 5.208 mm (0.205 in.)  
LED type: SMD RGB, black housing, white reflector  
Viewing angle (horizontal x vertical): 160° x 140°  
LED Refresh rate: 3400 Hz  
Color resolution: 16 bits per color (48 bits per pixel)  
Resolution, one panel: 96 x 108 pixels  
Pixels per panel: 10368  
Color and intensity calibration: Pixel-level

Photometric Data  
Brightness, calibrated mode: 5000 Nit

Video Processing  
Video signal processor: From Martin™ P3 System Controller range  
Latency between first and last device: None  
Brightness control  
Gamma correction and control  
Color temperature control  
Color space control  
Calibration processing  
Synchronization  
*For full video processing and performance data, see relevant P3 System Controller specifications*

P3 Signal Protocol  
Signal type: Gigabit Ethernet  
Protocol: Proprietary Martin™ P3  
Hot pluggable: Yes, electrically insulated at all connections  
Cable type: Ethernet, CAT 5e or better  
Cable length: Up to 100 m (328 ft.) between any 2 devices, extendable with Ethernet switch  
Max. number of devices per chain: 48 (split chains and multiple chains possible)

Construction  
Panel frame: Die-cast aluminum  
LED modules per panel: 4 x quick-install hot-swappable LED blocks  
Color: Matt black  
Protection rating: IP65, NEMA 4  
RoHS compliant

Installation  
Orientation: Any  
Mounting: Vertical columns suspended from VDO Face 5 headers  
Max. suspended vertically from header: 10 panels (safety factor 10)  
Max. suspended vertically from header: 16 panels (safety factor 6)  
Max. suspended from panel clamp (any orientation): 1 panel  
Wind pressure safety limit: Up to Beaufort Force 8  
Panel interlocking: Quick-lock mechanism

Connections  
Power in: Neutrik PowerCON TRUE1  
Power thru: Neutrik PowerCON TRUE1  
Data in: Neutrik EtherCON Cat 6  
Data thru: Neutrik EtherCON Cat 6

Electrical  
AC power: 100-240 V nominal, 50/60 Hz  
Power supply unit: Integrated, auto-sensing multi-voltage  
Peak power consumption (approx., at full intensity, full white): 191 W per panel / 679 W per m<sup>2</sup>  
Typical power consumption (with typical video content): 64 W per panel / 226 W per m<sup>2</sup>  
Inrush current (half-cycle RMS): 7.9 A

Thermal  
Cooling: Convection  
Maximum ambient temperature (Ta max.), max. intensity, full white: 45° C (113° F)  
Minimum ambient temperature (Ta min.): -20° C (-4° F)  
Typical heat dissipation (calculated, per panel with typical video content): 220 BTU/hr.

Approvals  
EU safety: EN 60950-1, EN 62311, EN 62471  
EU EMC: EN 55024, EN 55032, EN 61000-3-2, EN 61000-3-3  
US safety: UL 60950-1  
US EMC: FCC Title 15, Subpart B, Class A, ANSI C63.4  
Canadian safety: CSA C22.2 No. 60950-1  
Canadian EMC: ICES-003 Class A  
Australia/NZ: RCM

#### Accessories

Service accessories  
VDO Face Front Service Tool: P/N 91616067

Installation hardware  
VDO Face Panel Connection Plate incl. bolts: P/N 91616070  
Extra Eyebolt Kit for VDO Face Header: P/N 91608010  
VDO Face Panel Clamp: P/N 91616076  
VDO Face Curving Plates, 5°, set of 10: P/N 91616084  
VDO Face Curving Plates 10°, set of 10: P/N 91616085

#### Data cable

Data Cable, Cat 6 EtherCON-EtherCON 0.45 m (1.4 ft.): P/N 91611781

Data Cable, Cat 6 EtherCON-EtherCON 1.2 m (3.9 ft.): P/N 91611782

Data Cable, Cat 6 EtherCON-EtherCON 5 m (16.4 ft.): P/N 91611783

Data Connector, Cat 6 EtherCON: P/N 91611787

#### Power cable

Power Cable, H07RN-F Neutrik TRUE1-TRUE1 0.45 m (1.5 ft.): P/N 91611784

Power Cable, H07RN-F Neutrik TRUE1-TRUE1 1.2 m (3.9 ft.): P/N 91611785

Power Cable, H07RN-F Neutrik TRUE1-TRUE1 2.5 m (8.2 ft.): P/N 91611796

Power Cable, H07RN-F Neutrik TRUE1-bare 1.5 m (4.9 ft.): P/N 91611797

Power Cable, H07RN-F Neutrik TRUE1-bare 5 m (16.4 ft.): P/N 91611786

#### Power connectors

Cable Connector, Neutrik PowerCON TRUE1 NAC3MX-W (male): P/N 91611788

Cable Connector, Neutrik PowerCON TRUE1 NAC3FX-W (female): P/N 91611789

#### Related Items

P3-050 System Controller: P/N 90721090

P3-100 System Controller: P/N 90721010

P3-150 System Controller: P/N 90721015

P3-200 System Controller: P/N 90721020

P3-300 System Controller: P/N 90721060

P3-PC System Controller: P/N 90721030

P3-PC License Code: P/N 39808028

P3 Fixture Adjuster License and Training: P/N 90721100

#### Spare Parts

VDO Face 5 HB LED Block, Left: P/N 91616063

VDO Face 5 HB LED Block, Right: P/N 91616064

#### Ordering Information

##### Panels

VDO Face 5 HB in cardboard box: P/N 90354660

##### Headers

VDO Face Single Header in cardboard box: P/N 91616061

VDO Face Double Header in cardboard box: P/N 91616062

VDO Face Single Curving Header in cardboard box: P/N 91616083

##### Flightcases

Flightcase for 6 x VDO Face Panels: P/N 91515038

Flightcase for 6 x VDO Face Double Headers: P/N 91515040

Flightcase Extender for 6 x VDO Face Double Headers: P/N 91515041

