



VDO Face 5 HC

The VDO Face 5 HC is a high-contrast 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.

Flicker-free video output with very high contrast

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
- 3000 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 color 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 LED blocks 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 HC 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, black reflector

Viewing angle (horizontal x vertical): 160° x 80°

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: 3000 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): 260 W per panel / 924 W per m²

Typical power consumption (with typical video content): 87 W per panel / 309 W per m²

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): 300 BTU/hr. per panel / 1060 BTU/hr. per m²

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 HC LED Block, Left: P/N 91616065
VDO Face 5 HC LED Block, Right: P/N 91616066

Ordering Information

Panels

VDO Face 5 HC in cardboard box: P/N 90354670

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

