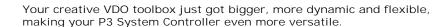
VDO Dotron



VDO Dotron is a compact and powerful outdoor-rated video pixel with many faces that truly sparks creativity for 3D stage setups. A wide variety of lenses and diffusers offers a wealth of different looks - or go with no front for a raw look. Easy video-mapping and creative mix 'n' match with other Martin LED video products via the P3 System Controller. It uses the same integrated power and data cabling as VDO Sceptron and VDO Fatron, making installation a breeze. Be



















The perfect expansion of your creative VDO toolbox for exciting 3D stage setups

Extensive range of field-exchangeable diffusers and lenses for a great variety of

Easy setup, mapping and configuration via P3 System Controller

- Supported by integrated power and data processor (P3 PowerPort 1500 or P3 PowerPort 1000 IP) and a simplified cabling system
- Combined power and data cabling (compatible with other products such as VDO Sceptron and VDO Fatron)
- P3/DMX/RDM controllable (automatic protocol detection)
- Extensive range of built-in pixelated effects
- Intuitive mapping and addressing via P3 System Controller
- Fully color and brightness calibrated for optimal cross-product consistency (colors match with VDO Sceptron and VDO Fatron)
- High-quality 16-bit per color image processing technology
- 100 lumen per dot calibrated
- 4 different diffuser options plus 1 narrow lens array (all fieldexchangeable)
- IP65 rated for outdoor use
- Versatile rigging accessories

Physical

Diameter: 72 mm (2.9 in.)

Height: 34 mm (1.4 in.), without diffuser/lens installed Weight: 0.3 kg (0.7 lbs.), without diffuser/lens installed

Control and Programming Control options: Martin $P3^{TM}$ System Controller via Martin $P3^{TM}$ PowerPort 1500 / Martin $P3^{TM}$ PowerPort 1000 IP and/or DMX

Protocol detection: Automatic Control modes: RGB and basic DMX channels: 3/10

Setting and addressing: Martin P3™ System Controller or RDM-compliant controller

Control resolution: 16-bit (P3) or 8-bit (DMX) control of each color

Calibration: Color and intensity of entire dot

DMX compliance: USITT DMX512-A RDM compliance: ANSI/ESTA E1.20

Firmware update: Via Martin P3™ System Controller



Control/User Interface

Device status: Multi-color visual indication

Device test and reset: Magnetic pushbutton to call up local test patterns and reset

Optics **Options** . Open Front Flat Diffuser Flat Smoked Diffuser

Dome Diffuser (supplied standard with fixture)
Dome Smoked Diffuser

Lens Array Narrow

Minimum LED lifetime: : 50 000 hours (to >70% luminous output)*
*Figure obtained under manufacturer's test conditions

All options can be interchanged at any time

Photometric Data

Color resolution: 16 bits per color (48 bits per pixel)

Luminous intensity, calibrated mode: 40 cd

Total output, calibrated mode: 4 000 nits (fixtures placed in array at 100 mm center-

to-center)

Total output, calibrated mode: 100 lumens

Viewing Angle

Open Front: 103° x 103° (half-peak) Flat Diffuser: TBA

Dome Diffuser: 125° x 125° (half-peak)

Lens Array: TBA

Video Processing Brightness control

Gamma correction and control Color temperature control Color temperature control Calibration processing

Synchronization

Signal Protocol

Martin P3 (via Martin P3™ PowerPort) or DMX/RDM (direct)

Construction

Housing: Cast aluminium Color: Matt black Protection rating: IP65 RoHS compliant

Installation Orientation: Any

Mounting: Optional flange bracket and other accessories

Mounting options: Flat surface at any angle, pedestal or other suitable support

Power and data input: 6-pin custom (BBD) IP66-rated Power and data thru: 6-pin custom (BBD) IP66-rated

Hot plugging compatible

Flectrical

Nominal input voltage: 48 VDC +/- 4% Power supply options: Martin P3™ PowerPort 1500, Martin P3™ PowerPort 1000 IP,

Martin IP66 PSU 240W or generic 48 VDC PSU

Total power consumption (at max. intensity, full white): 5 W

Thermal

Cooling: Convection

Maximum ambient temperature (Ta max.): 55° C Minimum ambient temperature (Ta min.): -20° C Total heat dissipation (calculated, +/- 10%): 20 BTU/hr

Approvals

EU safety: EN 60950-1, EN 60950-22 EU EMC: EN 55024, EN 55032 (Class A), EN 61000-3-2, EN 61000-3-3

US safety: UL 60950-1, UL 60950-22 US EMC: FCC Part 15 Class A

Canadian safety: CSA C22.2 No. 60950-1, No. 60950-22 Canadian EMC: ICES-003 Class A

Australia/N7: RCM

Accessories

Magnetic Test Tool, set of 10: P/N 91610139

Hardware

VDO Dotron™ Flange Bracket: P/N 91611803

VDO Dotron™ Flange Bracket. P/N 91611603
VDO Dotron™ Half Coupler: P/N 91611802
VDO Dotron™ to VDO Sceptron™/Fatron™ Coupler: P/N 91616071
VDO Dotron™ to VDO Sceptron™/Fatron™ Pivot Coupler: P/N 91616072
VDO Dotron MultiRig Bar, 1000 mm: P/N 91616100

Optical

VDO Dotron™ Flat Diffuser: P/N 91611804 VDO Dotron™ Flat Smoked Diffuser: P/N 91611805 VDO Dotron™ Dome Diffuser: P/N 91611806 VDO Dotron™ Dome Smoked Diffuser: P/N 91611807 VDO Dotron™ Lens Array Narrow: P/N 91611808

Combined DC power and data cables

Power + Data Input Cable, 4-pin male XLR (for P3 PowerPort) to female BBD, 0.25 m

(9.8 in.): P/N 91616046



Power + Data Input Cable, 5-pin male XLR (for DMX) + wire tails (for PSU) to female BBD, 0.25 m (9.8 in.): P/N 91616048

Power + Data Input Cable, 5-pin male XLR (for DMX) + 4-pin male XLR (for P3 PowerPort) to female BBD, 0.25 m (9.8 in.): P/N 91616049

Power + Data Input Cable, 5-pin male XLR (for DMX) + male Tripix type (for Martin IP66 PSU 240W) to female BBD, 0.25 m (9.8 in.): P/N 91616050

Power + Data Output Cable, male BBD to 4-pin female XLR, 0.25 m (9.8 in.): P/N

DMX Lead-out Cable, male BBD to 5-pin female XLR, 0.25 m (9.8 in.): P/N 91616051

Power + Data Extension Cable, Rental Type, BBD to BBD, 1 m (3.3 ft.): P/N 91616041 Power + Data Extension Cable, Rental Type, BBD to BBD, 2.5 m (8.2 ft.): P/N 91616024

Power + Data Extension Cable, Rental Type, BBD to BBD, 5 m (16.4 ft.): P/N 91616042

Power + Data Extension Cable, Rental Type, BBD to BBD, 10 m (32.8 ft.): P/N 91616043

Power + Data Extension Cable, Rental Type, BBD to BBD, 25 m (82.1 ft.): P/N 91616044

Power + Data Cable, Rental Type, 100 m (328 ft.) bulk without connectors: P/N 91616045

Power + Data Cable Connector, BBD, Male: P/N 91611750 Power + Data Cable Connector, BBD, Female: P/N 91611751

Blanking Caps for unused female BBD connectors, set of 10: P/N 91616052

Related I tems

Martin P3 PowerPort 1500™: P/N 90721040

Martin P3 PowerPort 1000 IP™ Rental: P/N 90721070

Martin™ IP66 PSU 240 W external power supply unit: P/N 90760330 Martin P3-050™ System Controller: P/N 90721090 Martin P3-100™ System Controller: P/N 90721010 Martin P3-150™ System Controller: P/N 90721015 Martin P3-200™ System Controller: P/N 90721020
Martin P3-300™ System Controller: P/N 90721060
Martin P3-PC™ System Controller: P/N 90721030

Ordering Information

Flightcase for 24 x VDO Dotron™: P/N 91515043

Flightcase Extender for 24 x VDO Dotron™: P/N 91515044

VDO Dotron™, in cardboard box: P/N 90357690



