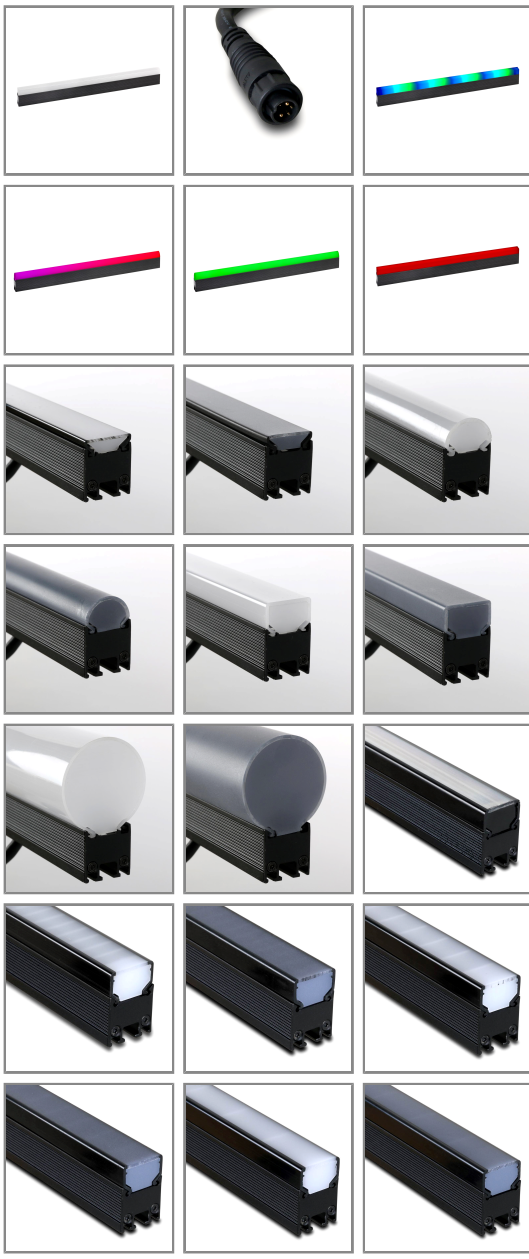




# VDO Sceptron 10

The VDO Sceptron 10 is a linear outdoor-rated LED video fixture for the rental market with 10 mm pixel pitch and an extensive range of optical accessories for a wide variety of looks. The VDO Sceptron 10 is driven by the Martin P3 System Controller family for easy configuration, mapping and setup, and is also backwards compatible with DMX for smaller setups. The integrated power and data cabling allows for long daisy-chains with many fixtures per cable-run, while the power supply can be located backstage (up to 50 m away) for a clean setup avoiding messy cabling and several driver boxes.

## GALLERY



Extensive range of field-exchangeable optical accessories for a wide variety of looks

Easy setup, mapping and configuration

Bright and fully calibrated for optimal consistency

## FEATURES

- 10 mm pixel pitch
- 250 cd per meter calibrated
- 750 lumen per meter calibrated
- High-quality 16-bit per color image processing technology
- Pixel-level brightness and color calibration for optimal image quality
- P3/DMX controllable (automatic protocol detection)
- Intuitive mapping and addressing via P3 System Controller
- Combined power/data input (single cable for power and data input)
- Supported by integrated power and data processor (P3 PowerPort 1500 or P3 PowerPort 1000 IP) and simple cabling system
- Available in lengths of 1000 mm and 320 mm

## TECHNICAL SPECIFICATIONS

### Physical

Length: Available in 320 mm (12.6 in.) and 1000 mm (39.4 in.) versions  
 Width: 27 mm (1.07 in.)  
 Height: 28 mm (1.10 in.)  
 Weight: 1.2 kg / m (0.81 lbs. per foot)

### Control and Programming

Control options: Martin P3™ System Controller via Martin P3™ PowerPort 1500 / Martin P3™ PowerPort 1000 IP, and/or DMX  
 Protocol detection: Automatic  
 Control modes: RGB, basic, segment and pixel-level  
 Setting and addressing: P3 System Controller or RDM-compliant controller  
 Control resolution: 16-bit (P3) or 8-bit (DMX) control of each color  
 Color and intensity calibration: Pixel-level



DMX channels: 3/10/13/22/103/307  
 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 device

#### Optics

##### Options

Open Front  
 Flat Diffuser  
 Flat Smoked Diffuser  
 Round Diffuser  
 Round Smoked Diffuser  
 Square Diffuser  
 Square Smoked Diffuser  
 Tube Diffuser  
 Tube Smoked Diffuser

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)

Viewing angle: 120° x 120°

Pixels per meter: 100

Pitch (pixel center-to-center): 10.00 mm

Luminous intensity, calibrated mode: 250 cd per meter\*

Total output, calibrated mode: 8 333 nits (modules spaced 30 mm center-to-center)\*

Total output, calibrated mode: 750 lumens per meter\*

\*Preliminary data, figures are approximate.

##### Video Processing

Brightness control  
 Gamma correction and control  
 Color temperature control  
 Color space control  
 Calibration processing  
 Synchronization

##### Signal Protocol

Martin P3 (via Martin P3™ PowerPort) or DMX

##### Construction

Base: Extruded aluminum profile

Color: Matt black

Protection rating: IP65

RoHS compliant

##### Installation

Orientation: Any

Mounting: Slot for locking nuts on back of profile (M6) and optional sliding bracket for M12 bolt

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

##### Connections

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

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

Hot plugging compatible

##### Electrical

Nominal input voltage: 48 VDC +/- 4%

Power supply options: Martin P3™ PowerPort 1500, P3™ PowerPort 1000 IP, Tripix™

Power or generic 48 VDC PSU

Total power consumption (at max. intensity, full white): 33 W per meter

##### Thermal

Cooling: Convection

Maximum ambient temperature (Ta max.): 55° C (131° F)

Minimum ambient temperature (Ta min.): -30° C (-22° F)

Total heat dissipation (calculated, +/- 10%): 115 BTU/hr per meter

##### Approvals

EU safety: EN 60950-1, EN 60950-22, EN 62471

EU EMC: EN 55032, EN 55024

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/NZ: RCM

##### Accessories

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

VDO Sceptron™ Diffuser Lens Removal Jaws: P/N 91611836

##### Hardware

VDO Sceptron™ Sliding Brackets, set of 10: P/N 91610123

VDO Sceptron™ Parallel Couplers, 30/40/50 mm, set of 10: P/N 91610125

VDO Sceptron™ Parallel Couplers, 60/70/80 mm, set of 10: P/N 91610138

VDO Sceptron™ Linear (End-to-End) Couplers, set of 10: P/N 91610124

Super Lightweight Half Coupler Rigging Clamp, black: P/N 91602018

Low Profile VDO Sceptron™ Half Coupler: P/N 91611790

VDO Sceptron™ Spigot Adapter, 28 mm: P/N 91611791

VDO Sceptron™ Floorstands, set of two: P/N 91611792  
VDO Sceptron™ Pivot Coupler: P/N 91611793

#### Optical

##### 320 mm modules

VDO Sceptron™ Flat Diffuser, 320 mm: P/N 91610111  
VDO Sceptron™ Flat Smoked Diffuser, 320 mm: P/N 91610113  
VDO Sceptron™ Round Diffuser, 320 mm: P/N 91610115  
VDO Sceptron™ Round Smoked Diffuser, 320 mm: P/N 91610117  
VDO Sceptron™ Square Diffuser, 320 mm: P/N 91610119  
VDO Sceptron™ Square Smoked Diffuser, 320 mm: P/N 91610121  
VDO Sceptron™ Tube Diffuser, 320 mm: P/N 91611630  
VDO Sceptron™ Tube Smoked Diffuser, 320 mm: P/N 91611650  
VDO Sceptron 10™ NoBlend Diffuser, 320 mm: P/N 91610126  
VDO Sceptron 10™ NoBlend Smoked Diffuser, 320 mm: P/N 91610128  
VDO Sceptron 20™ NoBlend Diffuser, 320 mm: P/N 91610130  
VDO Sceptron 20™ NoBlend Smoked Diffuser, 320 mm: P/N 91610132  
VDO Sceptron 40™ NoBlend Diffuser, 320 mm: P/N 91610134  
VDO Sceptron 40™ NoBlend Smoked Diffuser, 320 mm: P/N 91610136  
VDO Sceptron™ Asymmetric Lens, 320 mm: P/N 91611670

##### 1000 mm modules

VDO Sceptron™ Flat Diffuser, 1000 mm: P/N 91610112  
VDO Sceptron™ Flat Smoked Diffuser, 1000 mm: P/N 91610114  
VDO Sceptron™ Round Diffuser, 1000 mm: P/N 91610116  
VDO Sceptron™ Round Smoked Diffuser, 1000 mm: P/N 91610118  
VDO Sceptron™ Square Diffuser, 1000 mm: P/N 91610120  
VDO Sceptron™ Square Smoked Diffuser, 1000 mm: P/N 91610122  
VDO Sceptron™ Tube Diffuser, 1000 mm: P/N 91611640  
VDO Sceptron™ Tube Smoked Diffuser, 1000 mm: P/N 91611660  
VDO Sceptron 10™ NoBlend Diffuser, 1000 mm: P/N 91610127  
VDO Sceptron 10™ NoBlend Smoked Diffuser, 1000 mm: P/N 91610129  
VDO Sceptron 20™ NoBlend Diffuser, 1000 mm: P/N 91610131  
VDO Sceptron 20™ NoBlend Smoked Diffuser, 1000 mm: P/N 91610133  
VDO Sceptron 40™ NoBlend Diffuser, 1000 mm: P/N 91610135  
VDO Sceptron 40™ NoBlend Smoked Diffuser, 1000 mm: P/N 91610137  
VDO Sceptron™ Asymmetric Lens, 1000 mm: P/N 91611680

##### 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, 0.25m (9.8 in.): P/N 91616049  
Power + Data Input Cable, 5-pin male XLR (for DMX) + male Triplex type (for Martin IP66 PSU 240W) to female BBD, 0.25m (9.8 in.): P/N 91616050  
Power + Data Output Cable, male BBD to 4-pin female XLR, 0.25m (9.8 in.): P/N 91616047  
DMX Lead-out Cable, male BBD to 5-pin female XLR, 0.25 m (9.8 in.): P/N 91616051

##### BBD extension cables

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

##### Connectors

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 Items

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 10 x VDO Sceptron™ 1000mm / 30 x VDO Sceptron™ 320 mm: P/N 91515030  
Flightcase Extender for 10 x VDO Sceptron™ 1000 mm / 30 x VDO Sceptron™ 320 mm: P/N 91515031  
VDO Sceptron 10™, 320 mm, in cardboard box: P/N 90357650  
VDO Sceptron 10™, 1000 mm, in cardboard box: P/N 90357655

