



# 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.): -20° C (-4° 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: C-Tick N4241

##### Accessories

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

##### 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

##### 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

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

Cables

Power + Data Input Cable, 4-pin male XLR to female BBD, 0.25 m: P/N 11840257  
 Power + Data Input Cable, 5-pin male XLR + male Triplex to female BBD, 0.25 m: P/N 11840275  
 Power + Data Input Cable, 5-pin male XLR + power to female BBD, 0.25 m: P/N 11840276  
 DMX Lead-out Cable, male BBD to 5-pin female XLR, 0.25 m: P/N 11840258  
 Power + Data Extension Cable, Rental, BBD-BBD 1 m: P/N 11840250  
 Power + Data Extension Cable, Rental, BBD-BBD, 2.5 m: P/N 11840251  
 Power + Data Extension Cable, Rental, BBD-BBD, 5 m: P/N 11840252  
 Power + Data Extension Cable, Rental, BBD-BBD, 10 m: P/N 11840253  
 Power + Data Extension Cable, Rental, BBD-BBD, 25 m: P/N 11840254  
 Blanking caps for unused female BBD connectors, set of 10: P/N 62409876

Connectors

Power + Data Connector, BBD, male: P/N 91611750  
 Power + Data Connector, BBD, female: P/N 91611751

Related Items

Martin P3™ PowerPort 1500: P/N 90721040  
 Martin P3™ PowerPort 1000 IP Rental: P/N 90721070  
 Martin™ IP66 PSU, 48 VDC, 240 W, 100-240 VAC: P/N 90760330  
 Martin P3-100™ System Controller: P/N 90721010  
 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



A C C E S S O R I E S



Cable reel 100m,  
Power+Data Cable,  
tinne  
P/N: 11840277



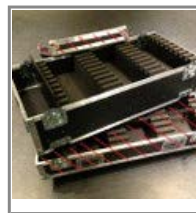
CON,  
ACCESSORIES,  
DUST CAP FOR  
FEMALE BB  
P/N: M62409876



FIELD INSTALL  
CON KIT, FEMALE  
BBD 6P  
P/N: 91611751



FIELD INSTALL  
CON KIT, MALE  
BBD 6P  
P/N: 91611750



Flightcase Ext. for  
10 x VDO Sce.  
1000mm  
P/N: 91515031



Flightcase for 10 x  
VDO Sceptron  
1000mm  
P/N: 91515030



Power+Data  
Adapter XLR4-BBD  
0,25m  
P/N: 11840257



Power+Data  
Adaptor BBD-XLR5  
0,25m  
P/N: M11840258



Power+Data  
Adaptor XLR5-  
PWR-BBD 0,25m  
P/N: M11840276

Power+Data  
Adaptor XLR5-  
Tripix-BBD 0,25m  
P/N: M11840275

Power+Data Cable  
Rental BBD-BBD  
10m  
P/N: 11840253

Power+Data Cable  
Rental BBD-BBD  
1m  
P/N: 11840250

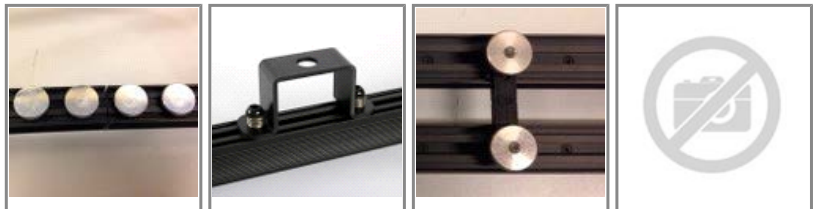


Power+Data Cable  
Rental BBD-BBD  
2,5m  
P/N: 11840251

Power+Data Cable  
Rental BBD-BBD  
25m  
P/N: 11840254

Power+Data Cable  
Rental BBD-BBD  
5m  
P/N: 11840252

Set of 10  
Magnetic Test  
Tools  
P/N: 91610139

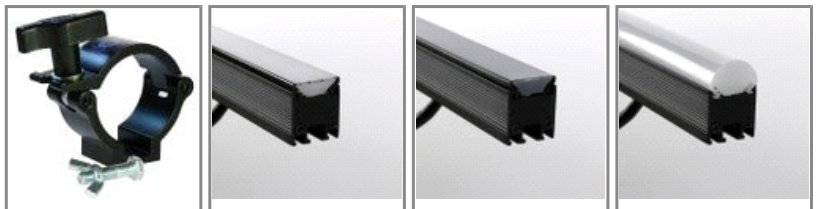


Set of 10 VDO  
Sceptron Linear  
Couplers  
P/N: 91610124

Set of 10 VDO  
Sceptron Sliding  
Brackets  
P/N: 91610123

Set of 10 VDO  
Sceptron  
Spacers30/40/50mm  
P/N: 91610125

Set of 10 VDO  
Sceptron  
Spacers60/70/80mm  
P/N: 91610138

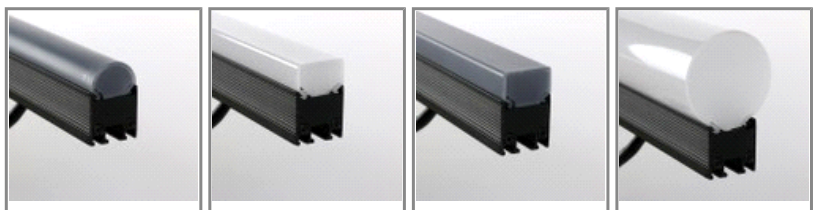


Super Lightweight  
Half Coupler Black,  
P/N: 91602018

VDO Sceptron Flat  
Diffuser 320mm  
P/N: 91610111

VDO Sceptron Flat  
Smoked Diffuser  
320mm  
P/N: 91610113

VDO Sceptron Rnd  
Diffuser 320mm  
P/N: 91610115

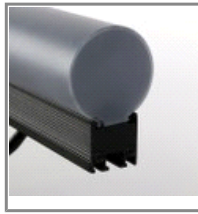


VDO Sceptron Rnd  
Smoked Diffuser  
320mm  
P/N: 91610117

VDO Sceptron  
Squa Diffuser  
320mm  
P/N: 91610119

VDO Sceptron  
Squa Smoked  
Diffuser 320mm  
P/N: 91610121

VDO Sceptron  
Tube Diffuser  
320mm  
P/N: 91611630



VDO Sceptron  
Tube Smoked  
Diffuser 320mm  
P/N: 91611650