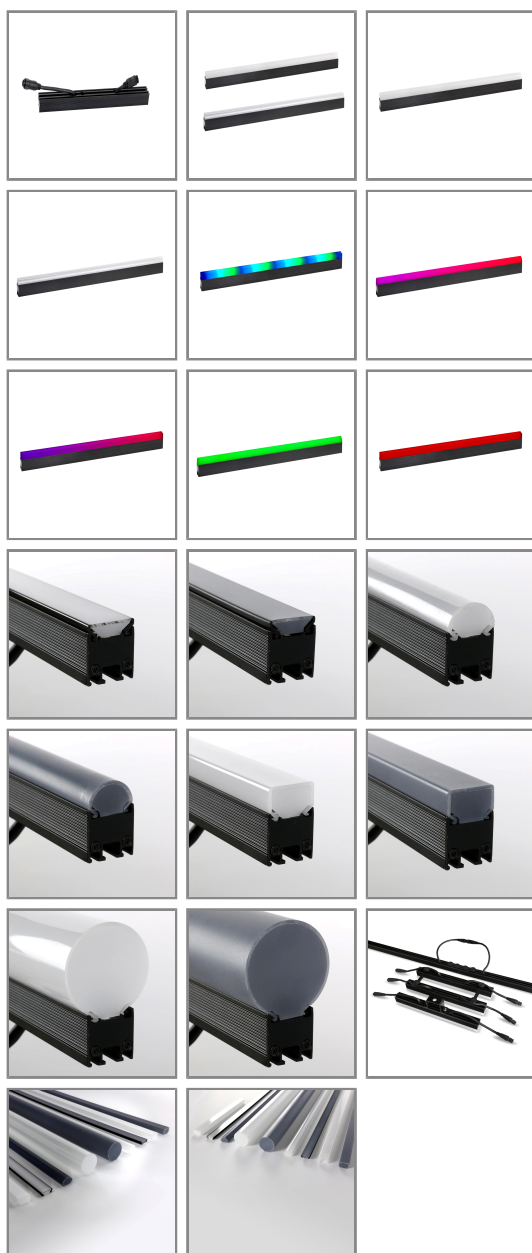


VDO Sceptron 20

The VDO Sceptron 20 is a linear outdoor-rated LED video fixture for the rental market with 20 mm pixel pitch and an extensive range of optical accessories for a wide variety of looks. The VDO Sceptron 20 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

- 20 mm pixel pitch
- 125 cd per meter calibrated
- 375 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: Martin 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 compliance: USITT DMX512-A

RDM compliance: ANSI/ESTA E1.20

Firmware update: Via Martin P3™ System Controller

DMX channels: 3/10/13/22/55/157

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: 50

Pitch (pixel center-to-center): 20.0 mm

Luminous intensity, calibrated mode: 125 cd per meter*

Total output, calibrated mode: 4 166 nits (modules spaced 30 mm center-to-center)*

Total output, calibrated mode: 375 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

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): 17 W per meter

Thermal

Cooling: Convection

Maximum ambient temperature (Ta max.): 55° C (113° F)

Minimum ambient temperature (Ta min.): -20° C (-4° F)

Total heat dissipation (calculated, +/- 10%): 60 BTU/hr per meter

Approvals

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

EU EMC: EN 55032, EN 55024

US safety (pending): UL 60950-1, UL 60950-22

US EMC: FCC Part 15 Class A

Canadian safety (pending): CSA C22.2 No. 60950-1, No. 60950-22

Canadian EMC: ICES-003 Class A

Australia/NZ: C-Tick N4241

Accessories

VDO Sceptron/Pixline Acc. and Test Tools, 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 Tripix 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 05050938
 Power + Data Connector, BBD, female: P/N 05050939

Related Items

Martin P3 PowerPort 1500™: P/N 90721040
 Martin P3 PowerPort 1000 IP™ Rental: P/N 90721070
 Martin Tripix Power IP66™ Power Supply Unit: 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

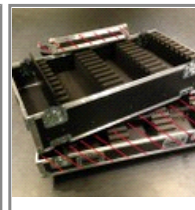
Flightcase for 10 x VDO Sceptron™ 1000 mm / 30 x VDO Sceptron™ 320 mm: P/N 91515030
 Flightcase Extender for 10 x VDO Sceptron™ 1000 mm / 30 x VDO Sceptron™ 320 mm: P/N 91515031
 VDO Sceptron™ 20, 320 mm, in cardboard box: P/N 90357660
 VDO Sceptron™ 20, 1000 mm, in cardboard box: P/N 90357665



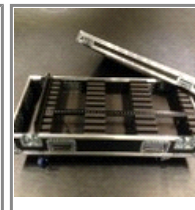
A C C E S S O R I E S



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



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 Cable
Rental BBD-BBD
10m
P/N: 11840253



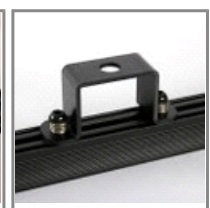
Power+Data Cable
Rental BBD-BBD
1m
P/N: 11840250



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



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

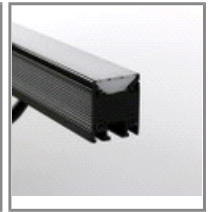
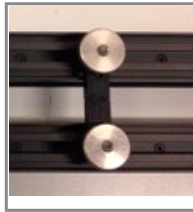


Power+Data Cable
Rental BBD-BBD
5m
P/N: 11840252

Set of 10 VDO
Sceptron Acc. &
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

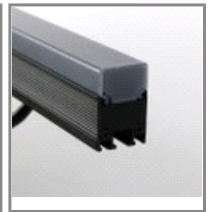
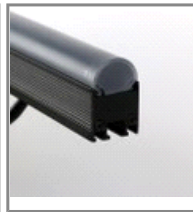
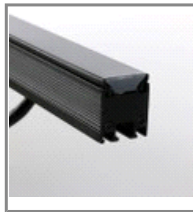


Set of 10 VDO
Sceptron
Spacers30/40/50mm
P/N: 91610125

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

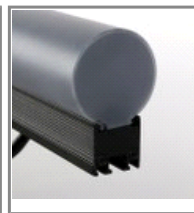
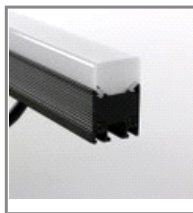


VDO Sceptron Flat
Smoked Diffuser
320mm
P/N: 91610113

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

VDO Sceptron
Round Diffuser
320mm
P/N: 91610115

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



VDO Sceptron
Square Diffuser
320mm
P/N: 91610119

VDO Sceptron
Tube Diffuser
320mm
P/N: 91611630

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