



P3-200 System Controller

The P3-200 System Controller enables DVI and SDI signals to be mapped onto the entire range of Martin LED Video products, driving up to 500.000 pixels. Featuring the integration with lighting and automation that makes the P3 System Controller family open so much new creative potential.

Most user-friendly LED Video Controller on the market

Compatible with all Martin LED video products (panels and creative products)

Integration with lighting controls (DMX, Art-NET) and automation systems

FEATURES

- Drives up to 500.000 pixels
- Built-in scaler and mapper
- DVI-D input up to 1920x1080
- HD-SDI input up to 1920x1080
- Built-in GUI (Graphical User Interface) including easy setup wizards
- Real time visualization of the video mapping within the GUI (Graphical User interface)
- Most user-friendly LED Video processor on the market
- Compatible with all Martin LED Video products (panels and creative products)
- Integration with lighting controls (DMX & Art-NET) and automation systems
- All connected products report status and problems back to the controller for easy monitoring and maintenance
- Showfiles compatible with all products within the P3 System Controller family (including the P3-PC offline editor)

TECHNICAL SPECIFICATIONS

Physical

Depth: 380 mm (15.0 in.)
Width: 482 mm (19.0 in.)
Height (rackmount 2U): 90 mm (3.5 in.)
Weight: 7.7 kg (17.0 lbs.)

Control/User Interface

User interface: SXGA (1280 x 1024) or better monitor (VGA), USB keyboard, USB mouse

Device status: Status indicator LEDs

DVI Video Input

Supports all resolutions up to 1920x1080
Supports RGB and progressive scan only

SDI Video Input

1 x SD-SDI 525/60 (NTSC) or 625/50 (PAL) per SMPTE 259M
1 x HD-SDI 720p per SMPTE 296M or 1080i per SMPTE 292M
1 x 3G-SDI per SMPTE 424M (compatible with level A sync only)

Video Processing

Controller pixel processing capacity: 520 000 pixels (expandable by adding P3-200s)*
Controller fixture capacity: 1000 fixtures (expandable by adding P3-200s)

Maximum workspace area: 1 310 720 pixels
Maximum active capture area: 1 048 576 pixels
System processing depth: 16 bits per color (48 bits per pixel)
System latency, DVI: 2 frames
System latency, SDI progressive: 2 frames
System latency, SDI interlaced: 3 frames
Latency between first and last panel: None
Image rotation
Scaling (global and mixed pixel pitch)
De-interlacing
Gamma curve selection and adjustment
Real-time panel content remapping
Real-time color temperature and color space control
Real-time preview of video input and mapped canvas

DMX 512 / Art-Net real-time controllable parameters

Up to 4 universes of Art-Net input*

Global intensity

RGB intensity

Color temperature

X-Y video image position

Video image rotation

Freeze

Blackout

Test pattern selection

Preset recall (incl. video input selection and scaling)

Kinesys K2 / Tait Navigator real-time controllable parameters

X-Y video image position

Video image rotation

*See also P3 System Controller Capacity Info Note on Support & Downloads page

P3 Signal Protocol

Signal type: Gigabit Ethernet

Protocol: Proprietary Martin P3

Hot pluggable: Yes, electrically isolated at all connections

Cable type: Ethernet, shielded, CAT 5e or better

Cable length: Up to 100 m (328 ft.) between any 2 devices, extendable with Ethernet switch

Max. number of panels per line: 50, extendable with Ethernet switch

Construction

Housing: Steel and aluminum

Color: Matt black

Protection rating: IP20

Installation

Mounting: 19-inch rackmount (2U) or free-standing

Connections

Power input: IEC socket

P3 data in/out: etherCON socket

DVI video in: DVI-D (via DVI-I connector)

SDI video in: 1 x BNC

SDI video thru: 1 x BNC

Network (remote management, Art-Net and Kinesys K2/Vector): etherCON socket

DMX in: 5-pin locking XLR

Peripherals and USB memory devices: 4 x USB 2.0 ports

User interface monitor: VGA

Serial data (not used): RS-232 via DB9 connector

Electrical

AC power: 115-250 V, 47-63 Hz

Power supply unit: Integrated, universal multi-voltage

Main fuse: 2A, T (slow blow)

Thermal

Cooling: Forced air

Maximum ambient temperature (Ta max.): 50° C (122° F)

Minimum ambient temperature (Ta min.): 0° C (32° F)

Total heat dissipation (calculated, +/- 10%): 685 BTU/hr.

Approvals

EU safety: EN 60950-1

EU EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3, EN 6100-4-2, EN 6100-4-

3, EN 6100-4-4, EN 6100-4-5, EN 6100-4-6, EN 6100-4-11

US safety: ANSI/UL 60950-1

Canadian safety: CAN/CSA C22.2 No. 60950-1

Included Items

EU-type power cable with Schuko connector

US-type power cable

UK-type power cable

Related Items

Martin P3-100™ System Controller: P/N 90721010

Martin P3-300™ System Controller: P/N 90721060

Martin P3-PC™ License on One-Key™ USB stick: P/N 90721030

Martin P3-PC™ License only: P/N 39808028

Ordering Information

Martin P3-200™ System Controller: P/N 90721020

