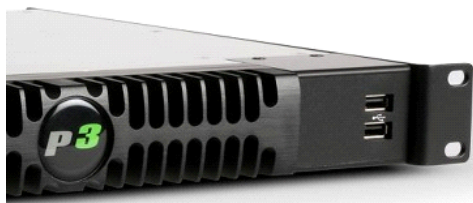


P3-050 System Controller



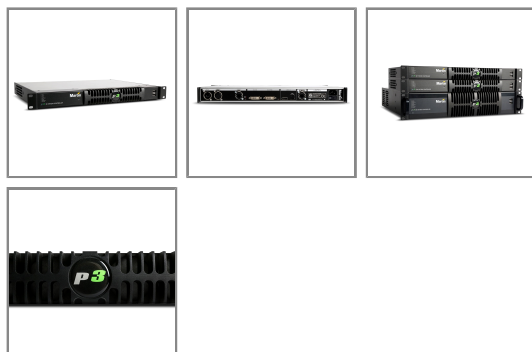
The P3-050 System Controller is a compact and affordable video processor for the entire range of Martin LED Video products, driving up to 100.000 pixels. Integration with lighting and automation controls is facilitated via the integrated DMX, Art-Net and Kinesys interfaces.

Compact and affordable LED Video Controller

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

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

GALLERY



FEATURES

- Drives up to 100.000 pixels
- Built-in scaler and mapper
- DVI-D 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: 360 mm (14.2 in.)

Width: 482 mm (19.0 in.)

Height (rackmount 1U): 45 mm (1.8 in.)

Weight: 3.0 kg (6.7 lbs.)

Control/User Interface

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

Device status: Status indicator LEDs

DVI Video Input

Supports all resolutions up to 1920x1080

Supports both RGB and YCbCr, progressive scan only

Video Processing

Controller pixel processing capacity: 100 000 pixels (expandable by adding P3-050s)*

Controller fixture capacity: 2000 fixtures (expandable by adding P3-050s)*

Maximum workspace area: 2 073 600 pixels

Maximum active capture area: 2 073 600 pixels

System processing depth: 16 bits per color (48 bits per pixel)

System latency, DVI: 2 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 32 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 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 (1U) or free-standing

Connections

Power input: IEC socket with integrated power switch

P3 data in/out: etherCON socket

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

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

DMX in: 5-pin locking XLR

DMX thru: 5-pin locking XLR

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

Peripherals and USB memory devices: 4 x USB 2.0 ports

User interface monitor: DisplayPort++ (compatible with adapters to DVI, HDMI and VGA, not supplied)

Electrical

AC power: 100-240 V, 47-63 Hz

Power supply unit: Integrated, universal multi-voltage

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 P3-150™ System Controller: P/N 90721015

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

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

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

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

Ordering Information

Martin P3-050™ System Controller: P/N 90721090

