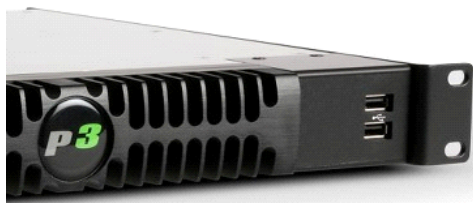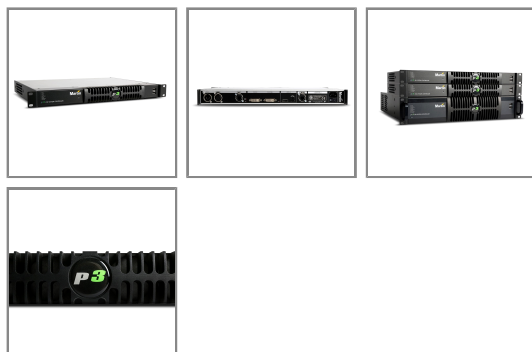# P3-150 System Controller

The P3-150 System Controller is a user-friendly and reliable video processor for the entire range of Martin LED Video products, driving up to 500.000 pixels. Both traditional video panels and more creative elements such as strips and dots can be controlled just as easy. Integration with lighting and automation controls is facilitated via the integrated DMX, Art-Net and Kinesys interfaces.

Compact and ergonomic LED Video Controller

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

- 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: 520 000 pixels (expandable by adding P3-150s)*
Controller fixture capacity: 2000 fixtures (expandable by adding P3-150s)*
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 P3-050™ System Controller: P/N 90721090
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™ License on One-Key™ USB stick: P/N 90721030
Martin P3-PC™ License only: P/N 39808028

Ordering Information
Martin P3-150™ System Controller: P/N 90721015