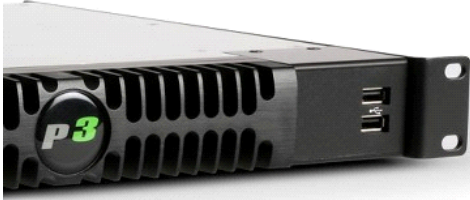


# P3-050 System Controller



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

