

# P3-150 System Controller

MID RANGE P3 LED VIDEO CONTROLLER

SPEC SHEET

## HIGHLIGHTS

- Compact and ergonomic LED Video Controller
- Compatible with all Martin Creative LED products and P3-enabled MAC moving heads
- Integration with lighting controls (DMX, Art-Net) and automation systems



## OVERVIEW

The P3-150 System Controller is a user-friendly and reliable video processor for the entire range of Martin LED Video products and P3 enabled MAC moving heads, driving up to 500.000 pixels. No matter how you mix Creative LED fixtures, LED Video panels and P3-enabled MAC moving heads, the workflow remains simple and integrated. Integration with lighting and automation controls is facilitated via the integrated DMX, Art-Net and Kinesys interfaces.

## KEY MESSAGES

### ONE VISUAL CANVAS

P3 brings Martin creative LED Video products and P3 enabled MAC moving heads together into one visual canvas; allowing all to be treated as one and to prevent the need for dedicated control solutions for each of the different products.

### SIMPLICITY TO ENABLE CREATIVITY

The P3 ecosystem removes the need for manual addressing and external computers for setup, while featuring an ergonomic user interface. Mapping and scaling is automated to give you more time to be creative.

### CREATE LOOKS THE WAY YOU WANT

P3 offers the freedom to use the most suited tool for each vision. Whether using video content, traditional DMX controls, or a mix of control methods, you can achieve uniquely creative looks for each application.

### OPTIMAL PERFORMANCE

All P3-enabled products feature advanced color & brightness calibration & color-matching between fixture types. The entire system is fully synchronized, ensuring all elements work cohesively without visible latency.

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## 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 Creative LED products and P3-enabled MAC moving heads
- 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)

## ORDERING INFORMATION

- Martin P3-150 System Controller ..... P/N 90721015

### 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 P3-300™ System Controller..... P/N 90721060
- Martin P3-PC™ System Controller.... Free download to martin.com

## P3 SYSTEM CONTROLLER COMPARISON

	P3-050 System Controller	P3-150 System Controller	P3-300 System Controller	P3-PC System Controller
Video Input	1x DVI-D up to 1920x1080	1x DVI-D up to 1920x1080	1x DVI-D up to 1920x1080 2x SDI up to 3G-SDI 1x Genlock	Screen-capture or Media Server Integration
DMX Input	1 universe DMX 32 universes Art-Net	1 universe DMX 32 universes Art-Net	1 universe DMX 32 universes Art-Net	4 universes Art-Net
P3 Output	1 network with up to 100.000 pixels worth of fixtures	1 network with up to 500.000 pixels worth of fixtures	4 networks with up to 2.000.000 pixels worth of fixtures	1 network with up to 20.736 pixels worth of fixtures
Form-Factor	1U 19" rackmount	1U 19" rackmount	2U 19" rackmount	Software installed on customer-supplied Windows computer
Remote Management	Yes, internal webpages and syslog	Yes, internal webpages and syslog	Yes, internal webpages and syslog	No

Please consult P3 System Controller Capacity Info Note for more details

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## TECHNICAL SPECIFICATIONS

### 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

Maximum number of fixtures per line.. 50, extendable with Ethernet switch

### CONSTRUCTION

Housing ..... Steel and aluminum

Color..... Matte 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

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

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

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

DMX in ..... 5-pin locking XLR

DMX thru..... 5-pin locking XLR

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 61000-4-2, EN 61000-4-3,  
EN 61000-4-4, EN 61000-4-5, EN 61000-4-6,  
EN 61000-4-11

US safety..... ANSI/UL 60950-1

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



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## DIMENSIONS

### PHYSICAL

Width ..... 482 mm (19.0 in.)  
Height ..... 45 mm (1.8 in.) rackmount 1U  
Depth ..... 360 mm (14.2 in.)  
Weight ..... 3.0 kg (6.7 lbs.)

