ENTRY LEVEL P3 LED VIDEO CONTROLLER

SPEC SHEET

HIGHLIGHTS

- Compact and affordable 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 P3-050 System Controller is a compact and affordable unit driving video and DMX controls into the entire Martin range of Creative LED products and P3-enabled MAC moving heads. It controls systems of up to 100.000 pixels, takes DVI video input, DMX input and Art-Net input.

KEY MESSAGES

ONE VISUAL CANVAS

P3 brings creative LED and lighting fixtures together onto 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, even beyond the limitations of full HD.

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, Art-Net PixelMapping (up to 128 universes), or a mix of control methods, you can achieve uniquely creative looks for each application.

OPTIMAL PERFORMANCE

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

FULL CONTROL AND PREVIEW

P3 System Controllers give you full control over your system from one central location, eliminating the need to address fixtures locally. And, real-time preview shows you how DMX controls and video will be rendered on the fixtures.

FREE PC-BASED SOLUTION

The free P3-PC System Controller solution allows you to get started easily. It can be used as a basic mapping tool; addressing tool; Art-Net to P3 bridge; or as a full P3 control solution - mixing lighting controls and video content into fixtures.



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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 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)
- Connected fixtures can cross-fade or toggle in real-time between video-mapping and DMX (pixel-mapping) control

ORDERING INFORMATION

INCLUDED ITEMS

- EU-type power cable with Schuko connector
- · US-type power cable
- UK-type power cable

RELATED ITEMS

- Martin P3-150™ System Controller P/N 90721015
- Martin P3-300™ System Controller...... P/N 90721060
- Martin P3-PC™ System Controller...Free download from 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 128 universes Art-Net	1 universe DMX 128 universes Art-Net	1 universe DMX 64 universes Art-Net	128 universes Art-Net
P3 Output	1 network with up to 100.000 pixels worth of fixtures	1 network with up to 520.000 pixels worth of fixtures	4 networks with up to 2.080.000 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

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CONTROL	/IICED	INTEDEACE
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itor (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 colour

(48 bits per pixel)

System latency, DVI: 2 frames

Latency between first and last fixture: None

Scaling (global and mixed pixel pitch) Gamma curve selection and adjustment Control of brightness, contrast and low light

Real-time content remapping

Real-time colour temperature and colour space control

Real-time preview of video input and mapping canvas

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

DMX CONTROLS

One line of DMX input*

Up to 128 universes of Art-Net input*

Control of intensity and colours

Control of colour temperature

Merge video input with DMX controls towards fixtures

Cross-fade or toggle between video and DMX controls

Freeze, blackout or activate testpatterns on video engine

Recall video presets (video settings, fixture positions and more)

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

MOTION CONTROLS

One universe or DMX, Art-Net or Kinesys K2*

Compatible with Kinesys K2, Tait Navigator and others

Control fixture or group position on video canvas

Control fixture or group rotation on video canvas

*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 Colour...... Matte black Protection rating...... IP20

INSTALLATION

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

THERMAL

Cooling.....Forced air Maximum ambient temperature...... 50° C (122° F) (Ta max.) Minimum ambient temperature......0° C (32° F) (Ta min.) (calculated, +/- 10%)

APPROVALS

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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









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DIMENSIONS

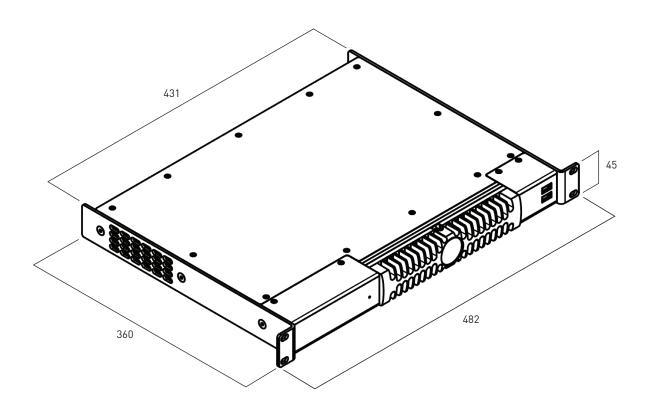
PHYSICAL

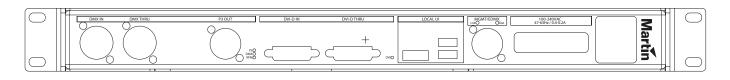
 Width
 482 mm [19.0 in.]

 Height
 45 mm [1.8 in.] rackmount 1U

 Depth
 360 mm [14.2 in.]

Weight...... 3.0 kg (6.7 lbs.)





All dimensions are in mm

