



P3-PC System Controller

FREE PC-BASED P3 SYSTEM CONTROLLER

SPEC SHEET



OVERVIEW

The P3-PC System Controller is a PC-based solution 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 20,736 pixels, takes screen-capture input, NDI video input, video input from a Green Hippo media server (when installed on the same machine), Art-Net input and sACN input. P3-PC can also be used as an off-line editor for the entire range of P3 System Controllers to preprogram shows anywhere on a PC, and as a tool for firmware uploads and addressing/testing of Martin P3-enabled fixtures.

KEY MESSAGES

MIX DMX AND VIDEO CONTROL

Gives the lighting designer the freedom to create unique looks by entering parameters or by sending content to fixtures to ultimately create the ideal look that the designer envisions.

TIME-SAVING MVR INTEGRATION

Mapping and patches can be exported to third-party lighting consoles, visualizers and CAD programs. There is no need to re-create a system repeatedly using different software packages.

REMOTE ADDRESSING AND SETTING

Eliminates the need to physically access fixtures to address and configure each one locally via the display.

REAL-TIME MONITORING

Offers a complete view of your entire system to diagnose any issues.

SYSTEM-WIDE SYNCHRONIZATION

Deliver perfect performance across the entire system, without visible lag and latency issues.

LIVE PREVIEW

Visualize results during pre-programming without connecting actual fixtures.



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FEATURES

- Off-Line Editor for all P3 System Controllers
- Stand-Alone P3 System Controller software for smaller setups
- Full HD video input compatible (NDI, Hippo Integration & Screen Capture)
- 256 universes of Art-Net / sACN input
- Outputs up to 20,736 pixels on 2,000 fixtures
- Installs on any Windows computer
- Map a mix of Martin fixtures onto one visual canvas
- Patch, address and configure Martin fixtures, without having to directly address and configure each fixture
- Export mapping and patch to third-party lighting controllers, CAD programs and visualizers via MVR
- Import mapping and patch from third-party lighting controllers, CAD programs and visualizers via MVR
- Export mapping mask to third-party media servers
- Provides real-time feedback and monitoring of Martin fixtures

ORDERING INFORMATION

- Martin P3-PC™ System Controller....Free download from martin.com

RELATED ITEMS

- Martin P3-175 System Controller.....P/N MAR-90721100
- Martin P3-275 System Controller..... P/N MAR-90721101

P3 SYSTEM CONTROLLER COMPARISON

	P3-175 System Controller	P3-275 System Controller	P3-PC System Controller
Video Input	1x HDMI up to 1920x1080 1x NDI up to 1920x1080	1x HDMI up to 4096x2160 1x NDI up to 4096x2160	NDI, Screen-capture or Media Server Integration
DMX Input	256 universes Art-Net / sACN	1024 universes Art-Net / sACN	256 universes Art-Net / sACN
P3 Output	1 network with up to 520,000 pixels worth of fixtures Maximum 2,000 fixtures	2 networks with up to 1,040,000 pixels worth of fixtures Maximum 6,000 fixtures	1 network with up to 20,736 pixels worth of fixtures Maximum 2,000 fixtures
Form-Factor	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	No

Please consult P3 System Controller Capacity Info Note for more details





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TECHNICAL SPECIFICATIONS

CONTROL/USER INTERFACE

Determined by machine onto which the P3-PC System Controller software is installed.

MINIMUM SYSTEM REQUIREMENTS

- Computer running Windows 10 or 11 (64 bit only)
- Intel Core i3 or better processor
- 4 GB RAM
- 250 MB available hard disk space
- Display with Full HD or better resolution
- Full administrator rights on PC
- Gigabit Ethernet port for P3 output
- Separate Ethernet port for Art-Net / sACN input (if used)
- Separate Ethernet port NDI input (if used)

SCREEN CAPTURE VIDEO INPUT

- Real-time capture of any section (up to 1920x1080) of screen on machine on which P3-PC is installed
- Capturing frame rate configurable up to 50 Hz
- No direct support for third-party capture cards

NDI VIDEO INPUT

- Standard: NDI & NDI HX
- Resolution: Supporting all standard resolutions up to 1920x1080 (Full HD)
- Framerate: Supporting frame rates up to 75fps

HIPPO SHARE VIDEO INPUT

- Direct capture of any Hippotizer viewport when P3-PC is installed on a Hippo V4 (or newer) media server
- Support for flipping image upside down

VIDEO PROCESSING

- Controller pixel processing capacity: 20,736 pixels*
- Controller fixture capacity: 2,000 fixtures*
- Maximum workspace area: 8,847,360 pixels
- Maximum active capture area: 2,073,600 pixels
- System processing depth: 16 bits per colour (48 bits per pixel)
- System latency: 3 frames
- Latency between first and last fixture: None
- Scaling: Yes, global and mixed pixel pitch
- Gamma Curve Control: Yes, adjustable
- Image Control Parameters: Hue, Saturation, Brightness, Contrast & Lowlight
- Mapping: Real-time
- Colour Temperature Control: Real-time
- Colour Space Control: Real-time
- Preview: Real-time (incoming video & mapping onto fixtures)

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

DMX CONTROLS

- Up to 256 universes of Art-Net or sACN 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 Downloads page

MOTION CONTROLS

- One universe of Art-Net, sACN or Kinesys K2 input*
- Compatible with Kinesys K2/Vector, 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 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 daisy-chain 50, extendable with Ethernet switch

INSTALLATION

Any standard PC running Windows 10 or 11 (64 bit only)

CONNECTIONS

- P3 data in/out Gigabit Ethernet network port
- EtherDMX Network (Art-Net, sACN & Kinesys K2/Vector) 100/1000Mbit Ethernet network port
- NDI Video in 100/1000Mbit Ethernet network port

