

PA653U

NEC Professional Installation Projector

Datasheet



The NEC PA653U – the “multi-tool” installation projector

If extraordinary visualisation, brilliant colours and superb dynamic contrast is key for your business, then the NEC PA653U should be your first choice.

The compact 6,500 ANSI lumen LCD projector with WUXGA resolution not only trumps the competition with its unique colour processing technology, but also in its outstanding installation capabilities where motorized lens shift, focus and zoom makes setup effortless. The unique HDBaseT-out interface enables multiple projector daisy chaining via cost efficient network cables to a single source helping to reduce installation costs. Like a multi-tool, the essential features continue with management of the latest copyright protocol to play 4k and Ultra HD Blue-ray content whilst the long lamp life and even longer filter life earn a most attractive Total Cost of Ownership.

All in all the NEC PA653U projector is perfectly suited for meeting-, lecture- and seminar-rooms in corporate and higher education installations.

Benefits

Cinema Quality Visualisation – enjoy excellent picture quality even in bright ambient light conditions with unique picture & colour processing technology (up to up to 4K/60Hz) based on the latest NEC scaler chip.

Hassle-free remote adjustment – motorized lens shift, focus and zoom allows easy and flexible setup without the need for cumbersome physical access to the projector.

Incredible visualisation capabilities – impressive free tilt and portrait installation capability, unique geometric adjustment, picture in picture, tiling, 3D support and camera based blending/stacking up to 4K.

Cost conscious & powerful cabling – with just CAT6 network cabling, transfer content over up to 100m using HDBaseT connectivity standard. Supply multiple projectors with one source and benefit from the unique HDBaseT-out daisy-chain interface.

Impress with brilliant colours & contrast – astound your audience as the projector processes a wider colour space with Rec2020 to Rec709 colour conversion and higher dynamic contrast supporting HDR10 standard via HDMI interface.

Peace of mind copyright protected content – let the projector manage copyright protection and present 4k and Ultra HD Blue-ray content via the HDMI interface.

Product Information

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|---------------|---|
| Product Name | PA653U |
| Product Group | NEC Professional Installation Projector |
| Order Code | 60004120 |

Image

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|--------------------------------------|---|
| Projection Technology | 3LCD Technology |
| Native Resolution | 1920 x 1200 (WUXGA) |
| Aspect Ratio | 16:10 |
| Contrast Ratio ¹ | 8000:1 |
| Brightness ¹ | 6500 ANSI Lumen (approx. 80% in Eco Mode), with std. optional lense |
| Lamp | 370 W UHP AC (280 W UHP AC Eco Mode) |
| Lamp Life [hrs] | 4000 (5000 Eco Mode) |
| Lens | 3 motorized lens options; 5 manual lens options |
| Lense Adjustment | Motorized and manual (depending on lens) |
| Keystone correction | +/- 40° manual horizontal / +/- 40° manual vertical |
| Projection Factor | depending on lens selection (std. option NP41ZL at 1.3-3.02:1) |
| Projection Distance [m] | 0.7 – 50.9 |
| Screen Size (diagonal) [cm] / [inch] | (best performance range); Maximum: 12.7 / 500" |
| Zoom | Motorized and manual (depending on lens) |
| Focus Adjustment | Motorized and manual (depending on lens) |
| Supported Resolutions | 4096 x 2160 (4k); 2560 x 1600 (WQXGA); 2048 x 1080 (2k); 1920x1200 (WUXGA) - 640x480 (VGA); 1080i/50/60; 1080p/24/25/30/50/60; 720p/60; 720p/50; 576i/50; 576p/50; 480p/60; 480i/50 |
| Frequency | Horizontal: analog: 15/24-100 kHz, digital: 15/24-153 kHz; Vertical: analog: 48-120 Hz, digital: 48-120 Hz |

Connectivity

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| RGB (analog) | Input: 1 x Mini D-sub 15-pin, compatible to component (YPbPr) |
| Digital | Input: 1 x DisplayPort; 1 x HDBaseT; 2 x HDMI™ supporting HDCP 2.2 Output: 1 x HDBaseT supporting HDCP 2.2 |
| Audio | Input: 1 x DisplayPort Audio support; 1 x HDBaseT audio support; 2 x 3.5 mm Stereo Mini Jack for Computer analog; 2 x HDMI audio support Output: 1 x 3.5 mm Stereo Mini Jack (variable) |
| Control | Input: 1 x D-Sub 9 pin (RS-232), Ethernet |
| LAN | 1 x RJ45 |
| USB | 1 x Type A (USB 2.0 high speed) |
| 3D Sync | Output: 1 x Mini DIN 3pin |

Remote Control

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|----------------|---|
| Input: | 1 x 3.5 mm Stereo Mini Jack |
| Remote Control | 3D Setup; Aspect Ratio; Audio Control; Auto Adjust; DisplayPort; Eco Mode Control; Edge-Blending; Freeze-function; Geometric Correction; HDMI; Help-function; Magnify-function; Multiscreen; Page (up, down); PBP/POP Function; Picture Adjust; Picture Mute; PIP Function; Power (On-OFF); Select (up, down, left, right); Source Select; Test Picture |

Electrical

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|-----------------------|---|
| Power Supply | 100-240 V AC; 50 - 60 Hz |
| Power Consumption [W] | 482 (Normal) / 376 (Eco) / 1 (Network Stand-by) / 0.26 (Stand-by) |

Mechanical

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|-----------------------------|---|
| Dimensions (W x H x D) [mm] | 499 x 163.7 x 406 (without lens and feet) |
| Weight [kg] | 10.2 |
| Fan Noise [dB (A)] | 33 / 39 (Eco / Normal) |

Environmental Conditions

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|----------------------------|-------------------------|
| Operating Temperature [°C] | 5 to 40 |
| Operating Humidity [%] | 20 to 80 non-condensing |
| Storage Temperature [°C] | -10 to 50 |
| Storage Humidity [%] | 20 to 80 non-condensing |

Ergonomics

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| Safety and Ergonomics | CE; EAC; ErP; RoHS; TUEV Type Approved |
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Additional Features

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| Special Characteristics | 4K/60Hz interfaces; Active 3D; AMX Beacon; Built-in Display/Multiscreen Splitter; Cinema Quality Picture (CQP) Processing for best image quality; Contrast Ratio 10000:0 with Iris; Crestron RoomView; DICOM Simulation; Digital 3D Reform™; Direct Power-Off Function; Edge Blending Function; Free Tilt; Geometric Correction; HDBaseT-out signal connection; HDR10 Support; High Altitude Mode; Hollywood Quality Video Processing for best image quality; HTTP Browser Control; Keystone Correction (H=±40°, V=±40°); LAN control; Lens Memory; Lens Shift (vertical +0.5 max/-0.1 max, horizontal ± 0.3 max.); Light Source Adjustment; Long Life Lamp; Manual Wall Color Correction; Multi-Screen compensation mode; NaViSet Administrator 2; Optional User Logo; OSD with 27 languages; Password Security System; PIP/Side by Side, HDMI - Input; PJ LINK; Portrait Setting; Rec2020 to Rec709 colour conversion; RS-232 Control; Seamless Switching; Stacking Function; Test Pattern; Timer-Function; UHD player support; Up to 5,000 hrs lamp life; Virtual Remote for direct PC control |
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Green Features

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| Energy Efficiency | ECO scheduler; Intelligent Power Management; Less than 0.3W Stand-By power; Longer lamp life; Software scheduling; Timer-Function |
| Ecological Materials | 100% recyclable packaging; Downloadable manuals |
| Ecological Standards | ErP compliant |

Warranty

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| Projectors | 3 years pan-European service |
| Light Source | 6 months, max. 1000 hrs |

Shipping Content

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| Shipping Contents | IR Remote Control (RD - 466E); Power Cord; Projector; Quick Setup Guide; Users Manual on CD-ROM |
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Optional Accessories

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| Optional Accessories | 8 optional bayonet lenses; Air Filter (NP06FT); Cable Cover (NP10CV); Lamp (NP42LP); MultiPresenter Stick; XpanD 3D Glasses (X105-RF-X2); XpanD 3D RF Emitter (AD025-RF-X2) |
| Lenses - motorized | NP40ZL (0.79-1.04:1); NP41ZL (1.3-3.02:1); NP42ZL (2.97-6:1) |
| Lenses - manual | NP11FL (0.8:1); NP12ZL (1.19-1.56:1); NP13ZL (1.5-3.02:1); NP14ZL (2.97-4.79:1); NP30ZL (0.79-1.03:1) |

¹ Compliance with ISO21118-2012



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