

## U321Hi (Multi-Touch) NEC Interactive Multi-Touch Projector

### Datasheet



This ultra-short throw interactive projector releases space within small to medium sized classrooms and meeting rooms, projecting onto screen sizes between 85-100" without creating shadow or glare, allowing users to get up close in comfort to interact using the Multi-Touch function.

With 1080p resolution and 10.000:1 contrast, the U321Hi Multi-Touch delivers perfect image quality for very detailed content as well as high quality movies including 3D content from Blu-Ray players, thanks to HDMI 3D support. Demanding applications in higher education such as design and engineering will appreciate the 1080p resolution for the high level of detail achieved.

### Benefits

**Great picture quality** – thanks to 1080p resolution and 10000:1 contrast.

**Almost no shadow and glare** – thanks to ultra-short throwing distance.

**Future proof connectivity** – due to numerous analog and digital connection terminals including MHL support, network capability as well as optional wireless connectivity.

**Wall-mount included** – for quick and easy installation, compatible with height adjustable systems.

**Cost effective replacement** – of existing NEC UM Series installations to achieve higher resolutions without re-positioning of the existing wall-mount.

**Multi-Touch Interactivity** – 255 touch points and auto-calibration.

**3D ready** – for playback of engaging 3D applications and movies.

**Free DisplayNote Multiuser Licence** – present, share, collaborate with up to 5 participants across multiple devices (available until March 2017).

## Product Information

Product Name	U321Hi (Multi-Touch)
Product Group	NEC Interactive Multi-Touch Projector
Order Code	60003945

## Image

Projection Technology	1-chip DLP™ Technology
Native Resolution	1920 x 1080 (FULL-HD)
Aspect Ratio	16:9
Contrast Ratio <sup>1</sup>	10000:1
Brightness <sup>1</sup>	3200 ANSI Lumen (approx. 85% in Eco Mode)
Lamp	260 W AC (220 W AC Eco Mode)
Lamp Life [hrs]	3000 (4000 Eco Mode)
Lens	F= 2.4, f= 3.72 mm
Lens Offset [%]	65
Projection Angle [°]	57
Projection Factor	0.25 : 1
Projection Distance [m]	0.195 – 0.306
Screen Size (diagonal) [cm] / [inch]	Maximum: 254 / 100"; Minimum: 215 / 85"
Zoom	Digital Zoom
Focus Adjustment	Manual
Supported Resolutions	1920 x 1080 (HDTV 1080i/60; HDTV 1080i/50); 1680 x 1050 (WSXGA+); 1600 x 1200 (UXGA); 1600 x 900 (WXGA++); 1440 x 900 (WXGA+); 1400 x 1050 (SXGA+); 1366 x 768 (WXGA); 1360 x 768 (WXGA); 1280 x 1024 (SXGA); 1280 x 1024 (MAC 23"); 1280 x 960 (SXGA); 1280 x 800 (WXGA); 1280 x 768 (WXGA); 1280 x 720 (HDTV 720p); 1152 x 870 (MAC 21"); 1152 x 864 (XGA); 1024 x 768 (XGA); 832 x 624 (MAC 16"); 800 x 600 (SVGA); 720 x 576 SDTV 480p/480i; 720 x 480 SDTV 576p/576i; 640 x 480 (VGA/MAC 13")
Frequency	Horizontal: 15–100 kHz (RGB: 24 kHz– 100 kHz); Vertical: 50 – 120 Hz

## Connectivity

RGB (analog)	Input: 1 x Mini D-sub 15-pin, compatible to component (YPbPr) Output: 1 x Mini D-sub 15 pin
Digital	Input: 1 x HDMI™ (Deep Color, Lip sync); 1 x HDMI™ with MHL support
Video	Input: 1 x RCA
Audio	Input: 1 x 3.5 mm Stereo Mini Jack; 1 x RCA Stereo Output: 1 x 3.5 mm Stereo Mini Jack (variable)
Control	Input: 1 x D-Sub 9 pin (RS-232) (male)
LAN	1 x RJ45
USB	1 x Mini USB; 1 x Type A (USB 2.0 high speed)
Video Signals	NTSC; NTSC 3.58; NTSC 4.43; PAL; PAL-M; PAL-N; PAL60; SECAM

## Remote Control

Remote Control	Aspect Ratio; Audio Control; Auto Adjust; AV Mute; Digital Zoom; Direct Source Select; Freeze; Help Eco Mode; Help-function; ID set; Picture Adjust; Presentation and Mouse Control
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## Electrical

Power Supply	100-240 V AC; 50 - 60 Hz
Power Consumption [W]	312 (Normal) / 264 (Eco) / 2.2 (Network Stand-by) / 0.3 (Stand-by)

## Mechanical

Dimensions (W x H x D) [mm]	383 x 85 x 308 (without lens and feet)
Weight [kg]	4.7
Fan Noise [dB (A)]	29 / 34 (Eco / Normal)

## Environmental Conditions

Operating Temperature [°C]	5 to 40
Operating Humidity [%]	20 to 80 non-condensing
Storage Temperature [°C]	-20 to 60
Storage Humidity [%]	20 to 90 non-condensing

## Ergonomics

Safety and Ergonomics	CE; Gost-R; RoHS; TÜV GS
Speakers [W]	1 x 8 (mono)

## Additional Features

Special Characteristics	3D ready; AMX Beacon; Auto Eco Mode; Auto Power ON/OFF; Crestron RoomView; DICOM Simulation; Direct Power-Off Function; High Altitude Mode; Kensington security slot; Keypad Lock; Magnify; Manual vertical Keystone Correction (V= ±5°); NaViSet Administrator 2; Off-Timer; Optional User Logo; OSD with 30 languages; Password Security System; PJ LINK; Quick On/Off; Remote control and administration via LAN and RS232; Security Bar; Test Pattern; Wall Colour Correction
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## Green Features

Ecological Materials	100% recyclable packaging; Downloadable manuals; ECO packaging
Ecological Standards	ErP compliant; RoHs compliant

## Warranty

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

## Shipping Content

Shipping Contents	Attachment Plate; Interactive Module incl. 2 pens (NP04Wi); IR Remote Control (RD469E); Mini D-SUB Signal Cable (1.8 m); Multi-Touch Module (NP01TM); Power Cord; Quick Setup Guide; Security Sticker; Users Manual; Wall-mount kit NP04WK
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## Optional Accessories

Optional Accessories	3D Starter Kit (NP02SK3d); DisplayNote; DLP-Link 3D Glasses (NP02GL, Voltoni-Fit); Lamp (NP34LP)
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<sup>1</sup> Compliance with ISO21118-2012



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