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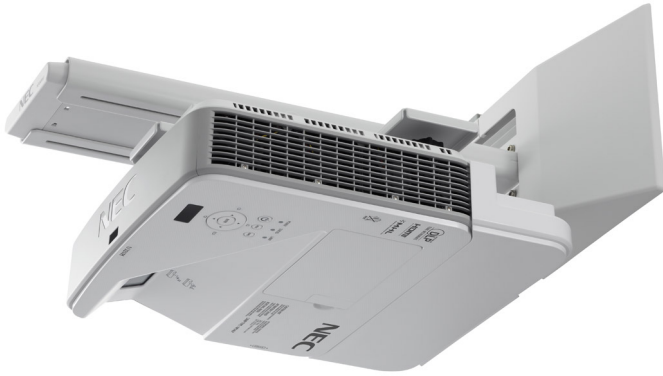# NEC U321H

NEC Professional Ultra-Short-Throw Projector

With 1080p resolution and 10.000:1 contrast, the U321H 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. This ultra-short throw projector releases space within small to medium sized classrooms and meeting rooms, projecting onto screen sizes between 85-100" without creating shadow or glare. Demanding applications in higher education such as design and engineering will appreciate the 1080p resolution for the high level of detail achieved. Interactivity can be added retrospectively to this model with a multi-pen and/or multi-touch option.

The U321H is particularly suited for classrooms and small to medium sized meeting rooms.

3D PROJECTION

ErP COMPLIANT

HDMI HIGH DEFINITION MULTIMEDIA INTERFACE

FULL HD 1080p

FREE DisplayNote Multi-User Licence

BENEFITS

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

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

Optional Multi-pen and Touch Interactivity - with auto-calibration on any kind of surface.

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.

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 2016).

IMAGE	Projection Technology	1-chip DLP™ Technology
	Native Resolution	1920 x 1080 (FULL-HD)
	Aspect Ratio	16:9
	Contrast Ratio [1]	10000:1
	Brightness [1]	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
	HDMI™	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
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	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
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; IR Remote Control (RD469E); Mini D-SUB Signal Cable (1.8 m); Power Cord; Quick Setup Guide; Security Sticker; Users Manual; Wall-mount kit NP04WK
OPTIONAL ACCESSORIES	Optional Accessories	3D Starter Kit (NP02SK3d); DisplayNote; DLP-Link 3D Glasses (NP02GL, Volfoni-Fit); Lamp (NP34LP); Manual Height Adjustable Wall Mount PJ03WHM; Mobile Motorized Wall Mount NP02HM; PJ03MHA; Motorized Height Adjustable Wall Mount PJ03WHA

[1] Compliance with ISO21118-2005

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