

# U Series

U321H ultra short throw projectors



The U321H ultra short throw projector touts advancements such as an integrated pen system and were designed with a feature set that makes them ideal for use in educational settings.



### Versatile Features and Powerful Performance

- Powerful 8-watt speaker provides volume needed for medium sized rooms
- Variable audio-out enables remote control to be used to adjust volume of self-powered external speakers that are connected to the projector. In stand-by mode, the audio-out stays active, allowing the last input used to pass to the self-powered external speakers.
- Virtual Remote™ (DDC/CI) over the VGA cable or via the network connection (wired/wireless) allows you to control the projector directly from a computer without the need for additional control cables
- Native 1080p resolution projectors automatically sync with higher-resolution computers
- Flexible input panel connects with dual HDMI, computer, composite video and component video (using optional 15-pin adapter cable)

### Bring Interactivity to the Classroom

- The interactive multi-pen module transforms any existing flat surface into an interactive workspace. Delivering genuine benefits, these bundles not only support multiple pens (and gestures) but also are quick and easy to use
- DisplayNote® multiuser license allows you to present, share, and collaborate across any device or platform
- Fast and easy auto-calibration means you are up and running in no time
- 2x super-fast charging pens are included
- With multiple pens, annotation and presentation at the board has never been easier. Whether one pen is charging while the other is in use or two people are at the board, new levels of collaboration are possible
- Interaction and annotation can take place at the board or from a mobile device (using DisplayNote®) at the same time creating a completely immersive lesson.



### Essential Features for Ease of Use

- Bright images can be easily viewed in most applications
- Intuitive remote control provides one-touch source changes and complete menu control
- Integrated RJ45 connection for quick connection to the LAN (10/100 base-T capability)
- Remote diagnostics enable the user to monitor and make adjustments to the projector remotely
- Plug and Play setup and operation optimizes images displayed from computers and video sources

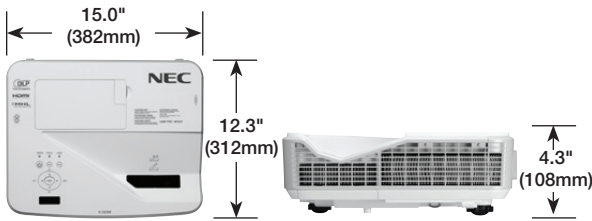
### Designed with the Environment in Mind



- Extended lamp life with ECO Mode™ technology increases lamp life up to 4000 hours, while lowering power consumption and maintenance costs
- Power management enables projector to automatically turn off when an incoming signal is not detected from any of the inputs
- Auto Power On, using the Direct Power On mode, turns on the projector when AC power is supplied
- Quick start (20 seconds) lets you begin presenting in seconds while quick shutdown (immediate power off with no cooling required after shutdown) ensures efficient energy usage
- NEC is committed to designing its products to provide long lifecycles. The new virtually maintenance-free filter (4000 hours) reduces the frequency at which cleaning is required, thereby decreasing total cost of ownership



## Specifications



## UNIQUE FEATURES

**ECO Mode technology** extends lamp life, lowers audible noise and reduces total cost of ownership.

**Built-in closed captioning** enables decoding and display of text information from a video

**Kensington lock slot** enables security cable to be attached to projector.

**10-step image magnification** with location control

## WARRANTY

Registered owners receive a 2-year parts and labor warranty including the first year of InstaCare. The lamp is covered for one year or 500 hours - whichever comes first. InstaCare provides the original owner one year of either limited 3-business-day repair/return or next-business-day exchange.

## SHIPS WITH

Remote control, batteries, RGB cable, power cord, user's manual, product registration card

## Wall mount (NP04WK1)

This mount is available separately or as a bundle U321H-WK1.



*Ultra short throw creates a 77" standard or 87" widescreen diagonal image from a mere 23 inches, eliminating shadows on the screen along with projected light in the presenter's eyes created by traditional front projection systems.*

## ORDERING MODEL NUMBERS

NP-U321H



	U321H
<b>OPTICAL</b> Display Technology Light Output (lumens) Resolution Native Maximum Contrast Ratio (up to) Lamp Type Lamp Life (up to) Screen Size (diagonal) Throw Ratio Projection Distance Projector Angle Lens* Zoom Focus F-#, f-# Keystone Correction	0.65" DLP by Texas Instruments w/ BrilliantColor™ 3200 1080p 1920x1080 1080p 1920 x 1080 10,000 260W AC 3000 hours normal / 4000 hours eco 85 to 100 in. / 2159 to 2540mm 0.25 18.7 to 22.0 in. / 474 to 558mm 57° 1 - 1.4 Manual F=2.4, f=3.72mm +/- 5° Vertical
<b>SIGNAL COMPATIBILITY/CONNECTIVITY</b> Scan Rate Horizontal Vertical Supported Video Standards SD/HD Video Signal Compatibility PC Signal Compatibility Macintosh Compatibility Input/Output Terminals RGB1 (analog) RGB2 (digital) RGB3 (digital) Video 1 Audio 1 Audio 2 Audio Out Monitor Out Audio External Control Sync Compatibility	15 - 100 kHz 50 - 120 Hz NTSC, NTSC4.43, PAL, PAL-M, PAL-N, PAL 60, SECAM 480i, 480p, 576i, 576p, 720p, 1080i, 1080p VGA, SVGA, XGA, WXGA, WXGA+, SXGA, SXGA+, UXGA Yes 15-pin, component video using ADP-CV1E adapter HDMI/HML w/HDCP HDMI w/HDCP RCA 1/8 in. stereo L/R RCA (shared by video sources) Yes (variable) Yes 8W speaker RS-232, IR, Wired LAN, Wireless LAN (optional), USB (+5V 1A) Separate Sync / Composite Sync / Sync on G
<b>ELECTRICAL</b> Power Requirements Input Current Power Consumption Normal Mode / ECO Mode / Standby	100 - 240V AC, 50/60 Hz 3.5A / 1.5A 323W / 272W / 3W / 0.18W
<b>MECHANICAL</b> Installation Orientation Dimensions (WxDxH) Net Weight Fan Noise Regulations	Table/Front, Table/Rear, Ceiling/Front, Ceiling/Rear 15.0 x 12.3 x 4.3 in. / 382 x 312 x 108mm 10.4 lbs. / 4.7 kg 34 dB normal / 29 dB eco USA UL(UL60950-1/IEC60825-1/IEC62471) FCC Part 15 Class B, C-UL(CSA60950-1/IEC60825-1/IEC62471) ICES-003 Class B
<b>ENVIRONMENTAL</b> Operational Temp Humidity Storage	41° - 104°F / 5° - 40°C 20-80% non-condensing -4° - 140°F / -20° - 60°C
<b>OPTIONAL ACCESSORIES</b> NP34LP SPKR30-2 NP04Wi NP04WK1 RMT-PJ36 NP02Pi NP01TM NP01TK SC200 SCP200 ADP-CV1E PWRORD-PJPX RGBCBL-PJPX NECEW1-MP NECEW2-MP ADVEXON1-MP ADVEXON2-MP	Replacement lamp Amplified 30-watt speaker Interactive module and pen Wall mount Replacement remote control Stylus Pen Interactive touch module Table top mount Security cable for connection to projector Lightweight adjustable suspended ceiling plate for use with NEC ceiling mounts Component video adapter converts component video to D-sub 15-pin Power cable RGB cable Extends term of parts and labor warranty to 3 years Extends term of parts and labor warranty to 4 years Extends term of InstaCare service program to 2 years Extends term of InstaCare service program to 3 years

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