NEC

Full-HD Ultra short throw projector

U321H

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

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 its HDMI 3D support.
This ultrashort throw projector returns free space to small to medium sized classrooms and meeting rooms, projecting onto screen sizes between 85-100" without creating shadow or glare.
Users of demanding applications in higher education, such as design and engineering applications, 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.

Benefits

- **Great picture quality**
  Thanks to 1080p resolution and 10,000:1 contrast.
- **Optional multi-pen and touch Interactivity**
  With auto-calibration on any kind of surface.
- **3D ready**
  For playback of engaging 3D applications and movies.
- **Almost no shadow or glare**
  Thanks to the ultra-short throwing distance.
- **Future proof connectivity**
  Numerous analog and digital connection terminals, including MHL support and network capability.

U321H

3,200 ANSI lumens	Full-HD	4.7 kg

PICTURE BY
DLP
TEXAS INSTRUMENTS

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

MHL
Mobile High-Definition Link

NaViSet
Administrator 2

● Specifications

		NP-U321H
Projection System		Single DLP® (0.65")
Resolution*[1]		1,920 × 1,080 (Full HD)
Lens		Manual Focus F= 2.4, f= 3.72 mm
Light source (Lamp)	Normal ECO mode	220 W
	ECO mode off	260 W
Lamp life*[2]	Normal ECO mode	4,000 H
	ECO mode off	3,000 H
Filter life		4,000 H
Image size		85 to 100 inches
Light output*[3] *[4]	ECO mode off	3,200 ANSI lumens
	Normal ECO mode	Approx. 80 % of ECO off
	ECO mode	Approx. 60 % of ECO off
Contrast ratio (white/black)*[4]		10,000 : 1 with lamp control
Maximum resolution		Up to 1080p (1,920 x 1,080)
Synchronization range	Horizontal	15 kHz to 100 kHz (RGB: 24 kHz or over)
	Vertical	50 Hz to 120 Hz (24Hz: Blu-ray 24P)
Keystone correction	Vertical	Manual : ± Max 5 degrees
Input terminals	Computer	Mini D-sub 15 pin x 1
	Audio	Stereo mini jack x 1
	Video	RCA x 1
	Audio	(L/R) RCA x 1
	HDMI	HDMI x 2 (HDMI1 supports MHL function)
Output terminals		Mini D-sub 15 pin x 1
	Audio	Stereo mini jack x 1
Wired LAN port		RJ- 45 (10BASE-T / 100BASE-TX) x 1
Control terminals		D-sub 9 pin x 1
USB port		Power supply only / +5V 1A x 1
		Service x 1
Built-in speaker		8 W monaural
Usage environment	Operational temperature	10°C to 35 °C, up to 80 % humidity (no condensation)
	Storage temperature	-20 °C to 60 °C, up to 90 % humidity (no condensation)
Power requirement		100 to 240 V AC, 50 Hz / 60 Hz
Input current		3.5 A to 1.5 A
Power consumption (100 to 130 V AC / 200 to 240 V AC)	ECO mode off	323 W / 312 W
	ECO mode	272 W / 264 W
	Standby (Network)	2.0 W / 2.2 W
	Standby (Normal)	0.18 W / 0.30 W
Net dimensions (W x H x D)		382 x 85 x 307 mm (not including protrusions)
Weight		4.7 kg
Gross dimensions (W x H x D)		515 x 230 x 491 mm
Gross weight		8.6 kg
Accessories		Power cord, remote control, batteries, cable cover, signal cable, CD-ROM (User's manual / Utility software), quick guide, important information, security sticker, attachment plate

*1: Effective pixels are more than 99.99%.
*2: The average time span for the brightness of the lamp to be reduced by half; does not refer to the warranty period for the lamp.
*3: This is the light output value (ANSI lumens) when the [PICTURE] mode is set to [HIGH-BRIGHT].
    If any other mode is selected as the [PICTURE] mode, the light output value may drop slightly.
*4: Compliant with ISO21118-2005

● Accessory

Included accessories

Remote control

Cable cover

Filters pre-installed

Options

Replacement lamp
NP34LP

Wall mount kit
NP04WK

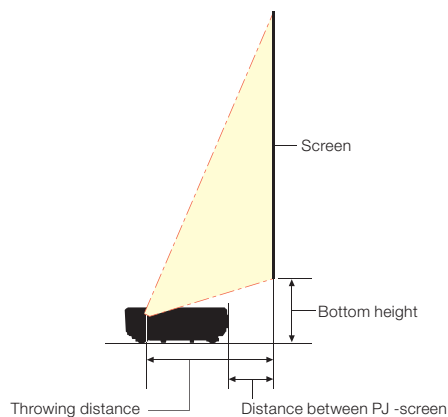Interactive white board kit
NP04Wi

Touch module
NP01TM

Stylus pen
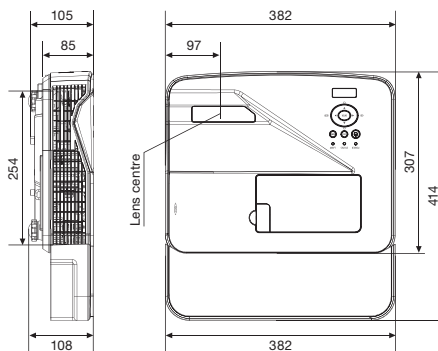NP02Pi

3D goggles
NP02GL

● Throw distance and screen size

Screen

Bottom height

Throwing distance

Distance between PJ -screen

U321H (Aspect ratio 16:9)

Screen size (H x V m)	Throwing distance(cm)	Bottom height(cm)	Distance bet. PJ-screen(cm)
85" (1.82 × 1.06)	47.4	26.2	22.2
90" (2.00 × 1.12)	50.2	27.3	25.0
95" (2.10 × 1.18)	53.0	28.5	27.8
100" (2.21 × 1.25)	55.8	29.6	30.6

The values in the tables are design values and may vary.

● Cabinet Dimensions

105
85
254
108
382
97
Lens centre
307
414
382

Unit: mm

● Terminals

MONITOR OUT (COMP.)
HDMI 2 IN
HDMI 1/MHL IN
AUDIO OUT
VIDEO IN
AUDIO IN R, L
COMPUTER IN
LAN PORT
AUDIO IN
PC CONTROL
USB PORT (POWER SUPPLY ONLY)
SERVICE