NP Portable Series

NP310, NP410, NP410W, NP510 and NP510W digital projectors

Easy to use and at the right price, NP Portable Series projectors provide all the essential features that you need to connect with your audience.

ESSENTIAL FEATURES FOR EASE OF USE

- Plug and Play intuitive setup and operation
- Top cover lamp change provides for easy lamp changes without removal of the projector from the mount
- Bright images easily viewed in any application
- Versatile, color-coded connections to computer, video sources and external monitor
- Automatic keystone correction technology instantly projects a square image even when the projector is set up at a steep offset angle to the screen
- Autosense[™] intuitively syncs the projector with most computer signals and features onetouch image optimization
- One-touch source changes and complete menu control using the intuitive projector keypad
- 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

VERSATILE FEATURES AND POWERFUL PERFORMANCE

- Remarkable contrast ratio (2000:1) enhances your image (NP310 & NP410)
- With XGA and WXGA native resolutions, high brightness up to 3000 lumens and patented NEC technologies, NP Portable Series projectors display impressive image quality
- **Dual computer inputs, including DVI-I**, ensure quick switching between presentations
- Powerful 7-watt speaker provides volume needed for large rooms
- Virtual Remote (DDC/CI) over the VGA cable to control the projector directly from a computer without the need for additional control cables
- 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.
- **Built-in wall color correction presets** provide for adaptive color tone correction to display properly on non-white surfaces
- Easy control from remote allows you to adjust lamp mode, aspect ratio, volume and image all with the touch of a button

DESIGNED WITH THE ENVIRONMENT IN MIND

- Extended lamp life with ECO Mode™ technology increases lamp life up to 5000 hours, while lowering power consumption
- **Power management** enables projector to automatically turn off when an incoming signal is not detected from any of the inputs
- · Auto Power On via the RGB (15-pin) input connector when a signal is detected from a computer
- Carbon savings meter calculates the positive effects of operating the projector in ECO Mode, which is encouraged by an optional message at startup. A green ECO Mode button on the remote control makes the switch easy.
- Quick start (3 to 4 seconds) lets you begin presenting in seconds while quick shutdown (immediate power off with no cooling required after shutdown) ensures efficient energy usage
- · Sleep timer can be set to automatically turn off the projector at set countdown times
- Filter life increased by three times compared to previous generation models
- Low power consumption (0.6W in stand-by mode) minimizes energy costs



Series Features and Benefits

CLOSED CAPTIONING

LONG LAMP LIFE (UP TO 5000 HOURS)

EASY TO USE

VIRTUAL REMOTE

MONITOR OUTPUT

AUTOMATIC KEYSTONE CORRECTION

7-WATT SPEAKER

DVI-I INPUT

VARIABLE AUDIO OUT

LONG FILTER LIFE



ECO MODE



UNIQUE FEATURES

Advanced AccuBlend ensures detailed images when non-native resolution sources are connected to the projector

64-step image magnification with location control

Countdown sleep timer can be set to automatically turn off the projector

Built-in HTTP page for control and monitoring over a LAN network

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

Nearly silent operation with noise level as low as 29dB in ECO Mode

Password protection restricts unauthorized use of projector

Cabinet control lock setting enables user to deactivate buttons on cabinet to prevent unwanted changes to projector settings

Email notification informs the system administrator when the lamp approaches the end of its useful life

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.

IN THE BOX

Carrying case, remote control, batteries, power cord, RGB signal cable, lens cap, user's manual on CD-ROM, quick start guide, product registration card, DVI-I - VGA adapter







Specifications for NP310, NP410, NP410W, NP510 & NP510W NP310/NP410: 0.63" LCD NP510: 0.63" LCD with MLA NP410W/NP510W: 0.59" LCD with MLA NP310/NP410/NP510: XGA 1024 x 768

NP410W/NP510W: WXGA 1280 x 800 UXGA 1600 x 1200 NP310: 2200 normal / Eco = approx. 80% of normal mode Light Output (lum NP310: 2200 normal / Eco = approx. 80% of normal mode NP410: 2600 normal / Eco = approx. 80% of normal mode NP410W: 2600 normal / Eco = approx. 70% of normal mode NP510: 3000 normal / Eco = approx. 80% of normal mode NP510: 3000 normal / Eco = approx. 70% of normal mode NP310/NP410: 2000:1 NP410W: 450:1 NP510/NP510W: 500:1 NP510/NP510W: 500:1 NP310/NP410/NP510: 180W AC / 168W eco NP410W/NP510W: 230W AC / 168W eco 4000 hours normal / 5000 hours eco 21 – 300 in., 0.53-7.6m 1.5 – 1.8 amp Life (up to) reen Size (diagonal)

1.5 – 1.6 NP310/NP410/NP510: 2.3 - 37.1 ft. / 0.7 - 11.3m NP410W/NP510W: 2.6 - 39 ft. / 0.8 - 11.9m NP310/NP410/NP510: 7.9 - 8.3° tele / 9.5 - 10.0° wide NP410W/NP510W: 7.6 - 7.9° tele / 9.1 - 9.5° wide

1.0 to 1.2 Manual F = 1.7 - 2.07, f = 18.9 - 22.7mm Automatic or manual +/- 30°

SIGNAL COMPATIBILITY/CONNECTIVITY

pported Video Standards //HD Video Sianal Compatibility

Horizontal 15 · 100 kHz / Vertical 50 · 120 Hz NTSC, NTSC4.43, PAL, PAL-60, PAL-M, PAL-N, SECAM 1080i, 720p, 576p, 576i, 480p, 480i, Y/Cb/Cr component (with optional adapter ADP-CV1E) VGA, SVGA, XGA, SXGA, SXGA+, UXGA

15 pin DVI-I w/ HDCP RCA S-Video L/R RCA (shared by video sources) mini stereo (Variable audio out) Yes

7W speaker RS-232, IR, LAN, DDC/CI

Separate Sync / Composite Sync / Sync on G

ELECTRICAL

100 - 240V AC 50/60Hz NP310/NP410/NP510: 3.2A/1.4A NP410W/NP510W: 3.8A/1.5A NP310/NP410/NP510: 251W / 203W / 0.6W NP410W/NP510W: 312W / 237W / 0.6W

Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear $12.1 \times 10.3 \times 3.7$ in. / $308 \times 262 \times 93.5$ mm 6.6 lbs. / 3 kg 35 dB normal / 29 dB eco UL60950-1, CSA60950-1, FCC Part 15 Class B, ICES-03 Class B, NOM-001-SCF1-1993

802.11b/g wireless adapter Amplified 30 watt speaker

ENVIRONMENTAL

Cocyational Tem

ACCESSORIES

41° - 95°F / 5° - 40°C 20-80% non-condensing 14° - 122°F / -10° - 50°C IR receiver enables PJ remote to control PC and MAC functions

STANSU
SC200
ADP-CV1E
LEATHERCASE
LEATHERROLLER
NP600CM
NP011UCM
AD1004000

Security cable attaches to projector lock slot Component video to VGA adapter Leather case with compartments for laptop and projector Leather rolling case for laptop and PJ, fits in most airplane storage bins Ceiling mount

Universal ceiling mount for projectors weighing less than 40 pounds 6 to 9 inch adjustable extension column for use with projector mount 12 to 18 inch adjustable extension column for use with projector mount 2 to 3 foot adjustable extension column for use with projector mount 3 to 5 foot adjustable extension column for use with projector mount Adjustable suspended ceiling plate for use with ceiling mount Replacement lamp for NP310, NP410 and NP510 Replacement lamp for NP410W and NP510W Replacement remote control

WARRANTY PROGRAMS

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 Projector recycling program, disposal certificate

Additional accessories are available, including screens, carts, mount accessories and replacement cables. Visit www.necdisplay.com for details



