

# NP Short Throw Series

## NP510WS and NP610S short-throw, digital projectors

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



### ESSENTIAL FEATURES FOR EASE OF USE

- **Top cover lamp change** provides for easy lamp changes without removal of the projector from the mount
- **Bright images** easily viewed in any application
- **Automatic keystone correction technology** instantly projects a square image even when the projector is set up at a steep offset angle to the screen
- **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

- With **XGA and WXGA native resolutions**, high brightness up to 2600 lumens and patented NEC technologies, NP Short Throw Series portable 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
- **Nearly silent operation** with noise level as low as 29dB in ECO Mode
- **Cabinet control lock setting** enables user to deactivate buttons on cabinet to prevent unwanted changes to projector settings

### 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
- **Countdown sleep timer** can be set to automatically turn off the projector
- **Filter life** increased by three times compared to previous generation models

### 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

### Accessories



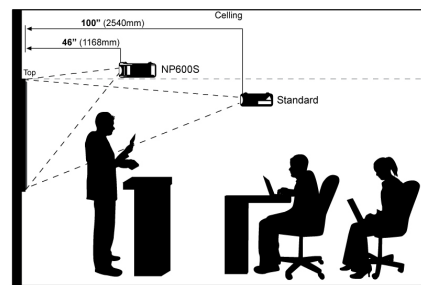
**Control and signal interface box (NPSTCTL)** manages power on/off, input switching and volume. Input panel consists of (2) VGA, (2) stereo mini, composite, S-Video and stereo RCA. Cable bundle included.

### Wall mount (NPSTWM)

includes wall bracket, pole and projector mounting bracket for simple, out-of-the-way installation.



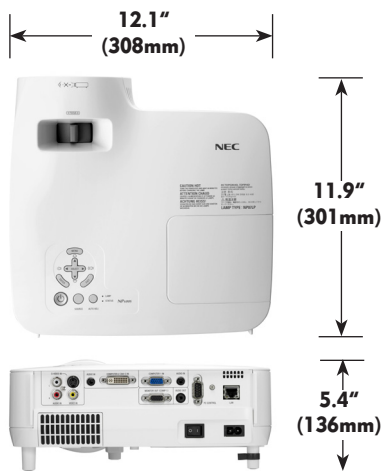
### NP610S short throw projector vs. standard projector



**Short throw** creates a 77" diagonal image from 3 feet, 10 inches, eliminating shadows on the screen along with projected light in the presenter's eyes created by traditional front projection systems



**Virtual Remote** over the VGA cable allows you to control the projector directly from a computer without the need for additional control cables or IR remote control



## UNIQUE FEATURES

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

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

**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

**Versatile, color-coded connections** to computer, video sources and external monitor

**Autosense™** intuitively syncs the projector with most computer signals and features one-touch image optimization

**One-touch source changes and complete menu control** using the intuitive projector keypad

**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

**Password protection** restricts unauthorized use of projector

**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

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 NP510WS & NP610S

<b>OPTICAL</b>	
Display Technology	NP510WS: 0.59" LCD with MLA NP610S: 0.63" LCD
Resolution Native	NP510WS: WXGA 1280 x 800 NP610S: XGA 1024 x 768
Maximum Light Output (lumens)	UXGA 1600 x 1200 NP510WS: 2100 normal / Eco = approx. 70% of normal mode NP610S: 2600 normal / Eco = approx. 70% of normal mode
Contrast Ratio	600:1
Lamp Type	230W AC / 170W eco
Lamp Life (up to)	4000 hours normal / 5000 hours eco
Screen Size (diagonal)	NP510WS: 57 – 104 in., 1.45-2.64m NP610S: 60 – 110 in., 1.52-2.79m
Throw Ratio	0.74:1
Projection Distance	2.9 - 5.6 ft. / 0.9 - 1.7m
Projection Angle	29.1° tele / 29.4° wide
Lens	
Zoom	1.2
Focus	Manual
F-#, f-#	F = 2.3, f = 9.7mm
Keystone Correction	Automatic or manual +/- 20°
<b>SIGNAL COMPATIBILITY/CONNECTIVITY</b>	
Scan Rate	Horizontal 15 - 100 kHz / Vertical 50 - 120 Hz
Supported Video Standards	NTSC, NTSC4.43, PAL, PAL-60, PAL-M, PAL-N, SECAM
SD/HD Video Signal Compatibility	1080i, 720p, 576p, 576i, 480p, 480i, Y/Cb/Cr component (with optional adapter – ADP-CV1E)
PC Signal Compatibility	VGA, SVGA, XGA, SXGA, SXGA+, UXGA
Macintosh Compatibility	Yes
Input/Output Terminals	
RGB 1 (analog)	15 pin
RGB2	DVI-I w/ HDCP
Video 1	RCA
Video 2	S-Video
Audio 1	L/R RCA (shared by video sources)
Audio 2	1/8 in. stereo
Audio 3	1/8 in. stereo
Audio Out	mini stereo (Variable audio out)
Monitor Out	Yes
Audio	7W speaker
External Control	RS-232, IR, LAN, DDC/CI
Sync Compatibility	Separate Sync / Composite Sync / Sync on G
<b>ELECTRICAL</b>	
Power Req.	100 - 240V AC, 50/60Hz
Input Current	3.8A/1.5A
Power Consumption (Normal Mode/ECO Mode/Standby (Power Saving))	312W / 237W / 0.6W
<b>MECHANICAL</b>	
Installation Orientation	Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear
Dimensions (WxDxH)	12.1 x 11.9 x 5.4 in. / 308 x 301 x 136mm
Net Weight	7.3 lbs. / 3.3 kg
Fan Noise	35 dB normal / 29 dB eco
Regulations	UL60950-1, CSA60950-1, FCC Part 15 Class B, ICES-03 Class B, NOM-001-SCFI-1993
<b>ENVIRONMENTAL</b>	
Operational Temp	41° - 95°F / 5° - 40°C
Humidity	20-80% non-condensing
Storage	14° - 122°F / -10° - 50°C
<b>ACCESSORIES</b>	
NP01MR	IR receiver enables PJ remote to control PC and MAC functions
WPA001	802.11b/g wireless adapter
SPKR30	Amplified 30 watt speaker
SC200	Security cable attaches to projector lock slot
ADP-CV1E	Component video to VGA adapter
LEATHERCASE	Leather case with compartments for laptop and projector
LEATHERROLLER	Leather rolling case for laptop and PJ, fits in most airplane storage bins
NP600CM	Ceiling mount
NP01UCM	Universal ceiling mount for projectors weighing less than 40 pounds
NPSTWM	Short throw wall mount
ADJ006009	6 to 9 inch adjustable extension column for use with projector mount
ADJ0012018	12 to 18 inch adjustable extension column for use with projector mount
ADJ0203	2 to 3 foot adjustable extension column for use with projector mount
ADJ0305	3 to 5 foot adjustable extension column for use with projector mount
SCP100	Adjustable suspended ceiling plate for use with ceiling mount
NP07LP	Replacement lamp
RMT-PJ29	Replacement remote control
NPSTCTL	Control and signal interface box
<b>WARRANTY PROGRAMS</b>	
NECEW1-MP	Extends term of parts and labor warranty to 3 years
NECEW2-MP	Extends term of parts and labor warranty to 4 years
ADVEXON1-MP	Extends term of InstaCare service program to 2 years
ADVEXON2-MP	Extends term of InstaCare service program to 3 years
NECECO	Projector recycling program, disposal certificate
Additional accessories are available, including screens, carts, mount accessories and replacement cables. Visit <a href="http://www.necdisplay.com">www.necdisplay.com</a> for details.	



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