

# Easy does it

VT49, VT490 and VT590 digital projectors.



LONG LAMP LIFE

EASY TO USE

AUTOSENSE TECHNOLOGY

MONITOR OUTPUT

COLOR MANAGEMENT

QUICK START

Easy to use and at the right price, the VT 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.
- **Quick start up** lets you begin presenting in seconds.
- **Bright images** easily viewed in any application.
- **Versatile color-coded connections** to computer, video sources and external monitor.
- **Lightweight design** for easy transport.
- **Keystone correction** 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 one-touch image optimization.
- **One touch source changes and complete menu control** using the intuitive projector keypad.

## VERSATILE FEATURES AND POWERFUL PERFORMANCE.

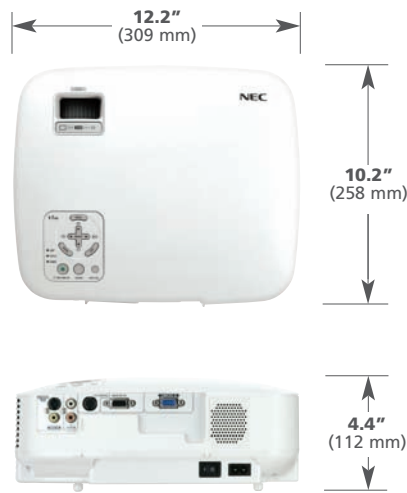
- With native resolutions up to XGA, high brightness up to 2000 lumens and patented NEC technologies like Advanced AccuBlend™ and VORTEX™ Technology, **the VT Series displays impressive image quality.**
- Vertical position of the image can be adjusted when the **Cinema aspect (wide screen) ratio** is in use.
- **Built-in wall color correction presets** provide for adaptive color tone correction to display properly on non-white surfaces.
- Focus in on details with **up to 400% image magnification.**
- **Easy remote** allows you to adjust lamp mode, aspect ratio, volume and image all with the touch of a button.
- **Optional IR receiver** can be connected to computer for remote mouse control.

## SAVE MONEY, RESOURCES AND YOUR PROJECTOR.

- **The VT Series projectors are extremely affordable.**
- **Extended lamp life** with Eco-mode™ technology that increases lamp life up to 4,000 hours.
- **Nearly silent operation** with noise level as low as 25dB
- **Automatic timer** can be set to shut off the projector at selected time intervals.
- **Power management** enables projector to automatically turn off when an incoming signal is not detected from any of the inputs.
- **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.

*Because it's your image.*

**NEC**



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## VT49, VT490 and VT590 digital projectors.

### OPTICAL

Display Technology	0.6" LCD
Resolution	Native: VT49/VT490: SVGA 800 x 600 VT590: XGA 1024 x 768 Maximum: UXGA 1600 x 1200
Light Output (lumens)	VT49: 1600 normal / 1280 eco VT490/590: 2000 normal / 1600 eco
Contrast Ratio	600:1
Lamp Type	VT49: 150W DC, 120W eco VT490, VT590: 190W DC, 150W eco
Lamp Life (up to)	VT49: 3000 hours normal / 4000 hours eco VT490: 2000 hours normal / 3000 hours eco VT590: 2000 hours normal / 3000 hours eco
Screen Size (diagonal)	21 - 300 in, .53 - 7.6 m
Throw Ratio	VT49: 1.8 VT490: 1.5 - 1.8 (approximate) VT590: 1.5 - 1.8 (approximate)
Projection Distance	VT49: 2.6 to 36 ft, .9 to 11 m VT490: 2.3 to 36.4 ft, .7 to 11.1 m VT590: 2.3 to 36.4 ft, .7 to 11.1 m
Projection Angle	VT49: 8.4° tele / 8.7° wide VT490: 8.3-8.6° tele / 9.9-10.3° wide VT590: 8.3-8.6° tele / 9.9-10.3° wide
Lens	Zoom: 1.0 to 1.2 (VT49 digital zoom); (VT490 and VT590 optical zoom) Focus: Manual F-#, f# F=1.7 mm, f=22.4mm, F=1.7 to 2.07 mm, f=18.9 to 22.7mm
Keystone Correction	Manual +/-30°

### SIGNAL COMPATIBILITY/CONNECTIVITY

Scan Rate	Horizontal: 15 to 100 kHz Vertical: 50 to 120 Hz
Supported Video Stds	NTSC, NTSC4.43, PAL, PAL-60, PAL-M, PAL-N, SECAM
SD/HD Video Signal	1080i, 720p, 576p, 576i, 480p, 480i, Y/Cb/Cr component (with optional adapter - ADP-CV1E)
Compatibility	
PC Signal Compatibility	VGA, SVGA, XGA, SXGA, SXGA+, UXGA
Macintosh Compatibility	Yes
Input/Output Terminals	RGB 1 (analog): 15 pin Video 1: RCA Video 2: S-Video Audio 1: L/R RCA Monitor Out: Yes
Audio	1-watt mono speaker
External Control	RS232, IR
Sync Compatibility	Separate Sync / Composite Sync / Sync on G

### ELECTRICAL

Power Req.	100 - 240VAC, 50 / 60Hz
Input Current	VT49: 2.4 / 1A VT490: 3.1 / 1.3A VT590: 3.1 / 1.3A
Power Consumption	VT49: 205W / 170W VT490: 255W / 205W VT590: 255W / 205W

### MECHANICAL

Installation Orientation	Floor / Front, Floor / Rear, Ceiling / Front, Ceiling / Rear
Dimensions (WxDxH)	12.2 x 10.2 x 4.4 in, 309 x 258 x 112 mm
Net Weight	VT49: 6.2 lbs, 2.8 kg VT490: 6.4 lbs, 2.9 kg VT590: 6.4 lbs, 2.9 kg
Fan Noise	VT49: 32 dB normal / 25 dB eco VT490: 34 dB normal / 29 dB eco VT590: 34 dB normal / 29 dB eco
Regulations	USA UL 1950 FCC Class B, Canada CSA950 (C-UL)

### ENVIRONMENTAL

Operational Temp	41° to 95°F / 5° to 40°C
Humidity	20-80% non-condensing
Storage	14° to 122°F / -10° to 50°C

### WARRANTY

Registered owners receive a 3-year limited warranty including InstaCare. Includes three year limited warranty on parts and one year limited warranty on labor. The lamp is covered for one year or 500 hours - whatever 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, carrying handle (VT490/VT590) for projector, remote control, batteries, power cord, RGB signal cable, lens cap, user's manual on CD-ROM, quick start guide, product registration card

### UNIQUE FEATURES

Advanced AccuBlend	Ensures detailed images when non-native resolution sources are connected to the projector.
Autosense	Automatically syncs with any computer signal and features one touch image optimization.
VORTEX™ Technology Plus	Breakthrough image processing technology improves white level, color accuracy, dynamic range and varying levels of black in an image.
Eco-Mode™ Technology	Extends lamp life, lowers audible noise and reduces total cost of ownership.
Built-in Wall Color Correction	Presets provide for adaptive color tone correction to display properly on non-white surfaces.
Image Magnification	64-step image magnification with location control.
Sleep Timer	Count down timer can be set to automatically turn off the projector.

### ACCESSORIES/WARRANTY PROGRAMS

#### Accessories

IR-RCVR	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

#### Cases

LEATHERCASE	Leather case with compartments for laptop and projector
LEATHERROLLER	Leather rolling case for laptop and PJ, fits in most airplane storage bins
VT70ATA	Airtight molded plastic shipping case for projector

#### Installation

VL80CM	Ceiling mount with adapter plate designed for VT90 Series projectors
NPO1UCM	Universal ceiling mount for projectors weighing less than 40 pounds
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

#### Replacement Parts

VT80LP	Replacement lamp for VT49
VT85LP	Replacement lamp for VT490, VT590, VT595, VT695
RMT-PJ21	Replacement remote control
PWRCRD-VT70	Replacement power cord
RGBCB-L-PJPX	Replacement RGB signal cable

#### Warranty Programs

VLNPL-01	Extends term of parts and labor warranty to include 3 years labor
VLIC03	Extends term of InstaCare service program to 3 years
VLMTCC-02	3 year international service program
NECECO	Projector recycling program, disposal certificate
VTPO4	Extends term of VT90 Series parts warranty to 4 years
VTPL04	Extends term of VT90 Series parts and labor warranty to 4 years



For more information, call 1.800.NEC.INFO or visit [www.necvisualsystems.com](http://www.necvisualsystems.com)

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