

# Digital Cinema Projector Series

## NC2500S-A, NC1600C-A and NC800C projectors

Using DLP Cinema® technology from Texas Instruments®, NEC's digital cinema projectors deliver exceptional image quality, brightness, resolution, contrast and colorimetry. NEC's award-winning digital cinema projectors are designed with a focus on quality and ease-of-use for movie theatres of all sizes: NC2500S-A for the largest cinema screens (up to 82-feet wide); NC1600C-A for medium-sized screens up to 65-feet wide; and NC800C for small theatres, screening rooms and post-production facilities with screen sizes up to 26-feet wide.

### Why Digital?

- Reduced Costs - Eliminate costs of printing and distributing film
- Stunning Images - Deliver a truly accurate, life-like image with vibrant colors
- Unsurpassed Quality - Avoid deterioration issues from film reproduction
- Audience Satisfaction - Enhance viewing experience of audiences
- Positive Environmental Impact - Eliminate harsh chemicals and landfill associated with 35mm film prints

### FEATURES AND BENEFITS

- High Resolution and Contrast - Achieve contrast ratios of 2000:1 or higher by using DMD chips that support a resolution of 2048 x 1080. These projectors faithfully reproduce digital cinema and high-definition input sources, as well as input sources requiring superior color reproduction and wide gradation.
- One-Touch Operation and Memory Functions - Direct-select buttons for eight stored projector configurations; world's first memory functions for lens position and lamp output; simplify display of different aspect ratios through pre-set lens shift position, zoom and focus, while maintaining constant screen brightness.
- 3-D Presentation Using a Single Projector - Present 3-D content from a single projector, eliminating the need for a costly second projector
- Auto Lamp Brightness Control - Minimize fluctuations that occur during the life of the lamp. The brightness level will not decrease as the lamp is consumed. These projectors optimize lamp performance and ensure the brightest and most uniform image possible for the life of the lamp.
- Trouble-Free Lamp Replacement - Technicians can replace lamps simply from the back of the projector even in a cramped space
- Built-In Web Server - Access and control projectors from any authorized web browser
- Minimal Maintenance - Custom DMD shielding protects the projectors from dust, oil and smoke
- Optional Touchscreen Control - Conveniently control the projectors from an optional touchscreen
- Compatibility with Most Standard Film Projector Lamps - For maximum flexibility, exhibitors are able to use compatible third-party film projector lamps with a lamp adapter available from NEC (NC2500S-A & NC1600C-A)
- Convenient Carrying Handles - Built-in carrying handles for easy delivery and setup (NC1600C-A & NC800C)
- Ease of Transport - Especially important in rental situations, transport these projectors without having to remove the lamp bulb (NC1600C-A & NC800C)
- Compact Size - Quickly and easily adapt to every conceivable installation specification inside or outside a projection booth (NC800C)



**NC2500S-A**



**NC1600C-A**



**NC800C**



## Specifications for NC2500S-A/NC1600C-A/NC800C

MODEL	NC2500S-A	NC1600C-A	NC800C
Projection Method	3-chip DMD reflection method		
Primary Lenses	For 1.2" DLP Chip: 1.25 to 1.45:1 zoom / 1.45 to 1.8:1 zoom / 1.8 to 2.4:1 zoom / 2.2 to 3.0:1 zoom / 3.0 to 4.3:1 zoom / 4.3 to 6.0:1 zoom For .98" DLP Chip: 1.3 to 1.75:1 zoom / 1.75 to 2.4:1 zoom / 2.4 to 3.9:1 zoom Select according to magnifications of installation environment		
Lens Adjustment Functions	Motorized focus, zoom, horizontal/vertical shift, light shutter (dowser) / Lens memory stores lens setting (shift/zoom/focus) / Range of shift is dependent on lens		
Light Output	26,000 lumens when using NEC 6.0KW high-efficiency Xenon lamp bulb	17,000 lumens when using NEC 4.0KW high-efficiency Xenon lamp bulb	6400 lumens when using NEC lamp bulb
Contrast Ratio	Greater than 2000:1 (full on/off)	Greater than 2200:1 (full on/off)	Greater than 2000:1 (full on/off)
Lamp Bulbs	NEC high-efficiency Xenon (NEC 4.5KW lamp bulb/NEC 6.0KW lamp bulb) / Standard film lamp bulbs using adapter available from NEC	NEC 4.0KW high-efficiency Xenon lamp bulbs / NEC 4.0KW long-life Xenon lamp bulb / Standard film lamp bulbs using adapter available from NEC	NEC 1.25KW high-efficiency Xenon lamp bulb
DMD Specifications	1.2" DLP chip, 12° tilt angle 2048 x 1080 pixels	0.98" DLP chip, 12° tilt angle 2048 x 1080 pixels	1.2" DLP chip, 12° tilt angle 2048 x 1080 pixels
DLP Cinema Functions	CineLink™, CineCanvas™, CinePalette™, CineBlack™		
Cooling Method	<ul style="list-style-type: none"> <li>Liquid cooling inside, air cooling with dust-preventing electrostatic filter</li> <li>Total thermal dissipation: 30539BTU (Input 7KW power to NEC 6.0KW lamp bulb) <ul style="list-style-type: none"> <li>Projector exhaust: 424CFM</li> <li>Demand of exhaust duct: 565CFM</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Liquid cooling inside, air cooling with dust-preventing electrostatic filter</li> <li>Total thermal dissipation: 18767BTU (Input 4KW power to NEC 4.0KW lamp bulb) <ul style="list-style-type: none"> <li>Projector exhaust: 150CFM</li> <li>Demand of exhaust duct: 565CFM</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Air cooling with dust-preventing electrostatic filter</li> <li>Total thermal dissipation: 7766BTU <ul style="list-style-type: none"> <li>Projector exhaust: 50CFM</li> </ul> </li> </ul>
External Controls	PC card slot (for compact flash memory card or wireless LAN card) x 1 / LAN port [RJ-45] x 2 / USB port [Type A] x 1 / Serial port (RS-232C) [D-sub(9-pin)] x 1 / General Purpose I/O [D-sub (37-pin)] x 1 / Remote control connector x 1		
Input Terminals	HD-SDI port [BNC] x 2 / DVI port [DVI-digital] x 2		
Fan Noise	Less than 65dB	Less than 63 dB	45 dB (when set to low brightness mode)
Power Supply Voltage	Projector head: 200 - 240V AC, 50/60Hz, single phase Lamp power supply unit: 200 - 230V/ 380 - 415V AC, 50/60Hz, 3 phases	200 - 240V AC, 50/60Hz, single phase	100 - 120V or 200 - 240V AC, 50/60Hz, single phase Brightness limited to 80% of max when running from 100 - 120V circuit
Rated Input Current	Projector head: 5A Max Lamp power supply unit: 28A Max	30A Max	12A Max (100 - 120V) 8.5A Max (200 - 240V)
Power Consumption	Projector head: 950W Lamp power supply unit: 8000W	5500W	1200 - 1440W (100 - 120V) 1700W (200 - 240V)
External Dimensions (W x D x H)	Projector head: 27.6 x 43.3 x 19.8 in. <i>Excluding lens, lens hood and exhaust stack</i> Lamp power supply unit: 23.5 x 15.7 x 18.6 in. Projector head + pedestal (NEC option): 27.6 x 43.3 x 53.5 in. <i>Excluding lens, lens hood, exhaust stack and handle. Including feet.</i>	27.56 x 38.98 x 19.80 in. <i>Excluding lens, lens hood and exhaust stack. Including feet.</i>	26.3 x 30.1 x 16.7 in. <i>Excluding lens, lens hood and handle. Including feet. Pedestal not supplied by NEC.</i>
Weight	Projector head: Approx. 265 lbs. <i>Excluding lens.</i> Lamp power supply unit: Approx. 112 lbs. Projector head + pedestal (NEC option): Approx. 564 lbs. <i>Including lamp power supply unit.</i>	Approx. 218 lbs. <i>Excluding lens and handle.</i>	Approx. 150 lbs. <i>Excluding lens. Pedestal not supplied by NEC.</i>
Environment	Operational temperatures: 41°F - 95°F Humidity: 10% - 80% (non-condensing) Storage temperatures: 14°F - 122°F Humidity: 10% - 80% (non-condensing)		
Regulations	USA: UL60950 FCC Class A Canada: CSA60950 ICES-003 Class A		
Standard Equipment	Remote control unit & cable for remote control unit (629 in.), lens holder to attach to primary lens, film lamp adapter for 4.0 - 7.0KW film lamp bulbs, user manual	Remote control unit & cable for remote control unit (629 in.), lens holder to attach to primary lens, film lamp adapter for 3.0KW film lamp bulbs, user manual	Remote control unit & cable for remote control unit (629 in.), lens holder to attach to primary lens, user manual
Optional Accessories	Pedestal, lamp house module, touch panel controller and holder arm, film lamp adapter for 3.0KW film lamp bulbs, anamorphic lens x 1.25 and motorized anamorphic lens turret, built-in alternative content processor, stand-alone alternative content processor, optional input boards for alternative content processor, air filter	Pedestal, lamp house module, touch panel controller and holder arm, anamorphic lens x 1.25 and motorized anamorphic lens turret, built-in alternative content processor, stand-alone alternative content processor, optional input boards for alternative content processor, air filter	Lamp house module with a lamp bulb, touch panel controller and holder arm, anamorphic lens x 1.25 and anamorphic lens turret, stand-alone alternative content processor, optional input boards for alternative content processor
Limited Warranty	1 year, parts and labor		

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