

Digital Cinema Projector Series

The future of cinema viewing

NC3240S
NC3200S
NC2000C
NC1200C



DIGITAL
PICTURE BY
DLP
CINEMA[®]
TEXAS INSTRUMENTS

NEC
necdisplay.com



Enter the digital age with NEC projector technology

Exceptional image and color quality meet the latest in digital cinema technology to deliver new revenue-generating opportunities for theaters and cinema events. These advanced solutions are backed by NEC, the trusted leader in digital cinema technology.

Generate Greater Per Seat Revenue


Achieve additional income from showing higher-quality, more entertaining media and arranging alternative sports, broadcast and education media during off-peak operational times.

Play Captivating 3D Content

Equip your theater with NEC Digital Cinema Series projectors and stay ahead of your competition with the latest digital content, which is becoming more and more an essential element of the latest movies and media.

Enjoy Lower TCO

With easy servicing, more durable components and advanced support options, you can enjoy better quality imaging while experiencing an overall lower cost of ownership.



Using DLP Cinema® technology from Texas Instruments®, NEC's innovative digital cinema projectors deliver exceptional image quality, brightness, resolution, contrast and colorimetry. NEC's 2K/4K digital cinema projectors are designed with a focus on quality and ease-of-use for movie theaters of all sizes.

- FULLY COMPLIANT WITH DCI REQUIREMENTS*
- MINIMAL COST OF OWNERSHIP / SIMPLE MAINTENANCE

* Digital Cinema System Specifications Compliance test applied for

DLP Cinema Technology

2009 Academy Scientific and Engineering Award for Color Accuracy

Recipients of the 2009 Academy Plaque are D.Scott Dewald, Greg Pettitt, Brad Walker and Bill Werner.



COMPLETE SCREEN SIZE COVERAGE

NEC's award-winning digital cinema projectors are designed with a focus on quality and ease-of-use for movie theatres of all sizes: NC3200S/NC3240S for the largest cinema screens (up to 105-feet wide*); NC2000C for medium-sized screens (up to 65-feet wide*); and NC1200C for small theatres, screening rooms and post-production facilities with screen sizes up to 46-feet wide*.



FULLY COMPLIANT WITH DCI REQUIREMENTS** / 4K-READY

- The NC3200S, which was designed with the exhibitor in mind, is fully upgradable to 4K technology, making the transition a seamless and cost-effective solution

MINIMAL COST OF OWNERSHIP / SIMPLE MAINTENANCE

- Quick and easy components/parts replacement with modular electronics
 - Clear electronic layout and wiring
 - Easy prism replacement can be completed in only a few minutes
 - Truly modular electronics; custom DMD shielding gaskets and patented reflector design help reduce maintenance costs
- Air filters available
 - Lamp inlet
 - Unwoven fabric filter (NC-80AF01 required for all projectors)
 - Metal Filter (NC-65MF01 for NC1200/NC2000) and (NC-75MF01 for NC3200/NC3240)
 - Air inlet
 - Unwoven fabric filter (NC-80AF02 required for all projectors)
- Industry-leading system service and support
 - Quick and easy troubleshooting by self-diagnosis with built-in system test and error log analysis
 - Built-in web server allows you to access and control projectors from any authorized web browser
 - Remotely update firmware via network from long distances

BAR-SETTING RELIABILITY

- Newly designed cooling system, the first of its kind in the industry, creates positive air pressure internally to prevent contaminants such as oil and dust from entering the main chassis. Lamp cooling air flow is separate from the optics and electronics in the main chassis.
- Custom DMD shielding protects the projectors from dust/oil contaminants and provides optimal picture quality

BEST-SUITED PROJECTOR FOR 3D APPLICATIONS

- The NC3200S/NC3240S are the brightest digital cinema projectors available, boasting 33,000 lumens
- 3D presentation using a single projector - Support for all major suppliers of 3D accessories, including:
 - special 3D control connector
 - optional automatic turret to mount polarizers in front of lens when displaying 3D content

UNRIVALED EASE OF USE

- One-Touch Operation and Memory Functions - Direct-select buttons for eight stored projector configurations; simplify display of different aspect ratios through pre-set lens shift position, zoom and focus, and lamp power settings.
- Auto Lamp Brightness Control - Maintains constant brightness of the lamp by adjusting the lamp power as the lamp ages. These projectors optimize lamp performance and ensure the brightest and most uniform image possible for the life of the lamp.
- Trouble-Free Lamp Replacement - Maintenance personnel can replace lamps simply from the back of the projector even in a cramped space
- Intuitive keypad layout provides for easy operator control



* Subject to installation conditions. Maximum screen width is under the conditions of 14-ft-L luminance @screen gain 1.8

** Digital Cinema System Specifications Compliance test applied for

Specifications for NC3240S/NC3200S/NC2000C/NC1200C

MODEL	NC3240S	NC3200S	NC2000C	NC1200C
Projection Method	3-chip DMD reflection method			
Primary Lenses	For 1.38" DLP Chip: 1.13 to 1.31:1 zoom / 1.13 to 1.66:1 zoom / 1.30 to 1.85:1 / 1.44 to 2.17:1 zoom / 1.63 to 2.71:1 zoom / 1.95 to 3.26:1 zoom / 2.71 to 3.89:1 zoom	For 1.25" DLP Chip: 1.25 to 1.45:1 zoom / 1.44 to 2.5:1 zoom / 1.6 to 2.4:1 zoom / 1.8 to 3.0:1 zoom / 2.15 to 3.6:1 zoom / 3.0 to 4.3:1 zoom	For 0.98" DLP Chip: 1.2 to 1.8:1 zoom / 1.4 to 2.05:1 zoom / 1.59 to 2.53:1 zoom / 1.9 to 3.25:1 zoom / 2.4 to 3.9:1 zoom / 3.9 to 6.52:1 zoom	
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	NC-32PS01 (7kW LPSU): 33,000 lumens (when using USHIO DXL-70SN 7kW lamp*) NC-32PS02 (4kW LPSU): 24,000 lumens when using Ushio DXL-41SN 4kW lamp)	18,300 lumens when using NEC 4kW high-efficiency Xenon lamp bulb		9700 lumens when using 2kW high-efficiency Xenon lamp bulb
Contrast Ratio	2000:1 (full on/off)		2200:1 (full on/off)	
Resolution	4096 x 2160		2048 x 1080	
Lamp Bulbs	NEC high-efficiency Xenon NC-32PS01 (7kW LPSU): 0.5kW/6kW/7kW lamp bulb NC-32PS02 (4kW LPSU): 4kW lamp bulb Standard film projector lamp bulbs listed by NEC	NEC high-efficiency Xenon (NEC 4.5kW/6kW/7kW lamp bulb)	NEC high-efficiency Xenon (NEC 4kW lamp bulb / NEC Long life Xenon (NEC 4kW lamp bulb)	NEC high-efficiency Xenon (2kW lamp bulb)
Supported Screen Size (max)	NC-32PS01 (7kW LPSU): 32m / 105 ft.* NC-32PS02 (4kW LPSU): 22m / 72 ft.*		65 ft. / 20m*	
Cooling Method	<ul style="list-style-type: none"> Liquid cooling inside, air cooling with dust-preventing electrostatic filter Total thermal dissipation: 35850 BTU with NC-32PS01/7kW lamp (7kW LPSU), 19800 BTU with NC-32PS02/4kW lamp (4kW LPSU) Projector exhaust: Top mounted Demand of exhaust duct: NC-32PS01 (7kW LPSU): 565CFM (16m³/min) / NC-32PS02 (4kW LPSU): 460CFM (13m³/min) 		<ul style="list-style-type: none"> Liquid cooling inside, air cooling with dustpreventing electrostatic filter Total thermal dissipation: 20500BTU (Input 4kW power to NEC 4.0kW lamp bulb) Projector exhaust: Top mounted Demand of exhaust duct: 460CFM (13m³/min) 	
Fan Noise	NC-32PS01 (7kW LPSU): 66dB NC-32PS02 (4kW LPSU): 60dB		< 62dB	
DMD Specifications	1.38" DLP chip, 12° tilt angle	1.25" DLP chip, 12° tilt angle	0.98" DLP chip, 12° tilt angle	
Input Terminals	HD-SDI port [BNC] x 4 / DVI port [DVI-digital] x 2			
External Control	LAN port [RJ-45] x 1 / 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 / General purpose I/O for 3D (D-sub [15-pin] x 1) / Remote control connector x 1			
Power Supply Voltage	Projector power supply unit: 100 to 240V AC, 50/60Hz, single phase NC-32PS01 (7kW LPSU): 200 to 230V / 380 to 415V AC, 50/60Hz, 3 phases NC-32PS02 (4kW LPSU): 200 to 240V AC / 50/60Hz, single phase		C1 Connection** Projector and Lamp power supply unit: 200 to 240V AC, 50/60Hz, single phase C2 Connection*** Projector power supply unit: 100 to 240V AC, 50/60Hz, single phase Lamp power supply unit: 200 to 240V AC, 50/60Hz, single phase	
External Dimensions	Projector head: 27.6 x 44.3 x 19.8 in. / 700 x 1124 x 503mm <i>Excluding lens, lens hood and exhaust stack.</i> 7kW LPSU: 23.4 x 15.7 x 17.8 in. / 594 x 398 x 452mm 7kW LPSU: 23.4 x 15.7 x 15.5 in. / 594 x 398 x 394mm <i>Excluding lens, lens hood, exhaust stack and handle. Including feet.</i>		27.6 x 39 x 19.8 in. / 700 x 990 x 503mm <i>Excluding lens, lens hood and exhaust stack. Including feet.</i>	
Weight	213.5 lbs. / 97 kg (Projector head) 115 lbs. / 52 kg (Lamp power supply unit) <i>Excluding lens and lamp bulb.</i>		218 lbs. / 99 kg <i>Excluding lens and lamp bulb.</i>	
Environment	Operational temperatures: 50-95°F / 10-35°C Humidity: 10% - 85% (non-condensing) Storage temperatures: 14-122°F / -10 50°C Humidity: 10% - 85% (non-condensing)			
Regulations	USA: UL60950 FCC Class A / Canada: CSA60950 ICES-003 Class A / Europe: EN60950 EN55022 1988, Class A/EN55024-1998/EN61000-3-11/EN61000-3-12 (Marking: TUV-GS, CE) / Oceania: EN60950 AS/NZS3548 Class A 1995/+A 1/2:1997 / Japan: J60950 VCCI Class A (Marking PSE, S-TUV) / Asia: EN60950 CISPR Pub22 / Korea: K00022 Class A/K00024/K61000-3-11 (Marking IMC)			
Limited Warranty (parts & labor)	2 years			
Ships With	Lens holder (to attach to primary lens); User manual		User manual	
Optional Accessories	4K Upgrade Kit (NC-32UP4K01), Metal Filter (NC-65MF01 for NC1200/NC200 and NC-75MF01 for NC3200/NC3240), Air Filter (NC-80AF01/NC-80AF02), Input Terminals (NC-80DS01/NC-80LB01****)			

* Subject to installation conditions. Maximum screen size is under the conditions of 14-ft-L @ screen gain 1.8

** When the AC power to the projector power supply and the lamp power supply are provided by a single cable

*** When the AC power to the projector power supply and the lamp power supply are provided by separate cables

**** HD-SDI port (BNC) x 4 / DVI port [DVI-D] x 2

NC-80LB01: enigma is built-in / for connection with external 2K legacy server

NC-80DS01: enigma is not built-in / this board is required when IMB is built-in the projector