

Digital Cinema Projector Series

NC3200S, NC2000C and NC1200C projectors

Using DLP Cinema® technology from Texas Instruments®, NEC's improved 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: NC3200S for the largest cinema screens (up to 105-foot wide*); NC2000C for medium-sized screens (up to 65-foot wide*); and NC1200C for small theatres, screening rooms and post-production facilities with screen sizes up to 46-foot wide*. Together with the new, optional integrated NEC 2K/4K Media Block and NEC Local Storage Server**, they provide complete and compelling industry solutions for showing digital movies.



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

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

INDUSTRY-LEADING MEDIA BLOCK - ONE-STOP SOLUTION

- NEC optional 2K/4K Media Block** - Internal design for content management, screen management and higher security, providing greater peace of mind
- Designed to work with third-party company legacy media blocks and servers

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
- 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 is the brightest digital cinema projector available, boasting 31,000 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

** NEC optional Media Block and Local Storage Server available late in 2010

*** Digital Cinema System Specifications Compliance test applied for



Specifications for NC3200S/NC2000C/NC1200C

MODEL	NC3200S	NC2000C	NC1200C
Projection Method	3-chip DMD reflection method		
Primary Lenses	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 / 4.3 to 6.0:1 zoom	For 0.98" DLP Chip: 1.3 to 1.75:1 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 6.5:1 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	31,000 lumens when using NEC 7.0KW high-efficiency Xenon lamp bulb	17,000 lumens when using NEC 4.0KW high-efficiency Xenon lamp bulb	9000 lumens when using 2.0KW high-efficiency Xenon lamp bulb
Supported Screen Size (maximum)	32m / 105 ft.*	20m / 65 ft.*	14m / 46 ft.*
Contrast Ratio	2200:1 (full on/off)		
Lamp Bulbs	NEC high-efficiency Xenon (NEC 4.5KW/6KW/7.0KW lamp bulb)	NEC high-efficiency Xenon (NEC 4.0KW lamp bulb / NEC Long life Xenon (NEC 4.0KW lamp bulb)	NEC high-efficiency Xenon (2.0KW lamp bulb)
DMD Specifications	1.25" DLP chip, 12° tilt angle 2048 x 1080 pixels	0.98" DLP chip, 12° tilt angle 2048 x 1080 pixels	
Cooling Method	<ul style="list-style-type: none"> Liquid cooling inside, air cooling with dust-preventing electrostatic filter Total thermal dissipation: 35500BTU Projector exhaust: Top mounted Demand of exhaust duct: 565CFM (16m³/min) 	<ul style="list-style-type: none"> Liquid cooling inside, air cooling with dust-preventing electrostatic filter Total thermal dissipation: 18800BTU (Input 4KW power to NEC 4.0KW lamp bulb) Projector exhaust: Top mounted Demand of exhaust duct: 460CFM (13m³/min) 	<ul style="list-style-type: none"> Liquid cooling inside, air cooling with dust-preventing electrostatic filter Total thermal dissipation: 10600BTU Projector exhaust: Top mounted Demand of exhaust dust: 350CFM (10m³/min)
External Controls	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		
Input Terminals	HD-SDI port [BNC] x 4 / DVI port [DVI-digital] x 2		
Fan Noise	Less than 66dB		
Power Supply Voltage	Projector power supply unit: 100 to 240V AC, 50/60Hz, single phase Lamp power supply unit: 200 to 230V / 380 to 415V AC, 50/60Hz, 3 phases	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	
Rated Input Current	Projector head: 3.5A Lamp power supply unit: 16A	C1 Connection** Projector power + lamp power 30A@200V C2 Connection*** Projector power: 5A@100V, 2.5A@200V Lamp power: 27A	C1 Connection** Projector power + lamp power 19A@200V C2 Connection*** Projector power: 5A@100V, 2.5A@200V Lamp power: 14A
Power Consumption	Projector head: 700W Lamp power supply unit: 9700W Total: 10400W	Projector power supply unit: 500W Lamp power supply unit: 5000W Total: 5500W	Projector power supply unit: 500W Lamp power supply unit: 2600W Total: 3100W
External Dimensions (W x D x H)	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> Lamp power supply unit: 23.4 x 15.7 x 17.8 in. / 594 x 398 x 452mm <i>Excluding lens, lens hood, exhaust stack and handle. Including feet.</i>	27.6 x 39 x 19.80 in. / 700 x 990 x 503mm <i>Excluding lens, lens hood and exhaust stack. Including feet.</i>	
Weight	Projector head: 218 lbs. / 99 kg Lamp power supply unit: 115 lbs. / 52 kg <i>Excluding lens and lamp bulb.</i>	218 lbs. / 99 kg <i>Excluding lens and lamp bulb.</i>	Approx. 203 lbs. / 92 kg <i>Excluding lens and lamp bulb.</i>
Environment	Operational temperatures: 50°F - 95°F / 10°C - 35°C Humidity: 10% - 85% (non-condensing) Storage temperatures: 14°F - 122°F / -10°C - 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)		
Standard Equipment	Lens holder to attach to primary lens, user manual	User manual	
Optional Accessories	Wide converter lens and motorized turret, built-in alternative content processor, optional input boards for alternative content processor, air filter, Internal Media Block (NC-80MB01)****, Local Storage Server (NC-80SS01)****		
Limited Warranty	2 years, parts and labor		

* 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

**** Available in late 2010



DLP Cinema® Technology

2009 Academy Scientific and Engineering Award
for Color Accuracy

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