NEC NEXT GENERATION SERIES 2

DIGITAL CINEMA PROJECTORS

THE FUTURE OF CINEMA VIEWING

2K AND 4K 3D DIGITAL CINEMA PROJECTORS

NC1200C | NC2000C | NC3200S | NC3240S DC Projectors
Bring your establishment into the future with a ‘Next Generation’ NEC Digital Cinema Projector.

Delivering the most exceptional image quality, brightness, resolution, and colour together with a wealth of new revenue generation opportunities and backed by the trusted performance of one of the biggest names in Digital Cinema Technology. An ideal solution for theatres and cinema events.

Worldwide box office takings reached an all-time high in 2009 of $29.9 billion, driven by Digital and 3D Screens that are bringing in record repeat business and driving up ticket prices.

Source: USA Today March 2010 - Motion Picture Association of America

DIGITAL CINEMA SERIES 2 PROJECTORS

DIGITAL CINEMA DELIVERS GENUINE BENEFITS

GENERATE GREATER PER SEAT REVENUE
Achieve additional income from showing higher quality more entertaining media and charging premium rates.

PLAN CAPTIVATING 3D AND 4K CONTENT
Take your establishment into the next generation 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.

PLAY CAPTIVATING 3D AND 4K CONTENT
Take your establishment into the next generation 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 servicing options you can enjoy better quality imaging whilst experiencing an overall lower cost of ownership.

VERSATILE MEDIA MANAGEMENT
Easy scheduling, distribution of movies and additional Media with copyright and licensing management together with simple and advanced control via a network.

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DIGITAL CINEMA SERIES 2 PROJECTORS

NC3240S
1.38” DLP Chip 4K (4096 x 2160) 33000 Lumen

NC3200S
1.2” DLP Chip 2K (2048 x 1080) 33000 Lumen

NC2000C
0.98” DLP Chip 2K (2048 x 1080) 18300 Lumen

NC1200C
0.98” DLP Chip 2K (2048 x 1080) 9700 Lumen

COMPLETE SCREEN SIZE COVERAGE FROM SMALL TO LARGE SCREENS

DIGITAL CINEMA supports all the way up to 200+ million buyers to Digital and 3D Screens that are bringing in record repeat business and driving up ticket prices.

Source: NEC Digital Cinema - Motion Picture Association of America

TOTAL SERVICE SOLUTIONS

World Leading Cinema Projectors with a World Leading Backup Service

A QUICK RESPONSE MONITORING SERVICE FOR YOUR PROJECTORS

NEC now offer an unrivalled support service to support chain installations of our Digital Cinema Projectors. A service that can guarantee professional support for a wide installation base and secure effective spare parts supply.

Benefits include:

- Live monitoring for any quantity of projectors with all installation details (Lamps, temperature, voltages, automation).
- An automated system with GPS technology improving time for logistics support.
- Remote access for online service from any place.
- A Complete secure and closed solution.
- Database for ASP to improve Quality and Service.
- Clear Cost reductions on Service and Support.
- Manpower reduction and time optimisation.

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mulitplex.
never been easier - and they can all be controlled from anywhere in
TOTAL FLEXIBILITY
from the source, just as the producers intended it to be seen.
QUALITY FOR THE LONG TERM
playing the most captivating content at super large size will create an
outstandingly memorable experience for your viewers.
STUNNING COLOURS WITH 4K RESOLUTION AND 3D CAPABILITY
Digital Cinema projectors deliver exceptional image quality, brightness, lightness, contrast, colorimetry and economy. NEC DLP and the projectors are
designed with a focus on quality and ease-of-use for many theatre
of all sizes.
Digital reproduction there are none of the deterioration issues that
With digital reproduction there are none of the deterioration issues that
reproduce film. This means your viewers see it straight
industry solutions for showing digital movies.
Digitally projected film cuts down dramatically on the labor costs, paper
and lamp power settings.
Digital Cinema Series projectors are fully compliant with DCI requirements. Using
DLP Cinema® technology from Texas Instruments®, NEC’s Digital Cinema
projectors deliver exceptional image quality, brightness, lightness, contrast, colourimetry and economy. NEC DLP and the projectors are
designed with a focus on quality and ease-of-use for movie theatres
of all sizes.
PLAY VIRTUALLY ANY MEDIA
The Auto Lamp Brightness Control feature maintains constant brightness of
the lamp by adjusting the lamp power as the lamp ages.

NEC’s 2K and 4K projectors are
comprehensive media management system to easily exchange the
digital and analog signal from external sources.

DERIVING THEVAI'S QUALITY
Miniview transducers help reduce maintenance costs.

NEW ADVANCED CAPABILITY
UNRIVALED EASE OF USE
- Remote one-click firmware update via network from long distances.
- Built-in web server allows you to access and control projectors from
test and error log analysis.
- Quick and easy troubleshooting by self-diagnosis with built-in system
diagnosis.
- Truly modular electronics; custom DMD shielding gaskets and
clear electronic layout and wiring.
- Easy prism replacement can be completed in only a few minutes.
- Clear electronic layout and wiring.
- Industry-leading system service and support:
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**HIGH RESOLUTION CONTENT PLAYBACK**

Utilising DLP Cinema Technology from Texas Instruments. Exceptional image and colour quality with contrast ratios of 2200:1 or higher by using DMD chips that support a resolution of 4096 x 2160. This projector faithfully reproduces digital cinema and high-definition input sources requiring superior colour reproduction and noise reduction.

**HIGH RELIABILITY**

Newly designed separate cooling system creates positive air pressure internally to prevent contaminations from entering the optical and electronic system. Lamp cooling air flow is separate from the main optics and electronics.

**AUTOLAMP BRIGHTNESS AND CONTROL**

Minimise fluctuations that occur during the lamp's life. The brightness level will not decrease as the lamp is consumed. These projectors optimise lamp performance and ensure the brightest and most uniform image possible for the life of the lamp.

**MINIMAL MAINTENANCE AND SIMPLE OPERATION**

Trouble-Free lamp replacement. Technicians can replace lamps simply from the back of the projector even in cramped space. One touch operation, ergonomic keyboard layout and memory functions. Optional scaler/switcher for alternative content processing.

**BUILT IN WEBSERVER**

Access and control projectors from any authorised web browser.

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### THE FUTURE OF CINEMA VIEWING

- Industry's first lens and first lamp memory and industry's first separable airflow
- Super Hi-Res resolution available
- High Power Ratio (HRP) Support (High, Extra High)
- Dust detection system and lamp with lamp replacement from the back and easy lamp adjustment
- Quick cleaning and maintenance with dotted oil resistance
- Working with all 3D systems in market
- Trip lock in full 2K resolution standard
- Non-drop compatible
- Zero B/V Source development

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### ENHANCED FEATURES

**4096 x 2180 RESOLUTION**

- **ANIMATED MOVIES**

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### Choosing the Optimum DC Solution

<table>
<thead>
<tr>
<th>Model</th>
<th>Resolution</th>
<th>Brightness</th>
<th>Screen Width</th>
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<th>Screen Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>NC3240S</td>
<td>1.38” DLP</td>
<td>33000 Lumen</td>
<td>At screen gain of 1.3/14-ft-L 25M</td>
<td>At screen gain of 1.8/14-ft-L 32M</td>
<td>256</td>
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<tr>
<td>NC3200S</td>
<td>1.25” DLP</td>
<td>33000 Lumen</td>
<td>At screen gain of 1.3/14-ft-L 25M</td>
<td>At screen gain of 1.8/14-ft-L 32M</td>
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<tr>
<td>NC2000C</td>
<td>0.98” DLP</td>
<td>18300 Lumen</td>
<td>At screen gain of 1.3/14-ft-L 17M</td>
<td>At screen gain of 1.8/14-ft-L 20M</td>
<td>256</td>
</tr>
</tbody>
</table>

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### NC2000C

- Suitable for the majority of cinemas.
- DLP Cinema Chip: 0.98” DLP
- Resolution: 2048 x 1080
- Brightness: 18300 Lumen
- Screen Width: 17M
- At screen gain of 1.3/14-ft-L: 17M
- At screen gain of 1.8/14-ft-L: 20M

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### NC1200C

- Suitable for smaller screens and post production.
- DLP Cinema Chip: 0.98” DLP
- Resolution: 2048 x 1080
- Brightness: 9700 Lumen
- Screen Width: 12M
- At screen gain of 1.3/14-ft-L: 12M
- At screen gain of 1.8/14-ft-L: 14M

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*Subject to installation conditions. Contrast ratio of NC3240S-A is 2000:1 when iris mounted.
Displaying the most outstanding and innovative content can have a demonstrable effect on helping to save our planet’s resources and eliminate waste. NEC’s unique lower cost of ownership proposition means a longer life cycle and less cost and less waste. More importantly digital means eliminating 35mm media with its harmful production and disposal implications.

**Ecological Innovation:**
Using the latest IT Communications and Security Features media can be safely transferred without involving couriers or physical production of any media.

**Ecological Materials:**
Minimal Use of Harmful Materials. Digital Media means virtual production with massive savings on resources from a movie’s initial concept to its premiere and distribution.

**Reduced Consumption:**
Less power usage, eliminate waste and landfill implications associated with 35mm Media.
### PROJECTOR SPECIFICATIONS

**NC3240S**
- **Type**: 1.38” DLP Chip
- **Screen**: 4K (4096 x 2160)
- **Lumen**: 33000 Lumen
- **Cooling system**: Projector exhaust: Top mounted
- **Demands of exhaust duct**: 565CFM (16m³/min) w/ NC-32PS01(7kW LPSU) ** 460CFM (13m³/min) w/ NC-32PS02(4kW LPSU)
- **Power Consumption**: Total: 9,955W (max.)
- **Lamp bulbs**: Compatible standard film projector lamp bulbs listed by NEC
- **Contrast ratio**: 2200:1 (full on/off) ***
- **Zoom ratio**: NC1200C  0.98 to 1.6:1 zoom  
  NC3200S  0.98" DLP Chip
- **Proportion magnification**: 1.25 to 1.31:1 zoom  
  NC2000C  1.2" DLP Chip
- **Projection magnification**: 2.15 to 3.6
- **External dimensions**: NC3240S(Projector head): 27.6 x 44.3 x 19.8 in. / 700 x 1124 x 503mm Excluding lens, lens (Marking: TUV-GS, CE) / NC1200C: 22.4 x 29.3 x 25.4 in. / 570 x 745 x 650mm NC3200S: 22.4 x 28.3 x 27.6 in. / 570 x 719 x 702mm
- **Weight**: NC1200C  203lbs. / 92kg (excluding lens and lamp bulb)  
  NC3240S(Projector head): 213.8 lbs. / 97 kg Excluding lens and lamp bulb.
- **Power supply voltage**: 100 to 240V AC, 50/60Hz, single phase
- **Installation stand**: Optional Pedestal (no power supply)

**NC2000C**
- **Type**: 0.98” DLP Chip  
  2K (2048 x 1080) Upgradeable to 4K
- **Lumen**: 18300 Lumen
- **Cooling system**: Projector exhaust: Top mounted
- **Demands of exhaust duct**: 460CFM (13m³/min)
- **Power Consumption**: NC2000C: 200 to 240V AC 50/60Hz, single phase, 16.5A  
  NC3240S: 200 to 240V AC 50/60Hz, single phase, 30A
- **Lamp bulbs**: Compatible standard film projector lamp bulbs listed by NEC
- **Contrast ratio**: 22500:1 (full on/off) **
- **Zoom ratio**: NC2000C: 1.30 to 1.85:1 zoom  
  NC3200S: 1.13 to 1.66:1 zoom  
  NC1200C: 1.13 to 1.31:1 zoom
- **Proportion magnification**: 1.25 to 1.31:1 zoom  
  NC2000C: 1.2" DLP Chip
- **Projection magnification**: 2.15 to 3.6
- **External dimensions**: NC2000C: 22.4 x 29.3 x 25.4 in. / 570 x 745 x 650mm NC3200S: 22.4 x 28.3 x 27.6 in. / 570 x 719 x 702mm
- **Weight**: NC3200S: 223 lbs. / 101 kg (excluding lens and lamp bulb)
- **Power supply voltage**: NC2000C: 100 to 240V AC, 50/60Hz, single phase
- **Installation stand**: Optional Pedestal (no power supply)

**NC3200S**
- **Type**: 1.21” DLP Chip  
  2K (2048 x 1080)
- **Lumen**: 33000 Lumen
- **Cooling system**: Projector exhaust: Top mounted
- **Demands of exhaust duct**: 565CFM (16m³/min) w/ NC-32PS01(7kW LPSU) ** 460CFM (13m³/min) w/ NC-32PS02(4kW LPSU)
- **Power Consumption**: Total: 9,955W (max.)
- **Lamp bulbs**: Compatible standard film projector lamp bulbs listed by NEC
- **Contrast ratio**: 22000:1 (full on/off) ***
- **Zoom ratio**: NC-50LS21Z  1.95 to 3.26:1 zoom  
  NC-50LS18Z  1.8 to 3.0:1 zoom  
  NC-50LS16Z  1.6 to 2.4:1 zoom  
  NC-50LS14Z  1.30 to 1.85:1 zoom  
  NC-60LS39Z 3.9 to 6.52:1 zoom  
  NC-60LS24Z 2.4 to 3.9:1 zoom  
  NC-60LS16Z 1.59 to 2.53:1 zoom  
  NC-60LS12Z 1.25 to 1.5:1 zoom  
  NC1200C: 1.25 to 1.31:1 zoom  
  NC1200C: 1.2" DLP Chip
- **Proportion magnification**: 1.25 to 1.31:1 zoom  
  NC2000C: 1.2" DLP Chip
- **Projection magnification**: 2.15 to 3.6
- **External dimensions**: NC3200S: 22.4 x 28.3 x 27.6 in. / 570 x 719 x 702mm
- **Weight**: NC3200S: 223 lbs. / 101 kg (excluding lens and lamp bulb)
- **Power supply voltage**: 100 to 240V AC, 50/60Hz, single phase
- **Installation stand**: Optional Pedestal (no power supply)
Expansion Slots to Support a Multitude of Diverse Input Formats.

Easy access to all important electronic boards are accessible from one side; there is just one side panel to remove.

**Built-in Multi-Media Switcher MM3000B**

- Slot A: NC-80LB01 (standard)
- Slot B: 1 board selectable from below 2 options
  - IMB (NC-80MB01 or third party IMB) or MM3000B

**NC1200C-A /NC2000C-A /NC3200S-A /NC3240S-A (NC-80LB01 not built in)**

- Slot A: 1 board selectable from 3 options NC-80LB01, NC-80DS01 or IMB (NC-80MB01 or third party IMB)
- Slot B: 1 board selectable from 2 options IMB (NC-80MB01 or third party IMB) or MM3000B

**High-Quality Video**

- Integrated Realta® video processor with Hollywood Quality Video (HQV®) technology
- 3-D motion adaptive de-interlacing with multi-directional diagonal filter for standard-definition (SD) and high-definition (HD)
- Multi-cadence detection including automatic detection of 3:2 / 2:2 pull-down signals and many other film formats
- Per-pixel motion adaptive noise reduction for SD
- Per-pixel detail enhancement brings out more visible details
- Full 10-bit image processing for SD, HD and video sources
- High contrast images with NEC’s unique contrast enhancement technology for SD

**Easy to Operate**

- One-touch selection of input signals from NEC Digital Cinema Projector Series models
- Quick and flexible connection of input signals from two input modules

**Standard Input Boards**

- HDCP-compliant DVI input board (MM-70DV01)
- Analog/RGB input board (MM-RGB-E)

**Optional Input Boards**

- Single HD-SDI input board (MM-SDI-E)
- Video input board (MM-Video-E)

*HQV(R) powered by Teranex(R)* is used by Geo Semiconductor under license from Integrated Device Technology, Inc. and Teranex Systems Inc. “HQV” is short for Hollywood Quality Video and is a registered trademark of Integrated Device Technology, Inc. “Teranex” is a registered trademark of Teranex Systems Inc. “Realta” is a registered trademark of Geo Semiconductor, Inc. in the United States.

**Interface and Options**

**Back-in-Multi-Media Switcher MM3000B**

- Dedicated pedestal
- 4KW power Supply Option NC-32PS02
- Filter Sets NC-80AF01 and NC-80AF02

*Optional products and accessories are subject to change without prior notice. Contact your local dealer for more information.*

**NC1200C/NC2000C/NC3200S (NC-80LB01 built in)**

- Dedicated pedestal
- 4KW power Supply Option NC-32PS02
- Filter Sets NC-80AF01 and NC-80AF02

**Optional 4K Power Supply NC-32PS02**

For use with NC3240S or NC3200S with smaller screens

*MM3000B MultiMedia Switcher*

Alternative Content Processor

The built-in MM3000B is available for all models of the NEC Digital Cinema Projector Series.

Ideal as a built-in enhancement of NEC Digital Cinema Projectors, the MM3000B converts video signals from various external sources such as PCs, analog/digital tape decks and satellite receivers to allow DLP Cinema® projectors to screen everything from live concerts and sporting events to computer presentations.

INTEGRATED DEVICES TECHNOLOGY, INC.

It is a high-performance video processing/scaling system designed for computer signals as well as standard and high-definition video. The technology produces superior video processing using pixel-based, motion-adaptive de-interlacing to remove undesirable motion artifacts typical of interlaced signals. This processing creates life-like images in applications such as video conferencing.

STANDARD INPUT BOARDS

- HDCP-compliant DVI input board (MM-70DV01)
- Analog/RGB input board (MM-RGB-E)

OPTIONAL INPUT BOARDS

- Single HD-SDI input board (MM-SDI-E)
- Video input board (MM-Video-E)

Contact your local dealer for more details. Please use NEC certified digital xenon lamps listed on the below URL:

A Simple One Stop Solution

NEC’s industry-leading integrated 2K/4K Media Block and Local Storage Server combined with your NEC Digital Cinema Projector offer the ideal one stop solution for simple, fast and single service source Digital Cinema setup.

These introductions make NEC the only manufacturer in the market to offer

- A Simple One Stop Solution for simple, fast and single service source Digital Cinema setup.
- A flexible connection via GigaBit Ethernet, the easiest and most reliable connection.
- Both 2K and 4K content playback.
- AES-3, Balanced Digital 16 channels audio.
- High security, providing greater peace of mind.
- Original Pin assignments via projector Ethernet.
- Multi-directional filtering method.
- 2 slots (MM-RGB-E and MM-70DV01 as standard).
- Through 2K & 4K DCI Format, Upgradable into 4K DCI format.
- Through Content management from the projector.
- The media block controls all necessary content, security, and screen management.
- Provides control of Media Block from the projector.
- Non-interference between projectors and existing screen server.

System with Legacy IMB

Digital Cinema Projector
- Multi-Display functions + Projector functions

MM-VIDEO-E

MM-70DV01

MULTIMEDIA SWITCHER

MM-RGB-E

MM-SDI-E

Audio
- Analogue RGB
- Component video
- S-video
- Composite video
- Digital audio
- Audio input

Image input
- Image input
- Image input

Image output
- Image output

Audio output
- Audio output

Option Specifications

Option Name
- Media Block functions + Projector functions
- Content management
- Security
- Screen management

Higher security with no interference problems