

# CINEMA SOLUTIONS



Empowered by Innovation

**NEC**

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Cinema is not only about watching a movie on a big screen, today it's a social night out with a partner or friends. Watch a preview of the "Coming Soon" Blockbusters or take time to enjoy a beverage or burger at a food bar whilst taking in the digital visual information around you before stepping into the theatre where you will experience a new standard in reality with 4k / 3D playback.

Alternatively view live events in an audio-visual installation projection environment or open air cinema that has all the atmosphere of being at the event itself.

## PERFORMANCE YOU CAN TRUST

NEC stands for product quality and design perfection with a reputation for reliability and an enviable pan-European support infrastructure to back it up. Installing an NEC Digital Cinema Projector or Display Solution means you can trust in our equipment and our company culture. Designed for long term operation, NEC displays and projectors incorporate innovative designs, high quality panels and components and go through demanding quality assurance levels; ready for the most demanding mission critical applications, out of the box.

## THE WIDEST PORTFOLIO OF DISPLAY SOLUTIONS OF ANY SUPPLIER

Today NEC boasts a comprehensive range of Desktop Displays, Large Format Displays and Projectors, with a model for almost any application from the largest venues or public places to offices and smaller classrooms. NEC is one of the world's largest IT companies, with the display division operating 13 local sales and support offices across Europe, Middle East and Africa.

For more information please visit: [www.digital-cinema-nec.com](http://www.digital-cinema-nec.com)



## PROJECTION ROOM



### THE NEC LASER ADVANTAGE

#### 20.000H BRIGHTNESS WITHOUT ANY LAMP CHANGE

Delivers exceptional brightness with lower operating costs. The Laser Light source system enables a typical 20,000 hour lifetime without any need to replace the lamp. This lifetime can even be extended if smaller screens don't require full brightness. At the end of its lifetime a Laser Source can be easily replaced.

#### NATURAL DCI COLOURS DURING THE ENTIRE LASER LIFE

A highly precise NEC Laser Colour Management system, based on our long experience of staging projectors development brings outstanding colour accuracy to our industry leading projectors with the NC1100L and the NC1040L being the world's first DCI certified laser projectors.

#### COMPACT PROJECTOR SIZE

The NEC Digital Cinema range includes the world's most compact Digital Cinema Laser Projector, which fits perfectly also in very small projection booths. Cost-effective and easily maintained an ideal choice for smaller venues.

#### NO BLACK SCREEN

The design includes many Laser Diodes which enable redundant, stable light output without any black screen.

#### EASY PROJECTOR TRANSPORTATION

Another great benefit for these projectors is the portability, as there is no need to remove the lamp for transportation.

#### NO EXTERNAL PROJECTOR EXHAUST NECESSARY

Low heat emission because of low power consumption enables easy booth construction without exhaust extraction requirements.

#### VERY LOW DECREASING BRIGHTNESS OF LASER COMPARED TO LAMP

Maintains the best image quality over time, with very stable brightness over years.

#### NO LAMP COST, NO LAMP REPLACEMENT AND NO LAMP STOCKING ANYMORE

No need to change any lamp or to stock lamps for emergency exchange.

#### EXTREMELY WIDE COLOUR GAMUT

Amazing pure vivid colours which never had been seen before due to a much wider colour space than possible with Xenon Light.

#### SCALABLE BRIGHTNESS

Adjustable laser power from 30% to 100% enables very flexible brightness adjustment for 3D or for 2D shows on same screen.

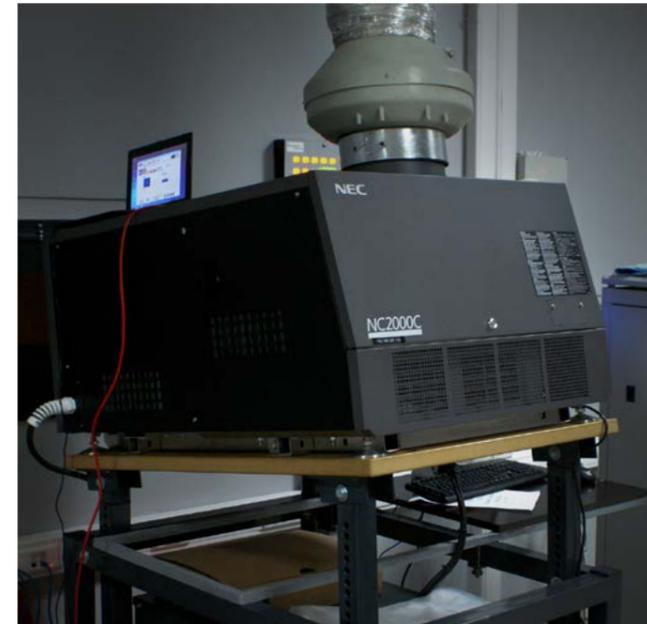
#### LOWER TCO

Comprehensive cost savings with lower power consumption, less air condition, no lamp replacement cost, long filter life and nearly no maintenance cost.

### PERFORMANCE YOU CAN TRUST

NEC Series 2 Projectors are fully compliant with DCI requirements. 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 and 4K projectors are designed with a focus on quality and ease-of-use for movie theatres of all sizes.

Together with the new NEC Integrated Server, they provide complete and compelling industry solutions for showing digital movies.



### STUNNING COLOURS WITH 4K RESOLUTION AND 3D CAPABILITY

With the highest brightness, highest contrast and consistent screen colours on all screens, combined with the new ultra high 4K resolution, playing the most captivating content at super large size will create an outstandingly memorable experience for your viewers.

### QUALITY FOR THE LONG TERM

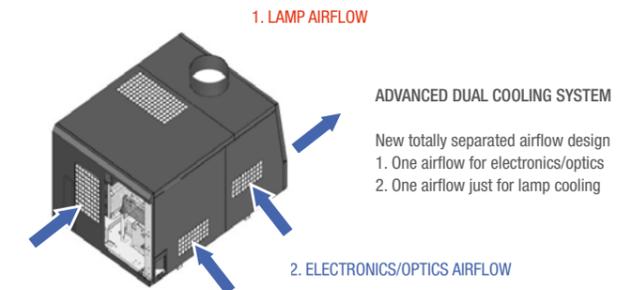
With digital reproduction there are none of the deterioration issues that can arise from reproducing film. This means your viewers see it straight from the source, just as the producers intended it to be seen.

### TOTAL FLEXIBILITY

Another advantage of digital projection is its flexibility and ease of use. Managing play-lists or uploading film and performing playbacks has never been easier - and they can all be controlled from anywhere in the multiplex.

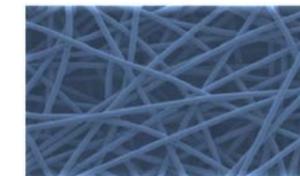
### INNOVATIVE AIRFLOW MANAGEMENT AND FILTERING

New completely independent airflow systems help secure best in class reliability with one airflow section for electronics/optics and another strictly for lamp cooling.



This new system prevents any cross contamination between sections. In addition, advanced dust/oil impregnation prevention is achieved with higher internal air pressure and specially designed high tech electrostatic fiber filters that can be exchanged from outside the projector without any special tools.

### FIBRE FILTER

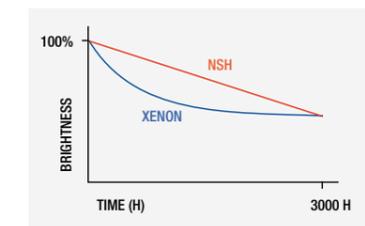


**HIGH TECH ELECTROSTATIC FIBRE FILTERS**

Electron microscope scan photo of filter

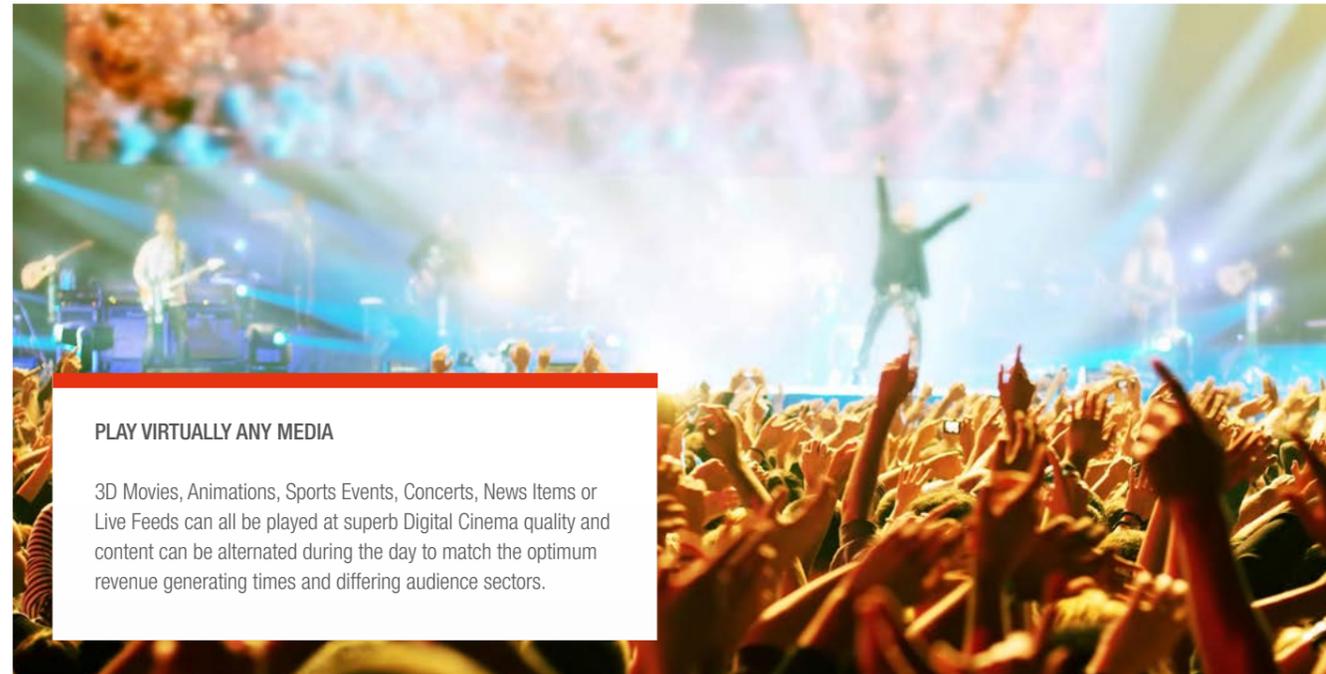
### DUAL LAMP NSH SYSTEM

NEC have created the first Dual Lamp NSH System in NC900C. Easy Dual Lamp System ensures no Black Screen, if one lamp is end of life, the other continues to deliver pictures. Hot swapping can take place while the projector is operating.



The Dual Lamp Solution provides many benefits including lower lamp costs, best brightness, lower power consumption, less heat production so less cooling is required, easy lamp replacement, no black screen, easy transportation and no risk of mirror damage, no external exhaust requirement and less lamp brightness reduction over time.

## PROJECTION ROOM



### PLAY VIRTUALLY ANY MEDIA

3D Movies, Animations, Sports Events, Concerts, News Items or Live Feeds can all be played at superb Digital Cinema quality and content can be alternated during the day to match the optimum revenue generating times and differing audience sectors.

### UNRIVALED EASE OF USE

One-Touch Operation and Memory Functions include Direct-select buttons for eight of 100 stored projector configurations; simplifying the display of different aspect ratios through pre-set lens shift position, zoom and focus, and lamp power settings. The Auto Lamp Brightness Control feature maintains constant brightness of the lamp by adjusting the lamp power as the lamp ages.

Series 2 projectors optimise lamp performance and ensure the brightest and most uniform image possible for the life of the lamp. Enjoy trouble-free lamp replacement, maintenance personnel can replace lamps simply from the back of the projector even in a cramped space. An intuitive keypad layout also provides for easy operator control.

A variety of lenses, projector lamps and pedestals are available. Dolby offers a special installation kit for NEC NC1200C / NC2000C / NC3200S / NC3240S Projectors, these models support all 3D technologies used in the cinema industry. The NC1100L and NC900C do not support Dolby 3D because of their very compact projector design.

### NC3240S/NC3200S CONVENIENT SERVICING

Expansion Slots Support a Multitude of Diverse Input Formats, whilst all important electronic boards are accessible from one side, there is just one side panel to remove.



\* All NEC Digital Cinema Projectors have passed the Digital Cinema System Specifications Compliance test and are listed on the DCI url: [www.dci.com/compliant\\_equipment/](http://www.dci.com/compliant_equipment/)

### IMS INTEGRATED MEDIA SERVER



NEC Media Server - Integrated design for content management, screen management and higher security, providing greater peace of mind.

IMS Servers have 2TB Storage for convenient library management and faster access and playback of movies.

### HIGH RESOLUTION CONTENT PLAYBACK

Utilising DLP Cinema Technology from Texas Instruments. Exceptional image and colour quality with contrast ratios up to 2200:1 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 wide gradation.

## DIGITAL SIGNAGE



### ENTRANCE / LOBBY

Large Format displays or the E294WMI in cinemascope format width in waiting areas playing trailers of current movies can draw people into other shows and generate future ticket sales while shortening the perceived waiting time.

NEC videowalls offer an outstanding way to showcase titles in either the Cinema Complex or displayed in the Shopping Centre where the theatre is located.

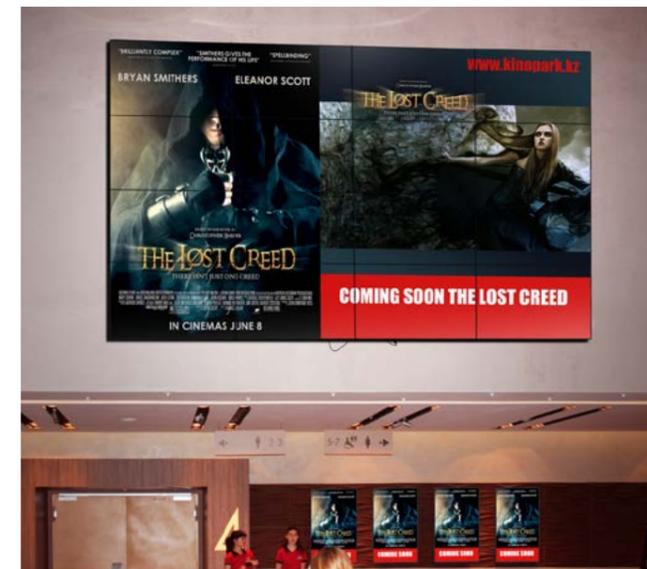
Way finding or simply displaying the movie poster at the door of the respective movie theatre are other great examples of using displays in a cinema environment. Digital Signage solutions let you change content in a split second and allow for great flexibility if movies are withdrawn or additional movies are added to your schedule.

EA294WMI in landscape in foyers is an excellent choice to playback movie trailers in correctly proportioned cinemascope format.

PRODUCTS	P SERIES, XS SERIES, V SERIES, XUN SERIES
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### ADVERTISING / CONCESSION STANDS / DIGITAL POSTER

A Large Format display with tantalising content placed above a concession stand can boost sales of popcorn, cola and other items. Instant content targeting is possible with digital signage, changing offers according to age and genre.

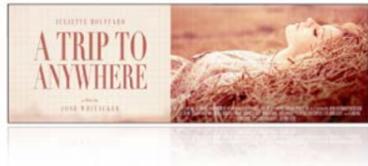


PRODUCTS	LARGE FORMAT XS SERIES, DESKTOP EA294WMI
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## DIGITAL SIGNAGE

### INDOOR AND OUTDOOR LED MODULES

LED Signage Module Solutions are the latest solution for driving more business to your venue. With their resistance to weather and temperature changes and more affordable per metre cost than traditional LCD Digital Signage, NEC LED Solutions offer an affordable high impact choice to promote your business to passing transport, pedestrians or shoppers.



LED module

Content can be easily switched between promoting off-peak content like sports events or concerts or playing trailers from the latest movies or simply displaying opening times or multiplex promotions.

PRODUCTS	LED modules
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### DOOH/VUKUNET

VUKUNET is an internet-based AdServing platform that connects all DOOH media networks in order to simplify planning, buying and the delivery of an advertising campaign. Developed by NEC it forms part of a market leading suite of digital signage products and services. Cinema operators can allocate displays and scheduled time to a host of online media agencies who will reserve space creating revenue for the venue using the simple Vukunet networked platform.

## TICKET OFFICE/BACK OFFICE



A major benefit is the flexibility to decide when you allocate the displays to bring in additional third party revenues via Vukunet and when you use them for internal promotion or other content. Vukunet is recognised as the engine that powers and unifies the DOOH industry.

For more information, please visit: [vukunet-nec.eu](http://vukunet-nec.eu)



### HIGH LIGHT OUTPUT PA SERIES, PX SERIES, PH SERIES

Perfect innovations for the toughest installations PA, PX and PH Series Projectors by NEC provide comprehensive solutions for all applications in the High Light Output Sector combining the knowledge that has helped make NEC the leading name in Digital Cinema Projection and the peace of mind that you can expect the highest levels of performance and quality that you associate NEC products.



Whether for advertising or highlighting special promotions in the cinema foyer, there is a projector in the NEC portfolio that will meet every challenge. All projectors are based on an advanced design concept mirrored from NEC Digital Cinema ranges, a unique level of functionality, connectivity and quality is assured.

PRODUCTS	PA, PX, PH Series
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### TICKET OFFICE

The NEC EX Series couples contemporary and stylish design with the industries' lowest power consumption through the use of slim LED backlighting technology, ideal for customer facing areas like the ticket-box or concession stands. The head of the EX Series displays can detached and even be placed onto a picture frame stand, if space is limited. Using state of the art edge lit LEDs, ambient light sensing and human presence sensing, considerable operation costs can be saved.

### BACK OFFICE

Film scheduling and content planning is easier and more convenient on high quality desktop monitors with large screens. The NEC EA Series is the perfect choice for any back office application.

PRODUCTS	DESKTOP EX SERIES , EA SERIES
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## SERVICE AND SUPPORT



NEC offer an unrivalled support service to support installations of our Digital Cinema Projectors. A service that can guarantee professional support for a wide installation base and secure effective spare parts supply. Agreements can be entered into locally, nationally or even across Europe.

### NOC IN PRACTICE

- The NEC NOC continually monitors all important sensors within the projector & IMB / IMS.
- In many cases the NOC will be aware of a problem before it occurs, due to heat / lack of response within the projector, etc.
- The NOC notifies the technician (either NEC or integrator) through SMS or email.
- The integrator technician will attend the site urgently
- Any spare parts required could be delivered within 4 hours

### NETWORK OPERATING CENTRE (NOC)

NEC now offer the means to easily manage and maintain the operation of the installed NEC projectors in cinemas. A software-based system, the NEC NOC provides a remote link with projectors, servers, signage and TMS, irrespective of quantity or geography. NOC operators can analyse any projector's status anywhere and either make corrections remotely, or else assign a technician to effect repairs locally.

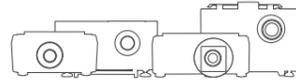
### NEC EXTENDED WARRANTY INFORMATION

Extended Warranties are available to add an additional 3 years to the standard 2 year NEC warranty.

For further information, please visit our Digital Cinema website: [www.digital-cinema-nec.com](http://www.digital-cinema-nec.com)

## PRODUCT SPECIFICATIONS

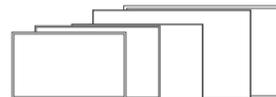
### DIGITAL CINEMA PROJECTORS



View	Model	Description	Light Source	Supported Screen Size (m)	Format
	<b>NC1100L</b>	World's first DCI certified laser projector	Laser	Up to 11	2K
	<b>NC1040L</b>	World's first DCI certified laser projector	Laser	Up to 9.5	4K
	<b>NC1440L</b>	Laser projector for larger screens	Laser	Up to 13.5	4K
	<b>NC900C</b>	Compact projector for small screens and post production	NSH	Up to 9.5	2K
	<b>NC1200C</b>	Efficient projector for small screens and post production	Xenon	Up to 14	2K
	<b>NC2000C</b>	Efficient projector for the majority of cinemas	Xenon	Up to 20	2K
	<b>NC3200S</b>	Projector for large and outdoor cinemas	Xenon	Up to 32	2K
	<b>NC3240S</b>	Projector for large cinemas with highest performance demands	Xenon	Up to 32	4K

\*screen sizes based on 1.8:1 screen gain

### LARGE FORMAT DISPLAYS



View	Series	Description	Size (inch)	Resolution
	<b>V Series</b>	Value Signage installations, 16/7 operation time, touch versions available	32 to 80	1920 x 1080
	<b>P Series</b>	Professional Signage installation, 24/7 operation time, protective glass versions available	40 to 80	1920 x 1080
	<b>XUN Series</b>	Signage installation for videowalls, 24/7 operation time	46 and 55	1920 x 1080

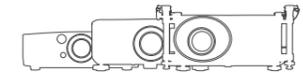
For additional lenses, lamps and other accessories such as pedestals or slot in options visit: [www.digital-cinema-nec.com](http://www.digital-cinema-nec.com)

### LED MODULES



View	Series	Description	Pixel Pitch (mm)	Resolution
	<b>LED Series</b>	Indoor and Outdoor LED videowall modules	6 to 20	Up to 7500

### PROFESSIONAL INSTALLATION PROJECTORS



View	Series	Description	Brightness (AL)	Resolution
	<b>PA Series</b>	Best installation flexibility and excellent connectivity	Up to 6000	Up to 1920 x 1200
	<b>PX Series</b>	Heavy duty usage and supporting OPS standard	Up to 8000	Up to 1920 x 1200
	<b>PH Series</b>	Unique picture quality and integrated Staggering/Rigging Frame	Up to 13500	Up to 1920 x 1200

### DESKTOP



View	Series	Description	Size (inch)	Resolution
	<b>EA Series</b>	Performance oriented and ergonomically friendly	19 to 29	Up to 3840 x 2160
	<b>EX Series</b>	Stylish and future proof connectivity	23	1920 x 1080

For more information, please visit: [www.digital-cinema-nec.com](http://www.digital-cinema-nec.com)

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