The NC3540LS brings the introduction of laser technology to the projection realm for the first time.

Designed for customers that are looking for an expanded color space beyond the DCI or Adobe RGB specifications. As a solid state light source the NC3540LS provides up to 30,000 hours of life providing lower maintenance costs resulting in lower TCO. The new NC3540LS, a 4K RGB laser projector with bright and impressively wide colour space (Rec 2020), aimed for the largest screens using one single unit.

**Delivering Genuine Benefits**

- **one of the brightest cinema projectors**  - with up to 70,000 Lumen using two units in stacking installation aimed for auditoriums with the larger screens

- **Not only designed for the typical installation**  - ceiling mount capability allows for installations not previously possible with lamp technology in the digital cinema space

- **Highly flexible**  - as no exhaust system is required, the NC3540LS is suitable for floor and ceiling installation and versatile content playback

**Outstanding Performance**

- **Wide color space** (Rec 2020) to create unequaled image quality from the most discernible Cinema, Graphics Designers or even Broadcasters.

- **Expandable laser modules** for customers looking for a projector that can do 2D and full 3D HFR with a single projector head.

- Laser module light output decreases linearly over time keeping image brightness more consisting over its life time. Additionally, more head room enables the output to be increased over time so that required brightness remains the same.

An “all in one” Integrated Media Server with 2 TB Raid5 Storage offers versatile connectivity and savings with less peripheral devices needed. A host of integrated features includes a built-in 2 TB Raid5 screen server, 2 x 3GSDI and 1 x HDMI** Interfaces, advanced network and built-in GPIO functions.
NC3540LS

**OPTICAL**

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**CONNECTIVITY**

**Input Terminals**

- IMS HDMI, 2 x 3G-SDI bidirectional (input and output), 3 x USB Type A, 1 x eSATA (Optional)

**Output Terminals (IMS)**

- 2 x RJ45 (16-channel AES3-EBU Digital Audio) / 24 bits up to 96 KHz

**External Control**

- IMS 2 x RJ45 (4 GPI and 6 GPO) / 2 x RJ45 Gigabit Ethernet
- Projector 1 x LAN port [RJ-45] / 1 x USB port [Type A] / 1 x Serial port [D-sub (9-pin)] / 1 x General Purpose I/O for 3D [D-sub (15-pin)] / 1 x Remote control connector

**ELECTRICAL**

**Power Requirements**

- Head 100 - 240V AC, 50/60Hz Single Phase
- Laser Module 200-240V AC, 50/60Hz, 3 Phase

**Input Current**

- Head 100 - 240V AC: 4.8 - 2.3A
- Laser Module TBD
- Chiller TBD

**Power Consumption**

- Head 320W
- Laser Module 7kW including Chiller

**MECHANICAL**

**External Dimensions**

- Head 26.3 x 29.1 x 14.4 in / 666 x 737 x 364mm
- Laser Module 31.7 x 39.5 x 25.7 in / 804 x 1004 x 653 mm
- Chiller TBD

**Weight**

- Head 112lbs. / 51kg (excluding lens and IMS)
- Laser Module TBD
- Chiller TBD

**Fan Noise**

- Head <25dB
- Laser Module TBD
- Chiller TBD

**ENVIRONMENTAL**

**Operating Temperature**

- 50° - 95° F / 10° - 35°C

**Humidity**

- 10-85% non-condensing

**Storage**

- -14° - 122°F / -10° - 50°C

**REGULATIONS**

- U.S. UL60950-1 / FCC Part15 Class A (Marking: UL)
- Canada CSA60950-1 / ICES-003 Class A (Marking: C-UL, DoC of Canada)
- Latin America IEC60950-1 / EN55022 Class A / EN55024 / EN61000-3-2/3-3 (Marking: CE) IEC60950-1 / CBPR.32 Class A
- Limited Warranty (parts & labor) Registered owners receive a 2-year parts and labor warranty.

**IMS**

- Integrated Storage Server: 2 TB RAID
- Integrated SMS
- Full HFR 3D Support (48 Hz/eye, 60 Hz/eye)

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©2016 NEC Display Solutions of America, Inc. and the NEC logo are registered trademarks of NEC.
The NC1700L features a built-in laser light source and is the ideal digital cinema projection solution for theaters with small screens or projection booths that are looking for high-quality cinema projection. This projector's reliability, maintenance-free operation and approximately 20,000* hours of lifetime result in an overall lower total cost of ownership. The 2K DCI-compliant cinema quality means an outstanding image that is bright enough to display 14 ft-L on screens up to 55.8 ft./17m** in DCI color.

**Delivering Genuine Benefits**
- Maintenance-free operation for a long period of time with approximately 20,000* hours expected usage of the light source and DMD
  - Higher reliability
  - Lower running cost due to savings of:
    (a) No lamp replacement
    (b) No maintenance labor
    (c) No need of Stocking Lamps
- Play captivating 3D content - take your establishment into the next generation and stay ahead of the competition with the latest digital content, an increasingly essential element of the latest movies and media
- Highly flexible - as no exhaust system is required, the NC1700L is suitable for floor and ceiling installation and versatile content playback

**Outstanding Performance**
- Steady and reliable operation without any risk of black screen
  - No downtime while exhibition of contents with Laser Light Source, with which brightness may slightly decrease
- Longevity and lower maintenance provide for greater customer satisfaction with the introduction of the laser light source NC1700L projector.
- Enjoy lower TCO - up to 20,000 hours of lifetime keeps costs to a minimum. You can enjoy better quality imaging while experiencing an overall lower cost of ownership. Brightness decreases in a linear fashion resulting in consistent image quality and greater satisfaction for your customers.

**Super Dust Protection**
- NEC's patented heat exchanger along with a newly developed and sealed optical engine offer the best overall performance while providing theater owners a greater piece of mind.

* This life time may vary depending upon environmental conditions.
** Assuming 1.8:1 gain screen
This product has been equipped with a laser module and is classified according to Class 1 of Safety of Laser Products IEC 60825-1:2014 Ed.3.

**DO NOT LOOK DIRECTLY INTO THE BEAM.**

* This life time may vary depending upon environmental conditions
** Without protrusions

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**UNIQUE FEATURES**

**MINIMAL MAINTENANCE** Operation for approximately 20,000* hours with long life of the light source and DMD.

**SIMPLE OPERATION** One touch operation, ergonomic keyboard layout and memory functions.

**MANY LENS OPTIONS** for easy installation.

**HIGH FRAME RATE (HFR) CAPABILITY** for outstanding picture quality.

**NEC INTEGRATED MEDIA SERVER (IMS)** As trouble free one-stop solution.

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**ACCESSORIES**

**Ceiling Mount**
NC1100CM

**Optional Lenses**
NP-9LS12ZM1, NP-9LS13ZM1, NP-9LS16ZM1
NP-9LS20ZM1, NP-9LS40ZM1

**Integrated Media Server**
NP-90MS02-4K

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**ORDERING MODEL NUMBERS**

NP-1700L
NP-90MS02-4K

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**OPTICAL**

| Projection Method | 3-chip DMD reflection method (DLP light Engine) |
| Light Source      | Laser light source |
| Throw Ratio       | NP-9LS12ZM1 w/ lens memory: 1.2 - 1.72:1 |
|                   | NP-9LS13ZM1 w/ lens memory: 1.33 - 2.1:1 |
|                   | NP-9LS16ZM1 w/ lens memory: 1.62 - 2.7:1 |
|                   | NP-9LS20ZM1 w/ lens memory: 2.09 - 3.9:1 |
|                   | NP-9LS40ZM1 w/ lens memory: 4.07 - 6.34 |
| Lens Zoom / Focus | Motorized |
| F-number, f-number| F=2.5, f= 18.6 - 26.7mm |
|                   | F=2.5, f= 20.7 - 32.7mm |
|                   | F=2.5, f= 25.2 - 42mm |
|                   | F=2.5, f= 32.2 - 60.3mm |
| Lens Shift        | NP-9LS40ZM1 (motorized) -0.5 to +0.55 Vertical, +/-0.11 Horizontal; ZM1 Series (motorized) -0.5 to +0.5 Vertical, +/-0.11 Horizontal |

**Resolution**
2048 x 1080

**Supported Screen Size (max)**
Up to 55.8 ft./17m @ 14ft-L in DCI color (1.8 gain screen)

**Tilt Angle**
+10 to -15

**Contrast Ratio**
1600:1

**Cooling Method**
Projector: Air Cooled
Laser/Phosphor: Liquid Cooled with external chiller

**DMD Specifications**
0.69” DMD chip

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**CONNECTIVITY**

**Input Terminals**
IMMS HDMI, 2 x 3GSDI, 1 x USB2, 2 x USB3, 1 x eSATA

**Output Terminals (IMS)**
2 x RJ45 (16-channel AES3-EBU Digital Audio) / 24 bists up to 96 KHz
1 x RJ45 (4 x GPI), 1 x RJ45 (6 x GPO) / 3 x RJ45 Gigabit Ethernet

**External Control**
Projector
1 x RJ45 100BASE-T, 1 x SERIAL RS232C compliant (D-SUB 8pin female) / 1 x GPIO (D-sub 37 pin female) / 1 x GPIO (3D) (D-sub 15 pin female)

**ELECTRICAL**

**Power Requirements**
Projector: 200-240V AC, 50/60Hz Single Phase
Chiller: 200-240V AC, 50/60Hz Single Phase

**Input Current**
Projector: 9.5
Chiller: 8.0A

**Power Consumption**
Projector: 1650W
Chiller: 1500W

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**MECHANICAL**

**External Dimensions**
Projector: 27.56 x 36.61 x 12.83 in. / 700 x 930 x 326mm
Chiller: 25.59 x 27.56 x 23.62 in. / 650 x 700 x 600mm

**Weight**
Projector: 151.0 lbs. / 68.5 kg
Chiller: TBD

**Fan Noise**
Projector: 55dB
Chiller: 60dB

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**ENVIRONMENTAL**

**Operating Temperature**
50° – 95°F / 10° – 35°C

**Humidity**
20-80% non-condensing

**Storage**
-14° – 122°F / -10° – 50°C

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**REGULATIONS**

**U.S.**
UL60950-1 / FCC Part15 Class A (Marking: UL)

**Canada**
CSA60950-1 / ICES-003 Class A (Marking: C-UL, DoC of Canada)

**Latin America**
IEC60950-1 / CISPR.32 Class A (Marking: CE)

**International Laser**
IEC60825-1 / CISPR.32 Class A (Marking: CE)

**Limited Warranty (parts & labor)**
Registered owners receive a 2-year parts and labor warranty

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**NP-90MS02-4K**
Integrated Media Server: 2 TB
Integrated SMS
Full HFR 3D Support (48 Hz/eye, 60 Hz/eye)

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DCI-compliant laser light source projector

The NC1201L features a built-in laser light source and is the ideal digital cinema projection solution for theaters with small screens or projection booths that are looking for high-quality cinema projection. This projector's reliability, maintenance-free operation and approximately 20,000* hours of lifetime result in an overall lower total cost of ownership. The 2K DCI-compliant cinema quality means an outstanding image that is bright enough to display 14 ft-L on screens up to 39.4 ft./12m** in DCI color.

Delivering Genuine Benefits

- Maintenance-free operation for a long period of time with approximately 20,000* hours expected usage of the light source and DMD
  - Higher reliability
  - Lower running cost due to savings of:
    (a) No lamp replacement
    (b) No maintenance labor
    (c) No need of Stocking Lamps
- Play captivating 3D content - take your establishment into the next generation and stay ahead of the competition with the latest digital content, an increasingly essential element of the latest movies and media
- Highly flexible - as no exhaust system is required, the NC1201L is suitable for floor and ceiling installation and versatile content playback

Outstanding Performance

- Steady and reliable operation without any risk of black screen
  - No downtime while exhibition of contents with Laser Light Source, with which brightness may slightly decrease
- Longevity and lower maintenance provide for greater customer satisfaction with the introduction of the laser light source NC1201L projector.
- Enjoy lower TCO - up to 20,000 hours of lifetime keeps costs to a minimum. You can enjoy better quality imaging while experiencing an overall lower cost of ownership. Brightness decreases in a linear fashion resulting in consistent image quality and greater satisfaction for your customers.

Super Dust Protection

- NEC’s patented heat exchanger along with a newly developed and sealed optical engine offer the best overall performance while providing theater owners a greater piece of mind.

* This life time may vary depending upon environmental conditions.
** Assuming 1.8:1 gain screen
MAINTENANCE-FREE
Operation for approximately 20,000* hours with long life of the light source and DMD.

SIMPLE OPERATION
One touch operation, ergonomic keyboard layout and memory functions.

MANY LENS OPTIONS
For easy installation.

HIGH FRAME RATE (HFR) CAPABILITY
for outstanding picture quality.

NEC INTEGRATED MEDIA SERVER (IMS)
As trouble free one-stop solution.

ORDERING MODEL NUMBERS
NP-NC1201L-A

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