

NEC Display Solutions **Digital Cinema**

WHITEPAPER

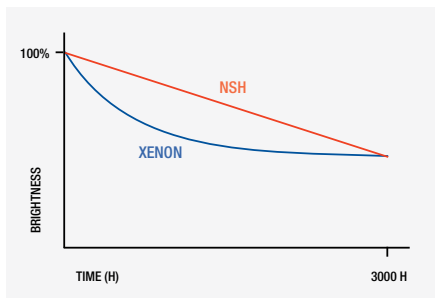
TOPIC: Why are NSH lamps the better solution for compact Digital Cinema Projectors?



NEC Digital Cinema projector engineering spent a lot of time investigating the best lamp technology for our new ultra compact Digital Cinema projector NC900C.

RESULT:

NEC's Easy Dual-Lamp system, NSH is an approved AC lamp technology based on very short light arc.



WHY DID WE CHOOSE NSH LAMP TECHNOLOGY?

1. Best Brightness Efficiency 2 x 350W NSH Dual-Lamp system provides similar brightness levels to a 1.6kW Xenon lamp at less than half power consumption.

2. Lowest TCO Projector power consumption is below 1000W, therefore about 50% less power cost. This means 750 EURO less cost per year (at typ. 3000h usage/year and 0.25 EURO/kWh).

3. Same Natural Colours as Xenon over Full Lamp Life Highly precise NEC Colour Management, based on our long experience of the development of Staging Projectors.

4. Compact Lamp Size Developing the World's most compact Digital Cinema Projector was possible by using NSH lamps.

5. Very Easy Lamp Module Replacement No need for any special protection or any training, anyone can change the lamp. The lamp is not under pressure in OFF-state, therefore there is no need to wait a long time for cooling down before replacement. Lamp adjustment is not necessary after replacement!

6. No Black Screen One lamp still operates in case of any lamp problem, Hot Swapping of defective lamp while projector is working (from Spring 2013).

7. Easy Projector Transport No need to disassemble lamp for transportation, especially as one great benefit for this projector is the portability.

8. No Damaged Projector Mirror Anymore The Lamp mirror is safely included within the lamp module.

9. No External Projector Exhaust Necessary NSH lamp heat dissipation is lower than Xenon.

10. Lower Decreasing Brightness of NSH Lamp compared to Xenon Perfect solution for small projectors.

11. Easy Storage of Lamps Due to lack of pressure the lamp can be stored on the shelf, unlike a Xenon lamp which must be stored in a protective case under controlled conditions.

12. Lower Lamp Cost NSH lamps cost less than Xenon lamps.

Because of all these points our engineers decided to develop this innovative Digital Cinema Dual-Lamp system as benefit for our customers.

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