



## Frequently Asked Questions About AES NextLume Induction



**Q1. What is induction lighting and how does it work?**

A1. The NextLume inductively coupled electrode-less lamp uses magnetic-induction technology instead of an electrode at each end of a fluorescent tube to generate light. The absence of these electrodes allow longer lamp life.

**Q2. What are the components of the NextLume Induction System?**

A2. The system is comprised of two components; the Patented IC ballast and the lamp.

**Q3. Why Induction Lighting?**

A3. Induction lighting offers an incredible 100,000 hours of life making it virtually maintenance free. With 90+ CRI and a wide range of color temperatures from 2700-5000K this lamp delivers the most reliable source of light in an extreme operating temperature conditions or even “on” and “off” applications.

**Q4. Can running a lamp interfere with computers or any other electronic devices?**

A4. NO! The NextLume systems complies or exceeds Low EMI Standards of FCC (47CFR Part No. 18 Non-Consumer) rules with non-interference under normal circumstances.

**Q5. Will the lamp interfere with telecommunication equipment?**

A5. NO! The systems are certified FCC standards (47CFR Part No. 18 Non-Consumer) and are in place to protect navigation and radio communications. The systems will not interfere with portable or cellular phones.

**Q6. Is the light output of a NextLume Induction System affected by low temperature? High temperatures?**

A6. With our proprietary amalgam technology and IC technology our lamps provide a stable light output over a wide range of ambient temperatures, maintaining at least 90% of normal lumens from  $-30^{\circ}$  F to  $260^{\circ}$  F and will start at temperatures as low as  $-40^{\circ}$  F

**Q7. Does operating position affect the output?**

A7. No. The universal operating position does not affect the performance of the NextLume Induction System.

**Q8. What is the color shift of the NextLume Induction System?**

A8. This system operates like most typical fluorescents with the respect to phosphors and will not deviate over time.

**Q9. Is the NextLume Induction System dimmable?**

A9. Yes. The 40 & 80-watt systems are dimmable down to 50% and available on special request.

**Adaptive Energy Systems, Inc.**

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### **Q10. Can the NextLume Induction System be used for a flashing beacon?**

A10. Yes. With the new IC technology generators constant "on" and "off" usage will have no impact on the life of the system.

### **Q11. Will the NextLume Induction System fade or damage materials?**

A11. The amount of ultraviolet light generated by induction is roughly equivalent to that of linear fluorescent lamps. The damage factor for materials is rated as a low 0.3 factor, so induction can be used in open luminaries without any front glass

### **Q12. Is NextLume Induction Systems vibration-resistant?**

A12. Yes. The fact NextLume Induction Systems have no electrodes, which makes it more reliable in high-vibration and gusty applications. NextLume Induction Systems have proven durability in bridges, tunnels and signage applications.

### **Q13. What if any, is the effect of voltage supply fluctuations on the performance of the NextLume Induction System?**

A13. Due to a pre-built conditioner in the HF Generator, which provides a well stabilized internal supply voltage (+/- 15% of the supply voltage) to the HF Generator, the light output, consume power and systems efficacy of the lamp systems varies less than 1% as a result to mains voltage fluctuations. There is no noticeable effect on the color performance or rendering outputs.

### **Q14. At the end of life, must all components be replaced?**

A14. Each item is separately replaceable, however since we supply everything as a system, even for re-lamping, the IC ballast is recommended to be replaced as well.

### **Q15. What needs to be recycled as hazardous waste?**

A15. Like it's fluorescent cousin, the lamps and ballast should be recycled. But with a 5-10 times longer life, recycling costs will be greatly reduced.

### **Q15. Why are the NextLume systems worth more?**

A15. The NextLume induction system offers 5 to 10 times more life than Fluorescent and HID systems. Even at the two to three times the cost of these systems it easy to justify due to its high RETURN ON INVESTMENT in maintenance savings and, in the case of security lighting, reduction of liability.

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