

# IANIRO



NO FICTION,  
JUST FACTS



The new SOLARIS LED IANIRO with Fresnel lens, is a high-performance, energy-saving spotlight for use in TV studios, which from an operating point of view is identical to the traditional Fresnel halogen TV spotlight, with Spot Flood focalization, constant beam controlled by lens hood, manual-operated or pole-operated yoke mount. However, the similarities end there, that is, with the operating characteristics and mechanical construction of the product. The heart of the product is completely new, including the new LED technology and the built-in DMX control. The Solaris LED is thus the ideal solution for TV studios where energy saving and the rationalization of power distribution and DMX distribution are priorities. The Solaris LED complements indirect

fluorescent lights ("cold" lights) perfectly, embellishing the photography of a set with key lighting and backlighting points. Cold lights that use fluorescent tubes, such as the IANIRO ICE, can be fitted either with tubes with a "warm" colour temperature of around 3200°K, or equally with those with a "cold" colour temperature of around 5600°K. Similarly, Solaris LED spotlights can be fitted with LEDs with a warm or cold colour temperature, and can thus counterbalance the chosen set of fluorescent lights. LEDs have been on the professional scene for some years now, but have always offered performance and characteristics that are better suited to external effects and reporting, rather than to Studio lighting. Finally, the latest generation of LEDs and modern light-mounting technology have

enabled manufacturers of professional TV spotlights to create products better suited to operating requirements than white TV lights. We decided to realize the entire project internally, even if this requires more time. In fact, we believe it is very important to acquire the necessary know-how and gain total independence from external suppliers, as far as the electronics of the project are concerned. This guarantees rapid product development, design flexibility, and the adaptability of engineering to each stage of development. In other words, the balanced integration of all construction aspects, which enables us to promptly respond to our niche customers' demands, without having to deal with external electronics suppliers who are more

responsive to the general lighting industry, where for years LEDs have been to the fore, and where sales volumes are very different from those of our sector.

Thus the overall arrangement of the LEDs, the metal core printed circuit for the LEDs, the LED drivers, the logic board, and the connection of electronic controls – from the power supply to cooling – have been studied and built within our plant, which has been fitted with the required prototyping and photometric measurement devices. Only large-scale production is allocated to our trusted contractors, once the prototypes and preproduction models have been realized internally.

The electronic and engineering design is

based on the modular, up-dateable approach. The customer may intervene directly (through qualified personnel) by simply replacing cards, and the LED module itself may be replaced and updated as the product evolves, without having to repurchase the entire apparatus.

Considerable importance has been given to the high performance of the LEDs, with special attention paid to two aspects in particular: the maintenance of working temperatures within the manufacturer's recommended range, using active cooling devices; and the avoidance of any possible derating, through the installation of a dual power supply.

## SPECIFICATIONS

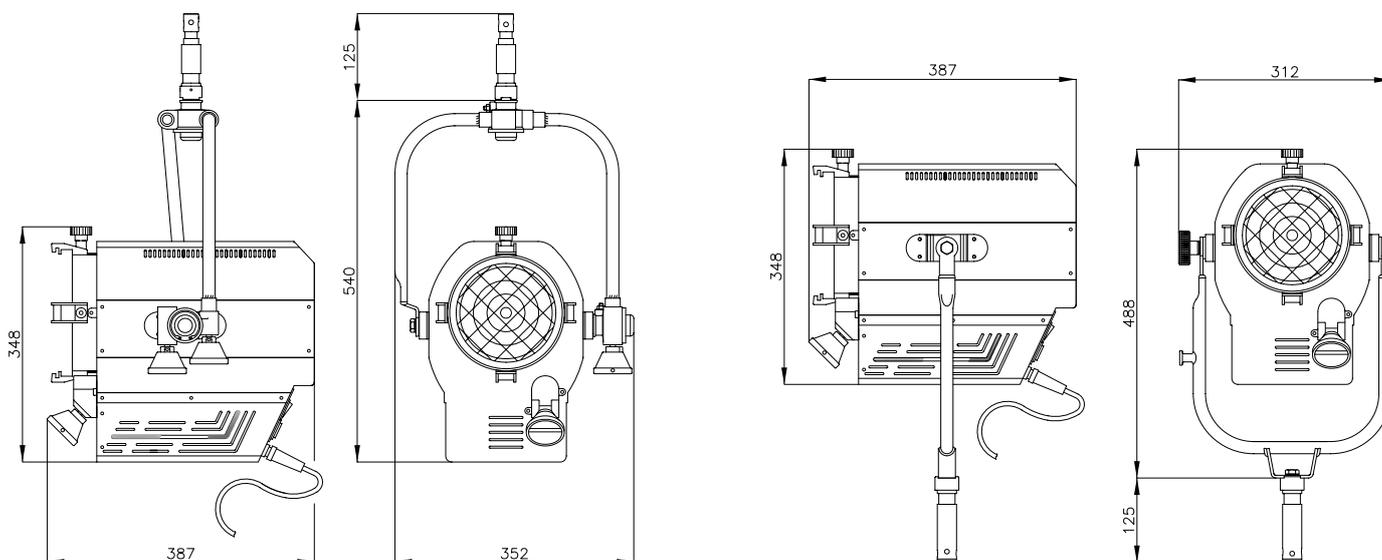
- **Weight without accessories** P.O. 9,5 kg - M.O. 8,3 kg
- **Size:** see drawing
- **Construction:** aluminum
- **Finish:** tough matt black
- **Lens:** Fresnel 175mm F120-65;  
Fresnel 150mm F110-60;  
PC
- **Spot-Flood beam variation using a manual-operated or pole-operated yoke**
- **Yoke:** Tubular steel, complete with 28mm male spigot
- **Power cord :** Titanex HAR H07 RN - section 3x1,5mmq  
4m. long for M.O., 3m. long for P.O.
- **Power consumption:** 300W
- **Voltage:** 90-264VAC 50 – 60 Hz
- **Built-in DMX:** 5 pin connectors
- **Built-in Dimmer:** 0>100%

**Accessories:** Lamphead supplied with gel frame and 4-leaf rotating barndoor, included in the price

**Optional:** Full scrims and Half scrims

## FEATURES:

- Cooling through heat pipe device for the fast dissipation of the heat generated
- Heat dissipation aided by two fans 13 cm. in diameter, built into a unit immersed in fluid for quiet operation
- Electronically-controlled fan speed
- Metal body engineered in three main sections, fully independent and easily separable for maximum flexibility of maintenance
- LEDs driven by high efficiency circuit architecture in order to offer the best lighting performance
- High-frequency PWM signal prevents flashing/flickering and interference with the cameras.
- Possibility to replace the LED array for technical assistance or updating purposes
- LEDs selected in order to obtain a uniform colour temperature as close as possible to the specifications given in the manufacturer's catalogue
- Dual power supply to limit derating, thus guaranteeing consistent light output.
- Control via built-in DMX, 5 pin



IANIRO ALDO Srl  
Via Ragusa, 5 - 00041 Pavona (RM)  
tel. +39 06 9310198 - fax +39 06 93162162