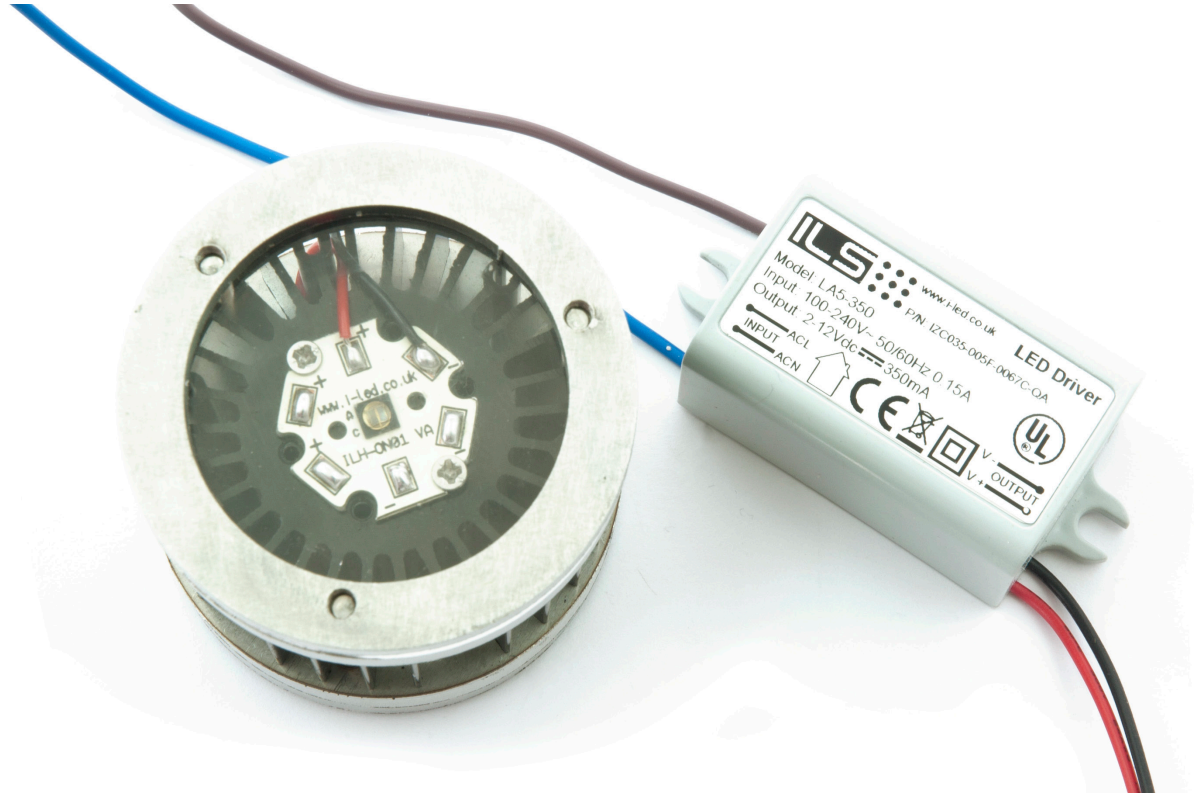
PiNoir Full Development Kit

ILK-PINOIR-FULL-##.



Versions of the PiNoir full are:

Part Number	Description
ILK-PINOIR-FULL-01.	PiNoir Full Kit - IR OSLON Black 850nm - +/-45° Star with 200mm wires, 20x50mm Heat Sink, Laser cut housing and LED Driver
ILK-PINOIR-FULL-02.	PiNoir Full Kit - IR OSLON Black Wide 850nm - +/-75° Star with 200mm wires, 20x50mm Heat Sink, Laser cut housing and LED Driver
ILK-PINOIR-FULL-03.	PiNoir Full Kit - IR OSLON Black 940nm - +/-45° Star with 200mm wires, 20x50mm Heat Sink, Laser cut housing and LED Driver
ILK-PINOIR-FULL-04.	PiNoir Full Kit - IR OSLON Black Wide 940nm - +/-75° Star with 200mm wires, 20x50mm Heat Sink, Laser cut housing and LED Driver
ILK-PINOIR-FULL-05.	PiNoir Full Kit - IR Dragon Dome +/-12 degree Star with 200mm wires, 20x50mm Heat Sink, Laser cut housing and LED Driver

There are also Basic PiNoir kits available, a basic kit contains all the same components but no laser cut housing is supplied:

Part Number	Description
ILK-PINOIR-BASIC-01.	PiNoir Basic Kit - IR OSLON Black 850nm - +/-45° Star with 200mm wires, 20x50mm Heat Sink and LED Driver
ILK-PINOIR-BASIC-02.	PiNoir Basic Kit - IR OSLON Black Wide 850nm - +/-75° Star with 200mm wires, 20x50mm Heat Sink and LED Driver
ILK-PINOIR-BASIC-03.	PiNoir Basic Kit - IR OSLON Black 940nm - +/-45° Star with 200mm wires, 20x50mm Heat Sink and LED Driver
ILK-PINOIR-BASIC-04.	PiNoir Basic Kit - IR OSLON Black Wide 940nm - +/-75° Star with 200mm wires, 20x50mm Heat Sink and LED Driver
ILK-PINOIR BASIC-05.	PiNoir Basic Kit - IR Dragon Dome +/-12 degree Star with 200mm wires, 20x50mm Heat Sink and LED Driver

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DATASHEET

Kit Contents

Quantity	Part Number	Description
1	ILH-I#01-####-SC201-WIR200.	Oslon Black IR PowerStar with 200mm wires
1	IZC035-005F-0067C-QA	Constant Current IP67 LED Driver 350mA 5W
1	ILA-ANNA-BASEPLATE	Heat Sink Adaptor Plate 2mmx52mm Dia
3	ILA-ANNA-SPACER-SS	Ring Spacer Stainless 6mmx52mm Dia
1	ILA-ANNA-TOPPLATE-ALT	Alternate Stainless Steel Top Plate
1	ILA-ANNA-ACRYLIC	3mm clear Acrylic diffuser 50mm dia
1	SCREWM3X45-PACK3.	M3x45mm x 3 Screw Pack
1	SCREWM3X6-PACK2.	M3x6mm x2 Screw Pack
1	SCREWM2X4-PACK6.	M2x4mm x6 Screw Pack
1	ILA-HSINK-STAR-20X50MM-BLK.	20x50MM Black HeatSink with Thermal Interface Material

Assembly

If you wish to change the IR PowerStar follow the steps below:

1. Slightly undo the three M3 screws, this will allow you to remove the TOPPLATE – place on flat surface
2. Remove the two spacers and unscrew two M2 screws to remove the PowerStar
3. Fix the new star in place and feed spaces through the M3 Screws, then fix all in place with the TOPPLATE

To download more information on the IR PowerStar and PiNoir Full kit, please visit www.i-led.co.uk/kit/pinoir

The PiNoir kit comes fully assembled connect to the supplied driver red-red and black-black using connector blocks or alternative (not supplied). Connect driver wires Brown and Blue to mains (100-240V) using suitable mains plug (not supplied). Always connect the PiNoir to the driver before plugging in the driver.

CAUTION

- Never touch the LEDs as they are delicate and easy to damage physically and electronically
- Do not connect directly to mains (100-240V) – always use the driver provided
- Do not hot plug into the driver.

Important Information and Precautions

- The PiNoir's LEDs, when powered up are very bright. Thus it is advised that you do not look directly at it. Turn the PiNoir away from you and do not shine into the eyes of others.
- Do not operate PiNoir's with a Power Supply with unlimited current. Connection to constant voltage Power Supplies that are not current limited may cause the PiNoir to consume current above the specified maximum and cause failure or irreparable damage.
- PiNoir's, when operated, can reach high temperatures thus there is risk of injury if they are touched.
- DO NOT HOT PLUG ON LED SIDE OF POWER SUPPLY.
- DO NOT TOUCH or PUSH on the LED as this can cause irreparable damage.

Safety Information

- In order to optimise the thermal management, the metal surface needs to be clean (dirt and oil free) and planar for the best contact with the LED module. A thermal grease or heat transfer material is highly recommended.
- The LED module itself and all its components must not be mechanically stressed.
- Assembly must not damage or destroy conducting paths on the circuit board.
- The mounting of the module is carried out by attaching it at the mounting holes. Metal mounting screws must be insulated with synthetic washers to prevent circuit board damage and possible short circuiting.
- To avoid mechanical damage to the connecting cables, the boards should be attached securely to the intended substrate. Heavy vibration should be avoided.
- Observe correct polarity!
- Depending on the product, incorrect polarity will lead to emission of red or no light. The module can be destroyed!
- Pay attention to standard ESD precautions when installing the PiNoir.
- The PiNoir, as manufactured, have no conformal coating and therefore offer no inherent protection against corrosion.

For further information please contact ILS

The values contained in this data sheet can change due to technical innovations. Any such changes will be made without separate notification.

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