LO35

35-Watt
LED Light Source

Microscopy style LED light engine brighter and whiter than halogen!

Independent on/off switch to maintain intensity setting.

A replaceable adapter in the bezel accepts all major fiber optic manufacturer's cables & 2 optional 25mm filters

High temperature shut-off indicator.

Analog dimmer controls output intensity from 10% to 100% output.

Flip the switch to divert dimmer control to the 25 pin connector.

Universal cord module with fuse holder.

25 pin connector accepts wired or computer controlled dimmer.

LO-35 is the first LED light source more powerful than Halogen.

MAIN POWER SUPPLY SPECIFICATIONS	US and Canada	Europe	Japan
Input Power	100 Watts	100 Watts	100 Watts
Input voltage	90-265 V AC 45/65Hz	90-265 V AC 45/65Hz	90-265 V AC 45/65Hz
Output Voltage	0-5 Volts	0-5 Volts	0-5 Volts
Fuse type (Schurter or Equiv)	IEC60127-2 250VAC 3 Amp quick acting F	IEC60127-2 250VAC 3 Amp quick acting F	IEC60127-2 250VAC 3 Amp quick acting F
Temperature Range: Operating Storage	0º to 40º C -40º to 85ºC	0º to 40º C -40º to 85ºC	0º to 40º C -40º to 85ºC
Relative humidity, Non Condensing	10% to 95%	10% to 95%	10% to 95%

* -Specifications subject to change without notice

FEATURES

- Efficient collection optics and cutting edge LED technology combine to outperform 150-W halogen units in power, life, and color temperature.
- 60,000 hours solid state device eliminates lamp change for up to 24 years!
- Daylight white 5700K color temperature.
- Uses 33% less power to produce more than 4X output power. No wasted IR component. Universal power supply.
- Less than 15% decline in output over the usable life.
- Individual adapters permit the use of all fiber optic brands. Up to 8mm active diameter fiber designs can be used. If the fiber diameter is larger than 8mm, the unit can be customized.
- Standard 25mm filters can be mounted behind the bezel (some light loss will occur).
- Thermal protection via on-board sensor.
- Wired remote or computer control option through rear mounted Db25 connector.
- OEM configurations available.
- ETL and CE listed.

Overall Height:5" (127 mm)
Overall Width: 8" (203 mm)
Overall Depth: 8"(203 mm)
Unit Weight: 6lbs. (2.72 kg) including cord.

P/N	Description
FTIII23274	Fiber optic light source for general and microscopy applications. Universal power supply, North American detachable cord.
FTIII23274-EU	Fiber optic light source for general and microscopy applications. Universal power supply, European detachable cord.

FTI offers a family of fiberoptic illuminators unsurpassed in quality and performance. Exceptional value, proprietary features, and a large selection of customizing options and accessories make the product family adaptable to any need.

CORPORATE HEADQUARTERS
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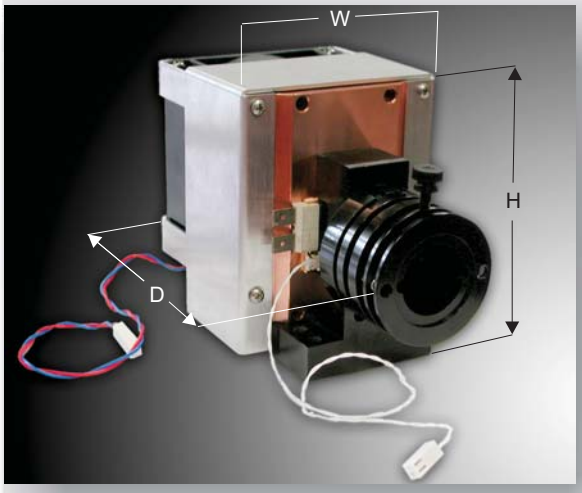
Printed in the USA

DATA, COMPONENTS and ACCESSORIES



If you're an OEM manufacturer, this LED technology can be incorporated into your equipment as a module.

You supply the driver, power supply and dimmer, we'll supply the engine!

OEM module features:

- Uniquely effective collection optics in your choice of NA - 5mm, 8mm, 10mm or greater aperture at the coupling point
- 4.13"(105mm)H x 3.30"(84mm)W x 5.60"(142mm)D
- 2.7lbs (1.22KG)
- Built in thermistor.
- Choice of standard or custom adapter.
- Heat sink, fan and mounting components included.
- Ask about different LED color and power types.
- Additional technical specification/configuration data is available.

Adapters

Adapters are designed to position the light guide for maximum coupling efficiency, regardless of light guide manufacturer or style.

P/N	Description
FTIII16867-02	.625 Standard- FTI, Chiu, IT, Techniquip
FTIII16867-17	.472 Schott KL2500 series. (for P/N 157320)
FTIII16867-03	.393 Schott KL1200 series.
FTIII16867-16	.320 Schott KL series.
FTIII16867-04	.240 Schott KL series
FTIII16867-13	.315, StockerYale, DJ, Techniquip(SY)
FTIII16867-14	.625, StockerYale, DJ , Techniquip(SY)
FTIII16867-15	.718, Schott-Fostec
FTIII16867-05	.590 – Moritex, Volpi, DJ
FTIII16867-06	.190 Dolan Jenner B type
FTIII16867-06-IND	.250 FTI Industrial cables
FTIII18233	Connect FTI Standard endtips into .718 Schott
FTIII18233IND	.089 FTI Industrial cables
FTIII21249-1	Adapter, Storz
FTIII21249-2	Adapter, ACMI
FTIII21249-3	Adapter, Wolf
FTIII21249-4	Adapter, Olympus
FTIII21249-5	Adapter, Pilling

Relative Power

We measured the photonic power (visible light) of the LO35 and compared the result to halogen units. The test used an 8ft long, 5mm diameter light guide, inserted into the following light source types: LO35, MH, 300-W Xenon, 150-W Halogen. The results are published below:

Light source type	Power at the light source	Power at the end of light guide	Ratio
LO35	2.40 Watts	1.00 Watts	52%
150W Halogen	0.60 Watts	0.32 Watts	16%
120W MH	1.60 Watts	0.70 Watts	43%
300W Xenon	2.90 Watts	1.40 Watts	31%

In the visible area of the spectrum, LO50 output is more than 3x brighter than a halogen (EKE) when the output is measured through a 5mm light guide. If the measured output increases to 11mm, the power increases to 5W at the light source, and 2.6W at the end of a 12mm diameter light guide. The added active area makes the unit a great alternative for microscopy applications.

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