

RAY VISIONS

Liquid Core Light Guides and UV curing systems



Architectural

Decorative



Industrial



Ray Visions, Inc., 317 Blacksmith Arch, Yorktown, VA 23693 Ph/FAX 757-865-6442
E-mail us at sales@rayvisions.com or visit our WEB site <http://www.rayvisions.com>

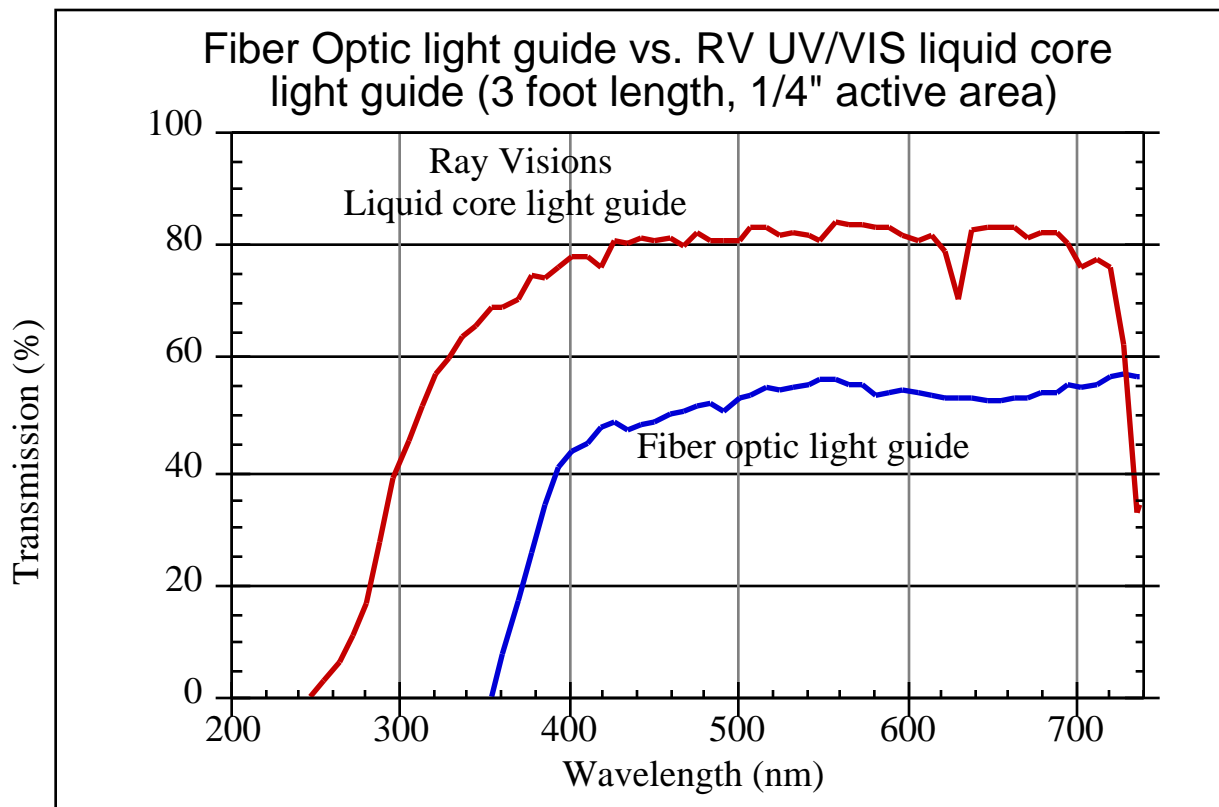
RAY VISIONS

Liquid Core Light Guides



*Are you wasting
your energy?*

Ray Visions' Liquid core light guides transmit **50% more light** than fiber optic light guides.



Ray Visions, Inc., 317 Blacksmith Arch, Yorktown, VA 23693 Ph/FAX 757-865-6442
E-mail us at sales@rayvisions.com or visit our WEB site <http://www.rayvisions.com>

RAY VISIONS

Liquid Core Light Guides

Standard sizes

Transmission light guides in
a protective sheath

Core Diam.	OD
.20"	.41"
.26"	.47"
.33"	.54"
.39"	.60"
.52"	.79"

Side emitting light guides

Core Diam.	OD
3/16"	1/4"
3/16"	5/16"
1/4"	3/8"
3/8"	9/16"
1/2"	3/4"

Lengths made to order from .5 m to 20 m

Parameters:

The numerical aperture is 0.42.

Standard design temperature range is between -15 C to 60 C. Wider temperature ranges available.

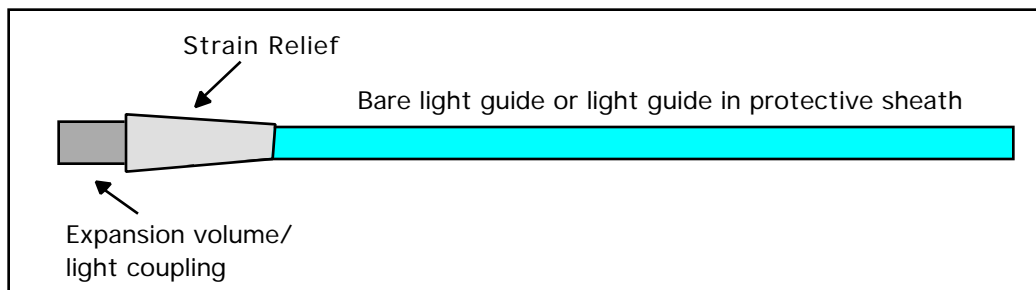
The liquid is a safe non toxic oil with a flash point > 300 C.

The tubing is made from either a fluoropolymer alone or a fluoropolymer coextruded with clear PVC.

End plugs may be either quartz or acrylic. Non stocked quartz endplugs require 6 week lead time.

Each light guide has an expansion volume for the liquid contained inside a metal tube. This tube is usually placed on the input and makes for a solid coupling to the light source. Size and length of the expansion volume depends on size and length of light guide.

Standard protective sheath is synthetic covered steel or aluminum interlock tubing. Lower cost plastic sheath also available.



RAY VISIONS

UV curing systems



The way to faster,
better, and less ex-
pensive UV curing.

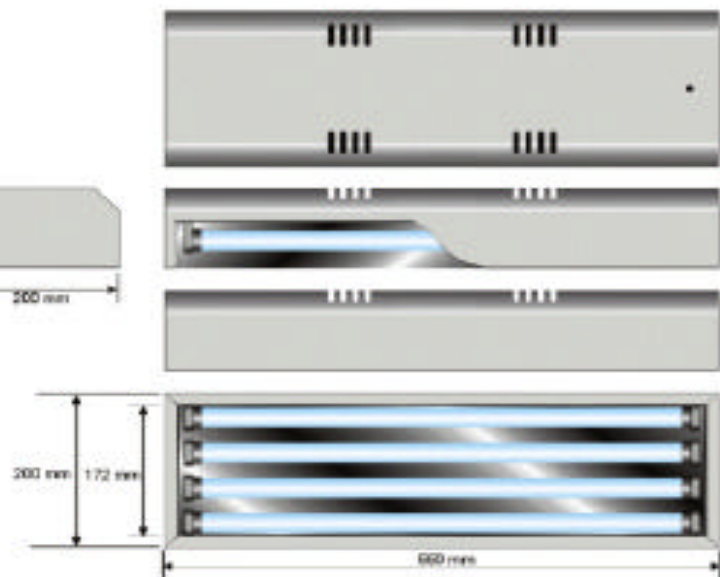
Hand held UV curing
wand: **20 watts** aver-
age UV at **365nm**
wavelength.

Super high efficiency models. Very low heat production yet very high UV output. Inexpensive bulbs with lifetime exceeding **5000 hours!**

Hooded models come in
2,4 and 8 UV Bulb
standard configurations.



Easily replace/retrofit
current hooded units
with minimal time and
modifications.



RAY VISIONS

Plastic Fiber Optics

1 mm, 2 mm, and 3 mm flexible solid core light guides.
Higher collection efficiency and more rugged than stranded
fiber optics. Available as raw fiber, hard, or soft jacketed.

Parameters:

Numerical Aperture: 0.51

Temperature range: -55 to 70 C (up to 135 C available)

Typical attenuation: 0.2 dB/m

Flexible Fluorescent Tubes

Tubing filled with a safe nontoxic fluorescent jelly.

Sizes from 3/16" to 3/4" ID.

Colors - Pink, Red, Orange, Yellow, Green, Blue, Magenta.

Easy to install, inexpensive, rugged, reusable.



Solid State 150 W Light Source

150 Watt Halogen light
source for indoor use. Pack-
aged in a 4" high, 6" wide,
and 7" deep box. 'No tool'
easy to replace bulb.

ONLY \$139.

RAY VISIONS

Liquid Core Light Guides

Ordering Information

Side emitting light guides with acrylic endplugs. Part number SA-Diam-length

Length Core Diam	1 m	2 m	3 m	5 m	10 m
3/16a"	\$80	\$95	\$110	\$130	\$180
3/16"	\$85	\$100	\$115	\$135	\$185
1/4"	\$90	\$105	\$120	\$140	\$190
3/8"	\$95	\$110	\$125	\$145	\$195
1/2"	\$100	\$115	\$130	\$150	\$200

UV-visible transmitting light guides. Part number UV-Diam-length.

Length Core Diam	1 m	2 m	3 m	5 m	10 m
.20"	\$95	\$110	\$125	\$145	\$195
.26"	\$100	\$115	\$130	\$150	\$200
.33"	\$105	\$120	\$135	\$155	\$205
.39"	\$110	\$125	\$140	\$160	\$210
.50"	\$115	\$130	\$145	\$165	\$215

Visible-IR transmitting light guides. Part number IR-Diam-length.

Length Core Diam	1 m	2 m	3 m	5 m	10 m
.20"	\$105	\$130	\$155	\$195	\$195
.26"	\$120	\$150	\$180	\$235	\$370
.33"	\$130	\$175	\$215	\$290	\$475
.39"	\$155	\$200	\$255	\$350	\$585
.50"	\$180	\$255	\$330	\$475	\$830

Prices are for quantities 1-10. Discounts available for larger quantities. Other sizes and lengths available upon request.

Payment terms: We accept Mastercard, Visa, Discover, prepayment, COD, or net 30 days with approved credit. No minimum order.



Ray Visions, Inc., 317 Blacksmith Arch, Yorktown, VA 23693 Ph/FAX 757-865-6442
E-mail us at sales@rayvisions.com or visit our WEB site <http://www.rayvisions.com>

RAY VISIONS

Plastic Fiber Optics

Specifications

Fiber type	Core refractive index	Cladding refractive index	Numerical Aperture	Ave. Attenuation (dB/m)@650nm
Economy	1.492	1.402	0.51	0.2
Optical	1.492	1.402	0.51	0.18

Temperature range: -55 to +70C. Minimum bend radius 20 x diameter.

Ordering Information

Economy unjacketed plastic fiber optics cut to length and polished.

Part number EPF-Diam-length

Length Core Diam	1 m	2 m	3 m	5 m	10 m
1 mm	\$0.80	\$1.35	\$2.00	\$3.20	\$6.40
2 mm	\$4.20	\$8.05	\$11.60	\$18.50	\$33.60
3 mm	\$7.20	\$13.80	\$19.80	\$33.00	\$60.00

Optical grade unjacketed plastic fiber optics cut to length and polished.

Part number OPF-Diam-length

Length Core Diam	1 m	2 m	3 m	5 m	10 m
1 mm	\$1.20	\$2.00	\$3.00	\$4.80	\$9.60
2 mm	\$6.30	\$12.10	\$17.40	\$27.75	\$50.00
3 mm	\$10.80	\$20.70	\$29.70	\$49.50	\$90.00

Black Polyethylene Jacketing available at an additional \$0.50 per meter.

Prices are for quantities 1-10. Discounts available for larger quantities. Other lengths and custom fiber optic bundling available upon request.

Payment terms: We accept Mastercard, Visa, Discover, prepayment, COD, or net 30 days with approved credit. No minimum order.



Ray Visions, Inc., 317 Blacksmith Arch, Yorktown, VA 23693 Ph/FAX 757-865-6442
E-mail us at sales@rayvisions.com or visit our WEB site <http://www.rayvisions.com>