

OPTI-STROBE: REDEFINING PRECISION LIGHT

Opportunities in Macro & Tabletop Photography

Discover new opportunities in macro, tabletop, and scientific photography through the ultimate modular fiber-optic ecosystem.



THE ART OF SURGICAL ILLUMINATION

Traditional macro lighting requires bulky modifiers, flags, and heavy stands that crowd the frame. The Opti-Strobe ecosystem bypasses these physical limits, delivering pinpoint, high-intensity light directly into microscopic crevices without disturbing the set.



THE PHYSICS OF 'COLD' LIGHT



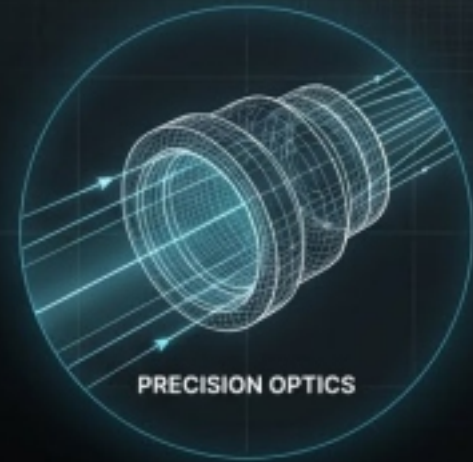
Flawless Transmission

High-transmission fiber cores ensure less than 1% light loss per meter, delivering raw strobe power directly to the macro subject.



Total Thermal Rejection

>99% of heat is dissipated at the strobe source. The subject remains perfectly cold—essential for insects, food, or delicate materials.



Absolute Pinpoint Accuracy

Precision collimator lenses shape the beam before it exits, meaning light falloff is controlled by the optic, not the fiber length.



TRACING THE LIGHT: THE COMPLETE MODULAR ECOSYSTEM

The Opti-Strobe is not a standalone light; it is a transformative transmission system. By mapping the anatomy from the source to the subject, we unlock limitless configurations for commercial and scientific sets.



1. Strobe Interface

2. Fiber Connection

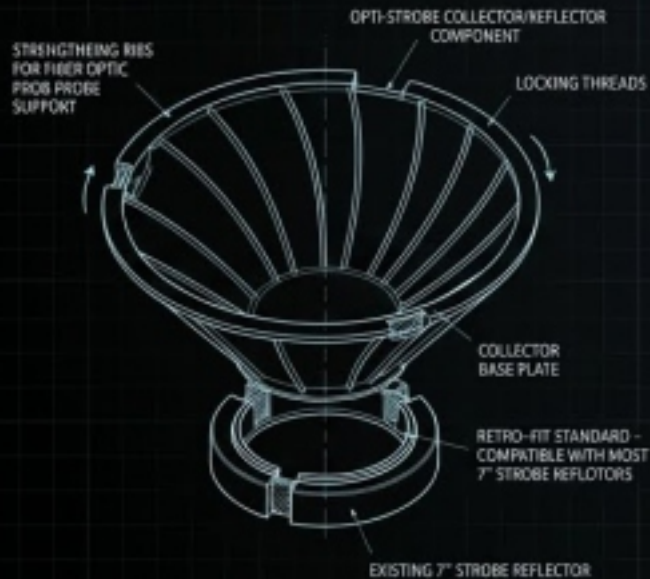
3. Segmented Housing

4. Collimator Lens

5. Focusing Snoot



HARNESSING THE SOURCE: UNIVERSAL BACKWARD COMPATIBILITY



The system begins by capturing the raw power of your existing equipment. The custom Collector Base Plate directly retro-fits to standard 7-inch strobe reflectors.

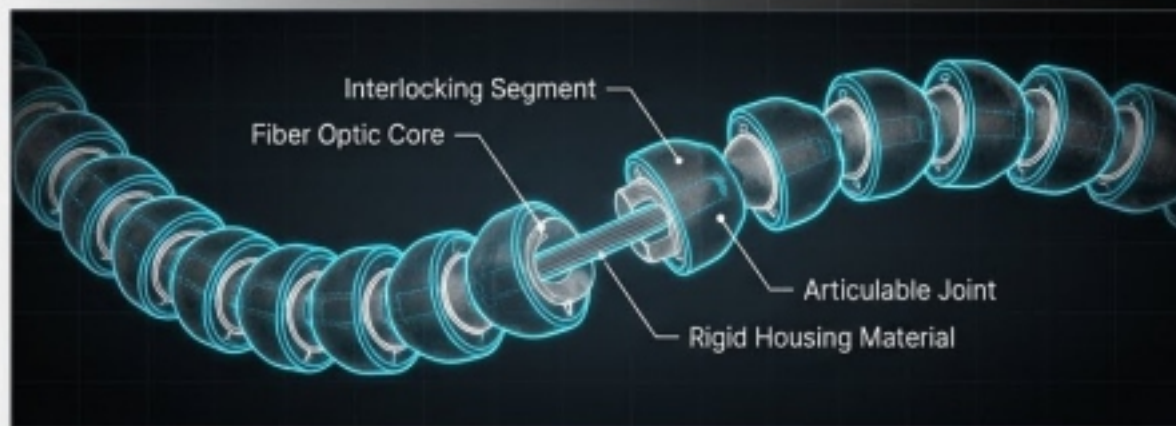
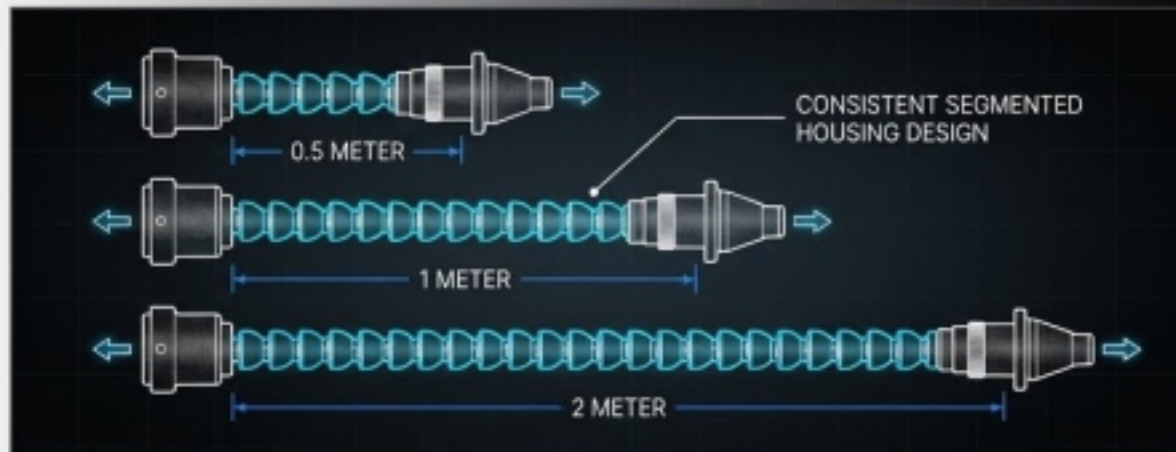
Accessory kits provide modified reflector bases featuring multiple threaded openings, allowing a single strobe to power up to five independent macro probes simultaneously.



FLEXIBLE ARTICULATION AND SEGMENTED TRANSMISSION

The primary fiber optic bundles are shielded within a rigid but fully articulable Loc-Line style housing. The segmented housing holds its physical shape precisely, allowing photographers to snake light around complex tabletop architectures without needing secondary stands or C-arms.

- Available in 0.5m, 1m, and 2m lengths.
- GorillaPod-style micro-adjustments.
- No light falloff penalty for length.



PRECISION OUTPUT SHAPING WITH THE SLIDING SNOOT



Control at the Micro-Level

The end of the fiber optic bundle features a threaded distributor lens, attaching directly to a sliding snoot.

Mechanism of Action

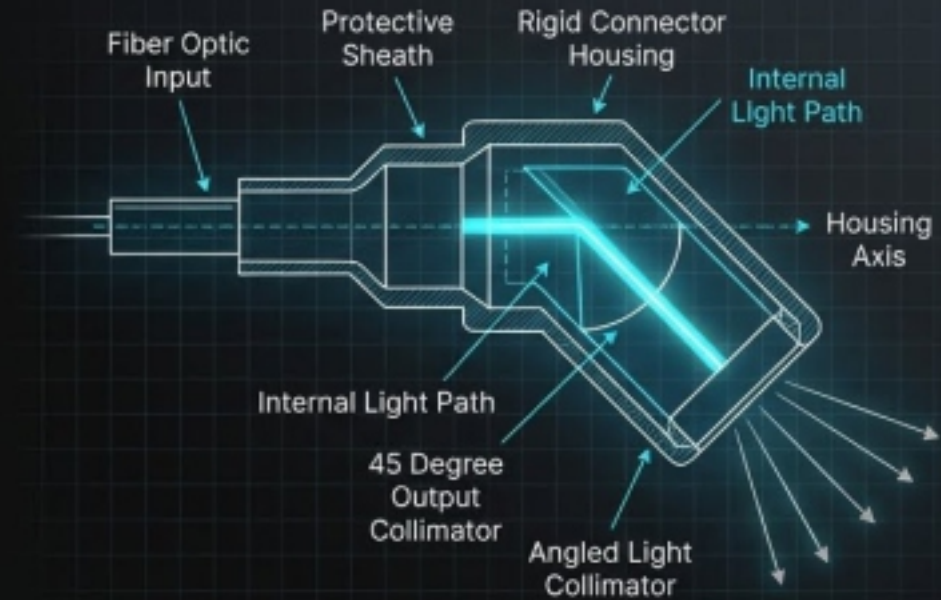
By manually extending or retracting the sliding shaft, the photographer instantly alters the light path—transitioning from a wide, even spray to a highly concentrated, laser-focused micro-beam.




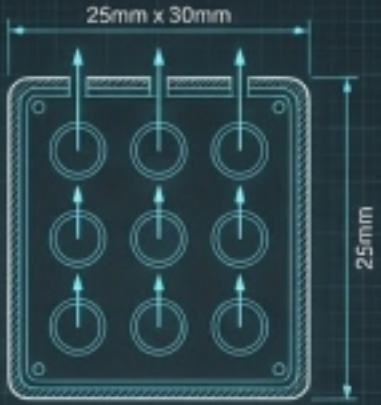

THE 45-DEGREE ANGLED PROBE FOR EXTREME MICRO-DETAILS

For watchmaking internals, deep structural crevices, or dense biological specimens, a straight probe is often blocked by the subject's own architecture.

The Angled Probe Head features a rigid connector housing and an internal 45-degree bounce optic. This collimator redirects the raw beam, allowing surgical lighting in completely recessed, microscopic spaces.



MATRIX CONFIGURATIONS: SELECTING THE RIGHT MULTI-PROBE COLLECTOR

		
Spherical Collector	Flat Panel Collector	Parabolic Collector
7x (2mm Ports)	9x (1.5mm Ports)	5x (3mm Aluminum Bundle)
Quartz Optic	High-Grade Polymer	Aluminum Fiber Bundle
Dispersed, wide-angle distribution.	Grid-like, dense parallel distribution.	Clustered focus with strict 30mm focal length.





HEAVY-DUTY ARTICULATION FOR COMMERCIAL SCALE

Scaling from single macro subjects to high-end commercial sets requires immense stability. Multi-probe kits utilizing six or more heavy-duty articulated arms utilize a custom Reinforced Reflector Base.

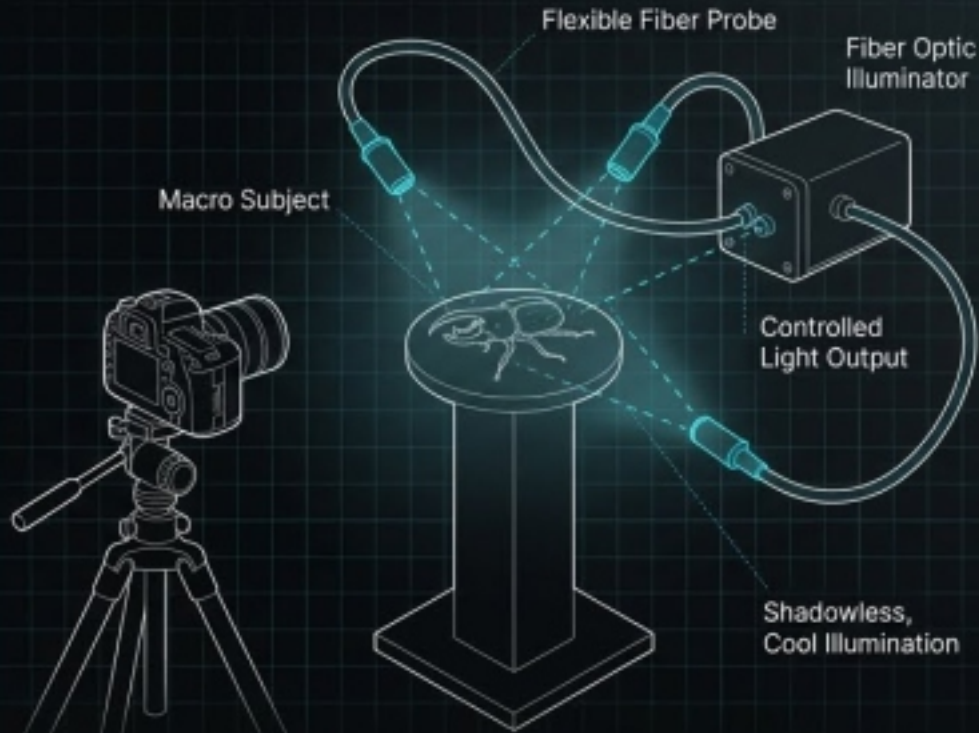


Engineered with weight distribution ribs, the reinforced base prevents structural deformation under the extreme physical leverage of multiple suspended probes.



APPLICATION: NATURAL SCIENCES AND DELICATE SUBJECTS

Lighting biological specimens, insects, or temperature-sensitive compounds traditionally risks melting or degrading the subject due to intense modeling lamps.



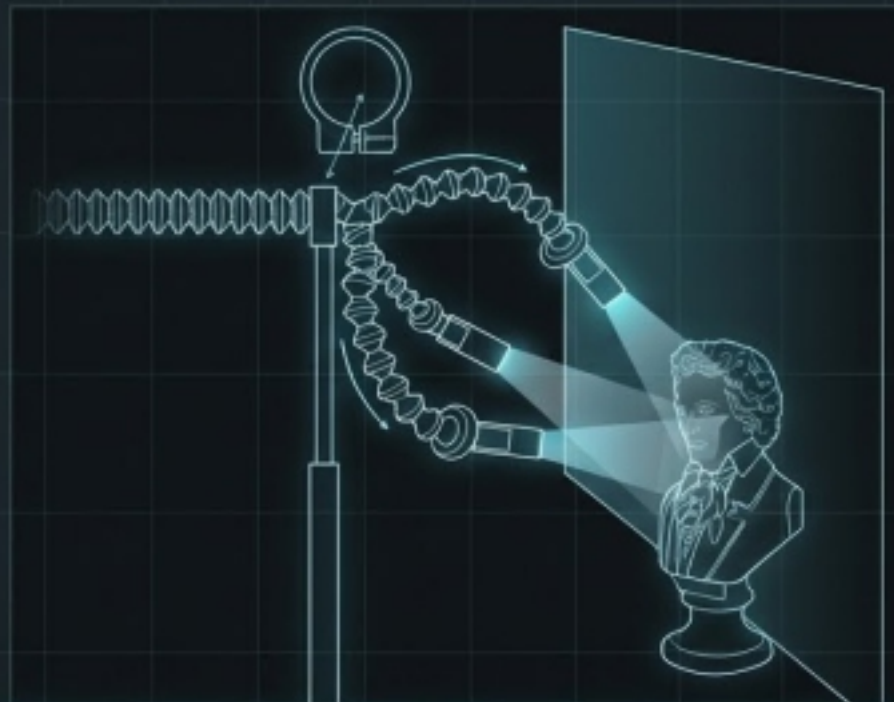
The Opti-Strobe provides absolute shadowless, 360-degree illumination via flexible loc-line arms. Because there is no bulb and no electrical wire near the subject, the lighting remains 100% cold, preserving the structural integrity of delicate macro subjects indefinitely.



APPLICATION: SCULPTING DRAMATIC TABLETOP FORM



Achieving high-contrast, localized dramatic lighting on small products typically requires a labyrinth of baffles, flags, and tiny softboxes.



Multiple Opti-Probes allow the photographer to paint highlights precisely where needed, throwing deep, controlled shadows or introducing vibrant color gels without light spilling across the rest of the set.




APPLICATION: SOFT GRADIENTS AND SPECULAR SURFACES



Hard light is not always the answer. When photographing highly reflective or specular subjects like food, jewelry, or liquid, smooth gradients are required.



By swapping the focusing snoots for Diffusion Head Attachments, the pinpoint beams are scattered into beautifully soft, even illumination—perfect for creating elegant, continuous highlights on curved commercial products.



STROBE HEAD
INTERFACE

FIBER OPTIC BUNDLE
CONNECTION

LENS SYSTEM

FOCUSING SNOOT

BRIDGING STUDIO POWER AND MICROSCOPIC PRECISION

The Opti-Strobe ecosystem removes the physical barriers between your existing strobe power and your macro subjects. Cold, perfectly controllable, and infinitely modular.

**UPGRADE YOUR EXISTING STROBES. ELIMINATE
THE CLUTTER. ILLUMINATE THE UNSEEN.**

PERMANENTLY
MOUNTED
(No-Line Style)

FOCUSING SNOOT



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