

ODYSSEY-4

Precision Laser Wire Stripping Systems



**Highest performance systems for stripping enamels,
such as polyimide from small gage wires.**

Perfect solution for medical device manufacture.

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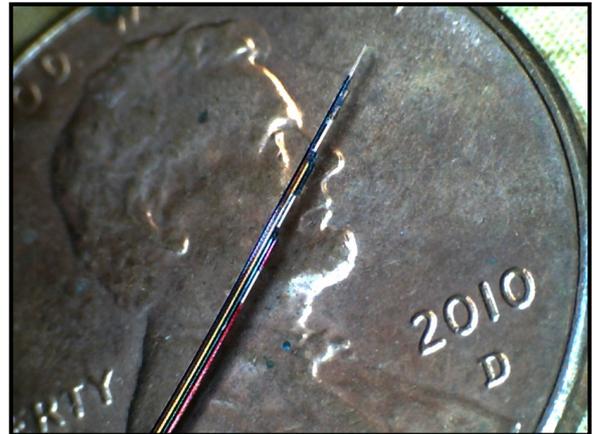
Laser Wire Solutions' Odyssey laser wire strippers are tailored to the needs of polyimide coated type wires used in electrophysiology electrodes.



Enamelled bi-filar stripped and cut by an Odyssey system

Technology

Featuring ultra-violet laser technology, the Odyssey strippers vaporize any polyimide-type insulation cleanly and precisely, whilst harmlessly reflecting from the shield or conductor, giving a perfect, nick-free strip every time. Unlike competing laser technologies no residue is left, so it is possible to connect to the wire without further chemical treatment.



Laser stripped micro ribbon cable

Features & Benefits

Compact: small footprint - can be retro-fitted into existing production lines where space is at a premium.

Unique: specially designed laser process to give unrivalled stripping performance for polyimide type wires.

Clean results: all insulation vaporized in stripping area. No residue, no damage. Reduce expensive scrappage.

Precise and reliable: strip wires from 30 AWG down to 58 AWG and smaller. +/- 0.001 inch positioning repeatability for the best quality, every time.

Versatile: adjustable settings to allow wires to be laser cut as well as laser stripped. Strip single wires or ribbons (bi-filar, tri-filar, twisted pair etc.).

Fast: Typically strip a wire end in around 1 second. Can be integrated with a wire feed system for automatic processing. Improve production efficiencies and yields.

Robust: industrial, sealed, minimal maintenance laser technology.

Customisable: fixtures customised to accommodate different wire and strip requirements.

Product validation: in-built camera vision system for quality assurance and peace of mind.

Specifications

Element	Odyssey-4
Operating environment	Light-duty, industrial environment. Cleanliness as a typical office. Floor mounted.
Operating temperature	18 to 28 degrees Celcius, 20-80% humidity (non condensing).
Electrical power	120V - 8 Amps 230V – 4 Amps Single phase supply, earthed and stable (spike and surge protected)
Compressed air	None
Fume extraction	570x360x360 mm dimensions Maximum 180 m ³ /hour air flow Pre-filter (F8 = 95% @ 0.9 microns) HEPA filter (H13 = 99.997% @ 0.3 microns) 115V, 1.2Amps / 135 Watts Weight 88 lbs
Processed material	Polyimide type insulations – no fluoropolymers Strip length: zero to 50 mm Strip width: up to 50 mm Diameter: typically up to 0.2 mm to ensure bottom and top strips join up
Laser type	Class 4 Frequency Tripled Nd:YAG laser (4Watts maximum average power @ 355 nm)
Optical system	High speed dual sided optical scanner with ftheta lens. 15 micron spot diameter
User control	7" PC Based Colour Touchscreen Storage for >99 recipes Offline graphical recipe creation and storage with PC ethernet upload / download Jobs held in non-volatile on board memory On board diagnostics – laser healthy, extraction on etc
Safety	Class 1 capable laser system incorporating a Class 4 laser product as per EN60825-1:2007 Category 3 Safety Related Control architecture designed to meet performance level PL _r = d when integrated with a Customer guard system Dual fail safe interlocked enclosure with monitoring Category 0 emergency stop
Machine dimensions (H x W x D)	Bench Unit: 620mm (24.41") x 200mm (7.87") x 760mm (29.92") – weight: approx. 40kg Under Bench Unit: 730mm (28.74") x 600mm (23.62") x 630mm (24.80") – weight: approx. 60 kg

OUR MARKETPLACE



We serve the global market, both directly and through the local Schleuniger sales network. All of our products comply with the latest US and European safety standards. For a full list of international contacts, visit us at www.laserwiresolutions.com.

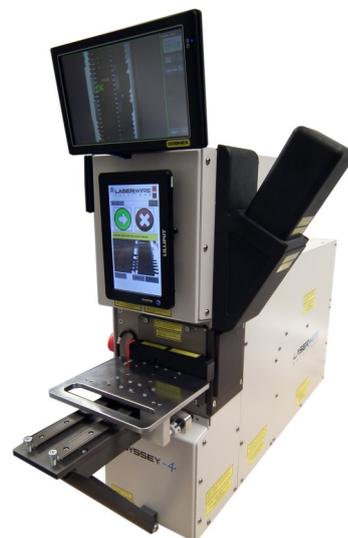
Laser Wire Solutions is a leading provider of laser stripping solutions for the highest quality medical, defense and aerospace interconnects. We can support you with proof of principle samples, contract manufacturing services or machine supply, including customization. Check out our [website](http://www.laserwiresolutions.com) for more information.

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