



Datasheet

Odyssey-4



Precision Laser Wire Stripping System

Highest performance systems for stripping enamels, such as polyimide from small gage wires. The perfect solution for medical device manufacture.

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

Featuring ultra-violet laser technology, the Odyssey vaporizes any polyimide-type insulation cleanly and precisely, whilst harmlessly reflecting from the shield or conductor, giving a perfect, nick-free strip every time.

Clean Results

All insulation is vaporized within the stripping area. There is no residue and no damage to the conductors, reducing expensive scrappage.

Adaptable

The machine has adjustable settings to allow wires to be laser cut as well as laser stripped. You can strip single wires or ribbons (bi-filar, tri-filar, twisted pair etc.).

Precision Focused

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

Key Features

- Bench top system
- UV laser for fine enamel stripping
- Fixture plate for loading multiple wires
- Optional camera to check wire position and strip

Key Applications

- Catheter wires before connecting to rings
- Micro-coax shield cutting

Suitable Materials

- Polyurathane Enamel EW / EWF
- Polyester Enamel PEW
- Polyester-imide EIW
- Polyamide-imide
- Kapton
- ML
- PTFE or ETFE (on request)

Laser

<ul style="list-style-type: none">• Type• Wavelength• Power	<ul style="list-style-type: none">• Integrated UV Laser• 0.355µm• 3 or 5W available
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Processing

<ul style="list-style-type: none">• Processing Area• Processing Speed• Processing Length• Wire Diameters	<ul style="list-style-type: none">• 50x50mm (2"x2")• Up to 300m/s (12"/s)• Up to 50mm (2")• Up to 0.25mm (0.01")
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User Interface

<ul style="list-style-type: none">• HMI• Control Device• Diagnostics• Process Triggering Options	<ul style="list-style-type: none">• Integrated Touchscreen• Integrated PC with Laser Wire Software• On board diagnostics• HMI or Foot Switch
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Safety

<ul style="list-style-type: none">• Overall Machine Rating• Laser Rating• Emergency Stop	<ul style="list-style-type: none">• Class 1 (As per EN60825-1:2007)• Class 4• Yes
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Operating Conditions

<ul style="list-style-type: none">• Environment• Temperature• Humidity	<ul style="list-style-type: none">• Light duty, industrial environment• 15.5 – 32oC (60 – 90oF)• 20 – 80%, Non-Condensing
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Electrical

<ul style="list-style-type: none">• Power• Power Consumption (Typical)	<ul style="list-style-type: none">• 120V, 8A or 230V, 4A Single phase supply• 1.5kW
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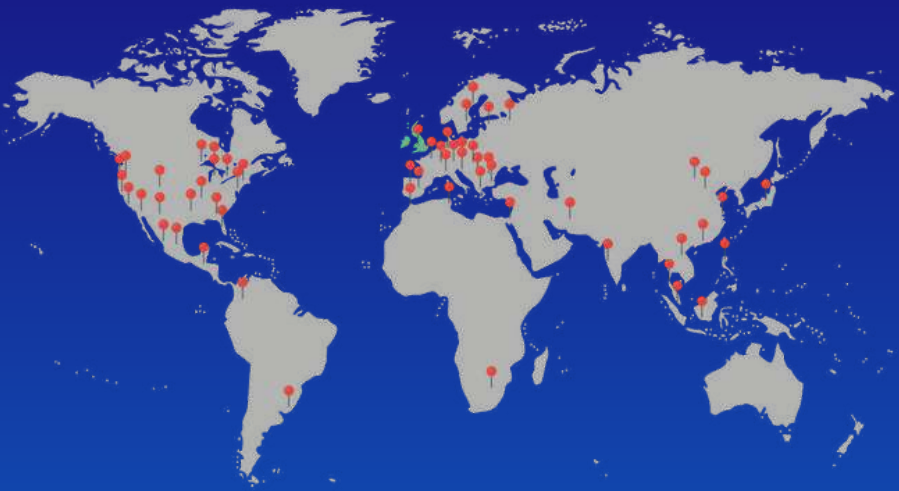
Acoustic Noise

<ul style="list-style-type: none">• Machine• Fume Extractor (Optional)	<ul style="list-style-type: none">• 69dB(A)• 75dB(A)
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Mechanical

<ul style="list-style-type: none">• Dimensions (LxWxH)<ul style="list-style-type: none">◦ Laser Processing Unit◦ Electrical Cabinet• Umbilical Length (m)• Weight<ul style="list-style-type: none">◦ Laser Processing Unit◦ Electrical Cabinet	<ul style="list-style-type: none">• 620 x 200 x 760 mm• 730 x 600 x 630 mm• ≥1.5 meters• 40kg (88lbs)• 60kg (132lbs)
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We Have A Global Footprint

With our partners, distributors, and customers located across Europe, North America and Mexico, our expert team is well prepared to help you find the right solution for your precision wire stripping needs.

Get in Touch Today

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SAFETY INFORMATION

Please read the instruction manual carefully in order to safely operate any Laser Wire Solutions products.

The information contained in this publication is based on Laser Wire Solutions' internal research and evaluation at the time of release and is subject to change without notice. Specifications are expressed in metric units.