



Datasheet

Odyssey-4E



Precision Laser Wire Stripping System

The Odyssey-4E is an extended version of our Odyssey-4 UV laser wire stripping system with double the processing area: 4" x 4" (100 mm x 100 mm) instead of 2" x 2" (50 mm x 50 mm). This means it can strip up to double the quantity of wires at any one time.

As with the standard Odyssey-4 unit, the Odyssey-4E is especially suited to strip very fine, delicate enamel wires, such as those used in medical device manufacture.

Featuring ultra-violet laser technology, the Odyssey vaporizes any polyimide-type insulation cleanly and precisely.

Clean Results

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

Flexible

The system handles single and multiple wires with a special wire fixturing system, that can be removed from the machine for easier pre-loading, if required.

Automation Available

An inline version is available which can allow the wires to strip automatically and run from spool to spool using a precision wire transport system.

Key User Benefits

- Enhanced productivity through a higher yield of stripped wires and greater automation
- Accelerated release to market of new medical devices
- Reduction in expensive scrap

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• 3W or 6W 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">• 100x100mm (4"x4")• Up to 300m/s (12"/s)• Up to 100mm (4")• 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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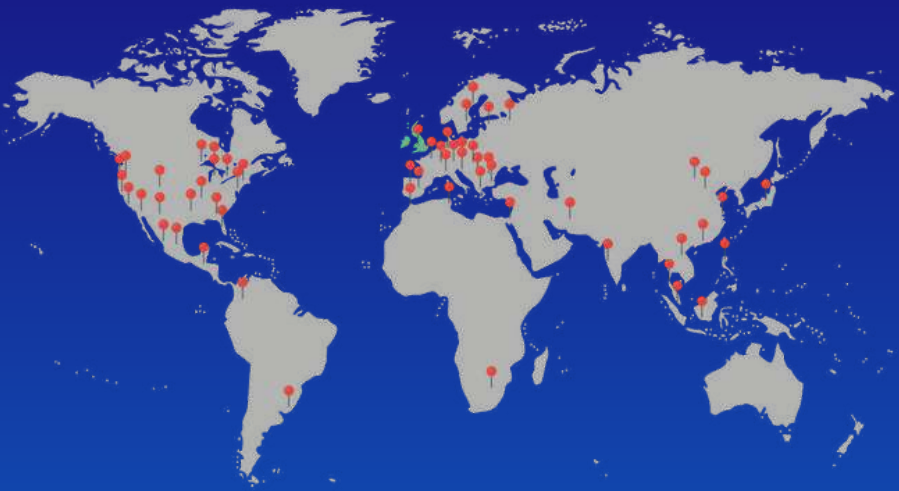
Acoustic Noise

<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• > 1.5M• 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.