

CAPRIS® 50-100

Entry level bench top UV laser wire marking system

for aircraft MRO and light manufacturing applications: the safe, permanent, cost effective solution for marking thin wall wire and cable

**MARK,
MEASURE
& CUT**



POWERED BY

LONGBOW



marking

CAPRIS 50-100 & CAPRIS 50-100 PCS

The affordable alternative to hot stamp wire marking.

The **CAPRIS 50-100** is the World's first bench top UV laser wire marker, from Spectrum Technologies: the world leader in the design and manufacture of UV laser wire marking and processing systems. It has been developed specifically to provide an affordable replacement to hot stamp wire marking, which is considered an aggressive process and unsuitable for marking current thin wall aerospace wires in particular.

The **CAPRIS 50-100** is a milestone development in UV laser wire marking technology, featuring all the benefits of Spectrum's market leading **CAPRIS** wire marking systems packaged into a low cost bench top unit.

Designed for the processing of single core wires and multicore cables employed in the aerospace and other key industries, the **CAPRIS 50-100** provides mark,

measure and cut capabilities for wires from 26 AWG up to 6 AWG. The system is designed for total simplicity: data inputting via the membrane key pad. Wires are easily loaded for processing and wire changes require no alterations to the wire transport or marking system. Optionally, the system can be provided with a PC-based control system.

Typical applications include aircraft maintenance and modification centres, low volume harness production, cellular manufacturing and rework stations.

Spectrum offers worldwide customer support from a dedicated team of field service engineers or by fully trained local service agents with the addition of a telephone technical helpline operating around the global clock.



CAPRIS 50-100 CONTROL OPTIONS

The *CAPRIS* 50-100 comes in two versions: the microprocessor controlled base system or the PC controlled *CAPRIS* 50-100 PCS.

CAPRIS 50-100 - Microprocessor controlled system

The standard *CAPRIS* 50-100 has a built-on microprocessor that offers the possibility to mark either single wire sections or batch files immediately. Data is input via a membrane keypad and 4 line liquid crystal display.

Data may only be input manually and the system has built in storage for 32,000 characters (around 1,000 wires). This is suitable for operations producing single wires or small jobs. However, for higher volume work the PC option is recommended.

CAPRIS 50-100 PCS - PC controlled system

The *CAPRIS* 50-100 PCS includes a separate PC and Windows™ based *CAPRIS* control software. This software allows full control of the *CAPRIS* 50-100, where job files can be created, selected and started from the PC user interface. Another benefit is the ability to process individual jobs which are greater than the physical memory of the stand alone *CAPRIS* 50-100. This is achieved by buffering the data so that only 8 records are in memory at any given time giving a huge virtual memory capacity.

The *CAPRIS* Windows user interface is simple but more flexible than the microprocessor system, appearing like an Excel spreadsheet. The PC software allows job files to be created or imported from Excel (*.CSV), Access, text files (*.JLT) etc. These jobs can then be downloaded to the *CAPRIS* 50-100 from the PC. Existing jobs can also be uploaded from the *CAPRIS* 50-100 to the PC for backup in case of system failure.

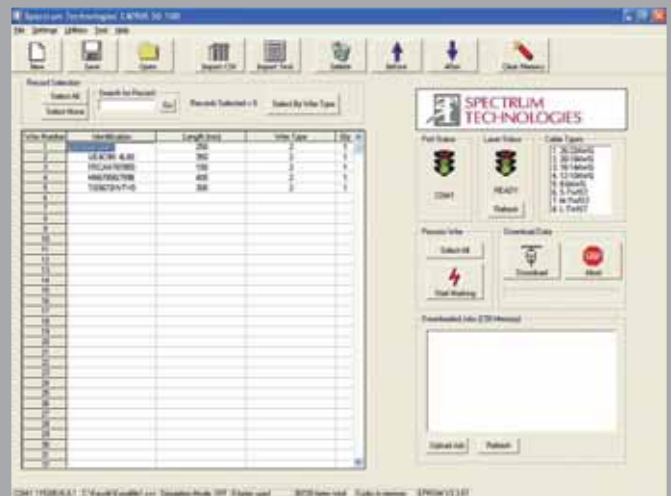
The PC allows data to be accessed from a 3.5" disc, DVD or more commonly via a standard network connection.

A further significant advantage of the PC based system is the increased maximum number of characters that may be printed in an individual wire; at 60 characters this is double that of the microprocessor based system.

CAPRIS UV laser marked wire and cable samples.
Includes optional source / destination codes at wire ends



Example of *CAPRIS* 50-100 operating screen



quality, accuracy and performance

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CAPRIS 50-100

Mark-Measure-Cut: Entry level bench top UV laser wire marking system

Summary specification

- | | |
|-----------------------|---|
| Laser marker | <ul style="list-style-type: none"> • Ultraviolet (UV) 355 nm solid state Nd:YAG laser • Precision character mask unlimited life • Class 1 laser product for use on open shop floor • CE approved • Complies fully with SAE AIR 5468 Rev. A and EN3475 Part 706 |
| Print specification | <ul style="list-style-type: none"> • 30 characters (max) per mark as standard • Full alpha-numeric character set A-Z (upper case), 0-9 plus extra characters ● / - * () < > plus a blank space (45 in total) • Three print sizes as standard:
Small vertical: 1.00 x 0.75mm (0.039 x 0.030")
Med. horiz: 1.10 x 0.82mm (0.043 x 0.032")
Large horiz: 1.33 x 1.00mm (0.052 x 0.039") • Mark spacing from 25mm to 400mm (1 to 15") • Inter character spacing ranges from 3mm to 5mm (0.12 to 0.20 inc) • Ergonomic 'Spectrum Univers' font • Complies fully with SAE ARP 5607 |
| Wire processing spec. | <ul style="list-style-type: none"> • Maximum speed: up to 8m / min (26 ft/min) (Subject to the number of characters and mark spacing) • Wire size range: 26 AWG - 6 AWG (0.75 mm to 6.35 mm OD), single core wire or multi core cable • Min / max cable length: 150 mm (6") / 250m (10,000") - nominal • Accuracy of processed wire and cable length: -0% / +0.25% (typical) +0.5% (maximum) |

- | | |
|----------------------|---|
| Wire types | <ul style="list-style-type: none"> • Tape wrapped wires: <ul style="list-style-type: none"> • Polyimide / Kapton wires: dispersion coated Teflon (PTFE), ETFE and FEP, e.g. Airbus CF • Teflon tape wrapped (TKT/TK) e.g. BMS 13-60, M22759/80 to 92, Airbus DK, DR, AD • Extruded wires: Teflon (PTFE), Tefzel (ETFE, XLETFE) e.g. BMS 13-48, M22759/32 etc., or FEP • Kapton, Teflon and Tefzel are Registered Trademarks of DuPont |
| Wire handling | <ul style="list-style-type: none"> • Unpowered dereeler and powered coiling pan for wire feeding / collection included • Electric cutter up to 5.5 mm OD (larger wires must be cut with external cutter) |
| Control | <ul style="list-style-type: none"> • Simple microprocessor controlled system with membrane keypad for data entry • Manual entry of wire 'ident', mark spacing and wire length • Connection for optional external PC via RS232 interface |
| Site requirements | <ul style="list-style-type: none"> • 220-240 V, 50 Hz or 110-120 V, 60 Hz (Single phase) or other voltages as specified • All electric-powered, no need for compressed air services |
| Operating conditions | <ul style="list-style-type: none"> • Ambient temperature 15°C to 30°C (60°F to 86°F) • Relative humidity 20% to 80% (non condensing) |
| Support | <ul style="list-style-type: none"> • Full 12 months parts and labour on site warranty • Maintenance contracts available • Technical helpdesk assistance |

CAPRIS 50-100 PCS

PC/Windows software controlled system

Specification as above, plus:

- | | |
|---------------------|---|
| Print Specification | <ul style="list-style-type: none"> • 60 characters (maximum) per identification mark as standard |
| PC Specification | <ul style="list-style-type: none"> • CAPRIS Windows custom software interface • 40GB Hard drive (minimum) • 256 MB RAM • 15" monitor (Flat Panel) • Windows 2000, XP • 1 x RS232 Port (minimum) • 1 x USB (minimum) • Integrated 10/100 network |
| Record options | <p>Enables the easy:</p> <ul style="list-style-type: none"> • Addition of records • Modification of records • Removal of records |

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