

# SIENNA™ 200 series

Entry-level dual beam laser wire stripping systems for small gauge wires used in electronics applications.



stripping

# SIENNA™ 200

## Dual beam laser wire strippers

The SIENNA 200 series is the entry-level range of CO2 infra-red laser wire stripping systems designed and manufactured by Spectrum Technologies.

SIENNA 200 series systems are compact, bench-top systems suitable for processing the majority of wire types and insulation materials used in electronics manufacture, specifically consumer electronics, medical and telecommunications applications.

The systems have laser beam focussing heads at the top and bottom of the tooling fixture and the beam alternates between the two to process above and below the wire.

The systems come in three configurations: single axis where the laser head has only one direction of movement; dual axis where there are two axes of movement; and fixed beam, where the laser head is fixed in one place.

The fixed beam version is usually set up with a moving external stage allowing the cables and/or assemblies to be moved around freely beneath the laser beam. This offers more processing flexibility.

Speed and laser power are easily adjusted using the integrated control keypad on the single axis and fixed beam versions; the dual axis version can also be programmed and controlled by PC.

### Benefits of the SIENNA 200 series

- High quality and damage-free - the laser is reflected off the conductor, plating, or other metallic surfaces
- Accurate
- Repeatable
- One machine for all wire configurations - single wire, twisted pairs, coaxial and ribbon cables
- Processes multiple wires or cables simultaneously
- Laser strips high temperature, hard or soft insulation materials effectively
- End strips, window strips and other patterns easily performed in one operation
- Increased job storage on dual axis versions due to PC software

To comply with health and safety requirements, air exhaust must be provided when using any laser wire stripper. If this is not available in your factory, Spectrum's ACS-5 systems remove all smoke, odours, particles and fumes from the laser stripping area and return clean air to the room.



To discuss any of your requirements please contact us at [sales@spectrumtech.com](mailto:sales@spectrumtech.com) or on +44 (0)1656 655 437.



## Summary Specification

Model	SIENNA 210S	SIENNA 210D	SIENNA 225FB
Laser	10 Watt air cooled CO2 Class 1		25 Watt air cooled CO2 Class 4
Configuration	Single axis	Dual axis	Fixed beam
Control	Microprocessor with keypad	Microprocessor with keypad or PC	Microprocessor with keypad
Wire Types	Single core wire Twin leads Twisted pairs Multi-conductor & ribbon cables		
Wire Sizes	<6mm (0.24") OD Or ribbon cable <100mm (4") wide		
Accuracy	+/- 0.2 mm (0.008")		
Process Area	100mm in X or Y direction	100 mm x 100 mm (4" x 4")	N/A
Strip patterns	End strips only	End strips, longitudinal strips, window strips, simple patterns	N/A
Insulation types (non-exhaustive)	PTFE / Teflon® Tefzel® PVC Polyurethane Silicon Kapton® Polyimide Polyesterimide		
Power Requirements	110 - 120 Vac, 50/60 Hz 3 Amp. 1 phase 220 - 240 Vac, 50/60 Hz 1.5 Amp. 1 phase		
Operating Conditions	• Ambient temperature 15°C to 30°C (60°F to 86°F) as standard • Relative humidity 20% to 80% (non condensing)		
Dimensions L x W x H	1085 x 410 x 510 mm (43" x 16" x 20")	1085 x 410 x 510 mm (43" x 16" x 20")	980 x 410 x 510 mm (38.5" x 16" x 20")
Weight	45kg (99 lbs)	45kg (99 lbs)	40kg (88 lbs)
Options	• ACS5		

### Examples of cable and strip patterns that can be processed

Flat ribbon cable, 18 mm (0.71") wide, end stripped by a dual axis SIENNA system



3mm (0.1") OD coaxial cable, end stripped and window stripped using a SIENNA 210D



5mm OD high temperature shielded 3 core cable; end strip & window strip performed by a SIENNA 210D



- All SIENNA systems are Class 1 laser products for use on open shop floor, unless otherwise stated
- Complies to CAT 3 electrical safety category and all CE marking and FDA regulations
- 12 month return to base warranty on all new systems
- Worldwide customer support from a dedicated team of Field Service Engineers or by fully trained Service Agents
- Technical helpline operating across the global clock
- Operational training for Production and Technical personnel carried out at installation
- Maintenance contracts available to keep systems operating at optimum performance

SIENNA is a trademark of Spectrum Technologies PLC  
COPYRIGHT 2012 SPECTRUM TECHNOLOGIES PLC. All rights reserved.  
Specification subject to change without prior notice to provide for continuous product improvement.

**Europe:**  
Spectrum Technologies PLC  
Western Avenue  
Bridgend,  
CF31 3RT  
UK

**North America:**  
Spectrum Technologies USA Inc  
Fossil Creek Tech Center  
3934 Sandshell Drive  
Fort Worth, TX, 76137  
USA

**Asia-Pacific:**  
Spectrum Technologies Asia Pacific  
5/F Yang Guang World Tower, 2000,  
Pudong Avenue,  
Shanghai, 200135  
P. R. China

T: +44 (0)1656 655437  
F: +44 (0)1656 655920

T: +1 817 232 2373  
F: +1 817 232 4354

T: +86 (0)21 6182 8088 ext.. 5263