



In semi-automatic or automatic welding systems the operation and control of the welding head mainly occurs from a control station. Optimal positioning and adjustment of the welding process requires a visual inspection.

Our **Super Miniature Welding Camera Solution** (system **only 20 x 20 x 18mm**) is ideal for use in small and tight viewing areas. The **WCS-SM** is a **monochrome (B&W)** analogue video camera designed for simple applications where a fixed field of view is required in **small and tight locations**. The camera delivers a sharp black & white picture which permits optimal viewing of the welding head, workpiece and the welding arc. The camera automatically compensates exposure during switchover to arc-ignition.

It can be fitted with a wide range of M12 S-mount lenses. The lens can be focussed simply and easily, and can be fixed by means of a locking nut. Close up adapters are also available.

N.B. This camera is recommended only for TIG Welding.

Our other welding camera systems include :

- WCS-Z Zoom Lens Camera System
- WCS-Z2F Two Filter Zoom Lens Camera
- WCS-P Prime Lens Camera System
- WCS-M Miniature Monochrome Camera
- WCS-U Miniature Colour USB Camera

Please contact SeeSense for further details & **advice about suitable lenses:**

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SUPER MINI TIG WELDING CAMERA SYSTEM

Features:

- Miniature camera system (no Control Unit)
- Ideal for viewing TIG welding processes in small and tight locations
- ONLY 20 x 20 x 18mm
- 1/3-inch 1-CMOS sensor
- Monochrome (Black & White) Image
- Standard PAL output
- Uses Nativ Wide Dynamic Range™ technology
- Totally Automatic operation
- Automatic switch-over at arc-ignition
- Optional Water Cooling System
- Weight Only 40 g.

Specification:

Power Requirements	12 V DC
Power Supply	100 - 240 V AC
Image Sensor	1/3-inch CMOS Monochrome
Output Pixels	768 x 576 PAL standard
Output system	PAL Standard Composite Video
Lenses	M12 - S-mount Comprehensive range available Please contact SeeSense with your requirements
Aperture	Depends upon lens selection
Resolution	460 TV lines standard (vertical and horizontal)
Spectral Range	450 nm - 1050 nm
Shutter Mode	Fixed
Frame Rate	25 fps @ 768 x 576 (interlaced)
Dynamic Range	Uses Nativ Wide Dynamic Range™ Technology
Gain	Fixed
Camera cable	Contact SeeSense for your required length
Cooling	Optional water cooling system Uses 4mm push in connectors
Mount	Camera - 2 x M12 screw Cooling plate - Standard camera mount
Dimensions	Camera Head: 20mm (W) x 20mm (H) x 18mm (D)
Weight	Camera Head: approximately 40 grammes
Operating Temp.	0°C to +50°C

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