

*Better Images. Better Decisions. Better Process Control.*

The **Xiris XVC-S100** is a ruggedized color weld camera designed to remotely view and monitor Submerged Arc Welding (SAW) processes, leading to improved operator safety and efficiency.

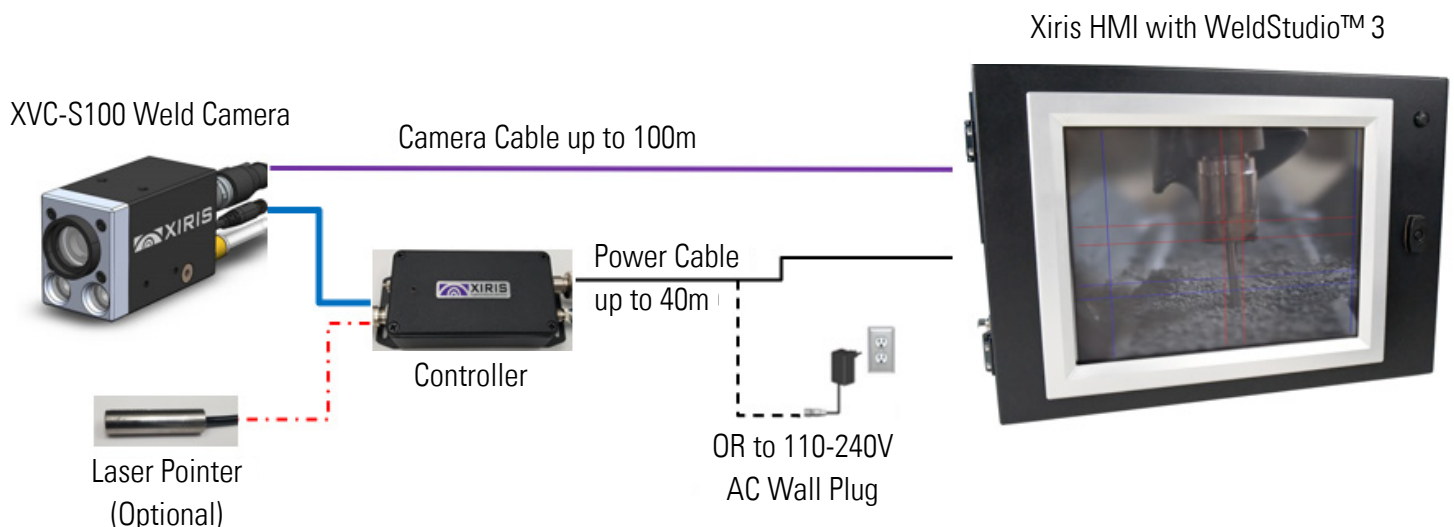
With the XVC-S100, features such as wire-to-joint alignment, wire feeding or flux coverage can be monitored during welding. After welding, an optional second camera can be used to inspect the quality of the bead following slag removal.



## **Benefits**

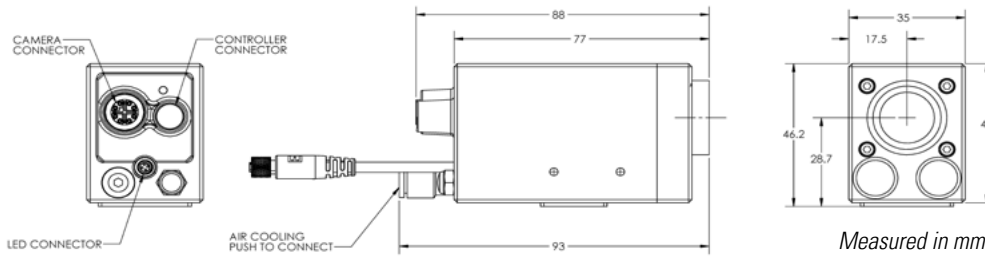
- Meet strict health and safety requirements by allowing operators to observe the welding process remotely, avoiding inhalation of dangerous welding fumes and working in confined locations.
- Gain a detailed view of the Sub-Arc process during set-up, in-process, and post-weld thanks to the high-resolution, low light sensitivity sensor combined with integrated LED illumination, optics, and cooling.
- Remain Industry 4.0 ready with the support of Xiris WeldStudio™ 3 software that features touchscreen capability, multiple crosshair overlay tools, and video recording and playback.
- Monitor multiple welding processes such as GTAW, GMAW, Sub-Arc and more in a hybrid cell using a single display when the XVC-S100 is integrated with other Xiris open-arc weld monitoring cameras.

## **Camera System Outline with HMI**



# Xiris® XVC-S100 Weld Camera

## Camera Outline



## Camera Optics FoV

Working Distance (mm)	Field of View (FoV)
<b>100</b>	58 x 32
<b>200</b>	111 x 65
<b>300</b>	164 x 93
<b>400</b>	217 x 123
<b>500</b>	270 x 155
<b>1000</b>	520 x 290

## Camera Specifications

Dimensions (mm)	Camera: 35 (W) x 46 (H) x 93 (L) Controller: 61 (W) x 33 (H) x 113 (L)	Software	Xiris WeldStudio™ 3 Xiris WeldStudio™ 3 Pro (Optional)
Weight	Camera Assembly: 550g Controller: 600g	Shutter	Global
Power	110/240V AC with Wall Plug Adaptor or 24VDC to the Controller	LED Illumination	2 High Intensity White LEDs, Controlled via Software
Environmental Rating	IP65	Camera Resolution	1920 x 1080 Pixels
Environment (Non-Condensing)	Ambient: < 45° C (No Cooling) With Air Cooling: < 80° C With Water Cooling: < 120° C 6 mm push to connect fittings	Image Data Format	8 Bit, up to 40 fps full resolution
Camera Cable Connector	M12 X-Coded Ethernet (Cat 6+)	Camera Controls	Auto Exposure and Gain, Frame Rate, AOI
Lens	Included S-Mount lens with field adjustable focus	Zoom and Pan	Digital, via Software
HMI / PC Compatibility	Xiris XVC-HMI Controller / Fanless PC <i>Customer PC with Minimum Specs:</i> CPU Intel i5 Gen8 with 4 Cores, >2 GHz base, 4.5 GHz Turbo, 8 GB RAM and 256 GB SSD. 1 Gbps Ethernet with jumbo frames, two 3.1 USB ports.	Mounting	Bottom, Top or Side using Isolation plate, with ¼" UNC / 4x M3 mm threads  Flexible Mounting Arm (Optional)
Laser Pointer (Optional)	Class 1M, Red Laser Crosshair, Line, On/Off controlled via software	Compliance	CE, FCC, RoHS

Related accessories including optics, cables, controllers, HMIs, power adapters, the Xiris WeldMic™ and protective housings are available and can be discussed with your Xiris sales representative.

**Please contact your Xiris sales representative for further information.**



POLYTEC GmbH  
T: +49 (7243) 604-4540

Polytec-Platz 1 - 7  
Fax: +49 (7243) 699 44

D-76337 Waldbronn  
E-Mail: wl@polytec.de

GERMANY  
www.polytec.de