

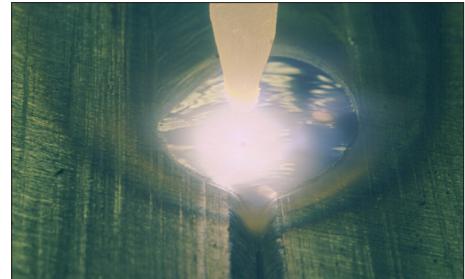
Better Images. Better Decisions. Better Process Control.

The **Xiris XVC-310** weld camera is a tiny color camera with 120+ dB HDR capability, designed to remotely view and monitor GTAW and Plasma welding processes where space is limited such as in Narrow Gap and Orbital welding applications.

Features such as the TIG tip, melt pool, weld bead, weld seam, parent material and wire feeding can be easily monitored before, during and after welding.



GTAW/TIG



Plasma



Benefits

- **High-Resolution Imaging:** HDR-enabled camera produces HD color images with >120dB of dynamic range, ensuring operators a clear and uninterrupted view of setup and welding.
- **Easy Retrofitting:** Compact with a diameter of 17mm allows for easy replacement of older Lipstick-style cameras, requiring minimal changes for a technician to upgrade.
- **Multiple Cameras on One Display:** Multiple Xiris cameras can be seamlessly displayed and controlled from the same screen.
- **Simplified Cable Management:** Uses a single coaxial cable (up to 10 meters) for video signal transmission to camera controller, which in turn connects to a PC via GigE or POE, ensuring reliable data transmission up to an additional 100 meters.
- **Versatile Lens Options:** Several standard lens options are available to suit various working distances and field-of-view requirements, ensuring adaptability for most applications.
- **Software Compatibility:** Compatible with Xiris' WeldStudio and WeldStudio Pro software packages for camera control, video display, recording and playback as well as machine vision and AI tools for Industry 4.0 process control.

Xiris® Xiris XVC-310 Lipstick Weld Camera

Standard Lens Chart

WD (mm)	F=17.5 Lens, FOV max (mm)	F=8 Lens, FOV max (mm)
50	--	29 x 21
75	16 x 11	41 x 30
100	22 x 16	56 x 40
150	34 x 24	80 x 57
200	46 x 33	106 x 75

Camera Head



System



Camera and Controller Specifications

Dimensions (mm)	Camera: 17 Ø x 83 (L) Controller: 100 (W) x 50 (H) x 150 (L)	Software	Xiris WeldStudio™ 3 (Optional) WeldStudio™ 3 Pro
Weight	Camera: 80g Controller: 600g	Camera Resolution	1344 x 968 Pixels Rolling Shutter
Power	POE (Power over Ethernet). Or via 24VDC (1A) Universal Wall Plug	Image Data Format	Color 16 Bit HDR, up to 40 fps
Environmental	IP65	Lens	Included S-Mount lens and Filter Cap with Field Adjustable Focus
Environmental Temperature	Ambient up to 45°C. No cooling. With cooling mount up to 80°C With cooling housing up to 300°C	HMI Options	Xiris HMI Controller Fanless PC Suitable Customer PC
Camera Controller Connector to PC	M12 X-Coded Ethernet (Cat 6+)	Camera Controls	Exposure, Gain, Saturation, Frame Rate, AOI, Graphical Overlays, Color Controls
Optional Illumination	Integrated with cooling mount, OR can use external illumination	Compliance	CE, FCC, RoHS

Specifications are subject to change without notice. April 2024.

All accessories, such as optics, cables, controllers, HMIs, power adapters, welding microphone and industrial housings can also be provided.

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