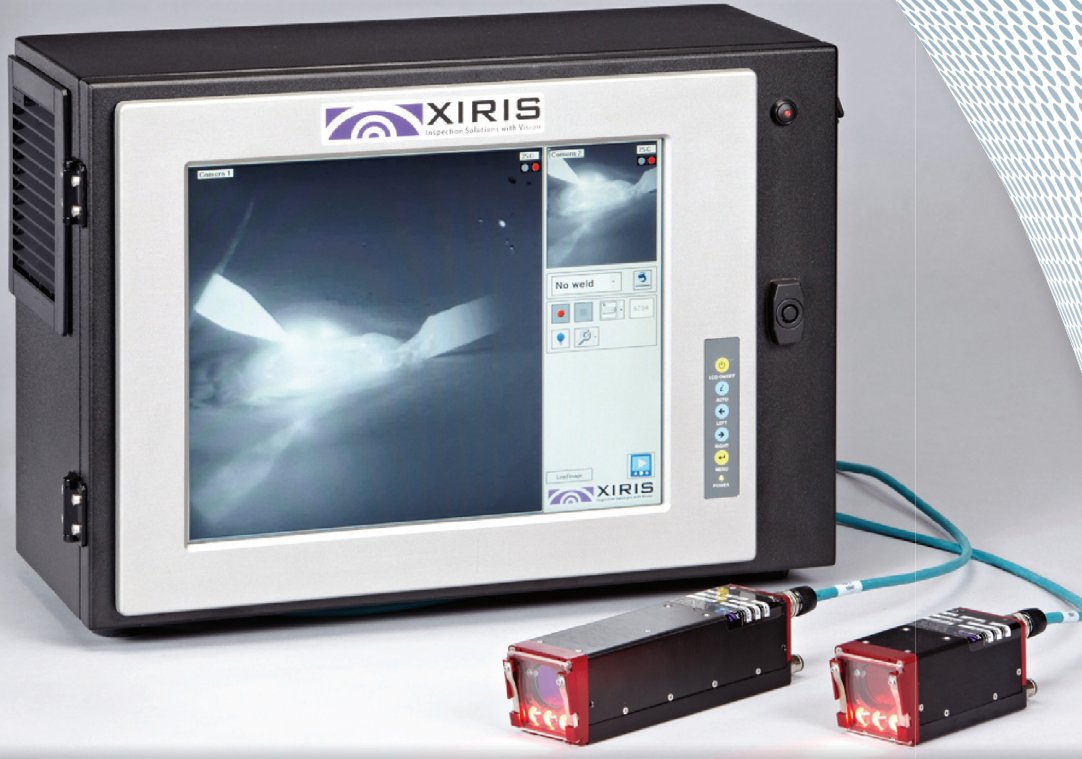


Xiris® XVC-O Open Arc Weld Camera



Better Images. Better Decisions. Better Process Control.



Why consider the XVC-O?

The **Xiris XVC-O** Weld Camera system is intended for monitoring all open arc welding processes such as, MIG, MAG, TIG, Plasma, Laser or Stick.

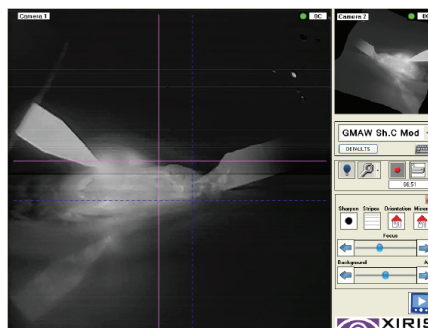
Combining sophisticated sensor technology with advanced electronics to provide high contrast, high dynamic range images, the **XVC-O** Weld Camera delivers a clear view of the brightest features of a welding torch tip while still being able to see the weld pool and surrounding darker background.

The base package offers a complete robust system right out of the box, including Camera Module, HMI Console displaying the welding image, and rich software features that include image recording and playback. Additional options include air or liquid cooling, Window de-dusting, and a variety of Console and Camera mounts. Both the Camera Module and HMI Enclosure are IP54 rated, able to withstand harsh welding environments.

The ability of the **XVC-O** to be installed remotely from the operator allows the welding process to be viewed up to 40m / 130 ft away, providing real time views of the torch, weld areas and surrounding material during standard and high power welding conditions.

These superior features make the **XVC-O** the logical Camera system choice for remote viewing of Open Arc welding applications including:

- Pipe Cladding
- Orbital Welding
- Tailor Blank Welding
- Training / Education
- Ship Building
- Nuclear
- Pipelines
- Tube & Pipe Mills



Xiris® XVC-O - Open Arc Weld Camera System

Benefits

- **Reduced Set up time** - Better images reduce the time required to set up the weld tool and materials.
- **Operational productivity** - Allows Operator to make corrective adjustments to the welding process “on the fly”, reducing scrap and rework, and mitigating profit loss from weld failures in the field.
- **Troubleshooting** - Provides the ability to verify that the weld process is functioning correctly and identifies the source of any potential problems.
- **Health and safety** - Provides the means to remove the operator from the direct weld area, providing a quieter, cleaner, healthier and safer work environment.
- **Video recording** - Provides ability to record, store and playback vital Welding Processes off line for Quality Assurance monitoring and Process Verification.

Specifications

General

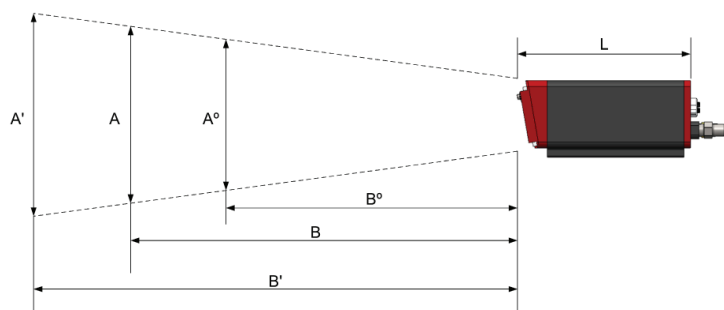
Operating Ambient Environment	10° - 35° C
Storage Environment	-20 to +60° C

HMI Console

Dimensions	484mm (W) x 212mm (D) x 340mm (H)
Weight	16 kg
Input Power	100 - 240 VAC, 50 - 60 Hz
Display Size and Type	15" Flat Panel LCD Touch Screen
Computer	PC running Windows® Embedded Operating System
Console Environmental Rating	IP54 / NEMA 13
Hard Disk Storage	Able to hold up to 45 hours of recorded video
Cooling	Dual Continuous Fans
Other Ports	USB, Ethernet, Video Output (Optional)
# of cameras per monitor	Up to 2

System Options

Window De-Dusting system	Camera and Console Mounting Options
Camera Air Cooling System	Active Camera/ HMI Console Air Cooling
Digital I/O Module	High Volume Video Drive



XVC-O Optical Specification Chart

	XVC-O80e/s	XVC-O34e	XVC-O21e	XVC-O8e
A°	59x59 mm	28x28 mm	17x17 mm	8.5x8.5 mm
A	83x83 mm	34x34 mm	21x21 mm	8.7x8.7 mm
A'	140x140 mm	45x45 mm	29.5x29.5 mm	9.5x9.5 mm
B°	240 mm	360 mm	365 mm	455 mm
B	345 mm	480 mm	480 mm	480 mm
B'	585 mm	670 mm	715 mm	520 mm
L	202 / 132 mm	202 mm	202 mm	202 mm

Notes: A - Field of View
B - Camera Working Distance
L - Camera Body Length
A°, A', B°, B' range are achievable via the remote focus in the camera module.

Camera Module

Dimensions	Approx. 51 x 51 x 132 mm (Short) Approx. 51 x 51 x 202 mm (Extended)
Weight	0.500 Kg (Short) / 0.650 Kg (Extended)
Environmental Rating	IP54 / NEMA 13
Sensor	Ultra High Dynamic Range (140db+)
Sensor Resolution	1280 (h) x 1024 (v)
Remote Camera Controls	Gain, Motorized Focus, Light Control Contrast Enhancement
Solid State Auxiliary Lighting	3 High Powered LEDs, controlled manually or via Weld-On Sensor
Camera Module Mounting	T-Slot, Compatible with M5 or 10-32 Screws
Front Protection	Removable Protective Glass Cover
Cable Lengths	10 / 20 / 30 / 40 m

Software Functions

Crosshairs & Target Grid	Contrast / Brightness Adjust
Automatic / Manual Light Control	Image Sharpening
Ability to Record, Playback Video	Up to 100X digital Image Zoom
Image Rotation (0°, 90°, 180°, 270°)	Image Mirroring

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Specifications are subject to change without notice. Please check our website for most recent details. Sept 2013.