

A group of students in a lab setting, looking at a large monitor displaying a bright light source, possibly a laser or plasma experiment. The students are wearing safety glasses and lab coats. The monitor is mounted on a stand, and the lab equipment is visible in the background.

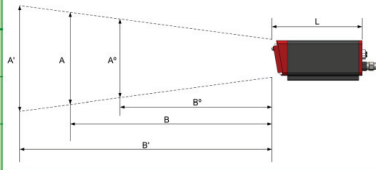
Xiris® XVC-O - Open Arc Weld Camera System for Educators

Benefits

- **Eliminates Space Constraints** – By using a camera connected to a remote monitor, multiple groups of students can simultaneously view the weld results without having to crowd around a single welding booth.
- **Train More Students, Faster** – Allows Instructors to explain and make corrective adjustments to the welding process “on the fly”, showing immediate results of any adjustments.
- **Reduce Cost per Student** – Provides the ability to increase class size without compromising the quality of instruction and offer new ways to deliver the instructional experience.
- **Health and safety** – Reduces unnecessary time spent directly around an open arc weld area for students and instructors, providing a healthier and safer instructional experience.
- **Video recording** – Provides ability to record, store and playback key Welding Processes off line for Instruction, Marking or generating Curriculum content.
- **Enhance Program Reputation** – Improves the students’ perception of your program, attracting and retaining more students. Opens opportunities for new ways to teach welding, including distance learning.

XVC-O Optical Specification Chart

	XVC-O80s
A°	59x59 mm
A	83x83 mm
A'	140x140 mm
B°	240 mm
B	345 mm
B'	585 mm
L	202 / 132 mm



Notes:
A – Field of View
B – Camera Working Distance
L – Camera Body Length
A°, A', B°, B' are factory set by custom requirements



Camera Module

Dimensions	Approx. 51 x 51 x 132 mm
Weight	0.500 Kg
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

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 Configuration

Single Camera Option	Double Camera Option
1 x Camera	2 x Camera
1 x 20 M Cable	2 x 20 M Cable
HMI Console with VGA out	HMI Console with VGA out
Air Preparation Unit	Air Preparation Unit
1 x Vortex Cooler for Camera	2 x Vortex Coolers for Cameras
1 x Camera Mounting Arm & Clamp	2 x Camera Mounting Arms & Clamps

General

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

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Specifications are subject to change without notice. Please check our website for most recent details. Feb 2014.