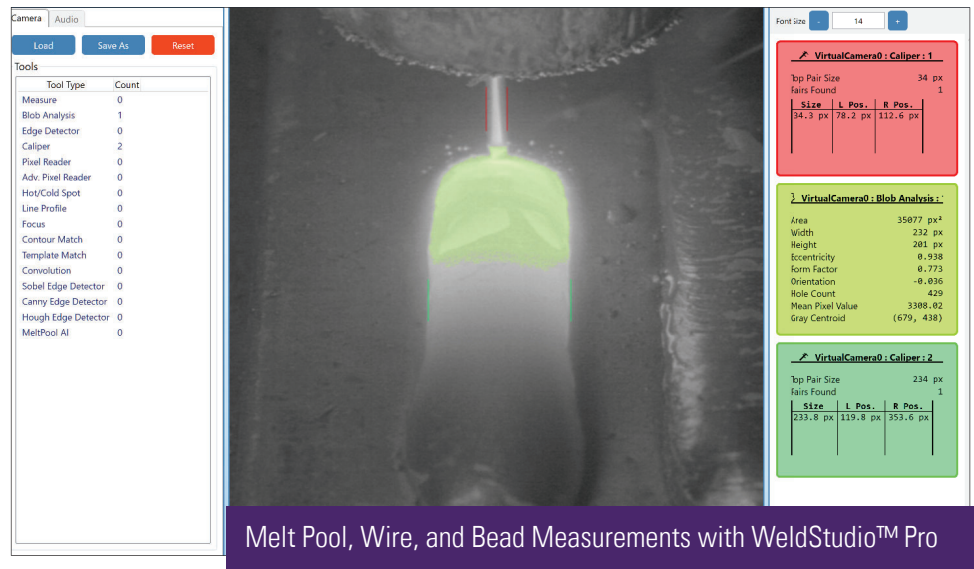# Xiris® *XVC-750 Weld Camera*

Better Images. Better Decisions. Better Process Control.

The **XVC-750** weld camera is an advanced Near InfraRed (NIR) imaging camera, with a remarkable 140+ dB High Dynamic Range (HDR) capability, well-suited for monitoring or analyzing Gas Metal Arc Welding (GMAW) and Gas Tungsten Arc Welding (GTAW) processes.

The **XVC-750** provides outstanding image contrast of the melt pool and cooling weld bead, and is suitable for precise geometric measurements and defect detection using **Machine Vision** and **AI** tools.

Melt Pool, Wire, and Bead Measurements with WeldStudio™ Pro

The XVC-750 offers several angled versions and accessories that make it compatible with a wide range of automated and robotic welding systems.

XIR-750 image, Burn-Through Defect

Precise melt pool and cooling weld bead measurements: achieved through higher-contrast images than standard visible light cameras.

Excels at detecting common welding defects: such as porosity, burn-through, seam misalignment and wire feeding issues.

Better scene illumination without lasers: Near-infrared illumination achieves better views of the welding process and the surrounding area without the use of potentially hazardous laser illumination.

Simplified cable management: uses a single Industrial Ethernet cable and connectors for transmission up to 100 meters.
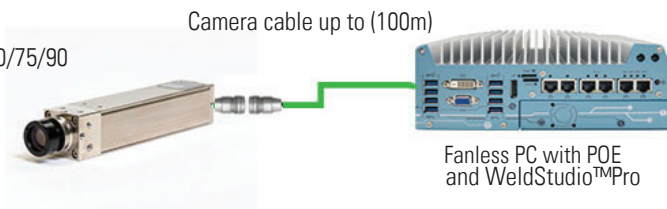
Advanced machine vision, including AI: camera is compatible with Xiris WeldStudio™ Pro providing real-time visualization, geometric measurements and data interfacing to automated systems.

Xiris® *XVC-750 Weld Camera*

Optics Chart

Lens	S-Mount: F=17mm	S-Mount: F=25mm	S-Mount: F=35mm	C-Mount F=50mm		C-Mount F=75mm	
WD (mm)	FoV (mm)	FoV (mm)	FoV (mm)	WD	FoV (mm)	WD	FoV (mm)
70	30 x 24	21 x 17	11 x 9				
100	44 x 35	31 x 25	18 x 15				
200	93 x 75	66 x 53	43 x 34	187-215	27 x 21	178-220	18 x 14
300	143 x 115	100 x 80		255-335	44 x 35	240-355	30 x 24
500	217 x 193	168 x 136				330-670	53 x 42

XVC-750 - 0/15/60/75/90

Camera cable up to (100m)

Fanless PC with POE and WeldStudio™Pro

1376° C

XVC-750 Specifications

Dimensions (mm)	22 W x 22 H x 107 L (0°)	Software	Xiris WeldStudio™ WeldStudio™ Pro / WeldSDK
Weight	Camera: 89g (0°)	Lens	S-Mount or C-Mount with Field Adjustable Focus
Sensor Specificatoins	Monochrome, 1280 x 1024 Pixels, 140+ dB HDR	Environmental Ambient Temperature	Up to 35°C.- No Cooling Up to 80°C - with Cooling Plate Up to 260°C - with Cooling Housing
Image Data Format	8 /12 Bit, up to 55 fps full resolution	Camera Optics Angles	0°, 15°, 60°, 75°, 90°
Shutter	Rolling or Global	Power Consumption	Maximum 6 W over POE
Camera Cable Connector	M12 X-Coded Ethernet (Cat 6+), using POE up to 100m in length.	Compliance	CE, FCC, RoHS

XVC-750 Options include: Protective Cooling Housings, WeldStudio Pro, WeldMic, LED Illumination, Camera Trigger Kit and HMI options.