


# Xiris® NIR Weld Camera System

Better Images. Better Decisions. Better Process Control.

### Description

The Xiris NIRWeld Camera System delivers unmatched welding image quality, capturing the wire, electrode, weld arc, melt pool, cooling bead, and background with clarity.

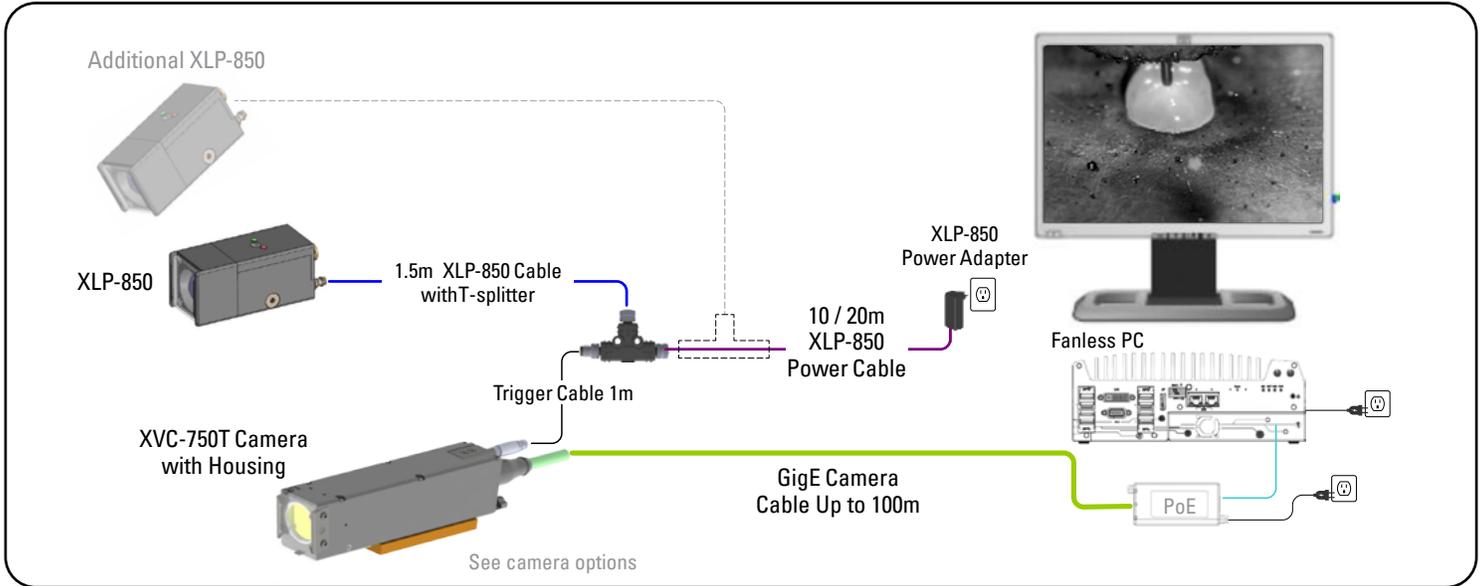
Designed for monitoring and inspection of **Open Arc and Laser welding**, it features the **XVC-750T HDR camera and XLP-850 illumination**, making it ideal for Additive Manufacturing, Production Welding, Automation, and Research.

- ### Key Benefits
- Unmatched Image Quality**  
 Advanced NIR illumination provides clear, high-contrast images, even in dark environments, with adjustable intensity for precise focus.
  - Eye-Safe Illumination**  
 Unlike laser-based systems, it uses completely eye-safe NIR illumination, eliminating laser risks and interference in robotic welding.
  - Versatile and Robust**  
 Modular design integrates easily into any welding process. 140+ HDR capability prevents image saturation, capturing both the arc and surrounding details.
  - Built for Automation**  
 Controlled via Xiris WeldStudio™ software that enables image adjustment, recording, playback, and integration with automated welding systems.

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 For local representatives visit [www.xiris.com/contact](http://www.xiris.com/contact).  
 Specifications are subject to change without notice. April 2025.  
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## NIR Weld Camera System Specifications

<b>Camera Sensor</b>	1280 x 1024 pixels, 140+ dB HDR
<b>Image Format</b>	8 /12 Bit Monochrome, Up to 55 fps full resolution
<b>Target Working Distance / Field of View</b>	WD: 100-300mm FoV: 18x15mm to 140 x110 mm
<b>XVC750T Connection</b>	M12 X-Coded, 1 Gb/s Ethernet 6W power via POE
<b>XLP-850 Power Adapter</b>	Input: 110-240V AC, Power : 20W Supports up to Qty 3, XLP-850
<b>Environmental</b>	XVC-750T IP 54 XVC-750T IP 60 with housing XLP-850 IP 60
<b>Max Operating Temperature (Water cooled)</b>	XVC750T: up to 80°C with Cooling plate, XVC750T: up to 260°C with Housing XLP-850: up to 200°C
<b>XVC-750T Welding Trigger</b>	With Xiris Camera Trigger Kit
<b>Compliance</b>	CE, FCC, RoHS
<b>Software</b>	All Xiris WeldStudio™ Software Xiris WeldSDK Xiris SeamMonitor™
<b>Operating System</b>	Microsoft Windows 10 or later (64Bit)
<b>Recommended Minimum PC</b>	Quad Core CPU 35W+TDP, Intel i5 Gen10 or Later, Minimum 2.5+ GHz to 4.5+ GHz Turbo, 8 GB RAM and 256 GB SSD. 1Gbps Intel Ethernet port per camera with jumbo frames, two 3.1 USB ports.

Camera Angles and XLP-850	Camera with Housing
	Dimensions (mm)      Weight with Housing (g)
XVC-750T-00 (straight)	34 x 45 x 175      350g
XVC-750T-15	34 x 45 x 175      400g
XVC-750T-60	
XVC-750T-75	35 x 85 x 160      450g
XVC-750T-90	
XLP-850 each	31 x 27 x 70      130g

## XLP- 850 Outline

