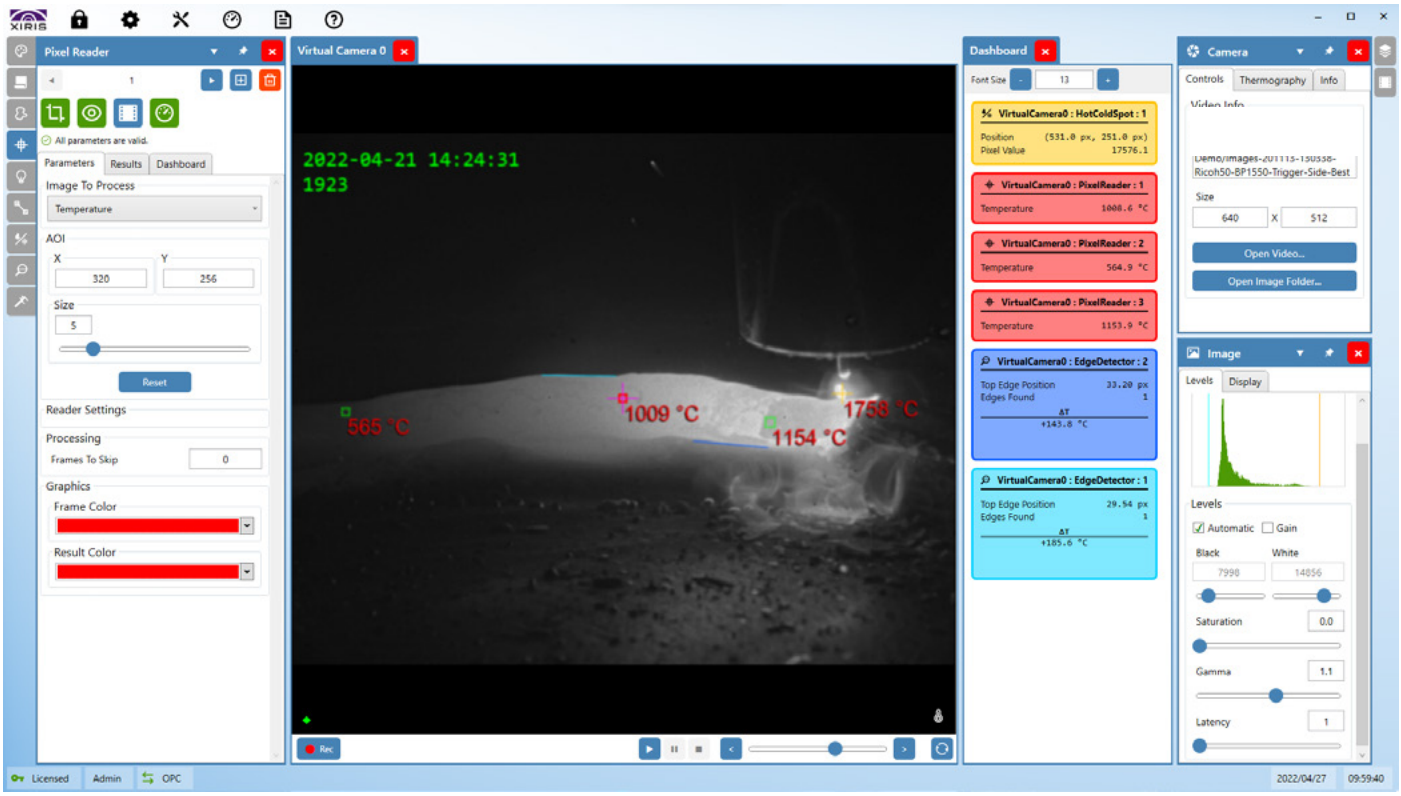
Xiris® *WeldStudio™ 3 Pro*

Better Images. Better Decisions. Better Process Control.

The Xiris WeldStudio™ 3 Pro is a versatile software application that comes with all the capabilities of Xiris WeldStudio™ 3 plus additional key measurement tools, machine vision tools and interfaces to record, monitor and control welding or metal additive processes.

Using Xiris WeldStudio™ 3 Pro, visual, thermal and audio information from a welding or metal additive process can now be integrated to enable automatic monitoring, quality- and process-control, supporting a wide range of applications from research and development in the lab to process monitoring on the production floor.



WeldStudio™ 3 Pro Graphical User Interface with Process Measurements

Benefits

- Fine tune and monitor a process in real-time using configurable results and measurements within the customizable Machine Vision Measurement Dashboard.
- Gain accurate and reliable temperature and geometric measurements of a welding or metal additive process when used with the Xiris XIR-1800 Thermal Camera.
- Flexible and convenient monitoring of all welding cells from any device at a single location using the Real Time Streaming Protocol (RTSP) over internal networks.
- Easy integration with other controllers and devices with OPC-UA and/or MQTT Add-Ins for your Industry 4.0 transition.

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WeldStudio™ 3 Pro Features

**Features exclusive to WeldStudio™ 3 Pro*

Supported Xiris Products	Cameras • XVC-700/710 • XVC-1000/1100 • XVC-1000e/1100e • CellView • XIR-1800* Accessories • WeldMic™	Machine Vision Measurement Tools*	• Blob Tool • Edge Detection • Caliper • Pixel Point Readers • Advanced Pixel Readers • Line Profile Tools • Maxima/Minima Spot tool
Camera Tools	• Rolling/Global Shutter • 8/12 Bit pixel depth • 14/16 Bit XIR-1800 thermal images* • Frame rate and exposure control • Picture-in-Picture (PIP) tool • AOI settings • Focus and illumination controls for XVC-1000e/1100e cameras	Image Processing Controls	• Advanced tone mapping with Saturation, Gamma, Gain and AGC • Image Flip, Mirror, Rotate • Drag and drop windows • Digital zoom (up to 100x) • Pseudo-color tool • Color mapping for XIR-1800 thermal images* • Image sharpening tool • Video averaging
Camera Trigger	• Auto-weld detection via camera photodiode, I/O or image histogram • Camera triggering using Xiris Camera Trigger Kit	Data Overlays	• Camera names • Date & time stamps • Frame number • Add-in annotation, with MQTT
Recording and Playback	• Video recording in RAW and .avi • Video player with pause and frame stepping • Snapshot recording in .png format • Video annotation • Up to 10s pre-recording buffer	Display Overlays	• XIR-1800 thermal measurements* • Machine Vision results* • Machine Vision Measurement Dashboard* • Multiple crosshair types with color, position and rotation • Ruler and scale tools
Data Recording*	Data recorded from machine vision tools can be • Displayed on monitor • Recorded to .csv • Output to OPC-UA	Display	Support for up to four HD displays *(hardware dependent)* Configurable layouts via drag and drop windows docking system
Minimum PC Specs*	CPU Intel i7 Gen8 with 6 Cores, 3 GHz base speed, 4.5 GHz Turbo, 16 GB RAM and 256 GB SSD. 1 Gbps Intel Ethernet port per camera with jumbo frames, two 3.1 USB ports.	Streaming*	Video streaming across shared networks via the Real Time Streaming Protocol (RTSP)
Operating System	Windows 10 or later (64 Bit)	Add-Ins*	Xiris MQTT Interface for Lincoln Power Wave® OPC-UA (Client)

Xiris WeldSDK can be purchased separately to enable development of your own applications that control and interface directly with Xiris weld cameras and Machine Vision tools.
Please speak with Xiris Sales for further information.

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