

*Better Images. **Better Audio.** Better Decisions. Better Process Control.*

The **Xiris WeldMic™** is a welding microphone option specifically designed for integration with a Xiris weld camera to be able to clearly hear, record and playback the welding sound. Audio integration with weld cameras gives fabricators two sensory inputs – sight and sound – to help them remotely monitor and fine-tune the welding process.



Benefits

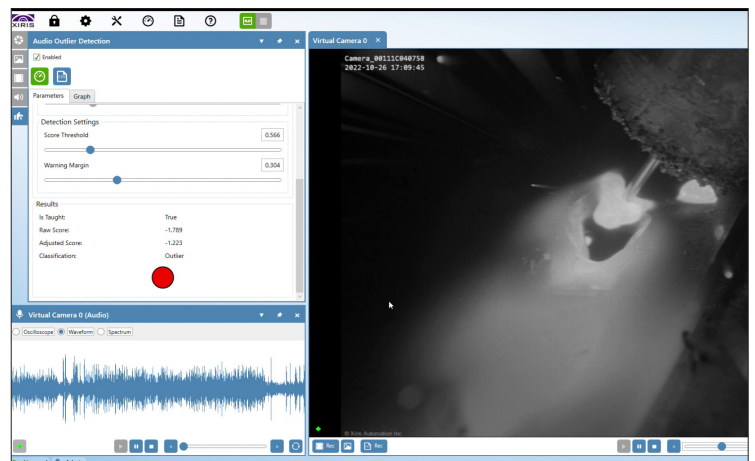
- Easily hear welding anomalies in GMAW processes such as wire feed issues, porosity, burn through, contamination, unstable arc, and changes in welding transfer modes.
- Robust, stainless steel body can tolerate harsh welding environments and includes a replaceable acoustic sleeve to protect against weld spatter and sparks.
- Conduct offline analysis for quality assurance with the ability to export captured audio data to CSV files.
- Integrate realtime audio data into your existing control devices and third party software using the OPC-UA or Modbus/TCP interface add-ins.
- Record reliable and clear audio using a cardioid pick up pattern with noise reduction, which eliminates unwanted background noise.

Audio AI Tool for WeldStudio™ 3 Pro

When used with WeldStudio™ 3 Pro (optional), operators can benefit from automatically generated anomaly alerts using the Audio AI Tool.

The Audio AI tool is easy to teach in production, as it includes a self learning algorithm from an audio sample of the user's process.

Once the tool has been taught, it can be used in Run mode to automatically alarm when the welding process deviates from the standard process.

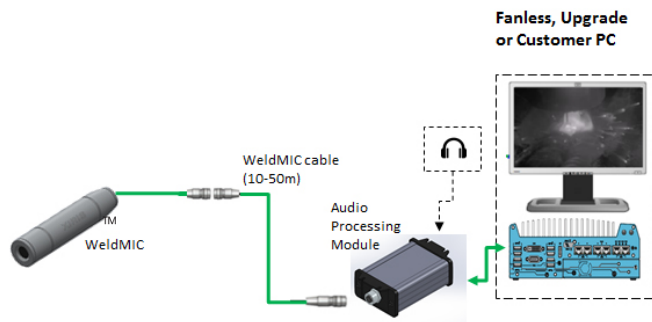


Easy Integration

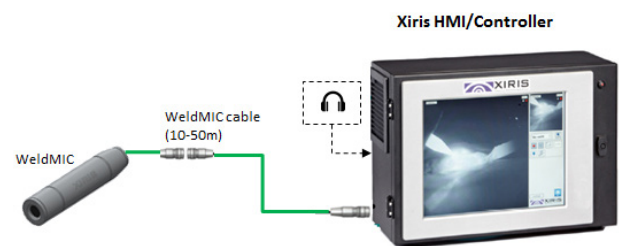
For existing Xiris weld camera systems or where a Xiris weld camera is connected to a 3rd party PC, the Standalone WeldMic™ kit with a separate Xiris Audio processing module can be easily added and connected via a short USB cable.

The Integrated option is for new Xiris camera systems using the Xiris HMI/Controller minimizing additional cables and footprint.

Standalone



Integrated



WeldMic™ Specifications

Dimensions	18 mm (Dia.) x 80 mm (L)	Software	All Xiris WeldStudio™ Software
Weight	Approx. 95 g	Frequency Response	50 Hz - 20kHz
Microphone Mounting	Bracket, with 1/4"-20 UNC thread	Audio Controls	10 band frequency EQ, Gain & Volume control, Mute, Recording, and Playback
Microphone Cable and Connectors	10, 20, 30, 40, 50 m cables with M12 connectors.	Audio Recording	Encoded with video as an AVI file. Audio only as a WAV file. (48kHz-16bit)
Temperature	Operating: 0° - 70° C	Dynamic Range	+ 120 dB Sound Pressure Level
Humidity	Operating: 20 - 90% (non-condensing)	Power Consumption	Maximum 2 W via Xiris Audio Interface
Audio Out	3.5 mm TRS Audio Jack (for Earphones or External Speaker)	Compliance	CE, FCC-B, RoHS
Mounting Arm (Optional)	250 mm Flex Mounting Arm	WeldStudio™ 3 Pro Features (Optional)	STFT Audio Analysis Audio AI Tool

Specifications are subject to change without notice. January 2023.