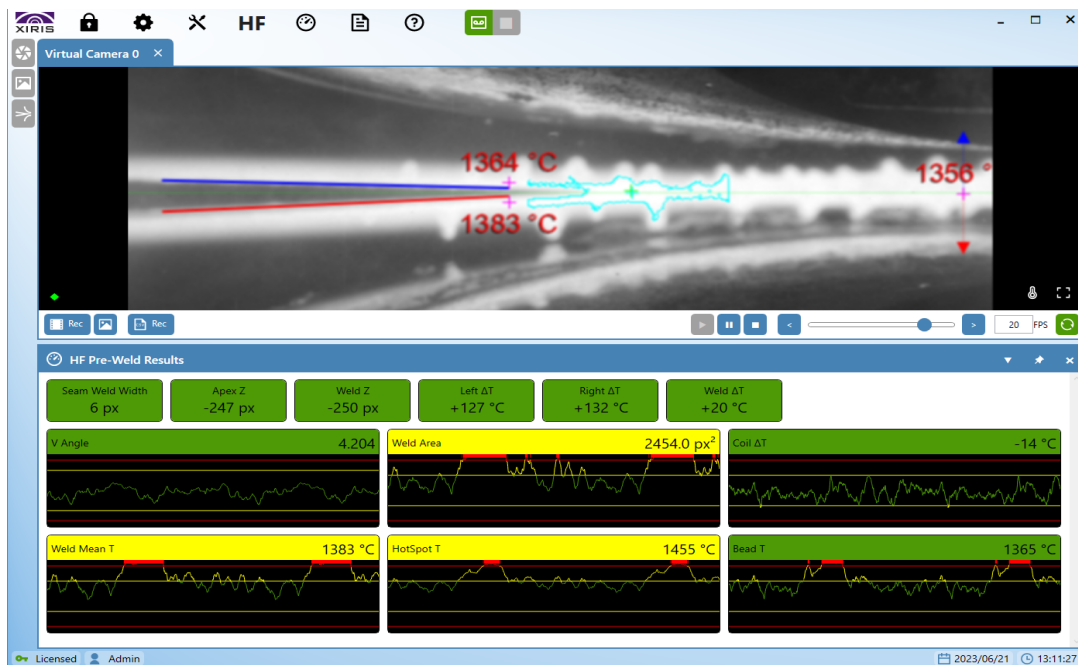


Better Images. Better Decisions. Better Process Control.

The Xiris HF Pre-Weld Inspection system, comprised of the XIR-1800 thermal camera in a protective housing and a HMI computer with tailored HF pre-weld software, enables operators to remotely monitor strip edges and the welding process of High-Frequency Tube Mills.

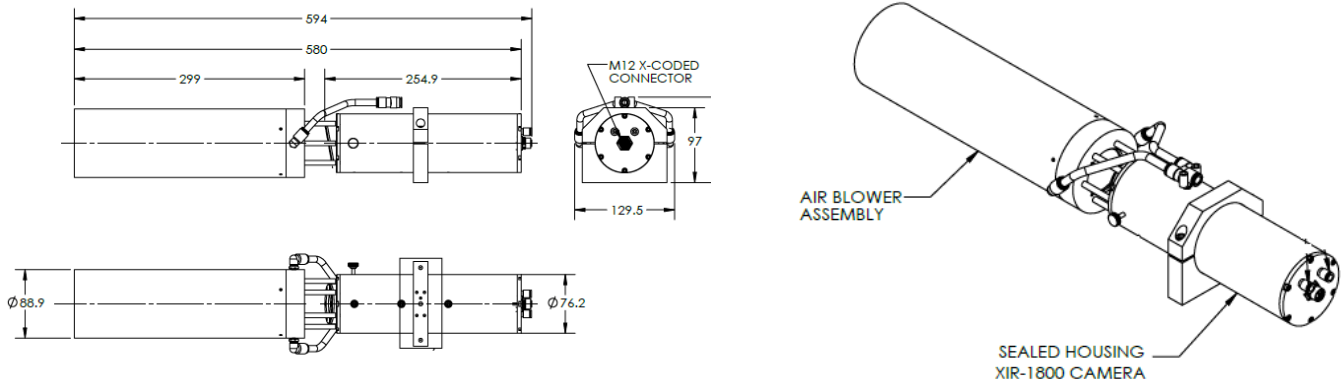
The HF Pre-Weld Inspection system allows an unprecedented view of the welding process and uses advanced software to measure, monitor, and record multiple process parameters, providing operators with the ability to enhance tube welding quality and achieve optimal production results.



Benefits

- **Improved Safety:** Ensure safety with an exceptionally clear, real-time view of the welding process that can be viewed remotely. This allows operators to monitor the welding while avoiding contact with the mill during processing or having to make frequent stops for checking.
- **100% Inspection Accuracy:** Achieve flawless results through precise geometric and thermal measurements. Set custom warning and alarm limits to receive real-time alerts, enabling immediate corrective actions.
- **Industry 4.0 Ready:** Seamlessly integrate with mill PLC by using analog or digital interface modules. Measurements and results can be recorded within the system or shared in real-time through interfaces like OPC-UA.
- **Simplified Workflow:** Streamline operations with permission and recipe management. Save, recall, and make product changes to optimize efficiency and enhance productivity.
- **Enhanced Camera Protection:** A sealed housing and a powerful blower provide a robust housing for the camera able to withstand the harsh environment of the HF weld box. The camera is mounted 300-1000 mm from the tube's surface, effectively shielding it from steam and sparks.

Camera Housing



Specifications

Supported Cameras	XIR1800	PC Hardware	Xiris HMI with 15" Resistive Touch Screen
Temperature Range	Calibrated from 350 - 1500°C Option for extended range up to 2200°C	HMI Ports	VGA (HD) Display 2 x M12 X-Coded (Camera) 1x RJ45 Communication 3 x USB
Camera Housing	90 (Ø) x 300-600 mm (L) ~ 5kg	Software	WeldStudio Pro with HF Pre-weld Inspection
Number of cameras for Pre-Weld Inspection	One camera only. (Additional cameras can be connected and used in WeldStudio Pro)	Measurements	V-Angle, Seam Position, Seam Temperature, Weld Temperatures and Position
Analog Interface Module (Option)	2 x Channels with validation and 4x Digital Inputs: ±10VDC, 0-10VDC, 0-20ma	Data Interfacing (Options)	OPC-UA (Client) Modbus / TCP
PLIM Digital Interface (Option)	4 Digital Inputs, 4 Digital Outputs (24V) Encoder Input Interface Marking system Output	Light Tower (Option)	Clear, Blue and Amber

Specifications are subject to change from time to time without notice.

Please contact your Xiris sales Representative for further information.



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