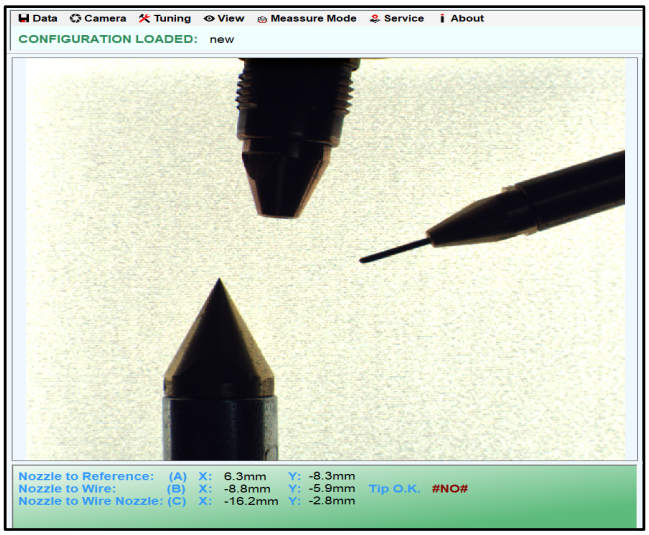
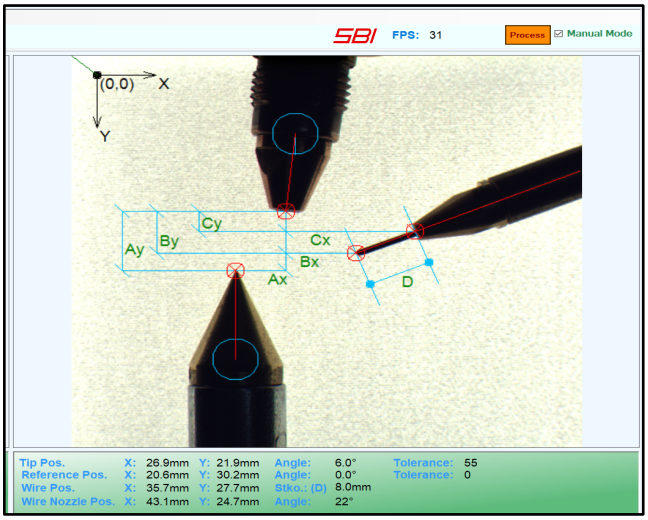
CIP – Camera Image Processing

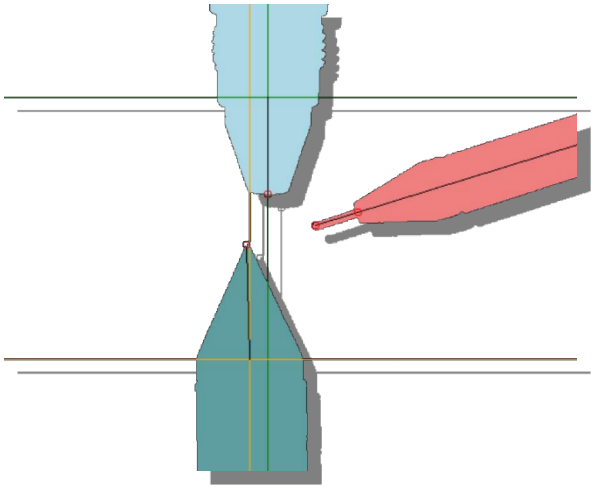


Product information:

The CIP system measures the torch center point (TCP) of a plant fully automatically after a single setup. Both plasma nozzles with and without shielding gas cover as well as wire nozzles, TIG electrodes, ... can be measured.

The data obtained in this way can be exported and used for parameter determination and quality control.

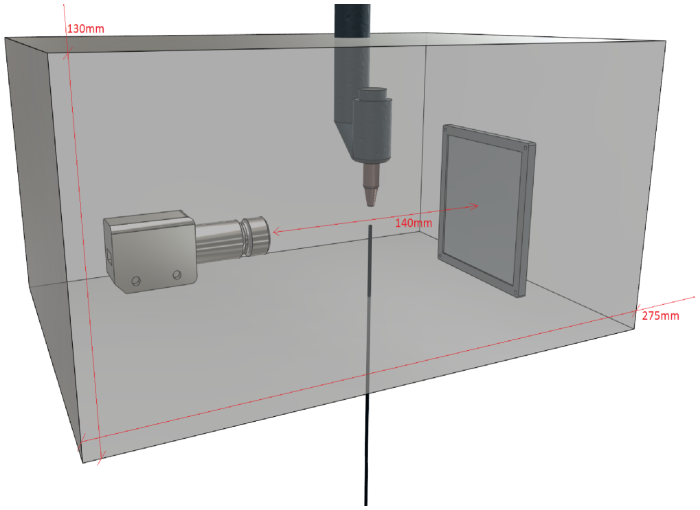




Product features:

- User-friendly software
- Automatic limit monitoring
- Cyclic measurement possible
- Manual or automated data export
- Simple data acquisition and visualization for parameter determination and quality control
- Automatic image optimization
- High accuracy and repeatability
- Plug & Play installation in existing machines

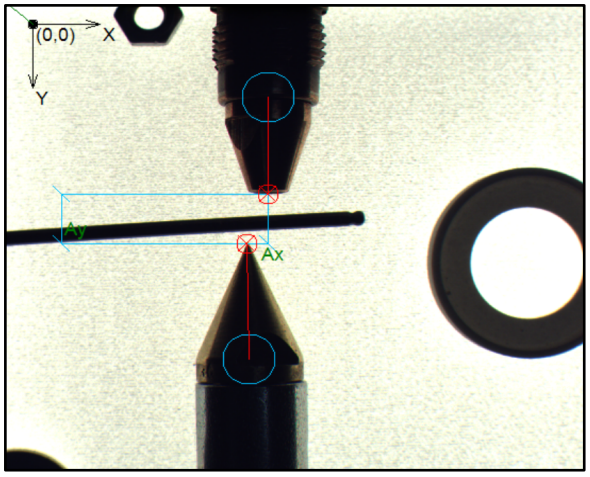
© SBI GmbH, www.sbi.at

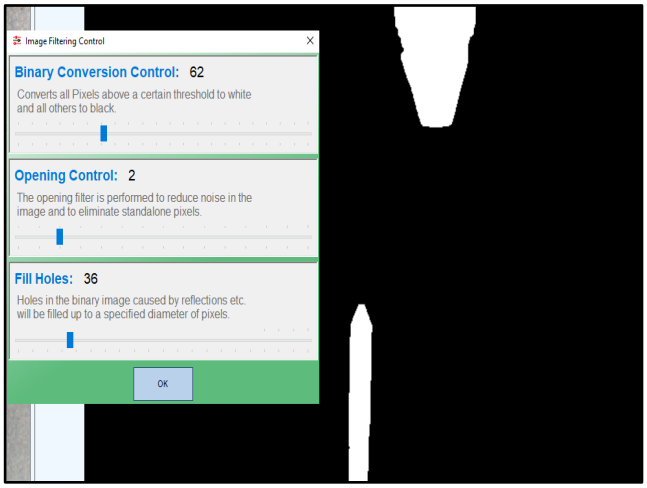


Application example:

- *The survey takes place in a measuring station in the plant.*
- *Only the surveying station in the system can be installed.*
- *Plug and play with existing machines.*

- Fully automatic interference filtering: Objects in the image that are not to be measured are detected and filtered by the software.
- The software is based on general mathematical principles and supports various types of teach tips and torches.
- Robust and reliable in various applications





- Clear and detailed described setting possibilities for commissioning, Optimization and adaptation.
- A simple and intuitive user interface facilitates the operating.

© SBI GmbH, www.sbi.at

Camera Image Processing

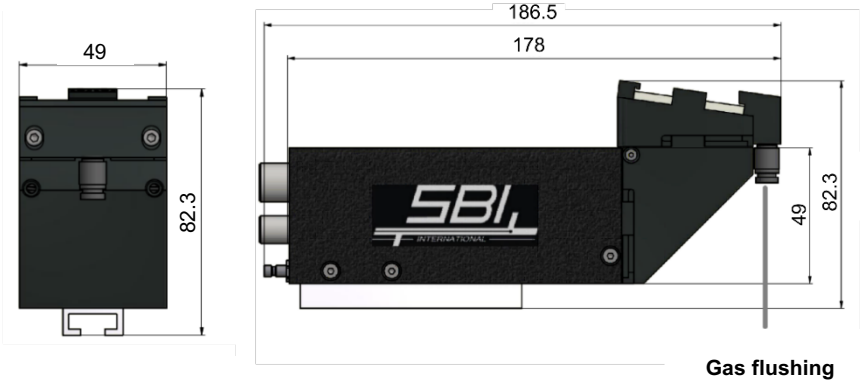
Image processing uses the same camera as welding process monitoring. But no angle lens is used.

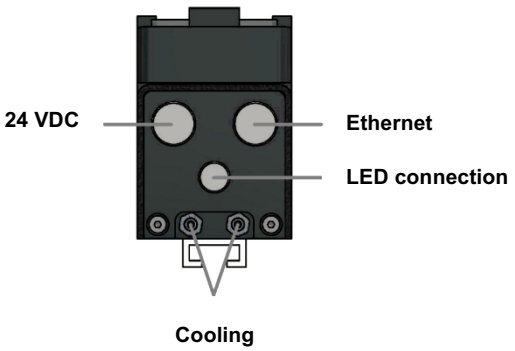
Camera:

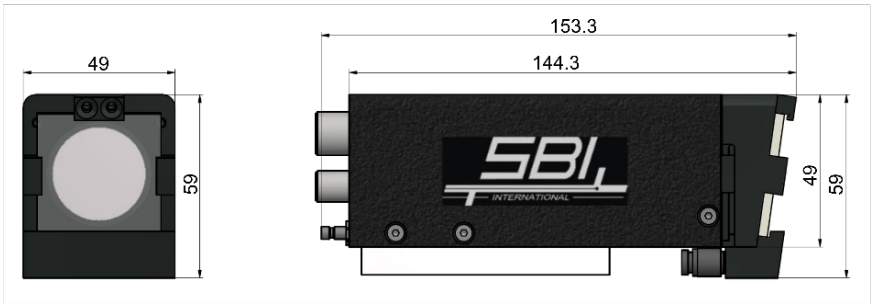
Resolution:	1920 x 1200 pixels;
Frame Rate Maximum:	38fps (at full resolution);
Pixel size:	5,86µm;
Shutter type:	Global;
Protocol:	GiGE Vision;
Focal length:	37,5mm;
Variable (Auto) Focus:	10cm - ∞;
Connections:	Ethernet M12, power supply/trigger M12, LED M8, cooling, gas flushing;
Ethernet cable length max.:	50m;

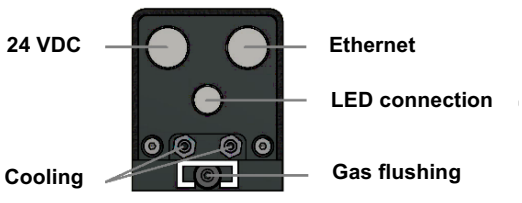
ArcCam Software:

Format:	AVI;
Compression types:	Full Frames, Raw Uncompressed, DV Video Encoder, MJPEG Compressor;
Storage location:	variably adjustable;
Cameras per application:	1 or 2;
SDK:	ActiveGige;









© SBI GmbH, www.sbi.at