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SMART VISION FOR WELDING

Acquire, record and analyse video signals of *your welding operation*

Challenge

Develop an instrumentation equipment for video acquisition of welding processes

- Make the development of new welding processes easier
- Simultaneously record several video signals
- Synchronize the different views (front/rear/environment) of the welding operation
- Update the welding operation traceability
- Provide a quick setup and control solution

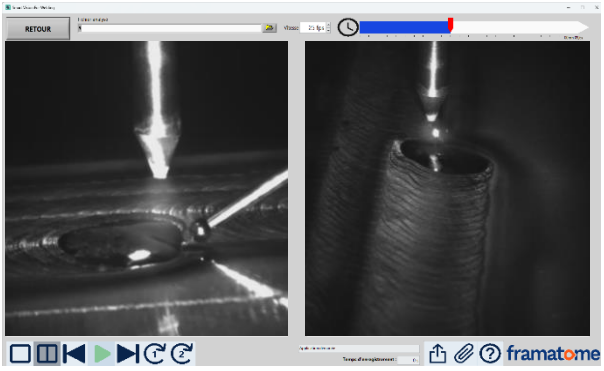


Instrumentation device independent of the welding power supply

Solution

A rugged case to monitor, record and analyse the welding visual behaviour

- Realtime monitoring tool, running with different HDR cameras adapted to your needs :
  - Front, Rear and Environment view
  - Monochrome and colour vision
  - Automatic video triggering and recording
- Powerful tool to understand the welding operation behaviour :
  - Acquire, record and replay video data synchronized, dedicated to welding processes
  - Easy to use, short setup time, intuitive use



Graphic user interface

Bénéfices clients

Realtime monitoring of your welding operation
Advanced visual analysis of welding key elements : Weld pool geometry and evolution, electrode state, arc and wire behaviour...
Diagnostic assistance : quick availability of visual acquisition on site when a problem appear

Your performance
is **our** everyday **commitment**

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Technical Information

Hardware :
- Rugged instrumentation case
- Windows 11 Pro operating system
- Configurable acquisition frequency
- Weight : 12,5 kg
- Size (L*l*p) : 475 * 376 * 178 mm
- Storage capacity : from 1 to 7 To
- AC Charger
- USB drive reader

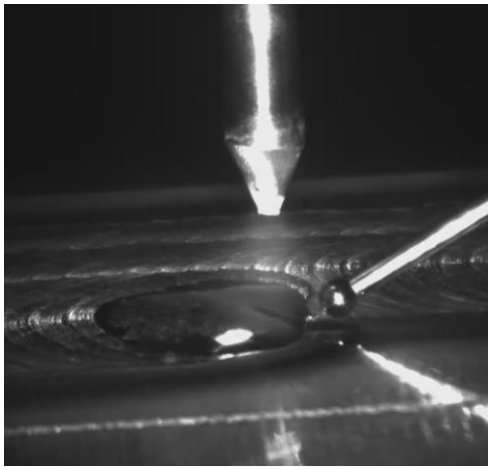
Supported Welding Processes :
- TIG (GTAW)
- MAG (GMAW)
- WAAM
- EE (MMA)

Possible parameter records :
- Intensity by HALL effect sensor, allowing the automatic triggering of video recording
- 2 channels dedicated to welding cameras, USB3 or GigE (Ethernet)
- Wide selection of cameras, to fit your requirements
- Process time

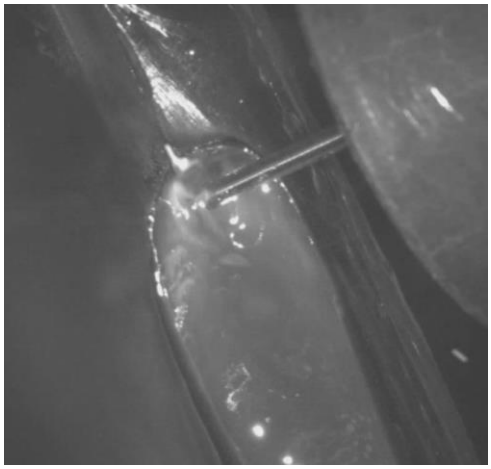
Welding Cameras :
- 4 digital sockets (2 Ethernet + 2 USB) for welding cameras
- Monochromes or colour HDR Cameras
- Laser illumination cameras
- High speed cameras



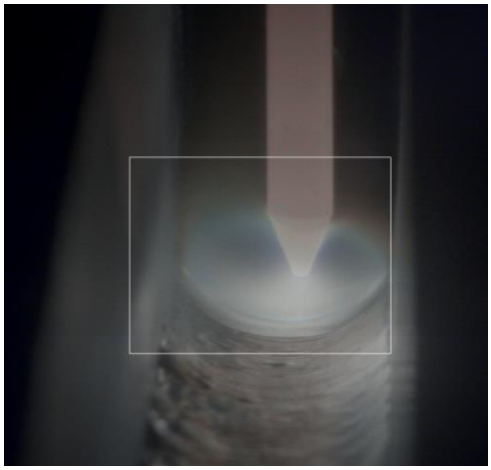




Monochrome camera acquisition
TIG (GTAW) – flat operation



Monochrome camera acquisition
MAG (GMAW) – flat operation



Colour camera acquisition
TIG (GTAW) – narrow chamfer

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