

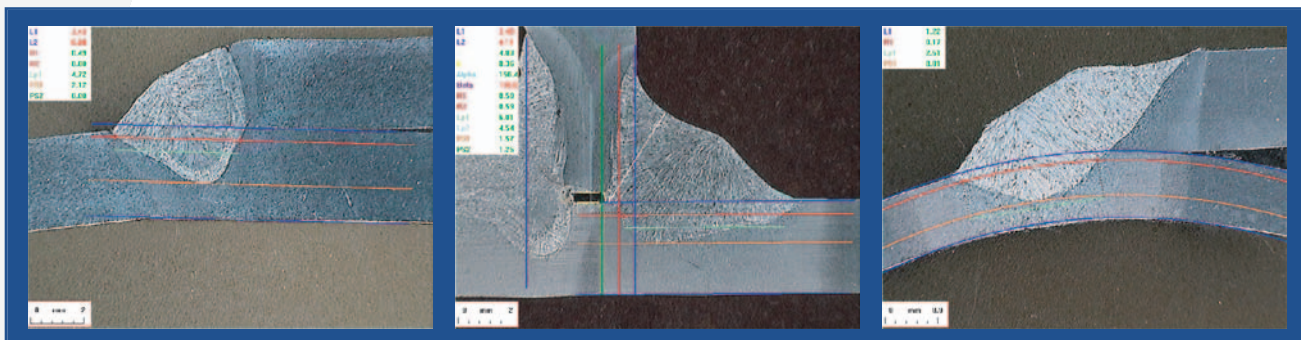
# WELDING EXPERT

## A REVOLUTIONARY IMAGING STATION FOR WELD BEAD MEASUREMENT

- ▶ **Welding-Expert does it all...**  
Image, measure, report...., no need for microscope, illumination, camera and software.
- ▶ **Easy sample placement...**  
No more special fixtures or clay needed to hold parts for measurement.
- ▶ **Auto-calibrated measurement...**  
One pass auto-calibration throughout entire zoom range.
- ▶ **Fast live image preview...**  
With precise auto focus and remote zoom.
- ▶ **Software for weld bead measurement...**  
The features you need for industry accepted standards.
- ▶ **Statistical module for welding process tracking**  
The tools you need for a complete tracability.



Patent Pending



# WELD BEAD QUALITY CONTROL

## WELDING EXPERT TECHNICAL SPECIFICATIONS

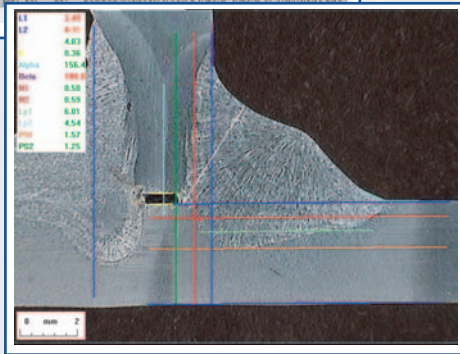
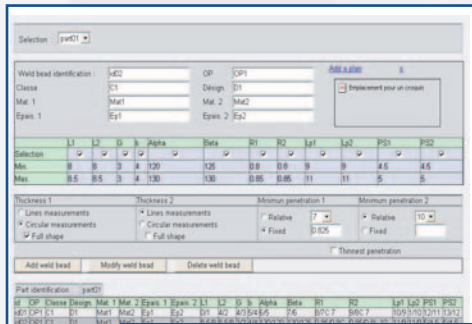
**Welding-Expert** measurement system is to-the-point, providing what is needed and expected by quality control professionals in any professional welding environment. Set-up and measuring has never been so easy.

**Welding-Expert** offers a flat glass surface onto which your cut and polished samples are placed. A dedicated internal LED ring light provides bright even illumination for the remote CCD camera, ensuring a crisp and high contrast image for all measurements.

**Welding-Expert** also provides Auto-calibration and Auto-focus zoom lens offering the operator maximum flexibility in selecting a perfect field of view for all measurements.

**Welding-Expert** allows instant measurements of prepared samples from 1/4" to 2" with accuracy up to 10 µm depending on the field of view. The system can be factory configured for larger samples.

**Welding-Expert** measurement software is straight forward and intuitive. A description of each part and its acceptance criteria are input into a simple form. When a part is ready for measurement, its parameters are automatically loaded. Once measured, data from the selected part is stored and becomes immediately available for a report or future statistical analysis



## REPORTS

For single as well as multiple weld bead measurements a report can be created. Reports offer the option for an image with the measurements to be included. Export to Excel is featured. All parts measurements are saved into global files for statistical purpose.

## STATISTICS

Welding Expert includes an Excel macro command module for the qualitative monitoring of weld beads and parts: Evolution of weld bead in time, distribution, variance, standard deviation, etc. Statistical tools are provided to ensure a complete tracking of the welding process.

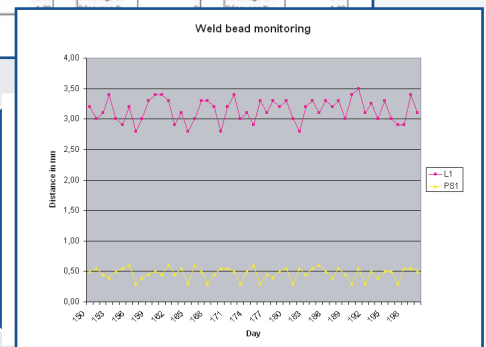
## METROLOGY SYSTEM ADMINISTRATION

A complete description of the welding part and the weld bead acceptance criteria are registered and protected by password. All parameters are automatically loaded and processed during measurements achieved by operators.

## MEASUREMENT

Measurement results are viewed as red or green quickly indicating welds that are in or out of tolerance. During measurement, a handy viewer window is available where an image of the part drawing can be displayed helping to eliminate the need for external documentation. Welding-Expert offers standard System Administrator access and password authorization control for all users. Welding Expert allows measurement of samples ranging from 50mm to 4mm, with accuracy down to 60µm. Measurement results can be saved into Excel spreadsheets.

C1 lignes		C2 lignes		C3 lignes	
L1	1.94	L1	1.83	L1	1.82
L2	0.52	L2	0	L2	0
Q	1.07	Q	0	Q	0.91
Alpha	0.43	Alpha	0	Alpha	0.43
Beta	138.37	Beta	0	Beta	0
R1	120.19	R1	0.28	R1	0.28
R2	0.07	R2	0	R2	0
Lp1	4.1	Lp1	4.16	Lp1	4.01
Lp2	1.96	Lp2	0	Lp2	0
PS1	1.81	PS1	1.86	PS1	0
PS2	0.34	PS2	0	PS2	0
Désarrage G	2.53	Désarrage G	0	Désarrage G	2.51



## System includes :

- Welding-Expert bench-top console with internal camera
- Remote control zoom lens
- Power adjustable LED ring light
- Weld bead measurement and report software
- Calibration slide and 5 glasses
- 2 USB interface cables
- 1 USB protection dongle

## Computer Recommendations :

- (\*Computer not supplied with system\*)
- Current IBM style PC with
- 1 Ghz processor
- 1 Gigabyte of RAM
- Display Card with 64 Megabytes of on-board memory
- (1280 x 1024 display capability)
- Win 2000/Win XP/Win Vista operating system

## Dimensions :

- Height : 13"
- Width : 10"
- Weight : 7 lbs
- 110V/220V
- 50HZ/60HZ

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