

Qeye 800

OPTICAL ANALYZER - INVERSE MACROSCOPE

**WELD SEAM MEASUREMENT
FAST, HIGH-RESOLUTION AND EFFICIENT**

4K ULTRA HD

OPTICAL SYSTEM

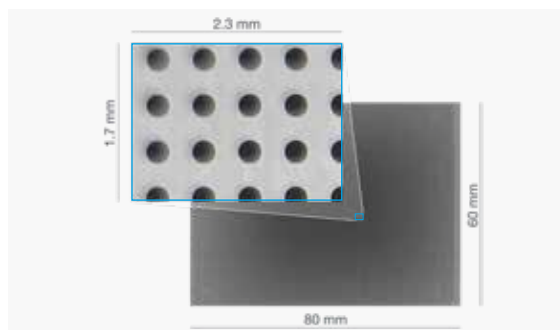
Qeye impresses with absolute precision:

- | 8.5 megapixel camera system
- | 20x optical zoom
- | 35x combined zoom (optical and digital)
- | Large field of view 80 x 60 mm - 2.3 x 1.7 mm
- | Built-in automatic autofocus and brightness control
- | Focus plane can be manually adjusted for measurements of non-planar components



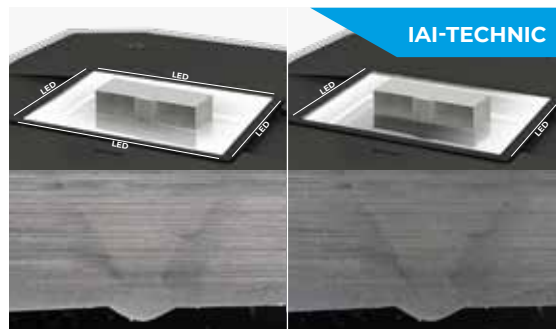
INNOVATIVE OPERATION

CONVINCING BENEFITS



35 TIMES COMBINED ZOOM

The Qeye's optical system allows the variation of the field of view between 80 x 60mm und 2.3 x 1.7mm. By zooming in optically as well as digitally, a combined magnification of 35 times is achieved. This allows the user to see smallest details, while keeping the overview.



OPTIMIZED SPECIMEN ILLUMINATION

IAI = Intelligent Area Illumination. The Qeye system features innovative LED analysis area illumination. Each of the 4 illumination profiles (right, left, front, rear) can be switched on or off smoothly and individually. This now enables faster and more precise testing, without the disturbance of light influences or grinding reflections.



QPIX CONTROL2 SOFTWARE

Operated by tried and trusted Qpix Control2 software. Combination of hardness testing and optical analysis in a familiar user interface using just one PC. Efficient measurement and inspection of weld specimens in seconds, live image, 3D Smartview and a uniform reporting system for hardness testing and macro analysis.



TOUCH CONTROL PANEL

Qeye offers impressive ease of use via freely programmable capacitive buttons. Once centered, the Q lights up to indicate the current status, and used to trigger imaging. The buttons located in the corners can be configured to control LED illumination, zoom, field of view and brightness. The soft-touch control panel is responsive, even when used with gloves.



FEATURES AND BENEFITS

Qeye saves time, providing detailed analysis and measurement with supreme accuracy. Robust modern industrial design. Easy replacement of the glass sample carrier. Absolutely dust-tight due to assembly in a clean room.

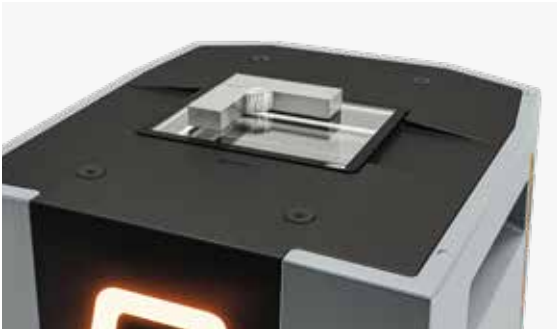
APPLICATIONS

BENEFITS OF PRACTICAL EXPERIENCE



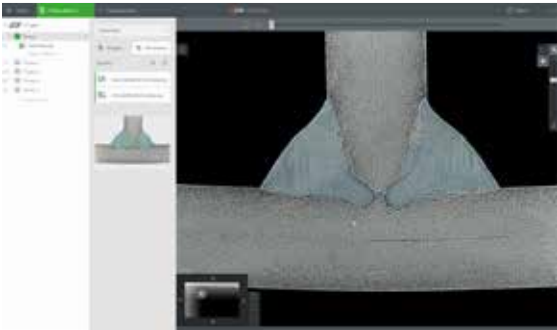
MEASURING TOOLS

Precise measurement tools ensure the fast and easy measurement of specimens. Lengths, angles, circle, polygons for area or perimeter calculations. Zoom and brightness can be calibrated individually.



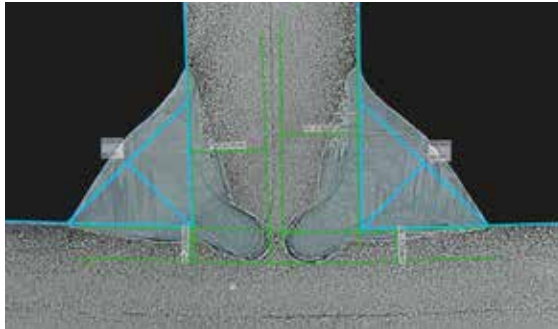
WELDING SAMPLES

Qeye guarantees fast, simple, precise, standardized weld inspection, and displays all irregularities. Documentation of abnormalities can be added to a measurement at any time. The use of template systems in reporting ensures unlimited precise repeatability and reliability in regard of procedures, measurement sequences and limit values.



TEMPLATE OPERATION

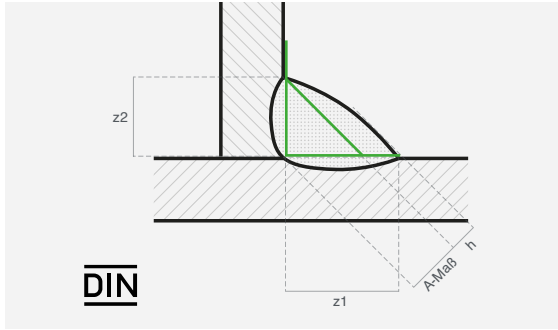
Individual customer templates can be saved and recalled at any time. Predefined measurement elements and the QATM standard catalog are also preinstalled in the system.



WELDING SEAMS

Fillet weld measurement with full range of intuitively operated measurement tools

- | Easy adjustment of measuring lines
- | Seam quality evaluation
- | Recordable notes



STANDARD-COMPLIANT TEST EQUIPMENT

All necessary measuring tools are, of course, a basic component of the software for inspections according to DIN EN ISO 5817. For example: the A dimension, the depth of burn-in, evaluation limits and a standard-compliant inspection report.

INDUSTRY 4.0

EQUIPPED FOR THE PRESENT AND THE FUTURE



BARCODE/QR-CODE/DMC-READER

Qpix software platforms support the use of barcode and QR code readers, simplifying workflows for inspectors and preventing operator error. Populating header data is simple (standard), and readers can be fully integrated to automatically select templates or retrieve data from higher-level systems (optional).



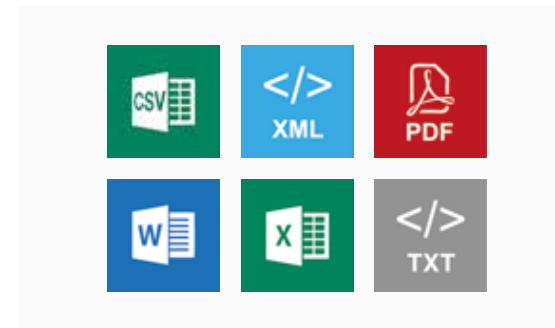
PROFESSIONAL DATA MANAGEMENT

Benefit from clearly-structured batch management, the effective template use of various test projects, well-organised measurement results and all job information in the background. Once created, templates receive all requisite information about test samples, including test methods, designations and user-field information.



QCONNECT

Qconnect is the interface in the QATM Qpix Control2 software that combines all connectivity options for our customers. From the standard, open XML interface (bi-directional), to pre-specified plug-in solutions such as the QDAS Plug-In+, to fully customized connectivity solutions implemented by QATM - we find a professional solution for every application.



AUTOMATIC EXPORT FUNCTIONS

Many professional export functions are available as standard with QATM: raw data export in CSV/TXT and XML; report export in MS Word, Excel, PowerPoint and PDF - output part-related or as a single export. All export configurations can be stored individually for templates.



FIND OUT MORE ABOUT THE
INTERCOMPATIBILITY OF THE
QATM PRODUCT FAMILY

#QATMCONNECTEDFUTURE

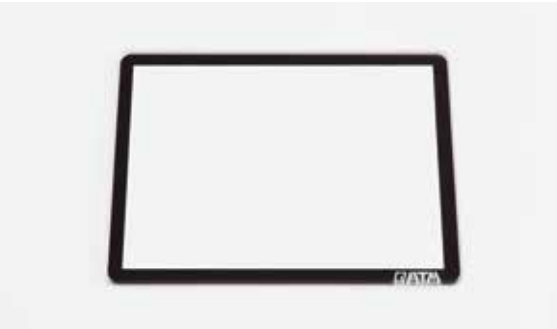
ACCESSORIES & TOOLS

PRECISE, CLEAN AND UNCOMPROMISING



OBJECT MICROMETER

A 50 mm object micrometer with a resolution of 0.1 mm guarantees easy and accurate control of optical magnification. Optionally available with a UKAS certificate.



SAMPLE CARRIER

Sample carriers are small but extremely important tools in sample analysis. Available in sets of 5, made of borosilicate glass with anti-reflective coating. Optionally available in tempered borosilicate glass.



FULLY-INTEGRATED SYSTEM SOLUTION

The new Qeye can also be integrated into a test lab table. Adapted to individual requirements, height-adjustable and optionally available with a hardness tester for every laboratory.



QEYE COVER

The Qeye shielding hood absorbs extraneous light and reflections are completely eliminated. Included as standard with every Qeye.



QATM CLEANING MATERIALS

High-quality microfiber cloths, cleaning cloths and special glass cleaners for a perfect shine. We recommend the use of specially-developed QATM cleaning material only.



Qeye 800

Field of view	80 x 60 mm - 2.3 x 1.7 mm (3.1 x 2.4" - 0.091 x 0.067")
Zoom levels	1x - 1.5x - 2x - 2.5x - 4x - 5x - 10x - 20x - 30x - 35x
Zoom	optical: 1x - 20x, digital: 30x - 35x
Camera	4K Ultra HD - 8.5 megapixel - USB 3.0
Illumination	IAI - LED unit (Intelligent Area Illumination)
Software	Qpix CONTROL
Machine operation	external PC system (Windows 11 64-bit)
Dimensions glass sample carrier (L x W x H)	95 x 75 x 2 mm (3.7 x 3.0 x 0.08")
Max. sample weight	5 kg (11 lbs)
Interface	1 x USB 3.0
Power supply	100 - 240 V ~1/N/PE, 50 - 60 Hz
Power consumption	Idle: ~35 W Operation: ~60W Max. ~100 W
Dimensions	220 x 220 x 260/365* mm (8.7 x 8.7 x 10.2/14.3") *inkl. Qeye cover
Space requirement (L x W)	300 x 300 mm (11.8 x 11.8")
Weight	16 kg (35.3 lbs)
Ambient temperature	18 - 28 °C (64 - 82 °F)
Humidity	maximum 70 % - non-condensing



INCLUDED IN THE SCOPE OF DELIVERY OF THE QEYE 800

- Set of 5 glass sample holders
- Qeye cover
- QATM microfiber cloth
- QATM cleaner
- Power supply and USB connection cable
- Instruction manual
- Accessories case

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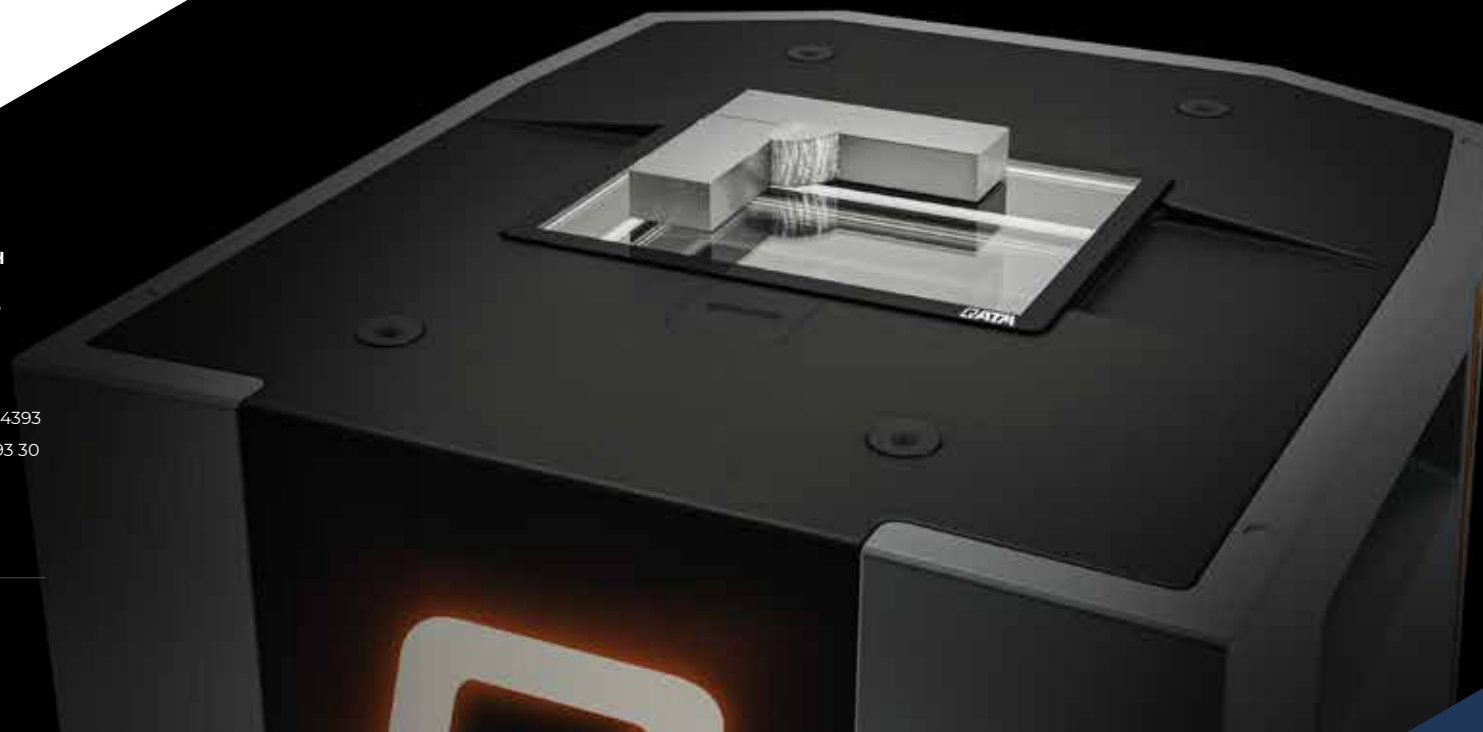
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