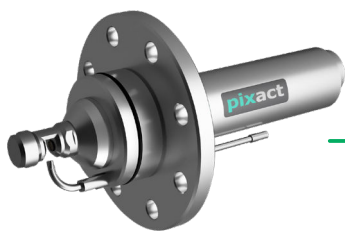


Pixact Solution for industrial processes

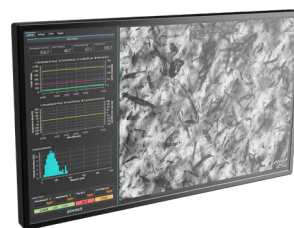
The Pixact measurement systems consist of a Pixscope imaging unit and a Pixstation main unit running the Pixact measurement software.



Pixscope imaging unit produces microscope quality image data directly from the process



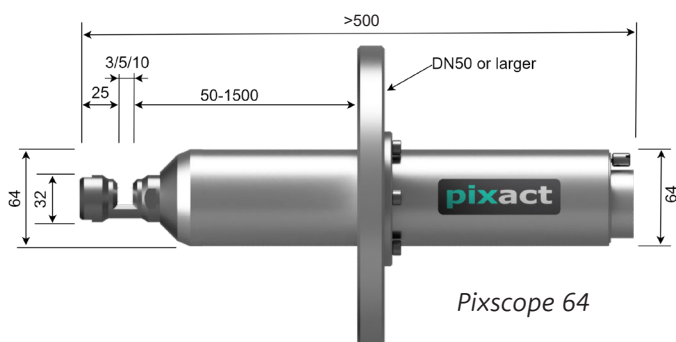
Pixstation ONLINE main unit houses the main components



Live image from the process & Pixact analysis results displayed in the operator station located in the control room etc.

Pixscope Imaging Unit

The imaging unit flange type and probe wet length are **customizable**, allowing installation for a variety of industrial process equipment. Below are presented some typical installation options, but the designs are fully customizable. The imaging unit can also be equipped with a **washing nozzle** to flush the measurement gap when needed.



Preferred **installation location** for the *Pixscope* imaging unit is a flange on the reactor or tank side wall. Longer version of *Pixscope* can be built to install on a flange on top of the reactor.



Mechanical specification

Wet part diameter	63.5 mm
Wet part length to window	Pixscope 64-S: 50-150 mm Pixscope 64-L: 150-1500 mm
Measurement gap	3, 5 or 10 mm
Wet part material	AISI316L/1.4401 AISI904L/1.4539 Super duplex/1.4410 Hastelloy C22
Window material	Sapphire
Sealing material	Standard: EPDM, FFKM, PTFE Ext. temp: PTFE
Probe weight	3-8 kg

Process & Environment specification

Process temperature [°C]	Std temp: 10-85°C / 120°C short t. Ext temp: -70-120 °C
Process pressure [Bar]	Std: 6 Bar Optional: 30 Bar
Ambient temperature	0-45°C
Housing protection	IP65

Optical specification

Image resolution	M10: 3.5 µm M20: 1.7 µm
Image area	M10: 8.4 x 7.1 mm M20: 4.2 x 3.5 mm
Measurement range	M10: 4-4000 µm M20: 2-2000 µm

Pixact Solution for research and development

The Pixact measurement systems consist of a Pixscope imaging unit and a Pixstation main unit running the Pixact measurement software.



Pixscope imaging unit produces microscope quality image data directly from the process



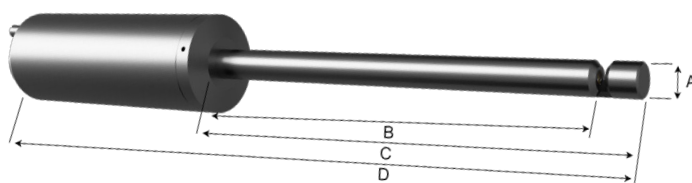
Pixstation LAB main unit houses the main components



Live image from the process & Pixact analysis results displayed on a laptop for mobile use

Pixscope Imaging Unit

Pixscope imaging units produce microscope-quality image data from the process. The smallest versions of the Pixscope product family are designed for laboratory use and they fit to a variety of laboratory equipment, such as reactors and beakers. Combined with Pixstation LAB main unit they are portable and can be used for multi-location work or as a shared device for user groups.

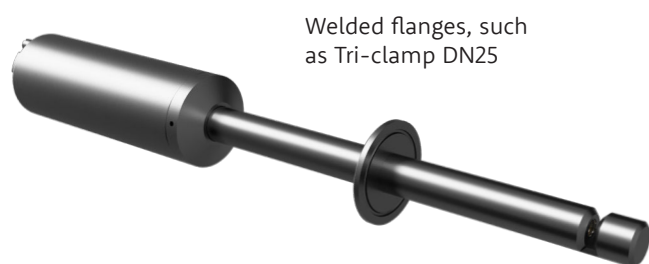


Process & Environment specification	
Process temperature [°C]	Standard: 10-120 Ext. temp : -70-120
Process pressure [Bar]	Standard: 6 Optional: 30
Ambient temperature [°C]	0-45
Laser class	3R
Housing protection	IP65

Pixscope models	14	19	24
A Wet part diameter [mm]	14	19	24
B Wet part length to measurement gap [mm]	252	260	268
C Wet part total [mm]	270	284	295
D Total length [mm]	452	466	480

Pixscope 14/19/24 models can be installed to the reactor through standard and custom inlets.

Mechanical specification	
Measurement gap [mm]	3 or 5
Wet part material	Hastelloy C22
Window material	Sapphire
Sealing material	PTFE, FFKM
Probe weight [kg]	1.4-1.5



1" Ingold fitting



DN40p



PTFE lining for glass reactors

Optical specification	14	19	24
Image resolution [µm]	1.2	1.7	1.7
Image area [mm]	1.7 x 1.2	3.9 x 3.3	4.2 x 3.5
Measurement range [µm]	3-1000	5-1500	3-2000

Examples of installation accessories available to Pixscope 14/19/24