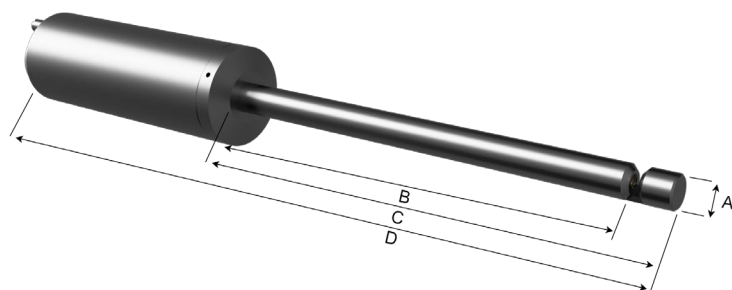


# Pixscope Imaging Units

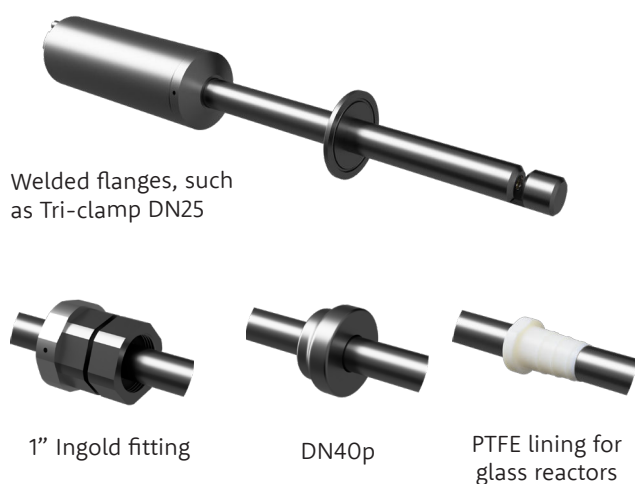
Pixscope imaging units produce microscope-quality image data from the process. The smallest versions of the Pixscope product family are designed for laboratory use and they fit to a variety of laboratory equipment, such as reactors and beakers. Combined with Pixstation LAB main unit they are portable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



Pixscope models	14-250	19-300	24-300
A Wet part diameter <i>mm</i>	14	19	24
B Wet part length to window <i>mm</i>	232	260	268
C Wet part total <i>mm</i>	250	284	295
D Total length <i>mm</i>	432	466	480

## Installation

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

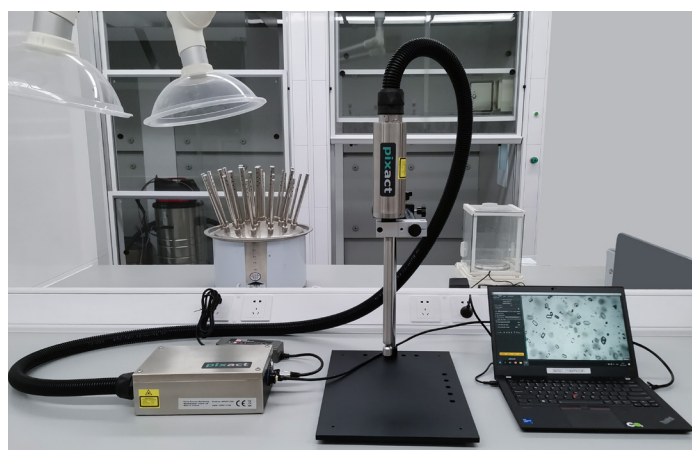


Examples of installation accessories available to Pixscope 14/19/24

Mechanical specification	
Measurement gap <i>mm</i>	3 or 5
Wet part material	AISI316L/1.4404 Hastelloy C22
Window material	Sapphire
Sealing material	PFA
Probe weight <i>kg</i>	1.4-1.5

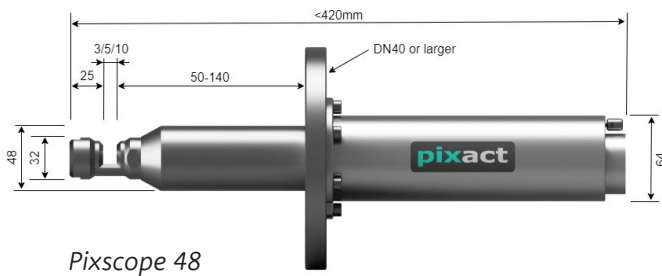
Process & Environment specification	
Process temperature °C	Standard: 10-120 Ext-temp : -50-120
Process pressure <i>Bar</i>	Standard: 8 Optional: 30
Ambient temperature °C	0-45
Laser class	3R
Housing protection	IP65

Optical specification	14-250	19-300	24-300
Image resolution $\mu m$	1.2	1.7	1.7
Image area <i>mm</i>	3.7 x 2.5	3.9 x 3.3	4.2 x 3.5
Measurement range $\mu m$	5-1000	5-1500	3-2000

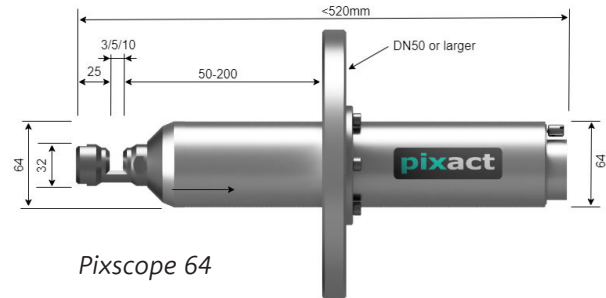


# Pixscope Imaging Units

Pixscope imaging units produce microscope quality image data from the process. 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.



Pixscope 48



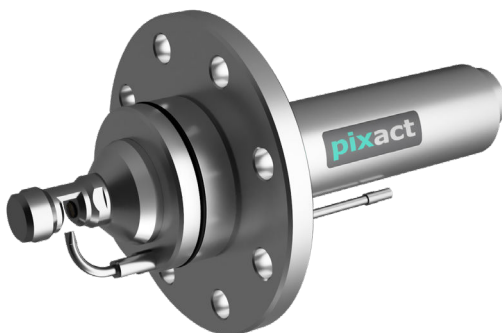
Pixscope 64

## Installation

Preferred installation location for the Pixscope 48/64 is a flange on the reactor or on the tank side wall. If side inlet is not available, longer version of Pixscope can be built to reach the suspension from the flange on top of the reactor.



The imaging unit can also be equipped with a washing nozzle to flush the measurement gap when needed.



### Mechanical specification

Wet part diameter <i>mm</i>	Pixscope 48: 48.3 Pixscope 64: 63.5
Wet part length to window <i>mm</i>	Pixscope 48: 50-140 Pixscope 64: 50-200
Measurement gap <i>mm</i>	3, 5 or 10
Wet part material	AISI316L/1.4404 AISI904L/1.4539 Super duplex/1.4410 Hastelloy C22
Window material	Sapphire
Sealing material	Standard: EPDM, FFKM, VMQ, NBR Ext. temp 1: EPDM, FFKM Ext. temp 2: EPDM
Probe weight <i>kg</i>	3-8

### Process & Environment specification

Process temperature $^{\circ}\text{C}$	Standard: 10-85/ 120 short.t. Ext-temp 1: -40-120 Ext-temp 2: -55-120
Process pressure <i>Bar</i>	Standard: 8 Optional: 30
Ambient temperature $^{\circ}\text{C}$	0-45
Laser class	3R
Housing protection	IP65

### Optical specification

Image resolution $\mu\text{m}$	M10: 3.5 M20: 1.7
Image area <i>mm</i>	M10: 8.4 x 7.1 M20: 4.2 x 3.5
Measurement range $\mu\text{m}$	M10: 4-4000 M20: 2-2000