

Quick Pro (Stand-Alone Manipulator)

Description

- Seamless hand-operated feel with just one PC mouse click

Features

- Effortless tasks without fatigue: Utilize XYZ three-axis operation with a PC mouse for precise and smooth movements.
- Seamless integration: Easily set up the system alongside stereomicroscopes and metallurgical microscopes, eliminating the need for a PC.
- Enhanced capabilities: Achieve precise cutting with our "Milling Pro" attachment (MIL-1) and versatile handling with our "Micro Tweezers" (MTW-1).
- Customisable operations: Optimise work by freely combining right and left-handed operation based on the task's purpose and frequency.



Quick Pro QP



- Independent micromanipulator arms that can be added to any microscope. This allows the microscope to function as a micromanipulator.
- Arm motions of Quick Pro are identical to those in Axis Pro, providing for fine, precise, and stress-free microsampling.
- Touch panel interface controls arm motion and allows for programming of motions. Up to 10 positions can be memorized – very useful for repetitive motions!
- You can choose among Right arm, Left arm, and Both arms. System can easily be extended in future, so the user has the flexibility to expand the system capabilities depending on budget and purpose.
- Micromanipulator software (with mouse control of arm motion) can also be used.

Configurations

Right arm set

QP-3RH

- Quick Pro (for right arm) main part
- Touch panel unit
- Controller x 1 set
- Magnet stand x 1
- Mouse
- Probe handle x 1

Left arm set

QP-3LH

- Quick Pro (for left arm) main part
- Touch panel unit
- Controller x 1 set
- Magnet stand x 1
- Mouse
- Probe handle x 1

Both arms set

QP-3RLH

- Quick Pro (for both arms) main part
- Touch panel unit
- Controller x 2 set
- Magnet stand x 2
- Mouse
- Probe handle x 2

Both arms + Electric XY stage set

QP-3RLH-EXY

- Quick Pro (for both arms) main part
- Electric XY stage
- Touch panel unit
- Controller x 3 set
- Magnet stand x 2
- Mouse
- Probe handle x 2

Specifications

Operation display unit

- Touch panel screen
- Control of probe motion speed
- Position memory function (up to 10 positions)
- Incremental movement, Origin-return
- Evacuation function
- Set limit on axis motion (X-axis or Y-axis)
- Confirmation of position information, zero setting of coordinates

Operation interface unit

- PC mouse (XYZ-axis operation)
- Touch panel (Incremental movement of XYZ direction)

Stand

- Magnet stand base
- 100mm steel plate is attached. Ensures arm stability during motion.

Electric manipulator unit

- Right arm and left arm: Range of motion X:20 Y:20 Z:30mm
- Probe handle included

Electric XY stage unit

- Range of motion: X-axis:100mm Y-axis:50mm

Power requirements

- AC100-240V,50/60HZ, single phase 120W

Micro Sampling Machines

User selectable combinations of Quick Pro depending on sampling situation with

Zoom microscope



Stereo microscope



Upright microscope



Inverted microscope



Attachable Tools

- Tungsten probe (All items)
- Tungsten carbide tool (All items)
- Micro knife (All items)
- Ruby knife (All items)
- Vacuum absorption tool set
- Microinjector
- Microtweezer tool set
- Other tools also available
- Milling Pro
- Electrode holder
- Micro scissors

Sampling Station SS

Simple microscope system suitable for micro sampling

- Simple specification based on manual operation with cost-effective price.
- Observation (camera, monitor and microscope) is same as Axis Pro.
- Vertical motion sample stage can pick up objects and transfer them easily.
- Each unit is set up with optimal positions.
- Available with one or both arms.
- Most tools can be equipped with system meeting various sampling needs.

Examples of configurations

Standard



- Sampling Station standard set
- Electric micromanipulator (Right & Left)
- USB camera
- PC, Controller
- Full HD display
- Angle fixing arm (Right & Left)

Milling Pro (Ultrasonic scraping /cutting)

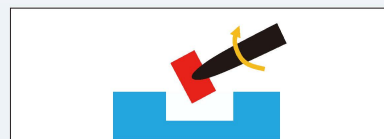
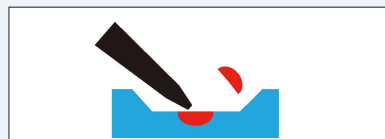
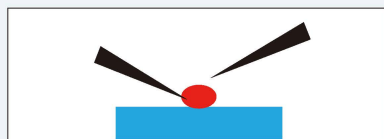


- Sampling Station standard set
- Electric micromanipulator (Left)
- USB camera
- PC, Controller
- Full HD display
- Milling Pro (Left)

FIB lift-out



- Sampling Station standard set
- Electric micromanipulator (Right)
- USB camera
- PC, Controller
- Full HD display
- Super fine pitch rotator (Right)



Specifications

Microscope

- Base unit with vertical motion sample stage (range 30mm)
- Manual zoom microscope (Zoom:0.8~10x)
- Objective lens 5x(WD=14mm)
- LED Coaxial reflection illumination unit
- XY mechanical stage corresponding to transmission illumination (range X75mm:Y50mm)
- Dedicated USB digital camera

Micromanipulator arms

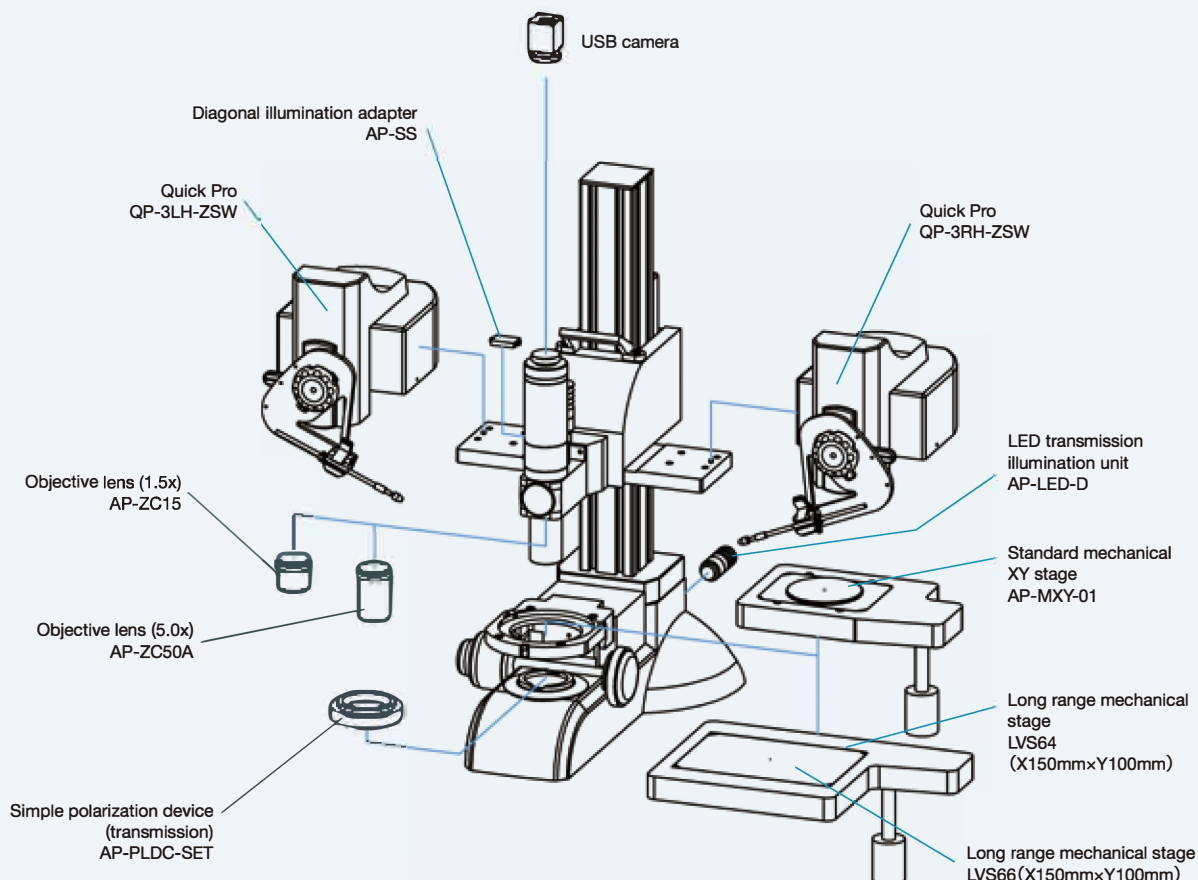
- X-axis:20mm Y-axis:20mm, Z-axis:30mm
- 4mm diameter handle included
- Angle fixing arm (15°,22.5°,32°)

Arm option

- Universal arm (free adjustment of angle)

Sampling Station SS

System Diagram (with options)



Specifications



<Control part> QP-3PCUG

- 21.5 inch LCD display
- Dedicated USB digital camera
- Dedicated PC
- Dedicated controller
- (1-2 pcs depending on configuration)

<Example of customized part>

- Microscope tilting structure
- XY transferred structure on microscope
- Extension of post of microscope
- Large base available (for withstanding heavy load)
- Designed jigs for fixing sample

<Option>

- Long range stage corresponding to transmission illumination (X150mm:Y100mm)
- Long range stage exclusive for reflection illumination (X150mm:Y150mm)
- Objective lens 1.5x(WD=46mm)
- LED transmission illumination unit
- Simple polarization illumination unit (for transmission)
- Diagonal illumination adaptor