

PIFOC® Objective Scanner with High Dynamics

NANOMETER RESOLUTION FOR HEAVY OBJECTIVES



P-725KHDS

- + Travel range 400 µm
- + Resonant frequency 120 Hz, with 400 g load
- + Step- and- settle 20 ms, with 400 g load
- + QuickLock thread adapters up to M32

PIFOC® objective scanner

1 axis. Frictionless flexure- guided design. Capacitive position sensor for maximum stability and linearity. QuickLock adapter for easy attachment

PICMA® high- performance piezo drive

Piezo ceramic actuators with all- ceramic insulation. Longer lifetime, humidity resistance and operating temperatures to 80°C

Fields of application

Microscopy, confocal microscopy, 3D imaging, screening, autofocus systems, surface analysis. Ideal for multiphoton microscopy due to high dynamics at heavy loads

Specifications

Preliminary data	P-725KHDS	Unit
Active axes	Z	
Motion and positioning		
Integrated sensor	Capacitive	
Closed- loop travel	400	µm
Closed- loop resolution	2.5	nm
Linearity error in X, Y	0.06	%
Mechanical properties		
Stiffness	0.35	N/ µm
Unloaded resonant frequency in X	330	Hz
Loaded resonant frequency in X, 100 g	230	Hz
Loaded resonant frequency in X, 400 g	120	Hz
Load capacity	10	N
Drive properties		
Piezo ceramic	PICMA® P-887	
Electrical capacitance in X , Y	6.4	µF
Miscellaneous		
Operating temperature range	10 to 50	°C
Material	Aluminum	
Cable length	1.5	m

Connector	Sub- D Special 1 channel
Recommended controller	E-709.CHG

Ask about custom designs!

Order Information

P-725KHDS

PIFOC[®] Piezo Nanofocusing System with High Stiffness, 400 μm , Capacitive Sensors, Sub- D Connector, for QuickLock Adapter

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Controllers / Drivers / Amplifiers

[E-709.CHG Digital Single Channel Piezo Controller](#)

Drawings / Images

P-725KHDS,
dimensions in mm

