

# PIFOC® Objective Scanner Systems

## Image Faster



- Ultra-Fast Z-Steps with Patented Piezo Ceramic Drives
- 7 msec Step Time for Typical high-NA Immersion Objective
- System Includes Everything You Need:  
Piezo-Mechanics, Controller, Adapters
- Compatible with all Major Image Acquisition Packages
- Legendary PI Performance, Reliability & Robustness
- Capacitive Position Feedback as used in  
NIST Reference Class Nanometrology Systems
- Moving Objective does not Disturb Sample
- From the Inventor of Piezo-Z Scanners

# PIFOC® Objective Scanner Systems

## Image Faster



- From the Inventor of Piezo-Z Scanners for Fast Z-Stack / Focus Control
- Choice of Travel Ranges / Controllers
  - 100  $\mu\text{m}$  or 400  $\mu\text{m}$
  - Display Controller or Compact Controller
- Custom Tuning for Fastest Possible Speed (to 7 msec per Step)
- System Includes Everything You Need:
  - Mechanics, Controller, Adapters, Distance Cases
- Legendary PI Performance, Reliability & Robustness
- Compatible w/ all Major Image Acquisition Packages
- Capacitive Feedback as used in NIST Reference Class Nanometrology Systems
- ISO 9001 Quality from the Global Leader in Nanopositioning
- UL and CSA Certified

### Z-Stack Imaging & Focusing: Faster with Piezo Z-Scanners

PIFOC® piezo-actuated Z-scanners achieve typically 10 times higher focusing speed & precision than motorized drives and

thus provide higher-quality images faster.

### Scanning the Objective

The compact, light and stiff objective scanner design pro-

vides very fast response and does not disturb the sample.

### Compatible with Imaging Software

PIFOC® controllers come with a high-bandwidth analog inter-

face for extremely fast response and compatibility with all major image acquisition packages.

### About PI

PI, the global leader in nanopositioning, has been ISO 9001 certified since 1994 and employs more than 400 people world wide. PI's patented piezo technology provides longer lifetime and higher performance than any other piezo device on the market. PIFOC® was invented by PI 15 years ago and has since become the global standard in objective scanners, with thousands of units installed in the field.

### PIFOC® Objective Scanner System Configurations:

#### Display Controller

Full featured E-665 PIFOC® controller with display and additional manual control. 36W piezo power.

#### 100 $\mu\text{m}$ Scanning Range

P-721 PIFOC® scanner for ultra-fast Z-Stack imaging / focusing



PIFOC® 100D System

#### 400 $\mu\text{m}$ Scanning Range

P-725 PIFOC® scanner for fast focusing / Z-stack imaging



PIFOC® 400D System

#### Compact Controller

E-625 PIFOC® economical controller. 14W piezo power.



PIFOC® 100 System



PIFOC® 400 System

All PIFOC® systems include the piezo objective scanner, a controller and two distance cases. To order, specify part number and objective thread (e.g. PIFOC® 100D, M25 x 0.75)

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