

MDI-H with Piezo Drive



The **MDI-H with Piezo Drive** is a mirror mount which is controlled by a piezo system with our own electronics. Besides a manual adjustment by 0.15 mm / 0.25 mm per turn, the systems can be adjusted electronically within a μm -range.

The piezoelectric actuators are built into the mirror holder. Each of them have the following specifications:

The operation voltage range is -10 V ... +150 V, leading to maximum stroke of $> 20 \mu\text{m}$ (typically $23 \mu\text{m}$).

Optomechanical Components with Piezo Drive

Many of our optomechanical components can be equipped with piezo drives.

For detailed information please contact us.

Piezo controller



The power supply **RD2-16020** was developed for two axes positioning of piezo-electrically controlled mirror mounts.

Piezo Driver Datasheet:

Power supply	AC 230V internal
Dimensions HxWxD (mm)	65 x 110 x 165
Front panel HxW (mm)	65 x 110
Channels	2
Output power per channel (W)	3
Output current per channel (mA)	20
Output voltage (V)	-10...+150
Output noise (mV _{RMS} @500Hz)	<0.3
Output noise amplitude (mVpp)	3 (typical)
Output connector for piezo ¹⁾ (front side)	SMA
Monitor voltage connector ¹⁾ (back side)	BNC
Monitor voltage (V)	-0.67...+10
Modulation input connector ¹⁾ (back side)	BNC
Modulation input (V)	0...5
Modulation input resistance (kΩ)	1
Output indicator ¹⁾ (front side)	LED or LCD (max -10.0...+150.0)
Manual adjustment ¹⁾ (front side)	Potentiometer 10 turns, precision

¹⁾ one item per channel

We also offer **piezo controlled translation stages** (page 78)

