



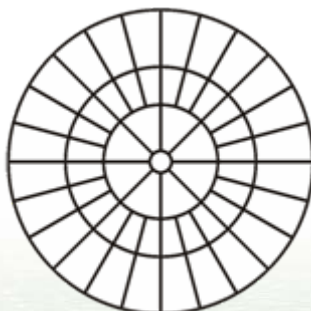
- The U-Flex-56-MDL-57 - unimorph deformable Mirror is designed to be applied in medical imaging, laser beam control and shaping, optical communications, and astronomy.
- The deformable Mirror is constructed of one thin plate of piezoelectric material coupled with a substrate plate.
- The Mirror is capable of forming complex surface patterns, the shape of which is computer-controlled and well suited for compensation of low order aberrations (up to 4th order of Zernike).
- The SDK (C++) allows to operate all functions of the mirror and to achieve easy integration with user software.

Deformable Mirror U-FLEX-56-MDL-57

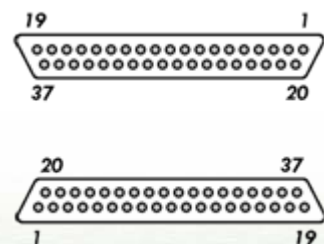
TECHNICAL SPECIFICATIONS

Clear Aperture (diameter)	56 mm
Substrate	Glass
Stroke	45 μm
Initial curvature	25 m
Number of control electrodes	57
Control voltage (max)	$\pm 300 \text{ V}$
Resonance frequency	>4000 Hz
Reflecting coatings (optionally)	Al, Ag, Cu, Multilayer Dielectric
Optical Damage threshold in pulsed operation	> 0.3 J/cm ²
Surface quality (scratch-dig)	60-40/40-20
Hysteresis	<15 %
Operating temperature range	+10-+40 °C
Storage temperature range	-30-+70 °C
Weight	150 g
Size	$\varnothing 90 \times 32 \text{ mm}$

ELECTRODE ARRANGEMENT AND ELECTRICAL CONNECTOR



View from inner side

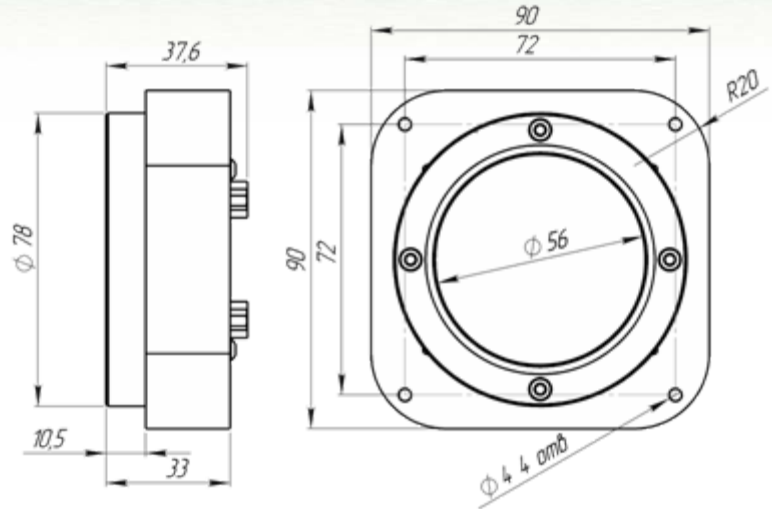


2 x 37 pin D-SUB

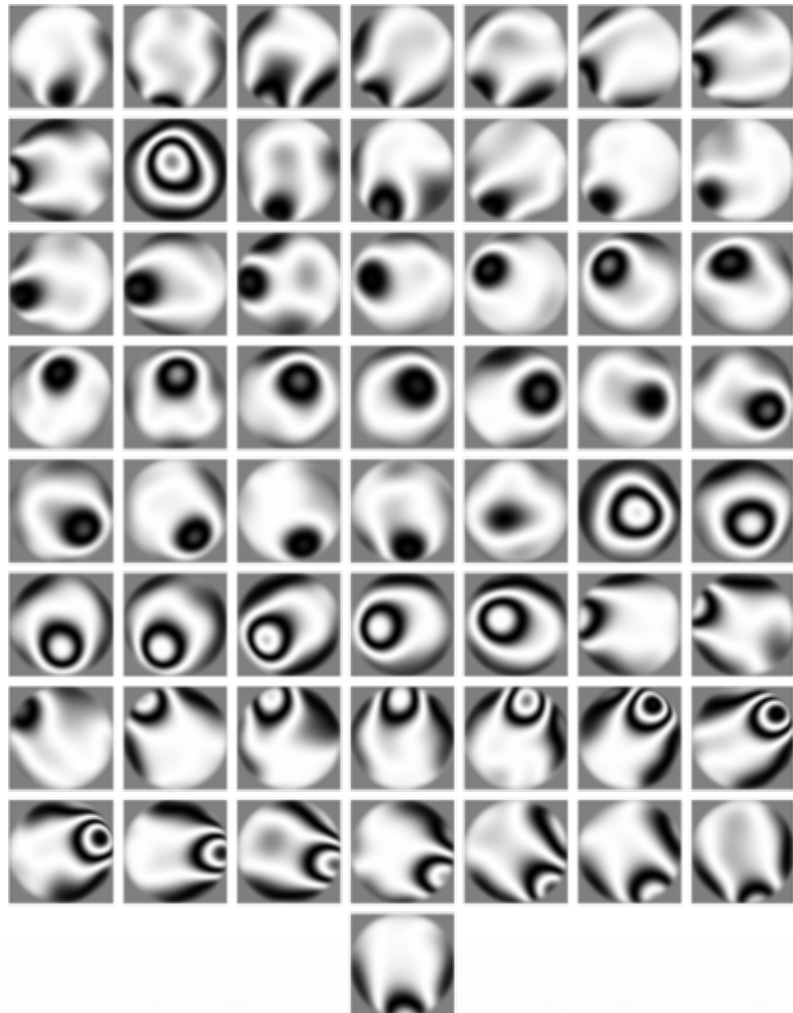


Deformable Mirror U-FLEX-56-MDL-57

MECHANICAL DIMENSIONS



TYPICAL RESPONSE FUNCTIONS



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