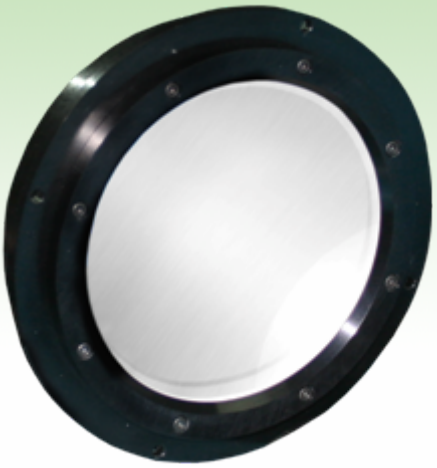

- **The U-Flex-120-HEX-121 - unimorph deformable Mirror is designed to be applied in medical imaging, laser beam control and shaping, optical communications, and astronomy.**
- **The Mirror is capable of forming complex surface patterns, the shape of which is computer-controlled and well suited for compensation of low order aberrations (up to 10th order of Zernike).**
- **The SDK (C++) allows to operate all functions of the mirror and to achieve easy integration with user software.**

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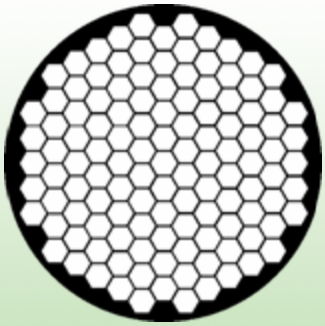
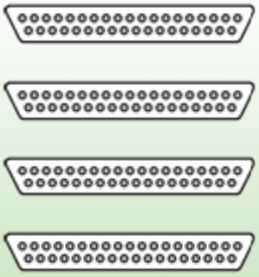
Deformable Mirror U-Flex-120-HEX-121

TECHNICAL SPECIFICATIONS	
Aperture diameter	115 mm
Substrate	Si
Stroke	> 25 μm
Effective control aperture	100 mm
Number of control electrodes	121
Control voltage	from -300 to +300 V
Maximum order of operable Zernike polynomials	10
Reflecting coatings	Al + SiO_2
Optical Damage threshold	>0.2 mJ/cm^2
Surface quality (RMS) with correction voltages	60-40 нм
Surface accuracy (scratch-dig)	60-40
Hysteresis	<15 %
Operating temperature	from +15 to +35 °C
Storage temperature	from -30 дto +70 °C
Weight	1 kg
Size	ø166x41 mm





Electrodes arrangement and electrical connectors (4 × 37-pin D-SUB)

Visionica Ltd.
2019

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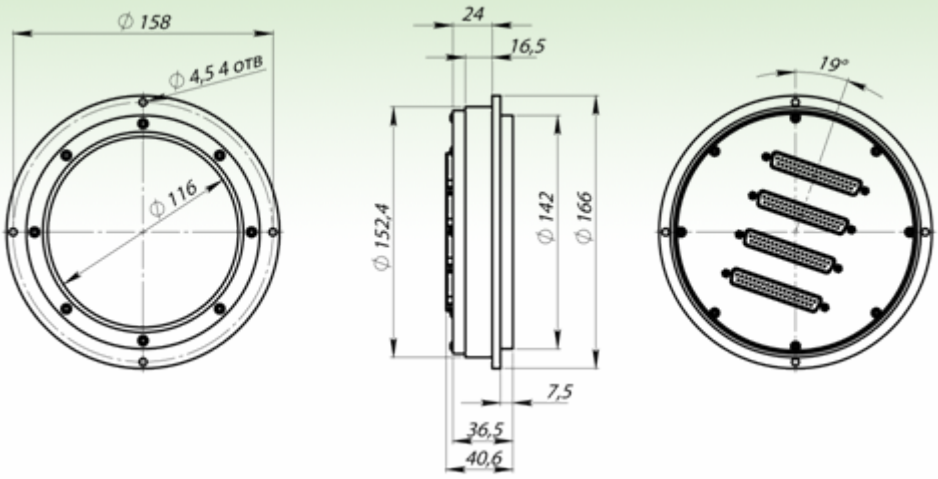
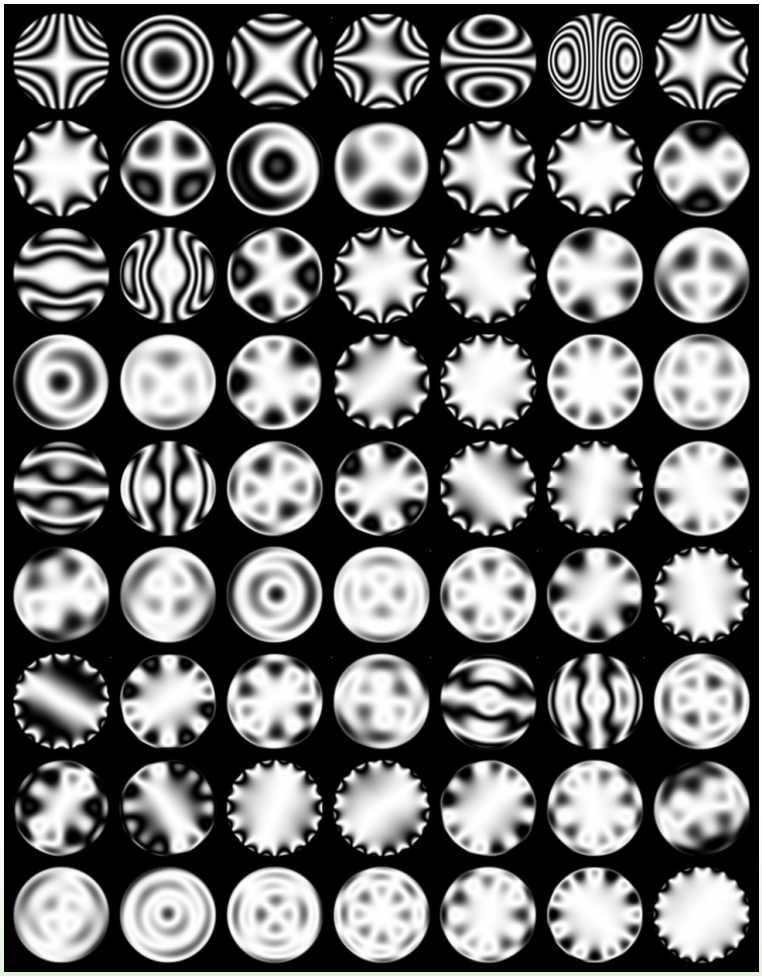
Deformable Mirror U-Flex-120-HEX-121

DIMENSIONS



SIMULATION OF ZERNIKE POLYNOMIALS



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Part Number:
VC.DMU-120-Si-121-HEX