

High-speed solid-state Laser beam deflector

- ✓ **“All solid-state”, “Opto-electronic” deflector without moving parts**
- ✓ **Compact size and wide operable wavelength range: 488 – 3,500 nm**
- ✓ **Applications: Microscope, Laser processing, Lidar, etc.**



1D KTN deflector module & Driver amplifier

Specifications of 1D deflector			
Wavelength (nm)	488 - 635	1235 - 1385	1475 - 1625
Deflection angle (mrad)	150	120	120
Operation frequency (kHz)	10 - 100		
Beam diameter (mm)	0.5		
Dimension (mm)	23 × 23 × 50		



Hand-held 2D KTN deflector module

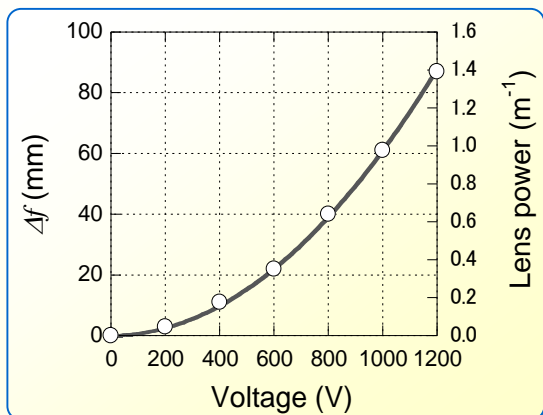
Specifications of 2D deflector	
Wavelength (nm)	1235 - 1385
Deflection angle (mrad)	120
Operation frequency (Hz)	100 – 2000
Beam diameter (mm)	0.8
Dimension (mm)	16 × 16 × 114
Weight (g)	60

KTN varifocal lens

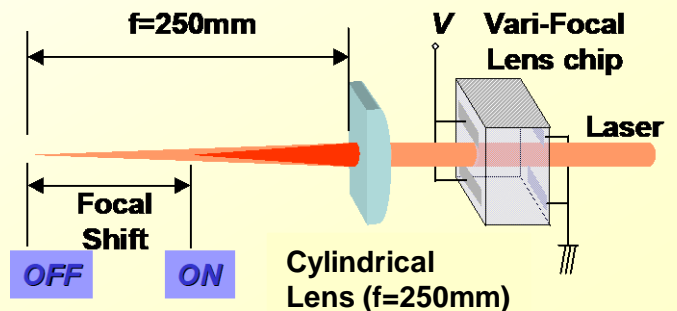
- ✓ **All solid state, electro-optic varifocal lens**
- ✓ **Voltage-controlled continuous and step change of focal length**
- ✓ **1 micro second response**



Varifocal lens module



Focal shift results



Varifocal lens was developed by NTT device innovation center.