

# Highest-Speed Solid-State Laser Beam Deflector

## Highlights

- ✓ **Bi-direction voltage-controlled continuous and step scanning**
- ✓ **Scan up to 10 degrees deflection at 10k - 100kHz**
- ✓ **Compact size and wide operation wavelength range: 488 – 3,500 nm**
- ✓ **“All solid state”, “Opto-electronic” deflector without moving parts**

## Applications

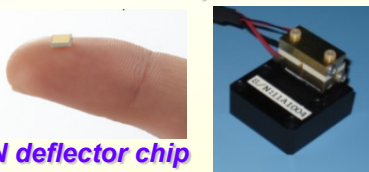
- ✓ **Bio Medical Fields** *i.e. OCT light source , Microscope*
- ✓ **Industrial Fields** *i.e. Laser marker , Laser processing*
- ✓ **Environmental Fields** *i.e. Gas sensor , Laser Radar*

## KTN Deflector Module



1D KTN deflector module & Driver amplifier

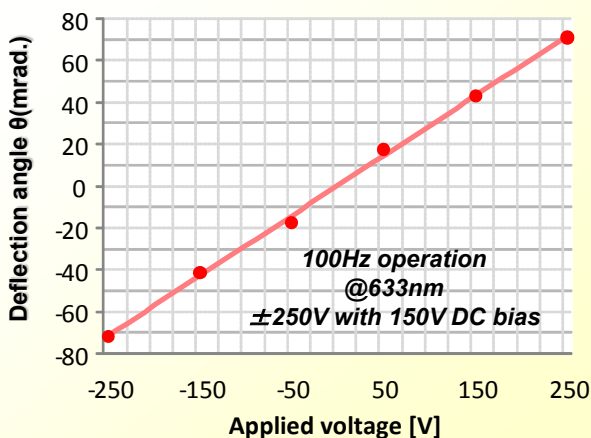
Specifications			
Deflection angle	Visible	1235-1385nm	1475-1625nm
1D	150mrad	120mrad	120mrad
2D Horizontal	150mrad	120mrad	120mrad
2D Vertical	120mrad	96mrad	96mrad
Operation frequency	10k -100kHz		
Beam diameter	0.5 mmφ		
Dimension	23 × 23 × 50mm <sup>3</sup> (1D) 40 × 40 × 80mm <sup>3</sup> (2D)		



KTN deflector chip

KTN deflector mount module

## Voltage-controlled Scanning



## Frequency Response

