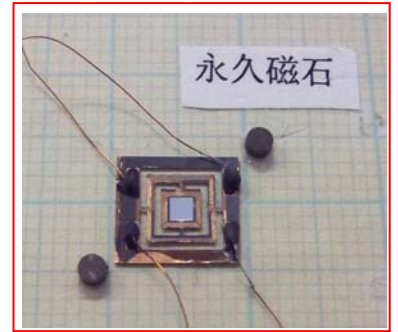
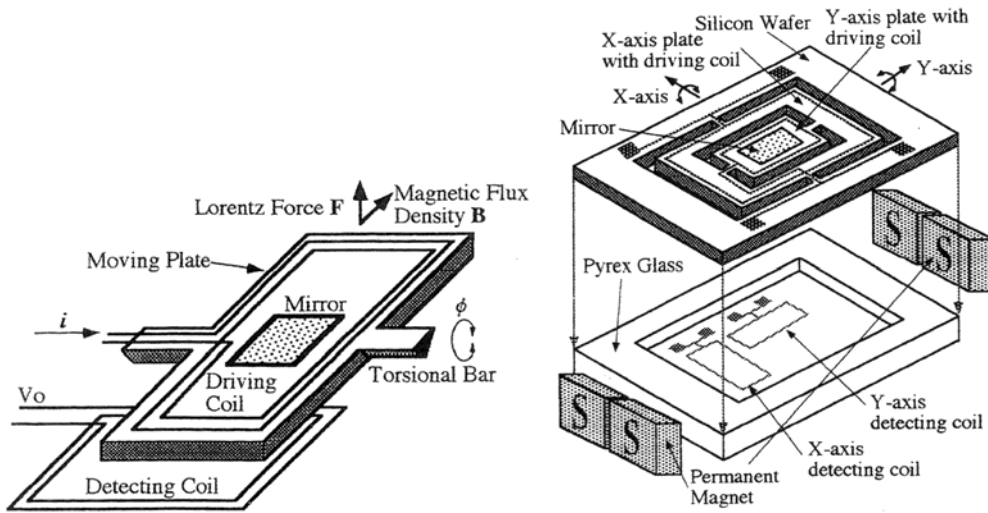
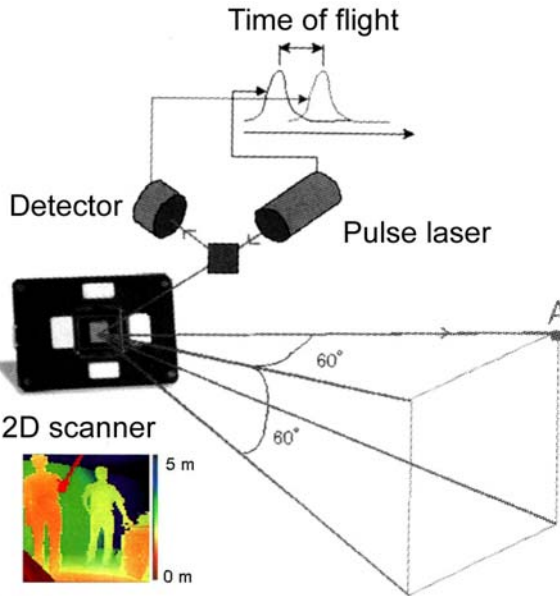
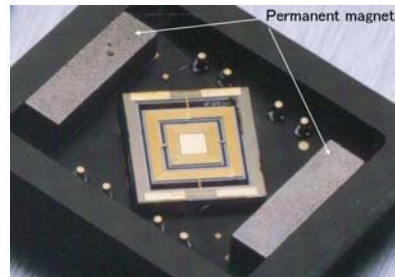
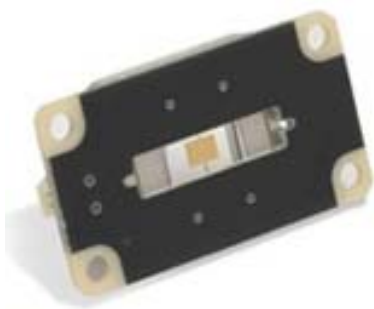


## 2 axis Galvano Optical Scanner



2 axis galvano optical scanner (Tohoku Univ. - Japan Signal)

Reference : N.Asada, H.Matsuki, K.Minami and M.Esashi : Silicon micromachined two-dimensional galvano optical scanner, IEEE Trans. on Magnetics, 30 (1994) pp.4647-4649



1axis optical scanner (top) (Applied scanner is displayed) Ranging imager system (Japan Signal)  
2axis optical scanner "Eco scan" (bottom)



Application of the range imager to platform door (Ebisu station) Small optical scanner Small scanner for projector

Reference : T.Ishikawa, H.Inomata : Laser Ranging Sensor Using MEMS Optical Scanner "ECO SCAN", Japan Signal Technical Report, 33, 1, pp.41-46 (2009)

E.Kawasaki, H.Yamada and H.Hamanaka, Application of the Optical MEMS Scanner "ECOSCAN" for Pico Projector, IDW' 09 (2009)