

Introduction:

The dynamic scanning optical system consists of a small focus lens, a group of positive lenses, and a galvo mirror. The entire optical system forms a function of beam expansion, focusing and beam deflection and scanning. The expanding part is a negative lens, ie small focus lens, which realizes beam expansion and moving zoom, the focusing lens is composed of a group of positive lenses. The galvo mirror is mirror in the galvanometer system.

Requirements:

- (1) The dynamic scanning optical system consists of a small focus lens, a group of positive lenses, and a galvo mirror
- (2) $30 < J / cm^2 \leq 10ns$
- (3) The dynamic scanning optical system consists of a small focus lens, a group of positive lenses, and a galvo mirror
- (4) $35 \leq 1$
- (5) $\leq \lambda / 5$



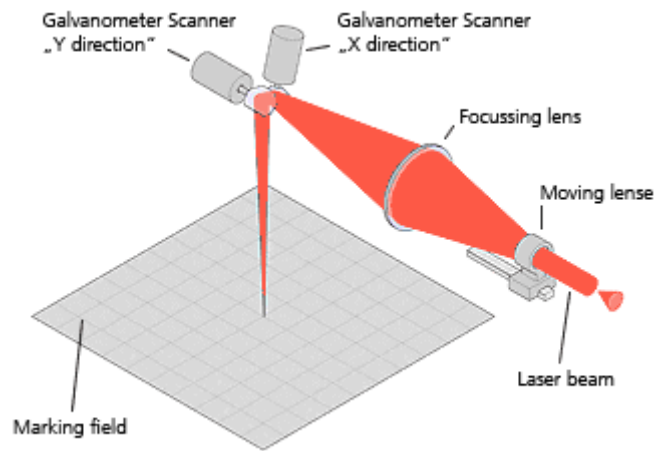
Optical components and optical system for post objective scanning system

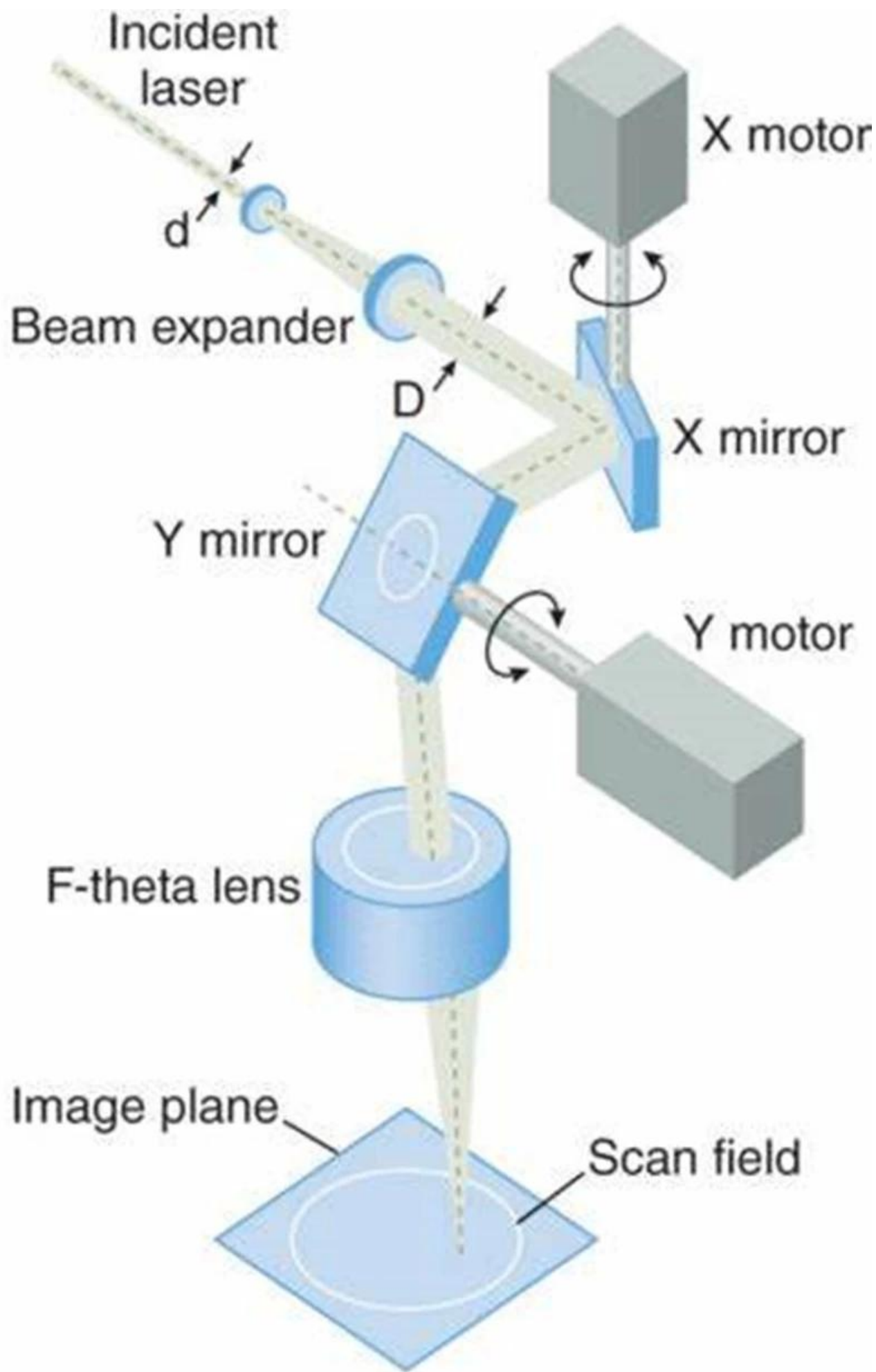
Dynamic scanning optical system optics: 1pc small focus lens、 1-2pcs focus lens、 Galvo mirror. The entire optical lens forms a function of beam expansion, focusing and beam deflection and scanning. The expanding part is a negative lens, ie small focus lens, which realizes beam expansion and moving zoom, the focusing lens is composed of a group of positive lenses. The galvo mirror is mirror in the galvanometer system.



Galvo Mirror

Part Description	Max Entrance Pupil (mm)	Material	Coating
55mmL*35mmW*3.5mmT-X 62mmL*43mmW*3.5mmT-Y	30	Silicon	MMR@10.6um
	30	Fused Silica /Silicon	HR@1030-1090nm
	30	Fused Silica /Silicon	HR@515-540nm / 532nm,45° AOI
	30	Fused Silica /Silicon	HR@355nm & 343nm,45° AOI



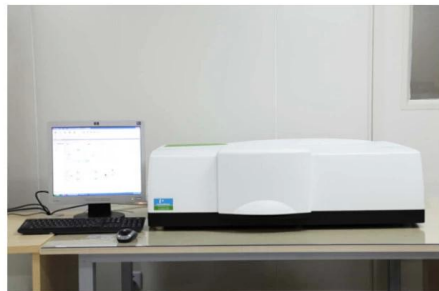


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TRIOPTICS OptiSpheric 2000 AF
---Testing EFL, R, Centering Error, Wedge Angle, BFL, MTF



PerkinElmer Lambda 950---Testing Transmission and Reflectivity



Carmanhaas Coating Machine



Packaging & Shipping

Packaging 1



Packaging 2



Packaging 3



Shipping 4



Lens Cleaning

1. For light pollution (dust, fiber particles) were flexible cleaning.

Using a blowing balloon, Blow off scattered contaminants on the surface of the optical element.



2. For light pollution (stains, fingerprints) were flexible cleaning.

Propanol, acetone glue with a cotton swab or alcohol to gently wipe the surface.



3. For moderately polluted (saliva, oil) in moderate-intensity cleaning.

Infiltrating distilled white vinegar with a cotton swab, wipe the surface a little pressure.



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