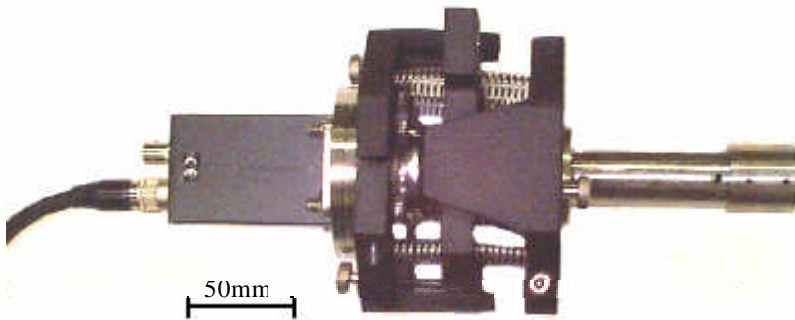


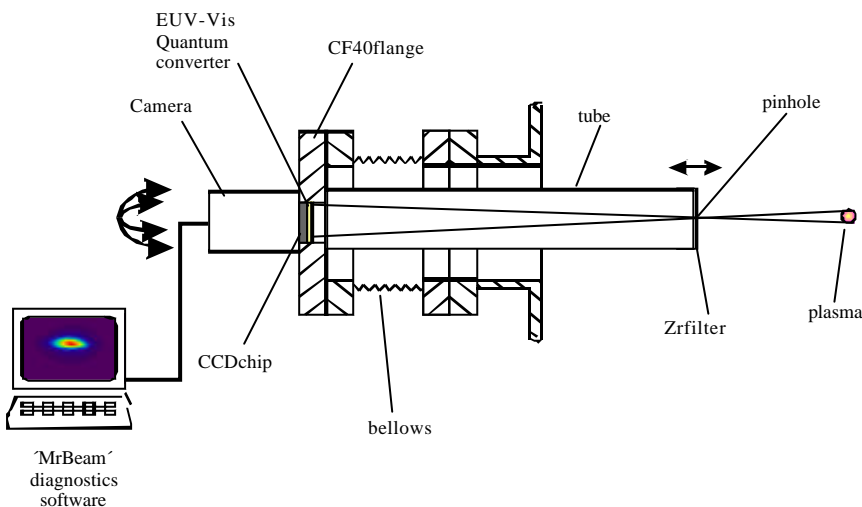
EUV pinhole camera



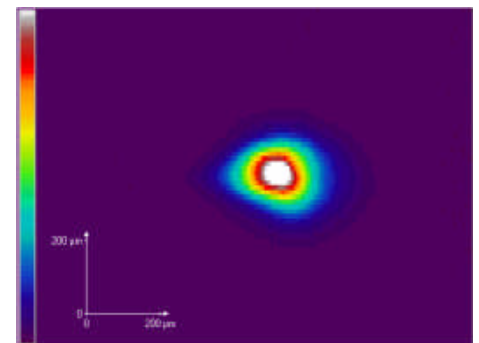
EUV pinhole camera (mechanical setup)

Specifications:

- spectralsensitivity:7-17nm
- spectralfiltering: Zr filter(200nm)
- camera:2/3"CCDsensormountedwith EUV-Vis quantum converter
- dynamicrange:8bit
- spatialresolution:724x568pixels
- pixelsize:11.6µm×11.2µm
- pinholedia.:5-50µm
- magnification:~1x....20x
(adjustable,othermagnificationsonrequest)
- UHVcompatible,mountedonCF40flange
- simplealignment
- singlepulseresolutionupto50Hz
- acquisitionandevaluationofplasmaimages withsoftwarecodedevelopedforlaserbeam characterizationinaccordancewithISOsta



Setupofpinholecamera(schematically)



Laser-inducedEUVplasmafrompulsedXejet (pinhole:30µm)

Applications:

- MonitoringofEUVemission characteristics:
 - *plasma dimension andshape*
 - *positional stability / fluctuations*
 - *relative EUV intensity (absolute calibrationpossible)*
 - *spatially resolved energy distribution*
- Investigation of reabsorption phenomena (Xe)
- Optimization of operational parameters of EUV sources