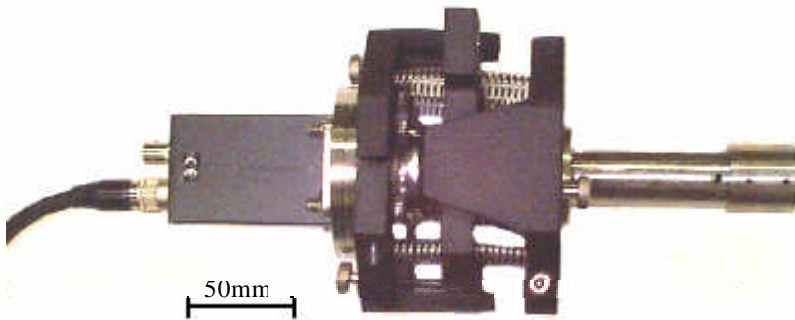


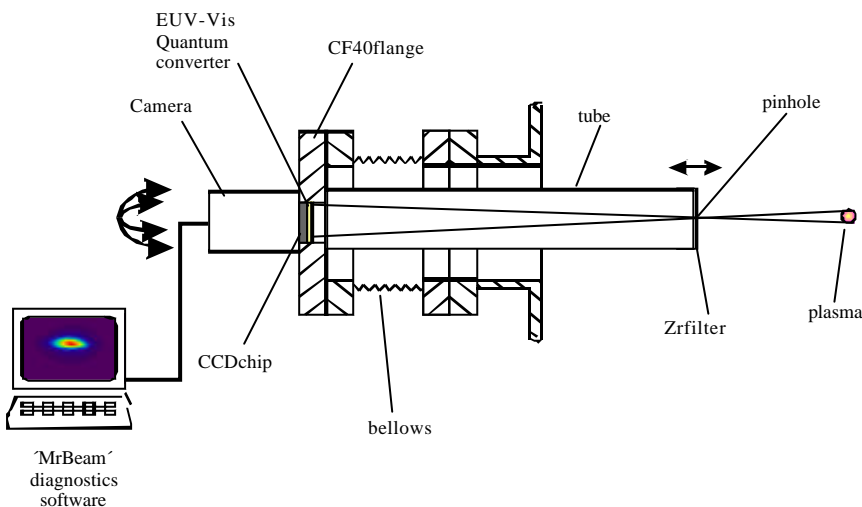
# EUV pinhole camera



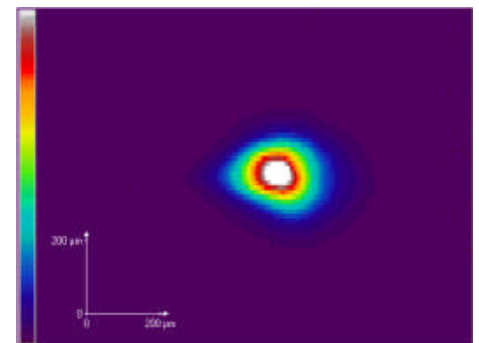
EUV pinhole camera (mechanical setup)

## Specifications:

- spectralsensitivity:7-17nm
- spectralfiltering: Zr filter(200nm)
- camera:2/3"CCDsensor,coatedwith 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;  
(pinholedia.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