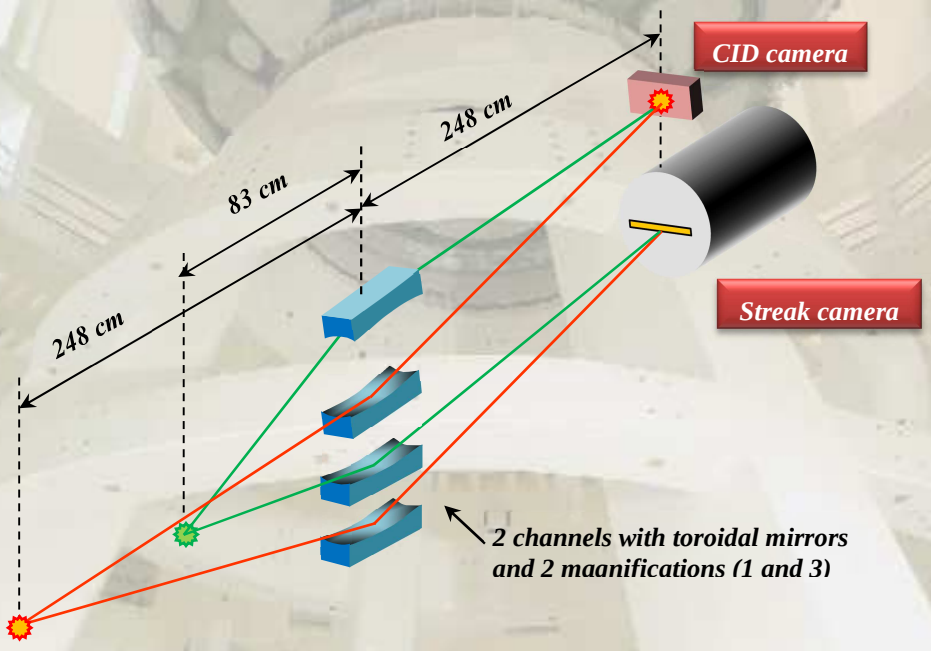
# SHXI — Streaked Hard X-ray Imager

The streaked X-ray imager, SHXI, records time-resolved 1D image in the hard X-ray spectral region. It is dedicated to X-ray radiography of target motion and to hard X-ray target emission.

The SHXI has two X-ray channels per magnification, all of them consisting of grazing angle-of-incidence toroidal mirrors and a filter. One image of the two X-ray channels is produced on the streak camera while the other image is formed on a time integrated detector (CID).

A protective holder contains three films to protect optical components from damages caused by target debris and UV radiation.

SHXI is set up in the target chamber by a SID (System for Insertion of Diagnostics).




| Characteristics | Spectral range | Spatial resolution (µm) / Field of view (mm) | Time resolution (ps) / Dynamic (ns) | Setting/ Operational |
|---|---|---|---|---|
| Magnification =1 or 3 | | | | SID |
| 1 time-resolved toroidal mirror channels | 0.5 - 10 keV | 150 / 15 or 50 / 5 | 17 / 2 to 120 / 25 | |
| 1 time-integrated mirror channel | 5 - 10 keV | 130 /20 or 50 / 6.5 | without | 2017 |