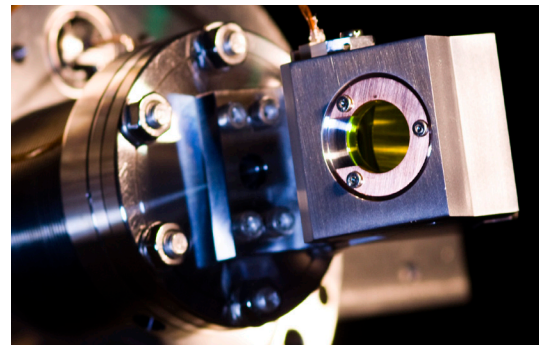
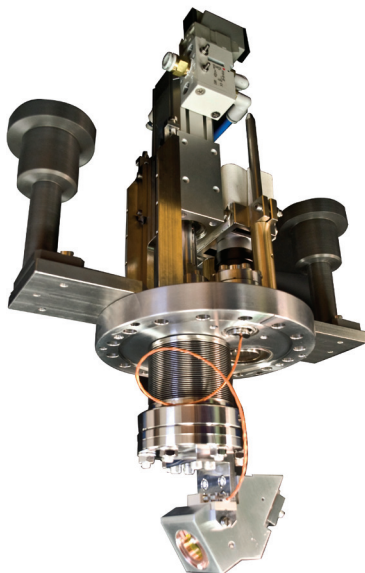


## Vacuum-compatible beam viewers

Beam diagnostics is of prime importance when initially aligning a modern beamline. A visible image is often useful to understand component behavior and also allows optimisation, which leads to improved performance and stability.

Two pneumatically driven vacuum-compatible beam viewing devices are available, based on diamonds for white beam applications and YAG screens for pink/monochromatic beam applications.

- ◆ Fully integrated system mounted on CF100 flange
- ◆ Water-cooled diamond scintillator for white beam
- ◆ Water-cooled YAG/vitreous carbon for pink beam
- ◆ Un-cooled YAG for monochromatic beam
- ◆ Integrated diode to measure intensity



*On the left: monochromatic beam viewer with its two alignment supports.  
On the right: zoom of the 300 µm YAG:Ce scintillator.*

### Characteristics

Description	Scintillator	Cooling	Intensity diode	Camera	Materials
WBV-d	Optical grade CVD diamond (300µm)	yes	yes	Balser GigE Monochrome	OFHC copper/Stainless steel/PEEK
WBV-p	YAG:Ce (100µm) glued on vitreous carbon (500µm)	yes	yes	Balser GigE Monochrome	OFHC copper/Stainless steel/PEEK
MBV	YAG:Ce (300µm)	no	yes	Balser GigE Monochrome	Al 7075/OFHC copper/Stainless steel/PEEK