



XFlash® 6 | 60

- The Large Area Silicon Drift Detector for Nano-Analysis

The XFlash® 6 | 60 with an energy resolution of down to 126 eV is part of the 6th generation of Bruker's exceptional XFlash® silicon drift detectors (SDD). XFlash® 6 | 60 features a 60 mm² active area sensor.



The XFlash® 6 | 60 premium offers very good energy resolution values of 126 eV at Mn K α , 60 eV at F K α and 51 eV at C K α . This also warrants the good light element and low energy range performance.



In combination with the specially adapted SVE 6 hybrid signal processing unit, this detector can accept more than 1,500 kcps at the input and provide an output of at least 600 kcps.



The slim-line technology detector finger of the XFlash® 6 | 60 provides shortest possible detector to sample distances ensuring a large solid angle in SEM, FIB-SEM and EPMA.



Light weight and small dimensions in combination with carefully selected construction materials cause least possible impact on the performance of the electron microscope. The motorized high precision slider allows full control over the detector position at all times.

The XFlash® 6 | 60 is the specialist for nano-analysis on SEM and FIB-SEM as well as for combined EDS and high-resolution EBSD.



Specifications

Available energy resolutions
 126 eV Mn K α , 60 eV F K α , 51 eV C K α
 129 eV Mn K α , 67 eV F K α , 57 eV C K α
 All resolutions specified according to ISO 15632:2012

Element detection range from beryllium (4) to americium (95)

Input count rate more than 1,500 kcps

Output count rate more than 600 kcps

60 mm² active area

Fanless Peltier cooling, no elaborate vibration-generating cooling systems required

Immediately ready for operation

Low operating cost

Maintenance free

Small dimensions, including slim-line detector finger

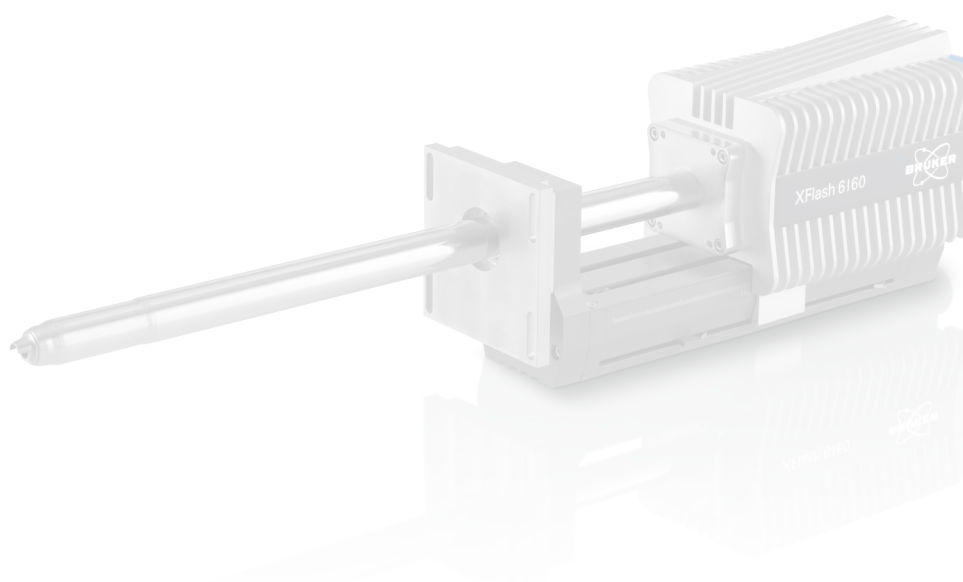
Light weight, 3.1 kg

High precision motorized slider

Welded bellows optionally available

Variable Z adapter for in-situ optimization of detector working distance optionally available

Compatible with all types of SEM, FIB-SEM and EPMA



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