

NEW



FWHM
DOWN TO
122 eV

SUPER
CLEAN
SPECTRUM

PPB
DETECTION
LIMITS

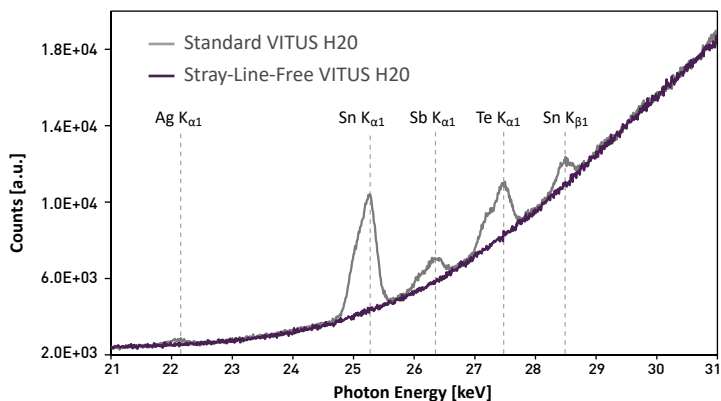
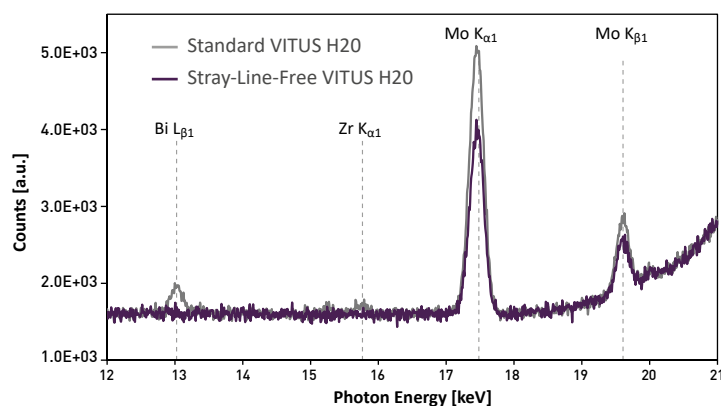
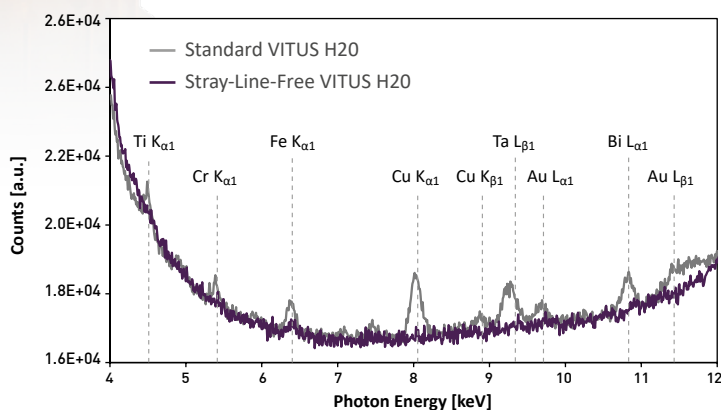


VITUS
SLF

KETEK VITUS H20 SLF STRAY-LINE- FREE SDD

KETEK's new VITUS H20 Stray-Line-Free (SLF) SDD was developed to eliminate nearly all unwanted X-ray excitation from SDD module components. The result is an extremely clean spectrum enabling highly precise measurements of very low element concentrations.

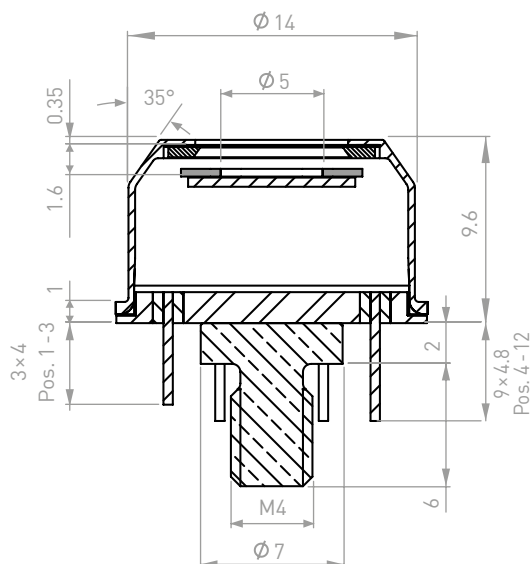
- Elimination of nearly all unwanted X-ray fluorescence (stray lines) from internal SDD components
- Enables extremely low detection limits in the ppb regime
- Perfect for applications like:
 - RoHS, REACH
 - Pharma
 - Semiconductor industry
- Superior radiation hardness for 24/7 operation
- ΔT from 95 K to 130 K depending on heat sink temperature
- Both Graphene window types (CH and CL) available
- Vacuum encapsulation allows He atmosphere operation
- Available for the entire KETEK electronics family



ISO 9001
Certified
Quality Management System
www.tuvsud.com/ms-cert



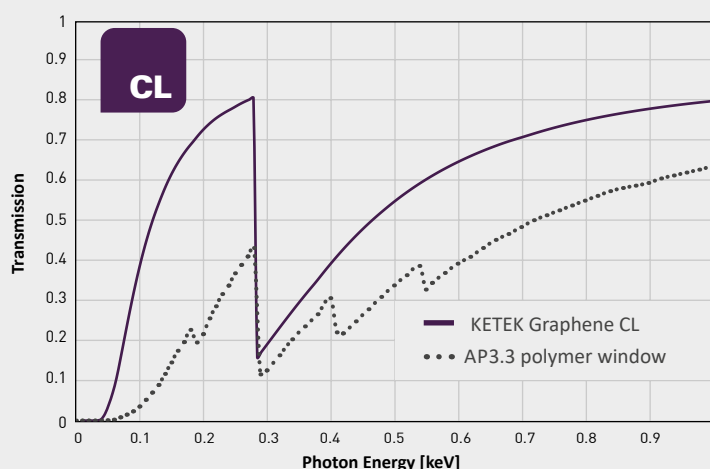
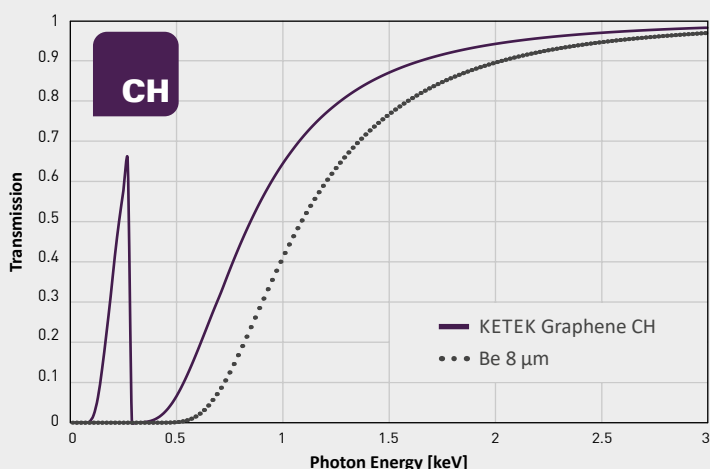
VITUS SLF



Specifications für H20 SLF

First stage amplification	ASIC
Collimated Area	20 mm ²
Energy resolution	≤ 129 eV @ Mn K _α
Peak to background	> 15,000
Peak to tail	> 2,000
Optimal peaking time at max. cooling	1 μs
Absorption depth Si	450 μm
Peak shift stability up to 100 kcps	< 1 eV
Max. input count rate	4,000 kcps
Graphene Window Thickness	CH: 1 μm CL: 165 nm
Cooling performance @ +20 °C heat sink	ΔT > 95 K
On-chip collimator	multilayer

WINDOW TRANSMISSION



SDD ELECTRONICS

Product

Description

VIAMP-KC/-KL 3.0 VITUS AMPLIFIER



The VIAMP-KC/-KL 3.0 module combines a VITUS SDD (all sizes H7 to H150) and an ultra-low noise preamplifier of the latest generation 3.0 with improved biasing stability. The Aluminum housing functions as an efficient heat sink.

- VIAMP-KC 3.0 for H7 to H50
- VIAMP-KL 3.0 for H80 to H150
- Ramped reset type output signal
- Configurable via FFC interface
- Customized solutions available on request

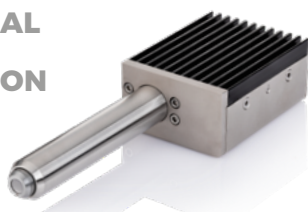
VICO-DV 3.0 COMPLETE DPP ELECTRONICS BOARD



The complement of the VIAMP module is the VICO-DV 3.0, comprising KETEK's new high-performance digital pulse processor DPP3, a temperature controller and all voltage supplies for the SDD. Also an analog version without DPP3 is available.

- KETEK's new DPP3 with peaking times down to 25 ns
- Extremely small dimensions 60 × 32 × 11 mm³
- Ethernet, USB and SPI interfaces
- Comprehensive programming library (VICOLib), acquisition software (VICOScope) and update tool (VICOupdate) available for Windows and Linux

AXAS 3.0 ANALYTICAL X-RAY ACQUISITION SYSTEM



The AXAS 3.0 is KETEK's new all-in-one system for VITUS SDDs in an ultra-compact housing equipped with the latest generation 3.0 preamplifier technology. It is available with all VITUS SDDs from H7 to H50 and different lengths of the vacuum tight finger.

- Very small & complete XRF system: 81 × 61 × 36 mm³
- KETEK's new high-performance digital pulse processor DPP3 with peaking times down to 25 ns
- Ethernet and USB Type-C interface
- Mapping Mode for scanning applications
- Acquisition software (VICOScope) and update tool (VICOupdate) available for Windows and Linux