

RAID-XP

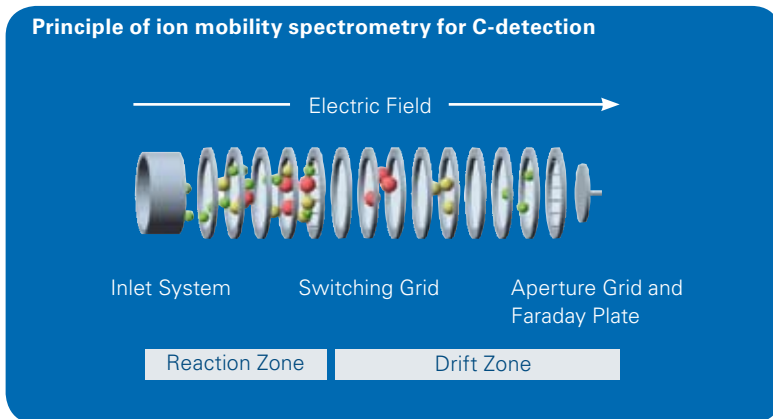
- The Reliable NC Detector

New Dimension in NC Detection

The development of the very latest Bruker detection system stems from recognition that the security situation in recent years has changed considerably. Customers now acknowledge the existence of asymmetric threats and a new capability is required to reflect these changes.

It has been widely reported that there are many radiation sources worldwide that terrorists could use in combination with conventional explosives to produce a „dirty bomb“. Recent intelligence suggests that conventional explosives could also be used in conjunction with Chemical Warfare Agents (CWA's).

In response to these threats Bruker has developed the highly sensitive RAID-XP. The innovative RAID-XP combines chemical and radiological detection into one system. The RAID-XP is extremely flexible and has been developed for military use, which includes the harsh naval environment as well as counter terrorism and civil defence applications. The state-of-the-art RAID-XP is a highly flexible instrument, both in terms of detection capabilities (N+C) and light-weight and portable design. It is based on the principle of ion mobility spectrometry.



GPS enabled NC Detector RAID-XP for handheld and stationary use

Display for C-Detector

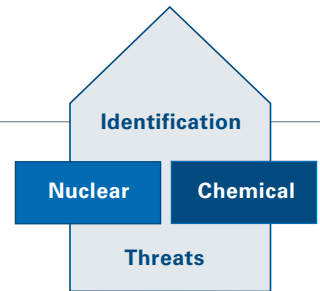
Display for N-Detector

Operator Panel for NC Detection

Connector for
1. Power Supply
2. Data, Interface and GPS System

Battery Container/ Power Supply





Clear and Unambiguous Indification of Nuclear and Chemical Threats

The two display concept provides a clear and unambiguous indication of the NC threat assessment. A warning is given by acoustical and optical alarm. The RAID-XP has an internal memory for the results of the N and C sensors in combination with time and geographic location, which can be provided by a GPS receiver.

The RAID-XP is able to identify, classify, quantify, and continuously monitor concentration levels of CWA's specified.

The identity of substances detected is either indicated by class "G", "H" or "T", or the specific agent or simulant identity is displayed.

For the detection and quantification of gamma radiation the actual gamma dose rate and the accumulated gamma dose are displayed. Warning thresholds can be set by the user for the gamma dose rate and the accumulated gamma dose.



Our product line for chemical, biological, radiological and nuclear detection

Nuclear Radiation Detection	SVG 2 – The new generation of nuclear radiation detectors
	RAID-XP, RAID-AFM (NC version) – Innovative and flexible instruments for NC detection
Biological Warfare Agent Detection	Verotect – Real-time generic biodetector
	ePaTOX – Automated on-site detection of toxins
Chemical Warfare Agent Detection	MALDI Biotyper – Software tool for reliable identification of unknown microorganisms (BWA)
	MM 2 – Mobile Mass Spectrometers for reconnaissance vehicles
	RAID series – Rapid Alarm and Identification Devices
Personal Chemical Agent Detector	RAPID – Stand-off detector for atmospheric pollutants
	µRAID – The compact, flexible and reliable personal detector
Chemical Emergencies & Demilitarisation	E²M – Enhanced Environmental Mass Spectrometer for mobile on-site analysis
	Mobile-IR – Portable FT-IR Spectrometer
	NIGAS – System for non-invasive identification of explosives and CWA

Technical Specifications

Basic Unit

Weight

6,7 kg (without battery)

Size

245 x 165 x 280 mm

Power Supply

External power supply, accumulator/
battery

Low voltage DC power (10-30 V DC
nominal)

Mains power supply: 230 V 50 Hz
(110 V 60 Hz) AC 0,5 - max. 4A

Battery

Lithium MnO₂ battery,
non rechargeable (Weight: 3,3 kg),
Lithium Ion battery, rechargeable
(Weight: 1,4 kg)

Interface

RS232 Interface GPS enabled

Environmental Test

Military hardened

C-Detector (List not exhaustive)

Substances detectable

CWA's: GA, GB, GD, GF, VX, VXR,
HD, HN, L, AC

Test substances: DPM (GSI), MSAL
(HSI); Toxic Industrial Chemicals: CL₂,
Chloride (CLX), Cyanide (CY), SO₂,
Toluoldiisocyanate (TDI)

Detection range

Low ppb up to several
ppm (substance specific)

Temperature range

-20° C ...+ 50°C

Spare parts

No requirement to change con-
sumables when RAID-XP detects
a challenge, any consumables used
are kept to a minimum and have
maximum life. Low-maintenance
concept for the operator

Radiation active source

Ni-63 with 100 MBq activity

γ-Radiation Detector

Measurement ranges of the internal dose rate sensor:

γ-radiation	> 70 keV
γ-dose rate	0.5 μGy/h ... 20 Gy/h
γ-dose	0 – 20 Gy

Adjustable thresholds for dose
and dose rate.



Türkiye Distribütörü



Kızılırmak Mahallesi Ufuk Üniversitesi Caddesi
1445. Sokak No 2 The Paragon Tower Kat17 - D87
Çukurambar 06510 Ankara - Türkiye
T. +90 312 440 68 26 F. +90 312 440 67 23
utilis.com.tr | info@utilis.com.tr

● Bruker Detection

Division of
Bruker Daltonik GmbH

Leipzig · Germany
Phone +49 (341) 2431-30
Fax +49 (341) 2431-404
sales@bdal.de

www.bruker.com/cbrne

Bruker Detection

Division of
Bruker Daltonics Ltd.

Coventry · United Kingdom
Phone +44 (2476) 855-200
Fax +44 (2476) 465-317
sales@daltonics.bruker.co.uk

Bruker Detection Corp.

Billerica, MA · USA
Phone +1 (978) 663-3660
Fax +1 (978) 667-5993
ms-sales@bdal.com