

# DOSE CALIBRATORS

FOR NUCLEAR MEDICINE AND PET CYCLOTRON



CE  
0344

QUALITY | SPEED | PRECISION



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***We are one of the  
leading manufacturers of dose  
calibrators.***

*We deal directly with the initial design,  
mechanics, electronics and software  
development and therefore we can  
provide a wide range of unique products  
for nuclear medicine laboratories,  
radiochemistry, radiopharmacy and  
calibration facilities.*





## VDC-606 Touch Screen Dose Calibrator

- 10" touch screen medical certified PC
- Easy to use
- IBC-LITE software included
- Accurate and fast measurements
- FDA approved and Medical Device
- Available for vials and syringes
- VIK-202 or VIK-203 ionisation chamber

VDC-606 combines the best of both worlds: it has the versatile functionality of a software based dose calibrator and it is as robust as a stand-alone dose calibrator.

The device has an ergonomic and intuitive touch-based user interface and is optimised to support the work flow of the user.

Performing the quality controls is very easy and intuitive and the user is completely guided through the process.

With IBC-LITE software, the VDC-606 can perform the radionuclidic purity test of the radiopharmaceutical: the system takes a series of automatic measurements in a defined range of time (user definable) and it is able to determine radiopharmaceutical half-life and impurity percentage. The results are stored and it is possible to produce a report.



## IBC Dose Calibrator with a reading software

- Quality control tests for the ionisation chamber
- Simultaneous control of two ionization chambers
- Interface with IBC management software
- FDA approved and Medical Device
- Radionuclide purity test of the radiopharmaceutical
- VIK-202 or VIK-203 ionisation chamber

The IBC Dose Calibrator is a completely digital dose calibrator managed by IBC-LITE software: it offers a simple and user-friendly interface that supports all functions required for dose calibration when preparing radiopharmaceuticals.

The ionisation chamber is connected directly to a PC with Windows (not supplied).

IBC-LITE is compatible with all Comecer management software for Nuclear Medicine and Radiopharmacy: IBC Clinic, IBC NM, IBC RP.

The IBC dose calibrator is suitable for use in Nuclear Medicine and Radiopharmacy: it can be easily integrated into any type of Microbiological Safety Cabinet, into dispensing hot cells and shielded isolators.



## DOSE CALIBRATORS | Ionisation chambers

The heart of every Comecer dose calibrator is the ionisation chamber: a completely digital detector that gives a fast, reliable reading.

The VIK-202 ionisation chamber is pressurised at 14 bar (absolute) of Argon and its measurement range is up to 2 Ci (74 GBq) of F-18; the VIK-203 ionisation chamber is also available, pressurised at 1.4 bar (absolute) of Argon, for a measurement range of up to 20 Ci (740 GBq) of F-18.

As Comecer produces its own ionisation chambers in-house, we can evaluate dimensions or measurement features dedicated to individual needs.

Technical data - Ionisation chambers	VIK-202	VIK-203
Ionisation chamber	Pressurised (14 bar abs. Argon)	Pressurised (1.4 bar abs. Argon)
Ionisation voltage	150 V lithium battery	
Well size	69 mm Ø x 280 mm	
Well liner (inside)	57 mm Ø x 270 mm	
Saturation	>200 GBq (Tc-99m), >70 GBq (F-18) >6 Ci (Tc-99m), >2 Ci (F-18)	>2000 GBq (Tc-99m), >700 GBq (F-18) >60 Ci (Tc-99m), >20 Ci (F-18)
Energy range	25 keV - 3 MeV	
Lead shielding	3 mm Pb	
Linearity	± 1 % between 1 MBq and 200 GBq (Tc-99m)	± 1 % between 50 MBq and 2000 GBq (Tc-99m)
Electrometer accuracy	± 1 %	
HV test accuracy	± 5 %	
Temperature coefficient	0,1%/°C between 10°C and 40°C at 5 MBq and up	
Reproducibility	± 1% over 24 hours, stable conditions	
Overall accuracy	± 3 % dependant of specific calibration source and geometric variations	
Response time	Maximum 2 seconds for 95% of the end value	
Power supply	5 VDC, 250 mA	
Cable	2,5 meters	
Dimensions	150 mm Ø (bottom 160 mm) x 451 mm height	
Weight	15,5 kg	

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