



RÖMATEC

Service-Zentrum und Handelsgesellschaft
für Röntgentechnik in Industrie und Forschung

NDT160DFM

*Constant Potential X-Ray Set
160 kV/10 mA, mobile*



**LIGHT
COMPACT
MOBILE
RELIABLE**

NDT160DFM

Technical Data



High voltage

HV adjustment range:	10 – 160 kV
HV Adjustment increments:	0,1 kV/step
Accuracy:	± 1 % (demand value)
Reproducibility:	better ± 0,1 %
HV ripple (with 20 m cable):	5 V/mA, min. 20 V
Temperature induced drift:	< 50 ppm/°C

Tube current

Adjustment range:	0 – 10 mA
Adjustment increments:	0,1 mA/step
Tube current stability:	± 0,1 % (demand value)

Exposure timer

Runtime:	max. 99 minutes
Input:	via keyboard/menu
Display:	via display (LED)

Programmed operation:

Memory capacity:	99
Programming:	via keyboard
Tube conditioning:	5 programmes
Interface(s):	2 x RS232

Pre-warning time:

Continuously adjustable from 0 to 99 seconds, tunable in 1-second-steps via menu navigation and keyboard.

Environmental condition (Protection class IP44):

Duty cycle:	< 1000 W – unlimited > 1000 W – max. 30 min.
Operating temperature:	0 to 40°C
Storage temperature:	-25 to +70°C, relative humidity 80 %, non-convective air

Focal spot selection:

Focal spot selection takes place at the push of a button on the keyboard (2 symbols existing). Switching over only is possible while HV is turned off.

Safety provisions

Two independent monitored safety circuits (fail-safe, 24 V). Continuous monitoring with automated shut-down and real text failure indication on display. Automatic discharging device at shut-down. Fail-safe monitoring of an external warning lamp and an additional warning lamp in the remote control (option). External warning lamp is based on LED technology. Two additional potential-free contacts for start-up interlock. Additional emergency stop buttons can be connected.

Mains supply:

230 VAC, 16 A, +6 %, -10 %, Protection 16 A at 1,6 kW

Mechanical data:

Dimensions (H x D x W):	1400 x 870 x 610 mm
Weight (with 20 m HV cable):	170 kg



Data subject to change without notice!

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