GNR OPTICA

ANALYTICAL INSTRUMENTS GROUP

EXPLORER



MULTI-PURPOSE AND HIGH RESOLUTION X-RAY DIFFRACTOMETER

www.gnr.it

Configurations	Vertical Theta/Theta geometry
Measuring circle diameters	from 400 to 600 mm
Angular range	- 110° < 2 theta < + 168° (depends on accessories)
Angle positioning	Direct drive torque motors with optical encoders
Smallest selectable stepsize	0.0001°
Angular accuracy	Better than ± 0.01° over the whole 2-Theta range
X-ray generator	3 kW (option 4 kW)
Max. output voltage	60 kV
Max. output current	60 mA (option 80 mA)
Voltage step width	0.1 kV
Current step width	0.1 mA
X-ray tube	Glass (option ceramic), Cu anode (option: Co, Fe, Cr, Mo, W, Ag)
Focus	0.4x12 mm LFF (Long Fine Focus) (options: 0.4x8 mm FF; 1x10 mm NF)
Detectors	Scintillation counter Dectris 1D multi strip detectors Silicon Drift Detectors (SDDs)
External dimensions	Width 1427 mm, height 1976 mm, depth 1080 mm
Weight	605 Kg
Water cooling supply (without optional water chiller)	Min. flow rate: 4l/min – Pressure 4 bar to 6 bar
Maximum power consumption (including water chiller)	10 kVA



