

X-RAY DIFFRACTOMETER CODE XRD-DP220

- Applied in pharmaceuticals, batteries, semiconductors, geological and mineral resources, building materials, and food
- Determining crystal structure and crystallographic parameters via X-ray diffraction (XRD) pattern analysis
- Equipped with a touch panel that displays the instrument's current status in real time, offering an intuitive interface to simplify the operation process
- Built-in water circulation cooling system, no need to add an extra chiller
- Built-in 400,000-entry database for efficient phase identification and analysis
- Intelligently reads XRD diffraction data in over 30 formats



XRD-DP220

SPECIFICATION

Goniometer	structure	θ/θ linkage-type goniometer
	diffraction circle radius	150mm
	2 θ angle range	-3°~152°
	2 θ angle indication error	$\leq \pm 0.02^\circ$
	2 θ angle repeatability	$< 0.002^\circ$
	2 θ angular resolution	full width at half maximum (FWHM) $< 0.05^\circ$
	scanning speed	0.01~120°/min
1D array detector	sub-detector	no less than 640
	effective area	32mm×8mm
	maximum linear count rate	6.4×10^6 cps (noise-free)
X-ray tube	maximum output power	2.2kW
	focal spot	elongated focal spot: 12 mm×0.4 mm, point focal spot: 1.2 mm×0.4 mm
	target	Cu
	maximum tube voltage	40kV
	maximum tube current	30mA
Optical path		automatic divergence slit
		anti-scatter device
Heat dissipation method		built-in circulating cooling water system
Sample stage		fixed sample stage (for reflection measurements without sample rotation)
Power supply		AC220V, 50Hz
Dimensions (L×W×H)		880mm×705mm×735mm
Net weight		180kg

STANDARD DELIVERY

Main unit	1pc
Computer	1pc
Mortar	1pc
Bulk sample holder	2pcs
Powder sample holder	1pc

OPTIONAL ACCESSORY

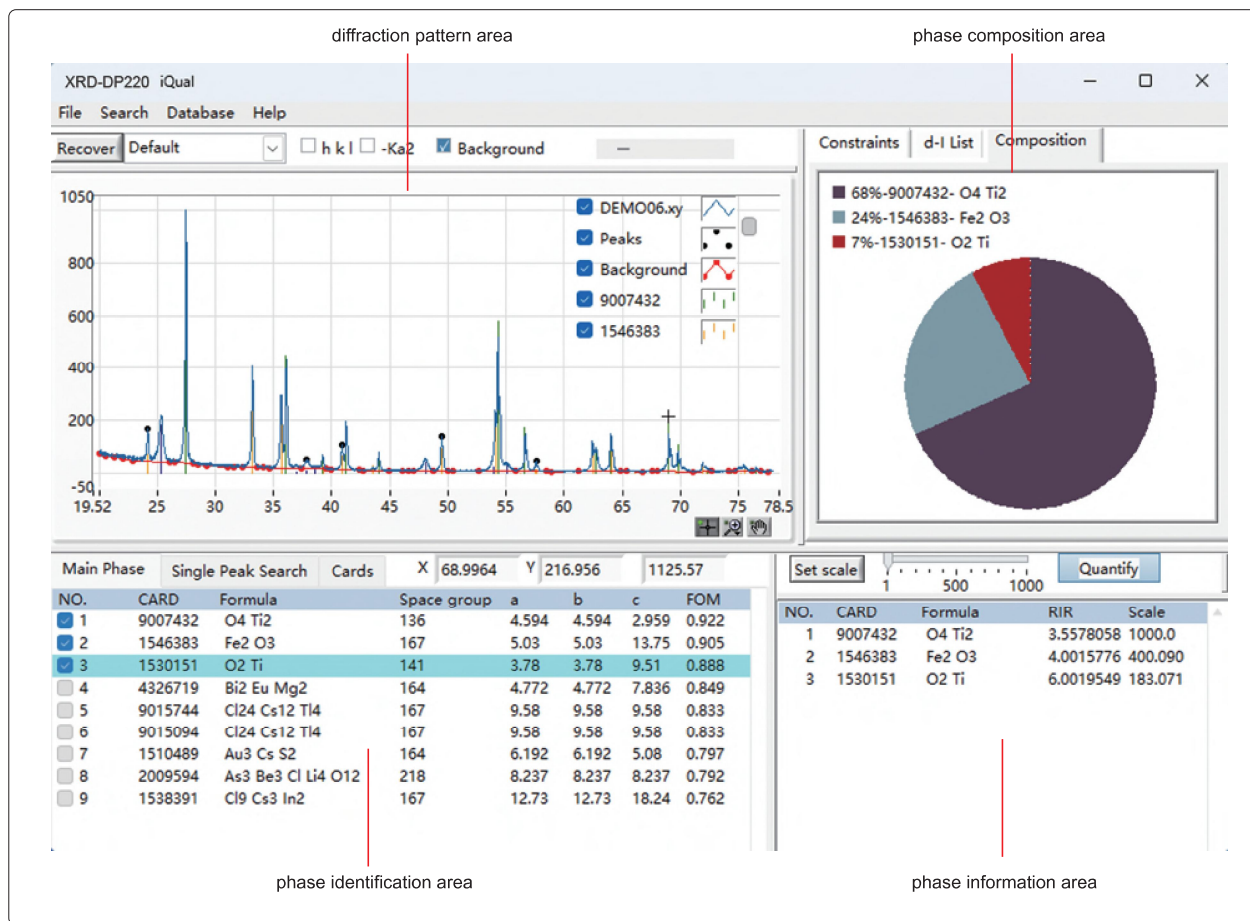
Multifunctional rotating sample stage	XRD-DP220-DGN
8-position rotating sample stage	XRD-DP220-EPR
Thin-film sample stage	XRD-DP220-TFS
Temperature in-situ sample stage	XRD-DP220-TYW
Pouch cell sample stage	XRD-DP220-RBD
Capillary sample stage	XRD-DP220-CSS



multifunctional rotating sample stage (optional)



8-position rotating sample stage (optional)



operating software(included)