



EXPLORER 8000 mining analyzer

Analytical method	Energy dispersive X-ray fluorescence spectrometry
Elements to be measured	16 to 92 [sulfur (S) to uranium (U)]
Simultaneous detection of elements	30
Microcomputer system	Customized industrial microcomputer system; large memory, massive data storage.
Content range	ppm ~ 99.99%
Detection time	1 to 60 seconds (test results and grades are shown in one second).
Built-in system	GPS, Wi-Fi, Bluetooth, 4G
Power	Standard 9,000mAh rechargeable lithium battery for 12 hours of continuous operation; 27,000 mAh large battery optional. A universal 110V ~ 220V adapter for AC power supply.
Form of test object	Solid, Liquid, Powder
Detector	New Si-PIN detector
Detector resolution	up to 145eV
Excitation source	50KV/200uA-silver target end window micro X-ray tube and HV power supply.
Collimator and filter	4.0mm and 2.0mm collimators working together with 6 filters for different combinations.
Video system	8 megapixel high definition camera.
Display	New 5-inch LCD touch screen with a resolution of 1080 x 720.
Detection limit	Lowest detection limit up to ppm level.
Safety	Multiple safety protection; no test, no radiation; the radiation level at work is much lower than that of the international standard; the X-ray tube will be turned off automatically if no sample is detected.
Professional	Mining-specific software with intelligent one-button test.
Convenient application	No need to select curve; smart curve matching in one-button test.
Smart tri-color warning system	Green light is on when the instrument is powered on, red light flashes when a test is underway and yellow light flashes when fault occurs.
Ambient humidity	≤90%
Ambient temperature	-20°C ~ +50°C
Instrument dimensions	244mm (length) x 90mm (width) x 330mm (height)
Data transmission	Digital multi-channel technology, SPI data transmission, fast analysis, high count rate, mini USB, and connectivity to desktop computer.
Accessories	Military boxes with pressure-, water- and shock-proofness. Universal charger and car charger, 4G SD memory card and card reader, two lithium batteries and charger, PDA accessories, radiation shield cover. Optional accessories: super large battery, test stand, Bluetooth printer, pulverizer, manual press, various mesh screens, etc.