

# Compare XRF Analyzer Brands

	Olympus	Olympus	Olympus	Bruker	Bruker	Bruker	Bruker	Bruker	Bruker	Bruker	Bruker	Bruker	Bruker	Niton	Niton	Niton	Niton	Niton	Oxford	Oxford	Oxford	Spectro		
	DELTA Premium	DELTA Professional	DELTA Classic Plus	S1 Sorter	S1 Titan LE	S1 Titan SE	S1 Titan SP	S1 Turbo SD	S1 Turbo SD LE	S1 Turbo SDR	Tracer III-V	Tracer III-SD	Tracer IV-SD	Tracer IV-GEO	XL2 GOLDD	XL2	XL3p	XL3t GOLDD+	XL3t	X-MET7000 Quicksort	X-MET7000 eXpress	X-MET7500	xSORT XHH03	
<b>Weight (without battery)</b>	3.25 lbs	3.25 lbs	3.25 lbs	3.9 lbs	2.71 lbs	2.71 lbs	2.71 lbs	3.9 lbs	3.9 lbs	3.9 lbs	3.9 lbs	3.9 lbs			3.36 lbs	3.36 lbs	2.5 lbs	3.0 lbs	3.0 lbs	3.97 lbs	3.97 lbs	3.97 lbs	3.62 lbs	
<b>Dimensions</b>	10.25 x 3.5 x 9.5 in	10.25 x 3.5 x 9.5 in	10.25 x 3.5 x 9.5 in	11.8 x 3.9 x 11 in	9.8 x 11 x 3.5 in	9.8 x 11 x 3.5 in	9.8 x 11 x 3.5 in	11.8 x 3.9 x 11 in	11.8 x 3.9 x 11 in	11.8 x 3.9 x 11 in	11.8 x 3.9 x 11 in	11.8 x 3.9 x 11 in			10.25 x 11 x 4 in	10.25 x 11 x 4 in	9.60 x 9.05 x 3.75 in	9.60 x 9.05 x 3.75 in	9.60 x 9.05 x 3.75 in	10.6 x 11 x 3.5 in	10.6 x 11 x 3.5 in	10.6 x 11 x 3.5 in	3.7 x 10.7 x 9.1 in	
<b>Source</b>	4W Rh, Au, or Ta target X-ray tube	4W Ag, Rh, or Ta target X-ray tube	4W Au or Ta target X-ray tube	Ag target X-ray tube; Max: 40 kV	4W Rh target X-ray tube. Max: 50kV, 100µA	4W Rh target X-ray tube. Max: 50kV, 100µA	4W Rh target X-ray tube. Max: 45kV, 100µA	Ag target X-ray tube; Max: 40 kV	Ag target X-ray tube; Max: 40 kV	Rh target X-ray tube. Max: 45 kV	Rh target X-ray tube; Max: 40 kV	Rh target X-ray tube; Max: 40 kV	Rh target X-ray tube	Rh target X-ray tube	Ag target X-ray tube; Max: 45 kV, 100 uA	Ag target X-ray tube; Max: 45 kV, 80 uA	30 mCi sealed 241Am Infiton radioisotope source	Ag target X-ray tube; (6-50 kV, 0-200 µA max)	Ag target with optional light element analysis package	Rh target X-ray tube; Max: 40kV	Rh target X-ray tube; Max: 40kV	Rh target X-ray tube; Max: 45kV	Rh target X-ray tube; Max: 50kV	
<b>Detector</b>	Large-Area SDD	SDD	Si-PIN Detector	SiPIN diode	10mm2 X-Flash* SDD; Typical resolution: 147eV	10mm2 X-Flash* SDD; Typical resolution: 147eV	SiPIN diode; Typical resolution: 195ev	10 mm2 X-Flash* SDD peltier cooled; Typical resolution: 145 eV at 100,000 cps	10 mm2 X-Flash* SDD peltier cooled; Typical resolution: 145 eV at 100,000 cps	10 mm2 X-Flash Detector; Typical resolution: 145 eV at 200,000cps	SiPIN, 195 eV @10,000 cps	SDD, 145 ev @ 100,000 cps	SDD, 145 ev @ 100,000 cps	Large Area SDD, 150 ev @ 100,000 cps	Geometrically Optimized Large Area Drift Detector (GOLDD)	High-performance semiconductor	High-performance SiPIN diode	Geometrically Optimized Large Area Drift Detector (GOLDD); 180,000 throughput cps Resolution: < 185 eV @ 60,000 cps	High-performance semiconductor	SiPIN diode	SDD	SDD	High resolution SDD	
<b>Elemental Range</b>	Alloy and Mining: Mg and up for Rh/Ag, Al and up for Ta/Au; Soil: P and higher	Alloy and Mining: Mg and up for Rh/Ag, Al and up for Ta/Au; Soil: P and higher	Alloy and Mining: Ti and higher; Soil: P and higher		Mg - U	Ca - U	Ca - U	31 elements		36 elements including Mg, Al, and Si				Mg - U	Mg - U			Up to 30 elements from Mg to U (varies by application), Optional: Ultra-low light element detection via He purge	Over 25 elements from S to U (varies by application), Optional: Mg, Al, Si, and P via He purge	K - U	K - U	Mg - U		
<b>Power</b>	Rechargeable Li-ion battery; Hot-swap maintains analyzer power during battery change	Rechargeable Li-ion battery; Hot-swap maintains analyzer power during battery change	Rechargeable Li-ion battery; Hot-swap maintains analyzer power during battery change	Li-Ion battery (7.2V nominal); AC Adapter (9V DC @ 3A)	Li-Ion battery (7.2V nominal); AC Adapter (9V DC @ 3A)	Li-Ion battery (7.2V nominal); AC Adapter (9V DC @ 3A)	Li-Ion battery (7.2V nominal); Battery Charger; AC Adapter (9V DC @ 3A)	Li-Ion battery; 6 hour operating time; AC adapter is optional	Li-Ion battery; 6 hour operating time; AC adapter is optional				Li-Ion battery		6-cell lithium-ion battery pack, 110/220 VAC battery charger/AC adaptor	6-cell lithium-ion battery pack, 110/220 VAC battery charger/AC adaptor	4-cell lithium-ion battery pack	4-cell lithium-ion battery pack		4 (or optional 6) cell lithium-ion battery pack				
<b>Display</b>	32 bit Color QVGA resolution, Blanview transmissive backlit touch-screen; 57 x 73 mm (2.25 x 2.9 in.)	32 bit Color QVGA resolution, Blanview transmissive backlit touch-screen; 57 x 73 mm (2.25 x 2.9 in.)	32 bit Color QVGA resolution, Blanview transmissive backlit touch-screen; 57 x 73 mm (2.25 x 2.9 in.)	240 x 320; 65,536 colors; back lit; touch-screen	Integrated color display; 640 x 400 pixels; 256,000 colors; back lit; touch-screen	Integrated color display; 640 x 400 pixels; 256,000 colors; back lit; touch-screen	Integrated color display; 640 x 400 pixels; 256,000 colors; back lit; touch-screen	240x320; 65,536 colors; back lit; touch-screen	240x320; 65,536 colors; back lit; touch-screen	240x320; 65,536 colors; back lit; touch-screen					Fixed angle, color, touch-screen	Fixed angle, color, touch-screen	Adjustable angle VIP color touch-screen	Tilting, color, touch-screen	Tilting, color, touch-screen	4.3" touch screen	4.3" touch screen	4.3" touch screen		
<b>Data Transfer</b>	USB, Bluetooth	USB, Bluetooth	USB, Bluetooth	USB, Bluetooth, Memory Card	USB cable, USB flashdrive	USB cable, USB flashdrive	USB cable, USB flashdrive	USB, Bluetooth, Memory card	USB, Bluetooth, Memory card				USB, Bluetooth, WIFI	USB, Bluetooth, WIFI	USB, Bluetooth, RS-232 serial communication	USB, Bluetooth, RS-232 serial communication	USB, Bluetooth, RS-232 serial communication	USB, Bluetooth, RS-232 serial communication	USB, Bluetooth, RS-232 serial communication	USB, Bluetooth, WIFI	USB, Bluetooth, WIFI	USB, Bluetooth, WIFI	USB Host/Client, Bluetooth, Wireless LAN	
<b>Data Storage Environmental Range</b>	1 GB microSD (stores ~75,000 readings)	1 GB microSD (stores ~75,000 readings)	1 GB microSD (stores ~75,000 readings)	256 MB standard PDA memory, 512 MB Memory Card stores thousands of spectra and millions of results; larger memory cards available	Internal memory: 8,000 readings with spectra, USB flashdrive: 80,000 readings with spectra	Internal memory: 8,000 readings with spectra, USB flashdrive: 80,000 readings with spectra	Internal memory: 8,000 readings with spectra, USB flashdrive: 80,000 readings with spectra	512MB Memory Card stores thousands of spectra and millions of results; larger memory cards available	512MB Memory Card stores thousands of spectra and millions of results; larger memory cards available					512MB Memory Card stores thousands of spectra and millions of results; larger memory cards available	Internal >10,000 readings with spectra	Internal >10,000 readings with spectra	Internal >10,000 readings with spectra	Internal >10,000 readings with spectra	Internal >10,000 readings with spectra	Up to 100,000 results with spectra	Up to 100,000 results with spectra	Up to 100,000 results with spectra		
<b>Filter</b>	-10°C to 50°C	-10°C to 50°C	-10°C to 50°C	-10°C to 50°C				-10°C to 50°C	-10°C to 50°C	-10°C to 50°C														
<b>Operating SW</b>	7 position automatic filter changer	7 position automatic filter changer	7 position automatic filter changer	Single Position	5 position automatic filter changer	5 position automatic filter changer	5 position automatic filter changer	5 position automatic filter changer	5 position automatic filter changer	5 position automatic filter changer	5 position automatic filter changer	5 position automatic filter changer	5 position automatic filter changer	5 position automatic filter changer	5 position automatic filter changer	5 position automatic filter changer	5 position automatic filter changer	5 position automatic filter changer	5 position automatic filter changer	5 position automatic filter changer	5 position automatic filter changer	5 position automatic filter changer	5 position automatic filter changer	
<b>Security</b>	Microsoft® Windows Mobile™ 6.0	Microsoft® Windows Mobile™ 6.0	Microsoft® Windows Mobile™ 6.0	Microsoft® Windows Mobile™ 5.0 for Pocket PC Bruker Elemental proprietary software	Windows® XP or Windows® 7 Microsoft® Excel or Bruker proprietary software for report generation and spectrum viewing	Windows® XP or Windows® 7 Microsoft® Excel or Bruker proprietary software for report generation and spectrum viewing	Windows® XP or Windows® 7 Microsoft® Excel or Bruker proprietary software for report generation and spectrum viewing	Microsoft® Windows Mobile® 5.0 for Pocket PC. Bruker Elemental S1 proprietary software															Microsoft® Windows Mobile™ 6.0	
<b>Hot Surface</b>	Password protection, Proximity shutoff to 95°C with Prolene window	Password protection, Proximity shutoff to 95°C with Prolene window	Password protection, Proximity shutoff to 400°C with Kapton window	Password protected, No sample (backscatter) shutoff	Password protection, No sample (backscatter) shutoff, IR proximity sensor	Password protection, No sample (backscatter) shutoff, IR proximity sensor	Password protection, No sample (backscatter) shutoff, IR proximity sensor	Password protection, No sample (backscatter) shutoff, IR proximity sensor	Password protection, No sample (backscatter) shutoff, IR proximity sensor	Password protection, No sample (backscatter) shutoff, IR proximity sensor	Password protection, No sample (backscatter) shutoff, IR proximity sensor	Password protection, No sample (backscatter) shutoff, IR proximity sensor	Password protection, No sample (backscatter) shutoff, IR proximity sensor	Password-protected user security	Password-protected user security	Password-protected user security	Password-protected user security	Password-protected user security	Password-protected user security					
<b>Languages support</b>	to 150°C	to 150°C	to 500°C	to 500°C	to 150°C	to 500°C	to 500°C	to 150°C	to 150°C	to 150°C	to 150°C	to 150°C	to 150°C							to 315 °C	to 315 °C	to 400°C	to 400°C	
<b>Certification Compliance</b>	English, Chinese, Korean, Japanese, Russian, German, Italian, French, Dutch, Polish, Spanish, Portuguese	English, Czech, French, German, Japanese, Chinese, Russian, Spanish	English, Czech, French, German, Japanese, Chinese, Russian, Spanish	English, Chinese, Korean, Japanese, Thai, Indonesian, Russian, German, Italian, French, Dutch, Polish, Spanish, Portuguese	English, Chinese, Korean, Japanese, Thai, Indonesian, Russian, German, Italian, French, Dutch, Polish, Spanish, Portuguese	English, Chinese, Korean, Japanese, Thai, Indonesian, Russian, German, Italian, French, Dutch, Polish, Spanish, Portuguese	English, Chinese, Korean, Japanese, Thai, Indonesian, Russian, German, Italian, French, Dutch, Polish, Spanish, Portuguese	English, Chinese, Korean, Japanese, Thai, Indonesian, Russian, German, Italian, French, Dutch, Polish, Spanish, Portuguese	English, Chinese, Korean, Japanese, Thai, Indonesian, Russian, German, Italian, French, Dutch, Polish, Spanish, Portuguese	English, Chinese, Korean, Japanese, Thai, Indonesian, Russian, German, Italian, French, Dutch, Polish, Spanish, Portuguese	English, Chinese, Korean, Japanese, Thai, Indonesian, Russian, German, Italian, French, Dutch, Polish, Spanish, Portuguese	English, Chinese, Korean, Japanese, Thai, Indonesian, Russian, German, Italian, French, Dutch, Polish, Spanish, Portuguese	English, Chinese, Korean, Japanese, Thai, Indonesian, Russian, German, Italian, French, Dutch, Polish, Spanish, Portuguese	English, Chinese, Korean, Japanese, Thai, Indonesian, Russian, German, Italian, French, Dutch, Polish, Spanish, Portuguese										
<b>Certification Compliance</b>	CE, cTUVus, IEC 61010-1:2002 by TÜV SÜD	CE, cTUVus, IEC 61010-1:2002 by TÜV SÜD	CE, cTUVus, IEC 61010-1:2002 by TÜV SÜD	CE, cTUVus, IEC 61010-1:2002 by TÜV SÜD	CE, cTUVus, IEC 61010-1:2002 by TÜV SÜD	CE, cTUVus, IEC 61010-1:2002 by TÜV SÜD	CE, cTUVus, IEC 61010-1:2002 by TÜV SÜD	CE, cTUVus, IEC 61010-1:2002 by TÜV SÜD	CE, cTUVus, IEC 61010-1:2002 by TÜV SÜD	CE, cTUVus, IEC 61010-1:2002 by TÜV SÜD	CE, cTUVus, IEC 61010-1:2002 by TÜV SÜD	CE, cTUVus, IEC 61010-1:2002 by TÜV SÜD	CE, cTUVus, IEC 61010-1:2002 by TÜV SÜD	Varies by region. Contact your local distributor.	Varies by region. Contact your local distributor.	Varies by region. Contact your local distributor.	Varies by region. Contact your local distributor.	Varies by region. Contact your local distributor.	Varies by region. Contact your local distributor.	CE, RoHS	CE, RoHS	CE, RoHS	CE, RoHS	



(http://www.911metallurgist.com/blog/)

Real-time Sync 0

(http://www.spreadsheetsconverter.com/excel-html-web.htm)