

## COMPARISON OF STANDARD IMAGING ELECTROMETERS

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Specifications	MAX 4000	Premier 3000	CDX 2000B	PTW Unidos	Keithley 35040
<b>Applications</b>	LDR Brachytherapy HDR Brachytherapy External Beam Therapy Diagnostic & Mammo	LDR Brachytherapy External Beam Therapy Diagnostic & Mammo	HDR Brachytherapy Some LDR Brachytherapy External Beam Therapy Diagnostic & Mammo	LDR Brachytherapy HDR Brachytherapy External Beam Therapy Diagnostic & Mammo	LDR Brachytherapy HDR Brachytherapy External Beam Therapy Diagnostic & Mammo
<b>Programmable Electrometer</b>	Non-Programmable	Non-Programmable	Non-Programmable	Programmable	Programmable
<b>Display</b>	2 line x 20 character	2 line x 20 character	2 line x 20 character	4 line x 20 character	4 line x 20 character
<b>Measuring units</b>	Electrical units, A.C.	Electrical units, A.C.	Electrical units, A.C.	Electrical Units,A, C, Radiological Units	Electrical Units,A, C, Radiological Units
<b>Charge Range</b>	0.00001 to 999,999nC	0.0001 to 999,999nC	0.01 to 999,999nC	0.001 to 55,000nC	0.00001 to 2,400nC
<b>Resolution</b>	0.00001nC – 1nC	0.0001nC – 1nC	0.01 - 1nC	0.0001nC to 0.05nC	0.00001nC to 1nC
<b>Rate Range</b>	0.000001 to 195.00nA	0.00001 to 19.500nA	0.01 to 199.99nA	0.0001 to 1000nA	0.0001 to 100.0nA
<b>Resolution</b>	0.000001nA to 0.001nA	0.00001nA to 0.001nA	0.01nA	0.000001nA – 0.005nA	0.0001nA to 0.1nA
<b>Timing Feature</b>	0-600 seconds	0-600 seconds	0-600 seconds	6-9,999 seconds	0-3,540 seconds
<b>Interval</b>	15 seconds	15 seconds	15 seconds	60 second interval	60 second interval
<b>Linearity</b>	<0.06% up to 195nA	0.06%, 2pA to 19nA, typical	0.06%, 1nA to 200nA, typical	+/- 0.5%	<0.05% up to 100nS
<b>Long Term Stability</b>	± 0.2% per 2 years	± 0.2% per 2 years	± 0.2% per 2 years	+/-0.5% per year	+/-0.1% per 5 years
<b>Repeatability/Measurement Accuracy</b>	±0.1% + 1 count	±0.1% + 1 count	±0.1% + 1 count	<0.5% + 1 count	0.2% +2 counts
<b>Leakage</b>	<5fA	<5fA	<5fA	<1 fA	<10 fA
<b>Power</b>	Power supply 110/220	Power supply 110/220	Power supply 110/220	Power supply 110/220	Power supply 110/220
<b>Rechargeable Battery</b>	Yes	Yes	Yes	Yes	Yes
<b>Low Battery Indicator</b>	Yes	Yes	Yes		Yes
<b>Battery Life</b>	10 hours	10 hours	10 hours	7-9 hours	8 hours
<b>Warm up Time</b>	15 minutes	15 minutes	15 minutes	15 minutes	5 minutes
<b>Auto-Zeroing</b>	Yes	Yes	Yes	Yes	Yes
<b>Output Capabilities</b>	Bi-directional RS-232	Uni-directional RS-232	Uni-directional RS-232	Bi-directional RS-232	Bi-directional RS-232
<b>Weight</b>	3 lbs. (1.4kg)	3 lbs. (1.4kg)	3 lbs. (1.4kg)	?	?
<b>Warranty</b>	One Year	One Year	One Year	One Year	Five years
<b>Regulatory Compliance</b>	CE Mark		CE Mark	Reference grade	Reference grade