

64. APPENDIX P: TEST EQUIPMENT

TABLE P:1 FOR MAMMOGRAPHY X-RAY EQUIPMENT:

Instrument	Features	Precision	Accuracy	Calibration
kV meter	Suitable mammo	±0.1 kV	1.0 kV	Biennially
Ion chamber or ss detector/ dosemeter	Suitable mammo			Biennially
Exposure timer	Suitable mammo			
Aluminium sheets (HVL measurement)	99.5% purity or Type1100 +correction	±0.01 mm thick		
10 microns slit camera	NEMA spec			
High contract resolution pattern	16lp. mm ⁻¹ ; 20 preferred			
Focal spot measurement jig	? made in-house			
Magnifier + graticule (measuring focal spot films)	0.2 mm div. x 10 mag			
Perspex blocks (for AEC tests).	10 or 20 mm blocks; total 80 mm thick	± 1 mm		
Spot densitometer	Range ≥ 3.0 OD	±0.01 OD (0-3 OD)	±0.02 OD (0-3 OD)	Annually*
Image quality phantom/test object	As per RANZCR			Must be available on site
Mammography film illuminator	> 3000 cd.m ⁻²			Must be available on site
Personal computer system for analysis and reporting				
Light meter	Range >3500 cd.m ²			
Stereotactic localisation test object				

* By measurement of a calibration film.

TABLE P:2 FOR TESTING MAMMOGRAPHY ULTRASOUND SCANNERS:

Instrument	Features	Calibration
Ultrasound test object		