Description	Mako	Raysafe X2
Efficiency / General		
Modern technology	Released 2024	Released 2013
Integrated Bluetooth as Standard	✔	✖
Bluetooth integrated into Hardware	✔	No, requires dongle
1-click automated reporting	✔	✖
Quoted battery life	20 hours	10 hours
Measures kV, dose, dose rate, HVL, Total Filtration, Exposure time	✔	✔
Interchangeable display device	✔	✖
Fully wireless capability	✔	✖
Invasive mAs option	✔	✔
Non-invasive mAs option	✔	✖
CT ion chamber option	✔	✔
DAP (dose area product) option	✔	✖
CT Dose Profiler option	✔	✖
Accuracy		
Measures in Radiography	✔	✔
Measures in Fluoroscopy	✔	✔
Uncertainty statement R/F	+/- 1.5%	+/- 2%
Widest kV range in Rad/Fluoro	35- 155 kVp	40-150 kVp
Smallest detector width	0.9 mm	4 mm
Smallest detector length	0.9 mm	7 mm
Widest aperture angle for dose measurements	30°	10° in at least one orientation
Widest aperture angle for kV measurements	15°	10°
Measures without affecting AEC	✔	✔
Measures in Mammography	✔	✔
kV uncertainty statement Mammography	+/- 1.5%	+/- 2%
Mammo Probe/Sensor covers entire clinical range 18-49 kV	✔	✖ (limited to 40 kV)
Orientation independent	✔	✔
Measures in CT	✔	✔
Measures in Dental	✔	✔
kV uncertainty statement in Dental	+/- 1.5%	+/- 2%
Software can guide positioning of probe without Gafchromic film needed	✔	✖
Can measure down to 1mm beam width in panoramic dental applications	✔	✖ (sensor is 4mm wide)
Software		
1 click automated reporting	✔	✖
Templates to automate analysis directly with X-ray exposure	✔	✖ Requires customized Excel
Integrated database in SW	✔	✖
Ability to schedule testing and PM (preventative maintenance) within the software	✔	✖
Ability to log system and equipment info with measurements and templates	✔	✖
Share pre-defined automated routines (templates)	✔	✖
Export to Excel function	✔	✔
Cloud		
Cloud solutions	✔	✖
Automatic database backup to cloud (option)	✔	✖
Automated calibration reminders in the software	✔	✖
Automatic log and tracking of meters used with software	✔	✖
Solutions		
Free online training as standard	✔	✖
Warranty (up to)	10 year	8 year
Recommended calibration cycle	2 year	1 year
10-day turnaround guarantee as standard	✔	✖