

Phantom XY System + Phantom Cloud

Digital Quality Assurance for dental radiographic equipment

Designed and manufactured in Canada

The Phantom XY System is a precision digital quality assurance (DQA) test phantom paired with the Phantom Cloud analysis platform. A single Universal Puck, used with intraoral and panoramic sensor holders, produces standardized test exposures on both intraoral and panoramic digital radiographic units. Each exposure is analyzed automatically to return an objective pass/fail determination, a numerical Q-Score, and trend data, all retained for documentation under Health Canada Safety Code 30 and RCDSO.

HARDWARE: PHANTOM XY SYSTEM

Type	Precision digital QA test phantom
Imaging modes	Panoramic and Intraoral
Core component	Universal Puck (single test piece)
Holders included	1 intraoral + 1 panoramic sensor holder
Compatibility	Digital panoramic, digital intraoral (any sensor), and phosphor plate (PSP) systems
Carrying case	Waterproof NANUK case included
Warranty	3-year warranty on hardware
Origin	Designed and made in Canada, 2024

PERFORMANCE

Test time	About 2 min per device (position, expose, upload)
Analysis speed	Under 8 seconds
Parameters/test	Up to 17 image-quality parameters
Fault modes	9+ from Health Canada dental X-ray guidelines
Gray-level depth	256 discrete levels (vs 16 to 32 human eye)
Output	Pass/fail, Q-Score, trend data



Q-SCORE

The Q-Score is a numerical performance index assigned to a radiographic unit on each test cycle. It quantifies equipment condition across the measured parameters, distinguishing units within specification from those exhibiting progressive degradation. A declining score indicates measurable deviation from baseline image quality and flags the unit for service.



SOFTWARE: PHANTOM CLOUD

Platform	Fully web-based, no installation
Requirements	Any computer with a browser and internet
Analysis engine	Phantom Analyzer (automated)
Record keeping	Automatic logging, stored securely 10 years
Reports	Exportable PDF (single test or period summary)
Logbook	Digital X-Ray Logbook, time-stamped per exposure
Alerts	Failed-test and missed-test notifications
Editions	Phantom Cloud AI; Phantom Cloud DSO (multi-site)

WHAT IT TESTS FOR

Phantom Cloud evaluates up to 17 image-quality parameters per exposure, including excess radiation output and leakage, beam and collimator alignment, beam-strength deviation over time, kVp accuracy, radiation-spike detection, brightness and exposure-level shifts, magnification deviation, geometric distortion, mechanical symmetry, image artifacts, focus and edge sharpness, and gray-level uniformity.

PRICING AND WHAT'S INCLUDED

Subscription	\$59.99 CAD / month, per office
Hardware	Free with annual Phantom Cloud subscription
Included	Software access, NANUK case, 24/7 support, 3-yr warranty
Extra pieces	Additional puck or holder, \$75 CAD each
DSO billing	Each office billed separately

Compliance context: The system provides standardized, automated QA testing and time-stamped documentation consistent with Health Canada Safety Code 30 (Radiation Protection in Dentistry) and RCDSO quality-assurance expectations. It functions as a measurement and record-keeping tool supporting a clinic's compliance program and does not constitute regulatory certification. Clinic-specific obligations should be verified with the applicable regulator.

