



Handheld X-ray Systems

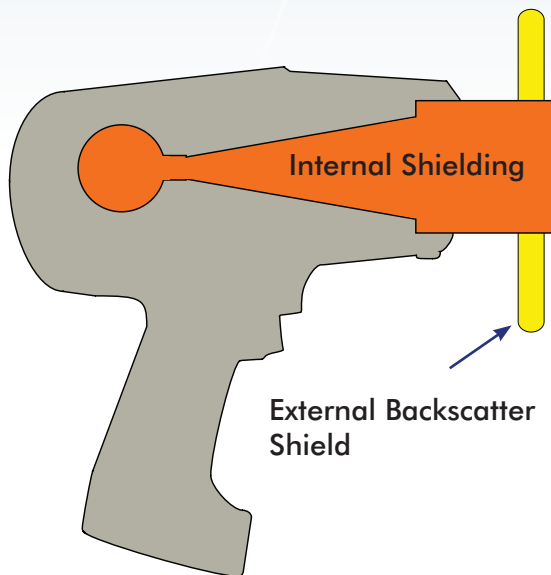


NOMAD is **PROVEN** as **SAFE** as conventional x-ray systems! (And it's much easier to use!)

Here's why it's safe:

Because of its innovative internal shielding, NOMAD is safe for the operator to use handheld. The x-ray tube and collimator are enclosed in a proprietary compound that blocks radiation leakage.

The leaded acrylic shield at the front of the NOMAD provides the operator with a "zone of protection" from backscatter radiation during the actual exposure.



Compare the Operator Dosage Range:

0.16-0.37mSv

Conventional X-ray¹

0.12-0.30mSv

NOMAD Handheld X-ray²

¹ NCRP Report No. 160 (National Council on Radiation Protection and Measurements), p211-212

² Normalized average assumes 7,200 exposures per year, and the average length of exposure (for D-speed = 0.50 seconds & 0.30 mSv/yr, F-speed = 0.25 seconds & 0.12 mSv/yr, digital sensor = 0.20 seconds & 0.12 mSv/yr) (Multiple formal studies available upon request).

What the Experts Say About NOMAD® Safety for the Operator and the Patient



More than **30** independent studies and evaluations attest to the safety of the Aribex NOMAD Handheld X-ray System.

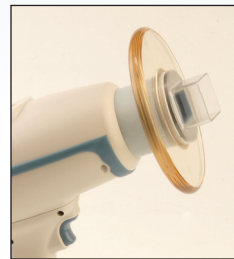
"The results of this comparison of dental staff doses between the NOMAD handheld intraoral X-ray system and conventional wall-mounted intraoral X-ray systems indicate that the **staff doses for the handheld systems are significantly less than those for wall-mounted systems**. Consequently, there should be no concern about the use of NOMAD handheld dental intraoral x-ray system."¹

"**Patient dose was reduced by 63%** [when using the NOMAD and] operator dose was indistinguishable from background dose."²

"Our data have shown that the **NOMAD presents risks that are no greater than with standard dental radiographic units** to the patient or operator and the measured doses are well below recommended levels."³

"...Using estimates of 'worst case' workloads, if the instructions are followed, **there is little risk of operators receiving a dose above that allowed to the general public, and there is no requirement to wear a protective garment. With digital detectors, the dose will be 50% lower.**"⁴

The NOMAD Pro Collimator Adapter: ALARA Becomes Real



The 6 cm cone of the Aribex NOMAD Pro Handheld X-ray System already reduces the patient dose area to 73% of the area exposed with traditional 7 cm cones.

The NOMAD Pro **Rectangular Collimator Adapter** (available separately) easily snaps on the front of the NOMAD Pro and **further reduces the 6 cm patient dose area by an additional 58%**.

See your dental equipment dealer to find out how the Aribex NOMAD Pro can save you money and time while reducing exposure for both operator and patient.

¹Dental Staff Doses With Handheld Dental Intraoral X-Ray Units by Joel E. Gray, Edgar D. Bailey, and John B. Ludlow, *Health Physics Society Journal*, February 2012.

²(Phillips BJ, Ludlow JB, Platin E, Mauriello SM) This study has been accepted for oral presentation by the American Association for Dental Research during their March 2012 annual meeting.

³Radiation Exposure with the NOMAD Portable X-ray System, February 2008, SUNY Stony Brook University NY, AD Goren, M Bonvento, J Biernacki and DC Colosi (Appendix 5.2)

⁴Evaluation and testing of Nomad Pro hand-held Intraoral X-ray system - Mammographic Physics Consulting Group., G.E. Mawdsley, FCCPM, P. Phys., and M.J. Yaffe, Ph.D., FAAPM, April 2010. [Boldface added in all quotes.]

Consider the overwhelming evidence: the NOMAD Handheld X-ray is safe!



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