Dental Excellence in every area

**Practice equipment**
KaVo treatment units and lights, dental chairs, patient communication system, dental microscope and additional operatory accessories

**Instruments**
Dental straight and contra-angle handpieces, turbines, air polishing systems and small equipment for all application areas including diagnosis, prophylaxis, restorative, surgery, endodontics and instrument care

**Imaging**
Intraoral X-ray equipment, sensors and imaging plate systems, panoramic and cephalometric in combination with CBCT, as well as dedicated CBCT devices for every indication in dentistry

**CAD/CAM**
Dental CAD/CAM solutions for highly aesthetic, natural-looking and long-lasting restorations, suitable for dentists and dental technicians

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**KaVo NOMAD™ Pro 2**
Handheld X-ray system

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KaVo Dental GmbH | Bismarckring 39 | 88400 Biberach | Germany
www.kavo.com
Battery 21.6 V DC lithium-ion
Voltage 60 kV true DC
Current 2.5 mA
Exposure time range 0.02–1.00 s
Focal spot 0.4 mm
Inherent filtration > 1.5 mm al equivalent

Source to skin distance 20 cm
X-ray field 60 mm round
Maximum duty cycle 1 : 60 seconds
Total weight 6.0 lbs. (2.7 kg)
Approximate dimensions W 5.5” x L 11” x H 10.5”
(W 14 cm x L 28 cm x H 27 cm)

Comparative data for whole body exposure (annual)

<table>
<thead>
<tr>
<th>Source of exposure</th>
<th>20 mSv</th>
<th>3.65 mSv</th>
<th>2.19 mSv</th>
<th>1.00 mSv</th>
<th>1.00 mSv</th>
<th>0.16-0.37 mSv</th>
<th>0.30 mSv</th>
<th>0.12 mSv</th>
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</thead>
<tbody>
<tr>
<td>Occupational dose limit</td>
<td>20 mSv</td>
<td>3.65 mSv</td>
<td>2.19 mSv</td>
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<tr>
<td>Average natural background radiation1</td>
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<td>Average occupational exposure for flight crews1</td>
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<tr>
<td>Occupational dose limit requiring dosimetry</td>
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</tr>
<tr>
<td>General public dose limit (excluding natural background and medical care)</td>
<td>20 mSv</td>
<td>3.65 mSv</td>
<td>2.19 mSv</td>
<td>1.00 mSv</td>
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<td>0.30 mSv</td>
<td>0.12 mSv</td>
</tr>
<tr>
<td>Range of exposure for dental personnel using conventional X-rays2</td>
<td>4.00 mSv</td>
<td>1.00 mSv</td>
<td>0.30 mSv</td>
<td>0.12 mSv</td>
<td>0.12 mSv</td>
<td>0.12 mSv</td>
<td>0.12 mSv</td>
<td>0.12 mSv</td>
</tr>
<tr>
<td>Average exposure using NOMAD X-ray unit with D-speed film3</td>
<td>4.00 mSv</td>
<td>1.00 mSv</td>
<td>0.30 mSv</td>
<td>0.12 mSv</td>
<td>0.12 mSv</td>
<td>0.12 mSv</td>
<td>0.12 mSv</td>
<td>0.12 mSv</td>
</tr>
<tr>
<td>Average exposure using NOMAD X-ray unit with F-speed film or digital sensor4</td>
<td>4.00 mSv</td>
<td>1.00 mSv</td>
<td>0.30 mSv</td>
<td>0.12 mSv</td>
<td>0.12 mSv</td>
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<td>0.12 mSv</td>
<td>0.12 mSv</td>
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</table>

4 Normalised average assumes 1,200 exposures per year, and the average length of exposure for D-speed = 0.50 seconds, F-speed = 0.25 seconds, digital sensor = 0.20 seconds.

KaVo NOMAD™ Pro 2
Safe and effective handheld X-ray technology*

Commitment to safety
We understand that safety is paramount when clinicians treat their patients. To keep operators safe, the KaVo NOMAD™ Pro 2 has two highly devised shielding features.

Internal shielding
Due to its innovative internal shielding, the KaVo NOMAD™ Pro 2 is safe for the operator to use as a handheld device. The X-ray tube and collimator are completely enclosed in a proprietary blend of metals that are designed to block radiation leakage.

Backscatter shield
Most of the low-dose radiation generated by the KaVo NOMAD™ Pro 2 will be absorbed by the patient, but in the case of backscatter radiation, the leaded polymer shield at the front of the device provides the operator with a zone of protection.

KaVo NOMAD™ Pro 2 is cleared by the U.S. Food and Drug Administration and is CE marked. Regulatory requirements can vary by jurisdiction. Please contact your regional regulatory agency for radiation requirements in your area.

* 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 the NOMAD handheld dental intraoral X-ray system.*

*Our data has shown that the NOMAD X-ray unit 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.*

*This investigation suggests that the NOMAD handheld X-ray unit employed in this study is suitable for use in routine dental radiography provided it is operated according to the recommendations of the manufacturer by properly trained personnel. This conclusion is supported by measurements of the dose received by a simulated operator.*

The NOMAD device is a reliable, versatile, portable X-ray unit that meets radiation safety standards and has multiple applications for forensic, field and humanitarian dentistry.*


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


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