X-ray film development – reliable technology for precise images

Find out more about digital X-rays:
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The best conditions for ensuring exact diagnostics

Professional radiographs are indispensable tools when making a correct diagnosis. Whether intraoral or extraoral, perfect image capturing technology and high film development quality are crucial if you want to achieve optimum results with excellent images.

Dürr Dental offers ideal solutions for all surgery sizes and dental film formats to meet the highest requirements. Their developing machines save on costs and time, are easy to use, and deliver precise image results. In today’s digital world, choosing Dürr Dental remains a reliable way of ensuring the best possible quality in wet film development. In order to guarantee the highest degree of quality, the family business Dürr Dental manufactures almost exclusively in Germany.

The Dürr Dental range – tried and tested in surgeries

Whether fully or semi automatic, Dürr Dental wet film development solutions offer an extensive range of products and accessories to meet all requirements. Practical solutions that are convenient and safe – a real alternative with no PC!

Clear status and meaningful information for oral surgery on the developed OPG X-ray film
Three methods, one objective: First-class radiographs

Fully automatic development – with XR 24 Pro and XR 24 Easy

More reliability in film development

The fully automatic XR 24 X-ray film development processor makes no compromises: The temperature, chemical concentration, and processing time remain constant at all times. The XR 24 Pro offers pre-programmed processing via the „Intra“, „Extra“, and „Endo“ development programs. The Dürr Dental immersion tank technology ensures a smooth developing process. The transfer rollers are always below the surface of the fluid. Therefore they do not even dry out during long standby phases, and the developer and fixer cannot crystallize. This means that the sensitive film material is protected from being damaged during their passage through the processor.

Work more flexibly with the mobile darkroom

The DL 26 daylight loader from Dürr Dental eliminates the need for a darkroom and provides maximum development quality. It ensures added freedom of movement. The integrated film depot is suitable for storing all film formats.

This is what counts:
- Development of all dental films and formats
- Temperature-controlled heating
- Easy and quick to operate
- Process-controlled development cycle
- No crystallization of chemicals
- Extensive range of accessories
- Up to 6 intraoral films in parallel
A perfect image in a flash

The tried-and-tested automatic developer unit for intraoral X-ray films in all formats: Captured images move through the development, fixing, rinsing and drying phases fully automatically. The Dürr Dental Periomat Plus impresses users thanks to its excellent image quality, producing clear, high-contrast images with a high density that are suitable for long-term archiving.

Compact X-ray film development with XR 04

Save space when developing

The XR 04 by Dürr Dental is the smallest developer offered. It supports the operator in making safe diagnoses and can be positioned with flexibility thanks to its small size. It can be placed against a wall, on a table, or in a cupboard. It is extremely easy to clean and maintain, and the specially developed chemicals ensure the best possible image quality. The XR 04 by Dürr Dental saves time and money and relieves the burden on the surgical team.

This is what counts:
- Suitable for all intraoral images
- With and without heating
- Flexible positioning
- Selectable processing times
- Easy to care for and maintain
- No need for a darkroom
The ideal solution for every requirement

Wet film development

The all-rounder: XR 24 Pro/XR 24 Easy
Fully automatic X-ray film processors for all dental films and formats

The classic solution: Periomat Plus
Tried-and-tested automatic developer unit for all intraoral X-ray films

The compact solution: XR 04
Space-saving developer with and without drying for all intraoral images

Innovative film development with vitamin C

Dürr Dental has a natural formula for X-ray film development: Vitamin C – for excellent images, the best possible quality, and striking contrast. By refraining from the use of conventional chemicals such as hydroquinone and aldehyde, machine soiling and cleaning workload can be significantly reduced. This is thanks to the perfect partnership of technology and chemicals.

The special set of single-component developer and fixer concentrates are produced in house and makes the application of chemicals really easy. The Dürr Dental Universal Cleaner completes the wet development product range. This product has demonstrated its high cleaning power and material compatibility in numerous tests. In addition, during everyday work at the surgery it impresses users due to its ease of use and extremely economic dosing quantities.
# Data, facts, and accessories

<table>
<thead>
<tr>
<th></th>
<th>XR 24 Pro</th>
<th>XR 24 Easy</th>
<th>Periomat Plus</th>
<th>XR 04</th>
</tr>
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<tbody>
<tr>
<td>Voltage (V)</td>
<td>230</td>
<td>230</td>
<td>230</td>
<td>220–240</td>
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<td>Frequency (Hz)</td>
<td>50–60</td>
<td>50/60</td>
<td>50</td>
<td>50/60</td>
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<tr>
<td>Current consumption (A)</td>
<td>4</td>
<td>4</td>
<td>2.2</td>
<td>0.015/0.15 (with heating)</td>
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<td>Performance (W)</td>
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<td>500</td>
<td>3.5/30 (with heating)</td>
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<td>Heating</td>
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<td>yes</td>
<td>no/yes</td>
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<td>Heat output (W)</td>
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<td></td>
<td>450 (drying)</td>
<td>450 (drying)</td>
<td>390 (drying)</td>
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<td>Temperature of the bath (°C)</td>
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<td>28</td>
<td>25</td>
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<td>Warm-up time (min)</td>
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<td>approx. 16 (2 min/1 °C)</td>
<td>approx. 35 (7 min/1 °C)</td>
<td>approx. 35 (7 min/1 °C)</td>
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<td>Duty cycle (%)</td>
<td>100</td>
<td>100</td>
<td>100</td>
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<td>Processing time (min)</td>
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<td>6</td>
<td>5</td>
<td>2-6</td>
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<tr>
<td>Process time (min)</td>
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<td>5</td>
<td>3:30/2:30 (with heating)</td>
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<td>Water flow rate (l/min)</td>
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<td>Water pressure (bar)</td>
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<tr>
<td>Tank volume (l) for developer/fixer</td>
<td>5 each</td>
<td>5 each</td>
<td>1 each</td>
<td>1 each</td>
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<td>Weight (kg)</td>
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<td>25</td>
<td>11.2</td>
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<tr>
<td>Dimensions (H x W x D in mm)</td>
<td>440 x 420 x 510</td>
<td>440 x 420 x 510</td>
<td>400 x 630 x 250</td>
<td>540 x 430 x 220</td>
</tr>
</tbody>
</table>

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