As easy to use, as it is to move

MULTIMOBIL 10 - Mobile X-ray imaging system
Unmatched ease of use in mobile X-ray imaging

Siemens is one of the pioneers in mobile X-ray imaging. Through our continuing search for excellence in this special field of imaging, Siemens sets standards with MULTIMOBIL 10, a versatile and highly economical mobile X-ray system. MULTIMOBIL 10 is powered by high frequency technology, that can generate imaging power of up to 10 kW and perform most demanding imaging tasks with ease.

X-ray system. MULTIMOBIL 10 improves clinical workflow capabilities and allows for high flexibility in patient positioning – from recumbent, sitting, or in any position in between. Challenging clinical orientations such as abdominal and chest imaging, even for obese patients are addressed with ease with MULTIMOBIL 10.

Excellent performance

Identical to the excellent eye sight and admirable night vision of Zebra, Siemens has designed MULTIMOBIL 10 that can generate high contrast sharp images. Challenging clinical orientations such as abdominal and chest imaging, even for obese patients are addressed with ease with MULTIMOBIL 10.

Engineered for ease

Alike Zebras, who are considered to be a symbol of balance with respect to movement, clarity and sureness of path, MULTIMOBIL 10 can move quickly in any clinically relevant direction and can image the patient in almost any position. Also, the hassle free ‘plug and perform’ feature makes it a device that can be used in any environment demanded in the medical infrastructure.

High performance with low dose

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The economical solution in mobile X-ray imaging

Unmatched ease of use in mobile imaging

Mobile imaging wouldn’t be easier: plug MULTIMOBIL 10 into any grounded wall socket, switch it on and you are ready to start the examination. Developed with a compact and lightweight design and the counterbalanced swivel-arm system, MULTIMOBIL 10 improves clinical workflow virtually eliminating any motion blur. A convenient and safe parking position for the freely rotatable unit’s head ensures higher safety, especially when the system is being moved. Thanks to the short wheelbase of the system, high maneuverability is ensured.

Versatility with perfection

MULTIMOBIL 10 can be used in a variety of clinical disciplines, such as for instant bedside imaging, intensive care unit, neonatal intensive care unit, operating room, sports medicine and even in veterinary medicine.

Authentic output

Another technological milestone of micro processor based design with data feedback loop helps in delivering authentic results at a faster speed, highlighting the unique strike pattern that Zebras have.
MULTIMOBIL 10
All you can expect from a mobile X-ray system

Wide operation range
MULTIMOBIL 10 has set a standard in performing consistently under extreme operating conditions. It delivers constant imaging power even when the power supply voltage falls to 170 V / 180 V or rises to 265 V.

High dose yield and shorter exposure times
With MULTIMOBIL 10 you need extremely lower factors than those required in conventional generators to deliver the same dose. The exposure times are reduced significantly over conventional generators.

Brilliant image quality
The self-calibrating and high imaging output of MULTIMOBIL 10 – up to 10 kW and 125 mAs – enables exposure times down to 4 ms, virtually eliminating any motion blur. Although MULTIMOBIL 10 already supports a wide range of clinical applications, the remarkably sharp images made possible by the short exposure times enhance its utility in intensive cardiac care and neonatal units.

A comparison – high frequency and 2-pulse

What is high frequency technology?
With a conventional 2-pulse X-ray generator, voltages from zero to the nominal voltage are generated. But only voltages higher than approximately 75% of the nominal voltage value contribute to film blackening. We refer to this as useful radiation. Lower voltages (less than 75% of the nominal voltage value) produce soft radiation, which is partly absorbed by the patient’s body.

This radiation is the unwanted radiation called skin dose. With its high frequency generator, MULTIMOBIL 10 ensures that only a film-effective dose is produced over the entire duration of the exposure while suppressing the skin dose.

What you set is what you get – high reproducibility at all times
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Siemens solution for your “line fluctuation challenges”

Wide operation range
The MULTIMOBIL 10 has set a new standard among high frequency generators by performing consistently under the worst possible line conditions. It can deliver the output consistently even when the input power supply voltage falls to a value as low as 170 Volts or even when the supply rises to a high of 265 Volts.
Technical data at a glance

<table>
<thead>
<tr>
<th>Technical data</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Output power</td>
<td>10 kW</td>
</tr>
<tr>
<td>Output waveform</td>
<td>high frequency</td>
</tr>
<tr>
<td>kV range</td>
<td>40 – 125 kV</td>
</tr>
<tr>
<td>mA range</td>
<td>30 – 160 mA</td>
</tr>
<tr>
<td>mAs range</td>
<td>0.32 – 125 mAs</td>
</tr>
<tr>
<td></td>
<td>At 40 – 48 kV mAs 0.50 – 125</td>
</tr>
<tr>
<td></td>
<td>At 50 – 57 kV mAs 0.40 – 125</td>
</tr>
<tr>
<td></td>
<td>At 60 – 63 kV mAs 0.32 – 125</td>
</tr>
<tr>
<td></td>
<td>At 66 – 73 kV mAs 0.32 – 100</td>
</tr>
<tr>
<td></td>
<td>At 81 – 96 kV mAs 0.32 – 80</td>
</tr>
<tr>
<td></td>
<td>At 102 – 125 kV mAs 0.32 – 64</td>
</tr>
<tr>
<td>Exposure time</td>
<td>4 ms to 2.14 secs</td>
</tr>
<tr>
<td>Exposure technique</td>
<td>two point technique</td>
</tr>
<tr>
<td></td>
<td>(only kV and mAs to be adjusted)</td>
</tr>
<tr>
<td>X-ray tube</td>
<td>Siemens P 135/20 tube</td>
</tr>
<tr>
<td>Anode speed</td>
<td>3000 rpm, 50 Hz</td>
</tr>
<tr>
<td>Anode braking device</td>
<td>yes</td>
</tr>
<tr>
<td>Focal spot</td>
<td>0.8 x 0.8 mm, IEC 336</td>
</tr>
<tr>
<td>Inherent filtration</td>
<td>0.7 mm Al / 75 kV</td>
</tr>
<tr>
<td>Tube head angulations</td>
<td>along x-ray tube axis: +180°/ -30°</td>
</tr>
<tr>
<td></td>
<td>at yoke connection to arm ± 90°</td>
</tr>
<tr>
<td>Exposure release</td>
<td>two step switch, coiled cable with 5 m stretched length</td>
</tr>
<tr>
<td>Pause time</td>
<td>30 times the exposure time (30:1)</td>
</tr>
<tr>
<td>Collimator</td>
<td>manually adjustable</td>
</tr>
<tr>
<td>Light source</td>
<td>100 W halogen lamp, 12 V, &gt; 100 lux at 1 m distance</td>
</tr>
<tr>
<td>Time for collimator lamp</td>
<td>30 sec</td>
</tr>
<tr>
<td>SID range</td>
<td>min. 510 mm and max. 1950 mm</td>
</tr>
<tr>
<td>Device to measure SID</td>
<td>yes, measuring tape integrated in collimator</td>
</tr>
<tr>
<td>Format size at 1 m SID</td>
<td>17” x 17”</td>
</tr>
<tr>
<td>Cassette box</td>
<td>suitable for 8 cassettes</td>
</tr>
<tr>
<td>Unit dimensions</td>
<td>65 x 142 x 140 cm (w x h x l)</td>
</tr>
<tr>
<td>Weight of the unit</td>
<td>185 kg</td>
</tr>
<tr>
<td>Line connection</td>
<td>200 – 240 V, ± 10 % or 110 V, ± 10 % 50/60 Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>1 kVA</td>
</tr>
<tr>
<td>Mains connector</td>
<td>16 A plug</td>
</tr>
<tr>
<td>Mains cable length</td>
<td>5 m</td>
</tr>
<tr>
<td>Temperature range</td>
<td>+10° – +40° C</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>30 % – 75 % non-condensing</td>
</tr>
<tr>
<td>Barometric pressure</td>
<td>700 hpa to 1060 hpa</td>
</tr>
<tr>
<td>Safety standards</td>
<td>IS-7620 and AERB safety code, IEC 60601.</td>
</tr>
</tbody>
</table>

Why use Customer Care Centre?

- Round-the-clock call registration and handling through Toll Free Helpline 1800 4197 477
- Immediate response and Call closing through phone support, wherever possible
- Check on the complaint status on a Real-time-basis
- Reduced down time of the equipment
- Flexibility to choose from a range of modular service agreements (or contracts).

Customer complaint made to our Toll Free Helpline 1800419 7477 is registered at our Call Centre with relevant details and then transferred to the concerned product expert at our customer care centre or to our CSE (Customer Support Engineer) depending on the model of the product. They will explore the possibility of closing the complaint through ‘phone support’. If it requires the visit of CSE to the customer site, the same is arranged. The CSE will attend to the complaint and close it to the satisfaction of the customer.

If a part is required to be replaced, the concerned CSE will order the same with the help of Siemens’ Service Logistics team, and replace the same timely, test the system and hand over the machine back to the customer.

For the application support of a newly installed system / subsequent application support, same process as above is followed.

You can call our Toll Free Helpline
1800 4197 477 or 080 – 66201510

Know more about Goa Works

Siemens Goa Works combines the technical competencies and standard manufacturing processes with the mission to deliver high quality products to our customers. A wide range of affordable mobile and fixed X-ray systems are developed here.

Goa Works is certified with EN/ISO 13485:2003 International Quality Management System certification, certification from Atomic Energy Regulatory Board (AERB) and many others.

The factory is also certified by the Bureau of Indian Standards for IS:7620 (Part 1). The radiation safety of products manufactured in Goa is certified by the Atomic Energy Regulatory Board (AERB), Govt. of India.
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www.siemens.co.in/healthcare

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