

**SIEMENS**



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# MOBILETT XP, MOBILETT XP Hybrid, MOBILETT XP Eco

Remarkable user comfort in advanced mobile X-ray imaging

Answers for life.

# One idea, three individual models

## MOBILETT XP

Individuality distinguishes one person from another. One working routine from another. One workflow from another. With MOBILETT XP we pay tribute to this individuality and the individuality of your hospital routine.

This is why MOBILETT XP offers three different models:

### MOBILETT XP\*

is the powerful all-rounder with 30 kW and excellent image quality for interdisciplinary use in all departments, where reliable and quick imaging is of high importance.

### MOBILETT XP Hybrid

is the leading model of the XP series, with 30 kW output power, motor-assisted drive and both mains and battery power operation.

### MOBILETT XP Eco\*

is the economic variant with 20 kW output power to address hospitals with lower imaging power requirements.

MOBILETT XP is an advanced, analog mobile X-ray platform that – in every system – combines excellent image quality with easy mobility and high operator comfort. Thus it is ready to support your routine.



Giraffe design as an option



MOBILETT XP Hybrid with motor-assisted drive

\* MOBILETT XP and MOBILETT XP Eco are not commercially available in the United States (U.S.A.).



MOBILETT XP –  
As individual  
as your needs.

# Excellent image quality

Because you need to see it all. Instantly.

With a clearly arranged control panel and only a minimum number of required settings, all MOBILETT XP systems are immediately ready for imaging.

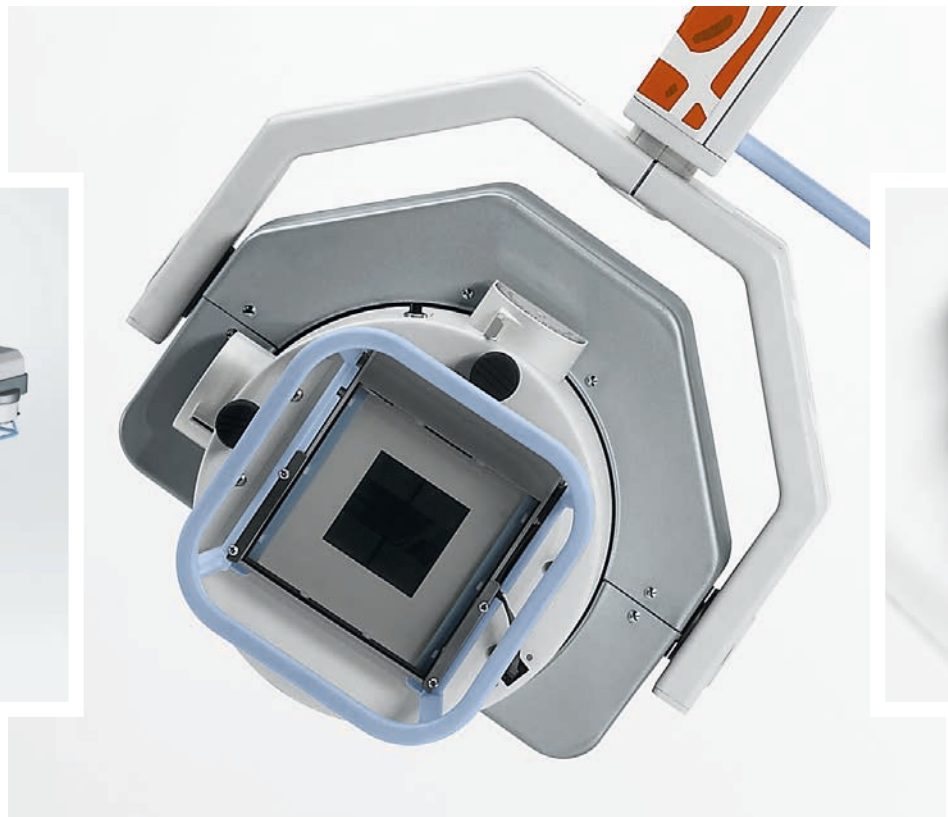
The self-calibrating high imaging output of 30 kW and 450 mA enables short exposure times down to one millisecond, virtually eliminating any motion blurring.

Delivering such high quality in imaging, all MOBILETT XP systems can be used for a wide variety of applications in the ICU, CCU, neonatal and pediatric department or in your hospital ward.

Providing an image quality comparable to that of most stationary X-ray systems, our customers can use the MOBILETT XP e.g. for demanding chest and abdominal images.



Agile and easy-to-maneuver system



Flexible tube head

# Remarkable user comfort

## Designed with details in mind.

MOBILETT XP is designed with details in mind, as a small detail often makes a big difference.

Its lightweight design of only 206 kg\* make it easy to move and position. After starting the system, MOBILETT XP is immediately ready to go. The radiation can be released via hand switch or an optional remote control.

The user panel with clearly visible display supports intuitive handling when seconds count.

All MOBILETT XP systems offer an optional Dose Area Product (DAP) measurement.



Convenient X-ray release



Clearly-arranged system control



\* MOBILETT XP and MOBILETT XP Eco

# Where design follows function

Position the system. Not the patient.

The lightweight MOBILETT XP systems are equipped with polyurethane tires on a short wheelbase to help overcome any floor resistance. A convenient handbrake stops the system safely. More to that, the compact design allows transportation in elevators and other areas where space might be limited, for example in an ICU.

The sleek design always allows good visibility to the front.

The tube head of the system is mounted on a double-articulated and fully counterbalanced X-ray arm with integrated cables for maximum cleanability. Its industry-leading horizontal extension of up to 128 cm and the freely rotatable head make MOBILETT XP easy to position in virtually any projection, with the patient recumbent, sitting or any position in between. This is of special importance when you have to deal with immobile and critically ill patients.

MOBILETT XP –  
As individual  
as your needs.



# Complementing the portfolio

Match your needs. Support your routine.

To ideally match your needs, Siemens offers two further models to the MOBILETT XP, both of which include the same core features regarding mobility and user comfort.

## MOBILETT XP Hybrid (30 kW)

Facilities with a high number of demanding mobile examinations – as given in chest or abdominal X-raying – usually decide for the MOBILETT XP Hybrid. The Hybrid model offers 30 kW output power as a standard.

Motor assisted driving and the ability to work both from mains and battery power, make MOBILETT XP Hybrid a first choice system. The batteries easily manage the X-ray load of a challenging work day. When on stand-by, the system supports battery saving of up to 25% and should the batteries be empty, you can chose to work from mains power. Thus the system is always ready for action.

## MOBILETT XP Eco (20 kW)

MOBILETT XP Eco also provides all the features and advantages of the XP series. With its 20 kW it is designed for imaging with less demanding power requirements.



Flexible arm with integrated cables



Clearly laid-out system rear panel

# Technical data

## MOBILETT XP

<b>Tube housing</b>	<b>MOBILETT XP, MOBILETT XP Hybrid, MOBILETT XP Eco</b>
Stabilization	Microprocessor-controlled adjustment and regulation during exposure
X-ray tube	Siemens P135/30 R with nominal focal spot value 0.8 (acc. to IEC 60336)
Anode rotation	9,000 r.p.m., 142 Hz (anode angle 15°)
Anode heat storage capacity	90,000 J = 122,000 HU
Tube housing heat storage capacity	800,000 J = 1,100,000 HU
Inherent filtration	
• Collimator	min. 2.0 mm Al (at 70 kVp)
• Tube housing assembly	min. 1.9 mm Al (at 70 kVp)
• Total	min. 3.9 mm Al according to IEC 60522
Collimator	Manually adjustable multileaf collimator, rotatable ± 90°
Collimator light and light field intensity	Halogen lamp min. 180 lux at 1 m SID, without DAP equipment
Tube housing assembly	Max. temperature 60 °C, max. 2000 mAs/h, nominal continuous rating 75 W until the covers reach 60 °C
Measurement of leakage radiation*	133 kVp/10 mAs, 200 exposures/h
<b>Motor drive</b>	<b>MOBILETT XP Hybrid only</b>
Drive speed	Low/high, adjustable 0.5–1.35 m/s
Max. incline	7°
<b>Batteries</b>	<b>MOBILETT XP Hybrid only</b>
Batteries	168 Ah total capacity Automatic battery charging with charge indicator AC line operation with reduced output power 24 sealed maintenance-free lead batteries, Yuasa: NP 7-12L
Charging time	4-5 h (typical), 12 h when completely discharged

\* The leakage radiation of the tube housing and the collimator corresponds to the requirements according to 21 CFR, section 1020.3 (K) and IEC 60 601-1-3. See the X-ray tube manual for additional information.





<b>Remote control (optional)</b>	<b>MOBILETT XP, MOBILETT XP Hybrid, MOBILETT XP Eco</b>	
Compatibility	Compatible with all TechSwitch remote exposure switch systems	
Technology	Infrared light beam, line-of-sight operation, will operate through glass and lead glass, will not operate through doors or walls	
Power supply of the remote control	9-volt alkaline battery included, 25,000+ exposures, low battery indicator illuminates when battery needs to be replaced	
Operating distance	Up to 36 feet (10.9 m)	
Operating radius	180°; remote sensor built into the front arm of X-ray unit	
<b>DAP equipment (optional)</b>	<b>MOBILETT XP, MOBILETT XP Hybrid, MOBILETT XP Eco</b>	
Technology	Ionization chamber, display and control panel	
Typical filtration	< 0.4 mm Al equivalent	
Warm-up time	Ready for use 10 seconds after power on. Specified accuracy achieved 15 minutes after power on	
Chamber light transmission	≥ 70 %	
DAP resolution	0.1 μGym <sup>2</sup>	
Max. measurable DAP	1 x 10 <sup>6</sup> μGym <sup>2</sup>	
<b>Environment</b>	<b>Operation</b>	<b>Transport/Storage</b>
Permissible ambient temperature	+10 °C – +40 °C	-20 °C – +70 °C
Permissible relative humidity	30 % – 75 %	10 % – 100 %*
Permissible air pressure range	800 hPa	1060 hPa

\* Maximum 15 weeks

# Technical data

## MOBILETT XP\*/MOBILETT XP Hybrid

X-ray controls & generator	MOBILETT XP	MOBILETT XP Hybrid
Power connection	Grounded safety power socket (L/N/Gnd)	Grounded safety power socket (L/N/Gnd)
Line voltage	100–130 V $\pm$ 10 %, 50/60 Hz, impulse current 11A, continuous current 0.6 A 200–240 V $\pm$ 10 %, 50/60 Hz, impulse current 19A, continuous current 0.5 A	100–130 V $\pm$ 10 %, 50/60 Hz, impulse current 11A, continuous current 0.6 A 200–240 V $\pm$ 10 %, 50/60 Hz, impulse current 19A, continuous current 0.5 A
Apparent resistance of supply AC line	100–130 V < 0.6 Ohm 200–240 V < 2.5 Ohm	100–130 V < 0.6 Ohm 200–240 V < 2.5 Ohm
Output	max. 133 kV 225 mA max. 450 mA 54 kV max. 30 kW – 99 kV – 303 mA – 10 ms max. 25 kW – 99 kV – 252 mA – 100 ms (IEC 60601-2-7) min. 0.32 mAs	max. 133 kV 225 mA max. 450 mA 54 kV max. 30 kW – 99 kV – 303 mA – 10 ms max. 25 kW – 99 kV – 252 mA – 100 ms (IEC 60601-2-7) min. 0.32 mAs
Over current release	An on-site 15A/characteristic C overcurrent release (trip breaker) is recommended by DIN VDE 0100-710 for supply network voltages of 230 V/240 V. Country specific requirements apply for the fuse values to be used for other supply network voltages	An on-site 15A/characteristic C overcurrent release (trip breaker) is recommended by DIN VDE 0100-710 for supply network voltages of 230 V/240 V. Country specific requirements apply for the fuse values to be used for other supply network voltages
kVp range	40–133 kV in 24 or 49 stages	40–133 kV in 24 or 49 stages
kV accuracy	< $\pm$ 3 kV (40–60 kV) < $\pm$ 5 % (60–133 kV)	< 3 kV (40–60 kV) < $\pm$ 5 % (60–133 kV)
mAs range: (Tube current and exposure time product) AC line operation 230 V	At 40–55 kV: mAs 0.32–200 At 57–60 kV: mAs 0.32–180 At 63–66 kV: mAs 0.32–160 At 70–77 kV: mAs 0.32–140 At 81–85 kV: mAs 0.32–125 At 90–96 kV: mAs 0.32–110 At 102–109 kV: mAs 0.32–100 At 117 kV: mAs 0.32–90 At 125–133 kV: mAs 0.32–80	At 40–55 kV: mAs 0.32–200 At 57–60 kV: mAs 0.32–180 At 63–66 kV: mAs 0.32–160 At 70–77 kV: mAs 0.32–140 At 81–85 kV: mAs 0.32–125 At 90–96 kV: mAs 0.32–110 At 102–109 kV: mAs 0.32–100 At 117 kV: mAs 0.32–90 At 125–133 kV: mAs 0.32–80
mAs range: (Tube current and exposure time product) AC line operation 110 V	At 40–55 kV: mAs 0.32–140 At 57–60 kV: mAs 0.32–125 At 63–70 kV: mAs 0.32–110 At 73–77 kV: mAs 0.32–100 At 81–85 kV: mAs 0.32–90 At 90–96 kV: mAs 0.32–80 At 102 kV: mAs 0.32–71 At 105–117 kV: mAs 0.32–63 At 125–133 kV: mAs 0.32–56	At 40–55 kV: mAs 0.32–140 At 57–60 kV: mAs 0.32–125 At 63–70 kV: mAs 0.32–110 At 73–77 kV: mAs 0.32–100 At 81–85 kV: mAs 0.32–90 At 90–96 kV: mAs 0.32–80 At 102 kV: mAs 0.32–71 At 105–117 kV: mAs 0.32–63 At 125–133 kV: mAs 0.32–56
mAs range: (Tube current and exposure time product) Battery operation for MOBILETT XP Hybrid		At 40–81 kV: mAs 0.32–360 At 83–90 kV: mAs 0.32–320 At 93–102 kV: mAs 0.32–280 At 105–117 kV: mAs 0.32–250 At 121–133 kV: mAs 0.32–220
mAs accuracy	0.32 mAs–2 mAs: $\pm$ 0.1 mAs, > 2mAs: $\pm$ 5%	0.32 mAs–2 mAs: $\pm$ 0.1 mAs, > 2mAs: $\pm$ 5%
Shortest exposure time	1 ms	1 ms
Max. exposure time	3.5 s	5 s
Length of power cable	6 m retractable cord	6 m retractable cord
Exposure release	Detachable hand switch with 5 m (16.4 ft) of spiral cord Optional: IR-Remote Control	Detachable hand switch with 5 m (16.4 ft) of spiral cord Optional: IR-Remote Control
Weight	Approx. 206 kg	Approx. 294 kg
Dimensions: Footprint (l x w x h) (Tube in park position)	98.7 x 57.5 x 155 cm (39 x 23 x 61 inch)	98.7 x 57.5 x 155 cm (39 x 23 x 61 inch)
Tube positioning	Max. focal spot height 2135 mm (84.1 inch) Min. focal spot height 478 mm (18.8 inch) Max. horizontal ext. 1285 mm (50.6 inch) Min. horizontal ext. 282 mm (11.1 inch)	Max. focal spot height 2135 mm (84.1 inch) Min. focal spot height 478 mm (18.8 inch) Max. horizontal ext. 1285 mm (50.6 inch) Min. horizontal ext. 282 mm (11.1 inch)
Enclosure protection type	Not protected (IPX0)	Not protected (IPX0)
Protection against electrical shock	Class I, acc. to IEC 60601-1	Class I, acc. to IEC 60601-1

# Technical data

## MOBILETT XP Eco\*

X-ray controls & generator	MOBILETT XP Eco	
Power connection	Grounded safety power socket (L/N/Gnd)	
Mains voltage	100–130 V $\pm 10\%$ , 50/60 Hz, impulse current 11A, continuous current 0.6 A 200–240 V $\pm 10\%$ , 50/60 Hz, impulse current 19A, continuous current 0.5 A	
Apparent resistance of supply mains	100–130 V < 0.6 Ohm 200–240 V < 2.5 Ohm	
Output	max. 125 kV 160 mA max. 393 mA 51 kV max. 20 kW – 99 kV – 202 mA – 100 ms (IEC 60601-2-7) min. 0.32 mAs	
Over current release	An on-site 15A/characteristic C overcurrent release (trip breaker) is recommended by DIN VDE 0100-710 for supply network voltages of 230 V/240 V. Country specific requirements apply for the fuse values to be used for other supply network voltages	
kVp range	40–125 kV in 23 or 45 stages	
kV accuracy	< $\pm 3$ kV (40–60 kV) < $\pm 5\%$ (60–133 kV)	
mAs range: (Tube current and exposure time product) Mains operation 110–230 V	At 40–52 kV: At 55–60 kV: At 63–66 kV: At 70–73 kV: At 77–81 kV: At 85–90 kV: At 96–102 kV: At 109–117 kV: At 125 kV:	mAs 0.5–125 mAs 0.5–110 mAs 0.5–100 mAs 0.5–90 mAs 0.5–80 mAs 0.5–71 mAs 0.5–63 mAs 0.5–56 mAs 0.5–50
mAs accuracy	0.32 mAs–2 mAs: $\pm 0.1$ mAs, > 2mAs: $\pm 5\%$	
Shortest exposure time	2 ms	
Max. exposure time	3 s	
Length of power cable	6 m retractable cord	
Exposure release	Detachable hand switch with 5 m (16.4 ft) of spiral cord Optional: IR-Remote Control	
Weight	Approx. 206 kg	
Dimensions: Footprint (l x w x h) (Tube in park position)	98.7 x 57.5 x 155 cm (39 x 23 x 61 inch)	
Tube positioning	Max. focal spot height 2135 mm (84.1 inch) Min. focal spot height 478 mm (18.8 inch) Max. horizontal ext. 1285 mm (50.6 inch) Min. horizontal ext. 282 mm (11.1 inch)	
Enclosure protection type	Not protected (IPX0)	
Protection against electrical shock	Class I, acc. to IEC 60601-1	

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