

ULTRA PORTABLE X-RAY UNIT

ERAY SMART 6HS

Battery-powered handheld diagnostic X-ray unit

A wireless, touch-operated X-ray that goes where the patient is — engineered for the bedside, home healthcare, outreach camps and emergency response, with an integrated DAP meter and pre-programmed anatomical techniques.



3.0_{kg}
Main body weight

150_{shots}
Per single charge

90_{kv}
Max tube voltage

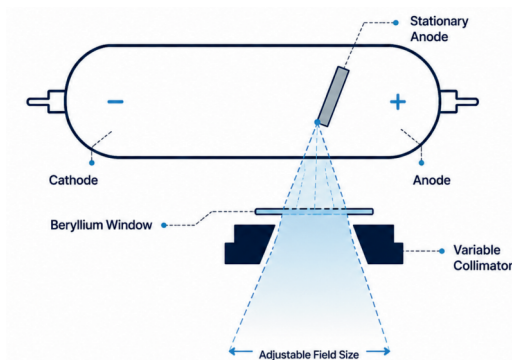
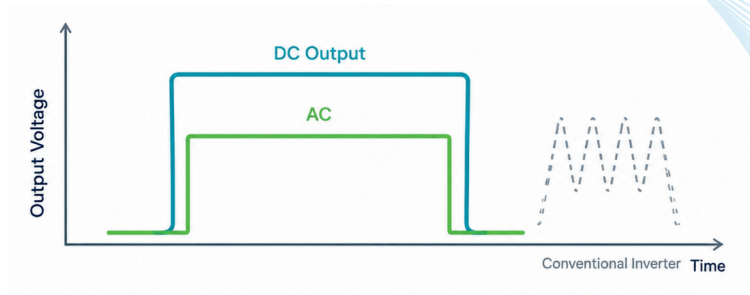
10_{mA}
Max tube current

Hospital-grade power, **handheld.**

01 – GENERATOR

High-frequency inverter, ripple-free output

The 40 kHz-class inverter generator delivers up to 450 W of constant-potential output — square-wave kV with virtually no ripple. Exposures are short, repeatable and dose-efficient, producing sharp, high-resolution diagnostic images from a unit that fits in one hand.



02 – X-RAY TUBE & COLLIMATOR

Italian stationary-anode tube, variable collimation

A premium Italian tube with generous anode heat capacity keeps output consistent across back-to-back exposures. The manually adjustable collimator with LED precisely, limiting the field to only what is clinically necessary.

03 – EXPOSURE CONTROL

Two-step guarded exposure, three ways to trigger

READY → EXPOSE

On-body trigger

Press for ready, hold through the beep for exposure — release at any moment and emission stops instantly (deadman control).

PREP → EXP

Two-stage hand switch

A corded two-step switch separates Preparation and Exposure — the familiar radiographer workflow, at cable length from the unit.

IR · 5m RANGE

Infrared remote

Arm ready and fire from up to 5 metres away, $\pm 60^\circ$ reception — maximum operator distance for portable and field use.

SAFETY BY DESIGN

Dose awareness and operator protection, built in

Integrated shielding with protection guard, an on-board DAP meter displaying dose area product after every exposure, SID guidance at 100 cm and 150 cm, and motion monitoring that halts the sequence if the unit shakes while armed — supporting the ALARA principle at every point of care.



Designed around the point of care.



≤ 1.5 HRS RECHARGE

Power that lasts the day

The built-in Li-polymer battery covers a full day of portable imaging on one charge, and tops up between sessions in as little as an hour — no mains power needed at the point of care.



CORD - FREE
OPERATION

Wireless, DR-ready workflow

Cord-free operation with instant image preview and seamless integration into DR acquisition software — position, expose and review without a cable in sight.



9 APR + FAVOURITES

One-touch anatomical technique

Nine programmable APR memories with anatomy icons plus a favourites bank recall your most-used kV / mAs techniques in a single touch on the colour display.



EN · HI · TA

Speaks your team's language

The touch interface runs in English, Hindi and Tamil, with a 180° screen-reverse mode — every operator works confidently in a familiar language, at any angle.



TEMPERATURE

Built for harsh climates

Operates across a 10 °C – 60 °C range at 30–75% RH, and stores or ships anywhere from –20 °C to +60 °C — ready for summer field camps, ambulances and monsoon humidity alike.



SCREEN LOCK ·
AUTO - OFF

Secure and power-smart

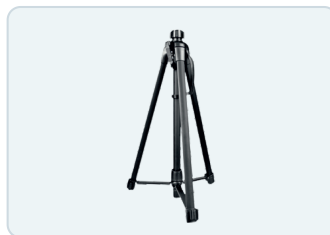
Password screen lock keeps unauthorised hands off, while power-save dimming and auto power-off preserve charge between studies — automatically.

X - R A Y K I T



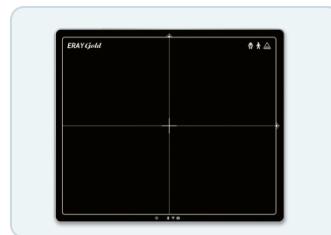
Portable X-Ray + Remote switch

+



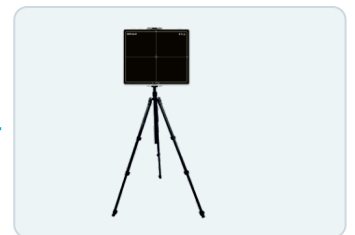
X-Ray Stand

+



Flat Panel Detector + Acquisition
Software

+



Flat Panel Detector Stand



Laptop

+



Solid Travel Case
(Optional)

+



External Power System
(Optional)

+



Lead-Free Apron, Thyroid Shield &
Other Accessories (Optional)

Technical Specifications.

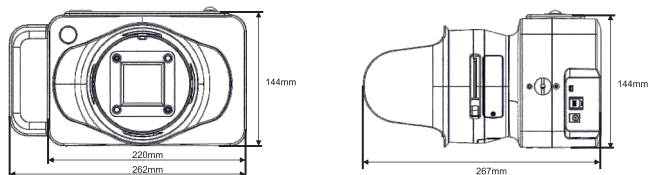
X-RAY GENERATOR

Model	ERAY SMART 6HS
Power output	Up to 450 W
kV range	50 – 90 kV
mA range	2 – 10 mA
mA s range	0.10 – 10 mAs

X - RAY TUBE

Type	Stationary
Focal spot	0.8 mm
Target angle	16°
Anode heat storage capacity	8000 J
Input power (at 0.1 sec)	1280 W
Inherent filtration	2.5 mm Al Eq

DIMENSIONS · MM



COLLIMATOR

Field size	43 × 43 cm @ 100 cm SID
Lamp	3.3 V LED

POWER REQUIREMENT

Li-polymer battery	22.2 VDC · 2,200 mAh
Number of exposures (single charge)	About 150 (70 kV, 5 mAs)
AC power adapter	100–240 V, 50/60 Hz (25.2 V / 1.5 A)
Battery charging time	About 2 hours

PHYSICAL

Weight – main body	3.5 kg
Size – main body (W × D × H)	249 × 194 × 194 mm

ENVIRONMENT

Operating environment	10 – 60 °C · 30–75% RH
Storage & transport	–20 – +60 °C · 10–95% RH
Atmospheric pressure	700 – 1060 hPa

STANDARDS & COMPLIANCE



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