

ULTRA PORTABLE X-RAY UNIT

ERAY SMART 3HS

Taking X-Ray to the Point of Need

When moving a patient to the X-ray room is difficult or impractical, point-of-care radiography brings imaging directly to where care is delivered. It helps simplify the imaging pathway, reduce unnecessary patient movement, and expand access to radiography across a wide range of clinical environments.



2~3_{mA}
mA Range

40-70_{kV}
kV Range

7_{inch}
Touch Console

150_{exp.}
Per Charge

Changing how point-of-care imaging is delivered.

Wireless, portable X-ray device

Healthcare practitioners using ERAY SMART 3HS can bring X-ray imaging to the point of need, wherever that may be. Easy to use, versatile and highly portable, it delivers high quality medical imaging for chest radiography and extremity examinations across a wide range of care settings.

FEATURES



Focused

Designed for point-of-care radiography — targeted imaging across bedside, emergency, paediatric and field-based.



User-centric

Simple controls and an intuitive operating workflow help make image acquisition easier for both radiology professionals and new users. applications.



Portable

Lightweight and easy to carry, the system moves quickly between care areas, bringing X-ray imaging closer to the patient wherever it is needed.



Power without disruption

Cordless lithium-ion battery operation gives dependable, mobile imaging for point-of-care diagnostics.

02 – TWO WAYS TO SEE YOUR FIELD

Every unit ships with one of two collimators. Both define the same irradiated area — they differ in how that area is shown to the operator, and the right answer depends on the light you work in.

Option A – LED light field



A high-intensity lamp projects a rectangular light patch matching the X-ray field. The operator sees the whole irradiated area, edge to edge, and closes the aperture down to the anatomy before exposure. A centre cross-hair aligns the unit to the detector in one move.

CHOOSE LED WHEN

Wards, bedside rounds, ICU and theatre, home visits, mobile vans, screening run indoors or after dark.

Option B – Laser positioning



Line-generating modules mark the field edges and the centre point. The lines stay legible against sunlight, so centring accuracy holds up outdoors and in brightly lit rooms where a light patch would wash out. Solid state: no lamp to replace.

CHOOSE LASER WHEN

Outdoor and daylight screening, rural and mobile deployment, high-throughput queues where centring speed decides the day.

Simple to use. Smart by design. Safe in practice.



SIMPLE

Designed for effortless imaging

A sleek design and simple interface create an easy X-ray imaging experience for both patients and careproviders.

Built-in safety controls help prevent radiation exposure unless the system is correctly positioned, supporting greater confidence during point-of-care imaging.



SMART

Designed around the way you work

An ergonomic handheld design supports comfortable positioning across different examinations, while the skin guard helps maintain separation between the device and the patient during use.

Together, these elements make point-of-care imaging easier to handle, position and operate across a range of clinical settings.



SAFE

Greater control at the point of care

A built-in distance measuring sensor helps operators maintain an appropriate distance between the X-ray source and the patient before exposure.

Combined with controlled beam positioning and collimation, it supports more consistent setup and greater confidence during point-of-care imaging.

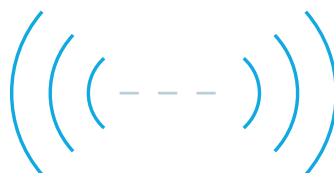
The Source Moves. The Image Moves With It.

Paired with the ERAY Gold wireless flat panel detector, the system keeps imaging completely cable-free between source and detector. Position the panel, align the X-ray source, and capture the exposure wirelessly.

The image appears on the workstation within seconds, allowing the operator to review positioning and image quality while the patient is still in place.



ERAY SMART 3HS
HANDHELD X-RAY SOURCE



WIRELESS IMAGE TRANSFER



ERAY Gold wireless detector
FLAT PANEL DETECTOR

Technical Specifications

X-RAY GENERATOR

Model	ERAY SMART 3HS
Power output	Up to 210 W
kV range	40 – 70 kV(1kV step)
mA range	2 – 3 mA(1mA step)
Exposure time	0.01~2.00s
Inverter frequency	80kHz

X-RAY TUBE

Type	Stationary
Focal spot	0.4mm
Inherent filtration	0.5mmAl
Target angle	12°
Anode heat storage capacity	43J

POWER REQUIREMENT

Battery	22.2V, 2200mAh
Battery charging time	About 2 hours
No. of exposures (single charge)	About 150

X-RAY CONSOLE

Display size	7" touch console
APR	Available
DAP	Available

PHYSICAL

Weight-main body	Upto 3.0kg
Size-main body (LxWxH)	216 x 91 x 166mm

FLAT PANEL DETECTOR

Active display area	17"x17"
Pixel	140µm
Resolution	3072 x 3072
Drop height	70cm
Weight (battery included)	Upto 3.4kg
Ingress protection	IP56
Battery autonomy	8 hours



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