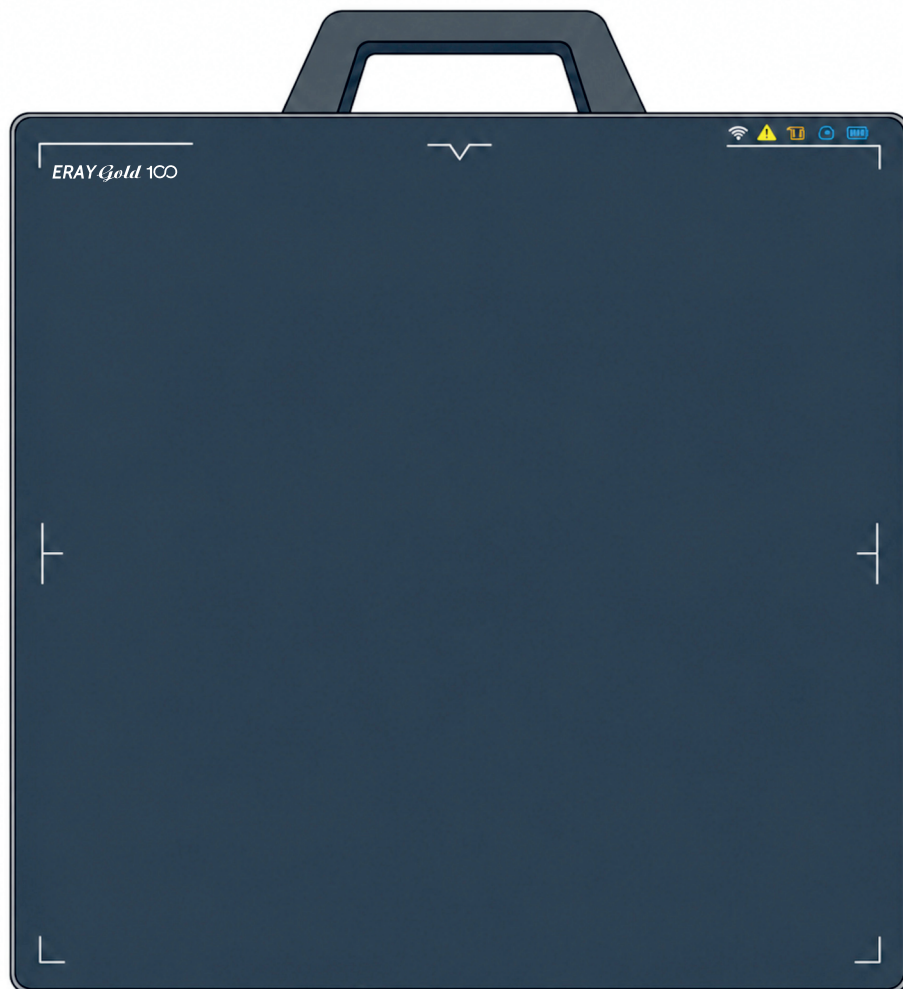


WIRELESS DIGITAL RADIOGRAPHY • 17" x 17"

ERAY *Gold* 100

Cassette-size wireless a-Si flat panel detector

One of the first best-in-class cassette detectors with direct-deposition CsI and intelligent automatic exposure detection — engineered for high-end DR systems and seamless film/screen retrofits



100 μm
Pixel pitch

Pediatric ready
Adult + child imaging

8 hrs
Battery life

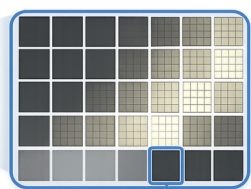
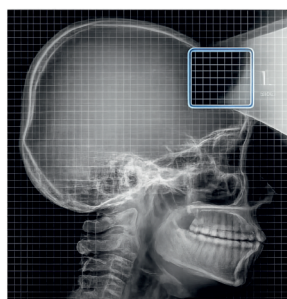
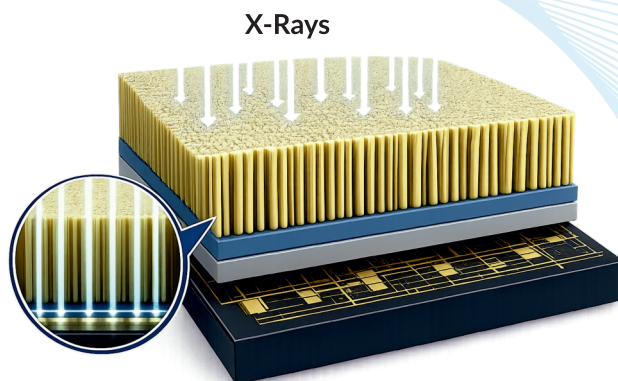
4.2k X 4.2k
Image matrix

High resolution at low dose.

01 – SCINTILLATOR

Direct-deposition Csl on amorphous silicon

Columnar caesium iodide is grown directly on the sensor, guiding light straight down to the pixel beneath it instead of scattering sideways. Sharper detail from the same exposure — excellent DQE at all frequencies, and cleaner rendering of dense, high-absorption anatomy without raising patient dose.



Picture Element (Pixels)

02 – SAMPLING

Fine pixels, deep grayscale

A $4.2k \times 4.2k$ matrix samples the full field with over 18 million pixels, resolving fine trabecular and soft-tissue structure in a single exposure. Deep digitisation gives radiologists wide windowing latitude — bone and soft tissue read from the same image, across the panel's 40–150 kV working range.

03 – EXPOSURE DETECTION

iAED — exposure anytime, zero generator cabling

Low-power intelligent automatic exposure detection senses the beam the instant the tube fires, so the panel needs no electrical connection to the high-voltage generator. Three synchronization modes cover every installation:

MODE A

AED Inner

Panel wakes from a low-power state on Prep, senses the beam and acquires on its own — ideal for retrofit rooms.

MODE B

Freesync

No sleep state — expose whenever the detector is idle and it captures automatically. The fastest positioning-to-exposure flow.

MODE C

Software

Console-controlled Prep and Acquire sequencing through ERAY ImageSuite, with defined exposure windows for fully integrated DR rooms.

PEDIATRIC READY

Indicated for adult and pediatric general radiography

Technique guidance from neonate to adolescent is supplied with the system, and low-dose Csl performance supports the ALARA principle — exposure limited to only what is clinically necessary, in line with Image Gently Alliance recommendations for younger, more radiosensitive patients.



Designed around the working day.



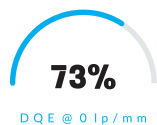
Built for the toughest rooms

The slim cassette housing slides behind patients and into any standard bucky, and takes full patient weight on the table — including 150 kg concentrated on a 4 cm circle.



Power that lasts the shift

Two rechargeable lithium packs ship in the box with an in-tray charging cradle — hot-swap and keep imaging. A DC adapter supports fixed-room installations.



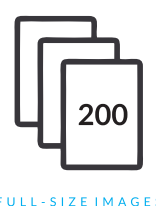
Efficient dose-to-signal conversion

High detective quantum efficiency turns more of every exposure into usable image signal — keeping noise low in low-dose, pediatric and portable studies.



Handle for grip and easy positioning

An integrated carry handle gives a secure grip for transport and one-hand positioning — behind patients, into bucky trays and at the bedside — reducing drop risk on the move.



Rapid cycle, on-panel memory

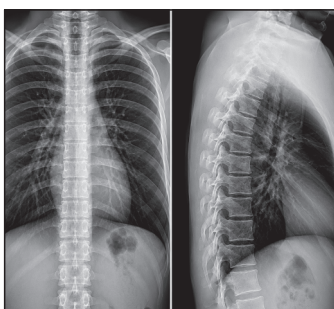
Full-resolution images arrive in seconds, and internal memory enables detector only imaging at night, at the bedside or during network outages — batch-upload later.



Edge-to-edge sharpness

Strong modulation transfer preserves fine edges, line pairs and trabecular detail across the full 17-inch field — crisp contrast where diagnosis happens.

CLINICAL IMAGING

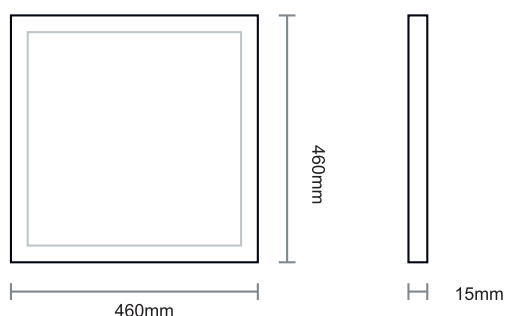


Technical Specifications.

Model	ERAY Gold 100
Detector technology	Amorphous Silicon (a-Si TFT)
Scintillator	CsI, direct deposition
Active area	17" × 17" (426.7 × 426.7 mm)
Resolution	4.2k × 4.2k
Pixel pitch	100µm
Spatial resolution	4.3 lp/mm
DQE @ 0 lp/mm	73%
MTF @ 0.5 lp/mm	87%
A/D conversion	16-bit
X-ray energy	40–150 kV
SID	90–180 cm
Weight	3.4 kg with battery
Static loading	300 kg uniform · 150 kg local (Ø 4 cm)
Ingress protection	IP56

Full image time	3sec
Internal storage	200 full-size images
WIFI	2.4G & 5G, IEEE 802.11 a/b/g/n/ac
Battery autonomy	8 hours
Battery capacity	Typ. 4900 mAh · 11.55 V
Full charging time	≤ 3 hours
Power consumption	Max 20 W, no battery charging
Operating environment	10–35 °C · 5–90% RH
Storage & transport	–20–55 °C · 5–95% RH, with package
Software	ERAY ImageSuite (CDSCO Approved)

DIMENSIONS



STANDARDS & COMPLIANCE



CONTACT

Edusoft Healthcare Limited

B 83, Mangolpuri Industrial Area, Phase 2,
New Delhi, 110083, India
Email : info@edusofthealth.com
Toll - Free : 1800 120 280 280
Web : www.edusofthealth.com

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