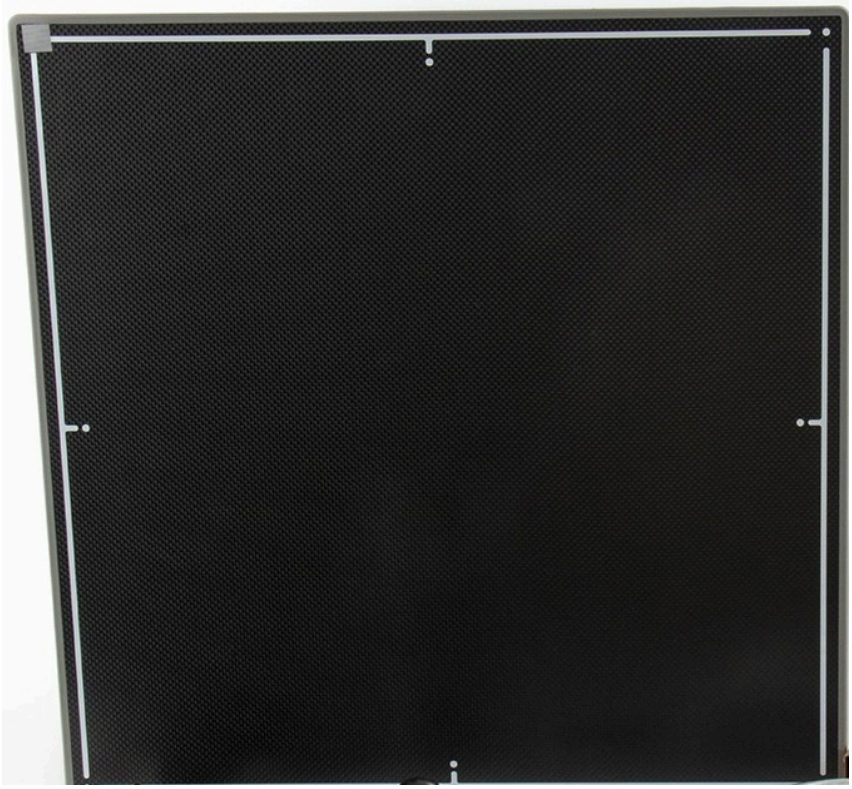
FLAT PANEL DIGITAL X-RAY DETECTOR

DR-43W

Wireless 43 × 43 cm detector

ISAIND
ADVANCED IMAGING



Take your radiography digital.

The ISAIND DR-43W is a wireless 43 × 43 cm flat panel detector with a direct-deposit CsI scintillator and 9.4 million pixels. Place it in your room's bucky or next to the patient, connect over Wi-Fi and get the image in seconds: the practical way to move from film or CR to digital radiography.

43 × 43 cm	3072²	2–4 s	Wi-Fi 5 GHz
430 × 430 mm active area	Pixel array · 140 µm	Image acquisition	Wireless + Gigabit Ethernet

IDEAL FOR

- Digital upgrades
- X-ray rooms
- Portable radiography
- Emergency care

For X-ray rooms and the ISAIND PX-5 portable unit · Installation, training and technical service by ISAIND in Ecuador

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KEY BENEFITS

Sharp digital images, cable-free and ready in seconds

High definition across the field
3072 × 3072 array with 140 µm pixels, 3.57 lp/mm limiting resolution and 16-bit A/D conversion over a 430 × 430 mm active area.

Direct-deposit CsI
The cesium iodide scintillator deposited directly on the panel delivers ~62% DQE (RQA5) and a dynamic range above 80 dB, making the most of every exposure.

Wireless and fast
Dual-band 2.4 / 5 GHz Wi-Fi and Gigabit Ethernet. Images are ready in 2–4 s and lag is below 0.02%, so you can move from one exam to the next without waiting.

Works with your generator
Exposure control via AED (automatic exposure detection), manual sync or software sync. AED detects the exposure with no wiring to the generator, ideal for upgrading existing systems.

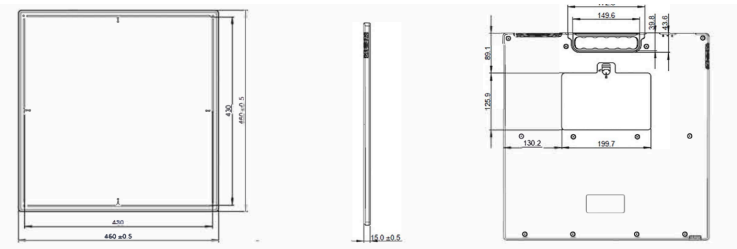
Standard cassette format
460 × 460 × 15 mm: fits standard bucky trays. The magnetic handle folds into the panel for easy carrying and positioning.

Rugged and light
Only ~4.6 kg. High-strength aluminum alloy housing with a carbon-fiber imaging surface and fanless natural cooling.



Reference kit: detector, battery, power supply and cables. Contents may vary by configuration.

Dimensions (mm)



Applications

Retrofit upgrades
Convert analog or CR rooms to digital radiography while keeping your generator and table.

X-ray rooms
Table or wall bucky use for chest, spine, abdomen and extremity exams.

Portable with ISAIND PX-5
Pair it with our ISAIND PX-5 portable unit for bedside digital radiography.

Emergency & wards
Wireless and light: quick to position wherever the patient is.

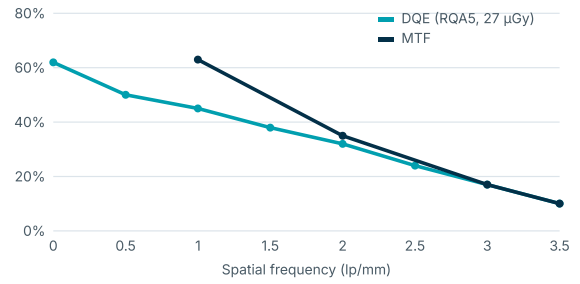
TECHNICAL SPECIFICATIONS

ISAIND DR-43W datasheet

SENSOR	
Scintillator	Direct-deposit CsI (cesium iodide)
Active area	430 × 430 mm
Pixel array	3072 × 3072
Pixel pitch	140 µm

IMAGE QUALITY	
Limiting resolution	3.57 lp/mm
MTF	~63% @1.0 · ~35% @2.0 · ~17% @3.0 · ~10% @3.5 lp/mm
DQE (RQA5, 27 µGy)	~62% @0 · ~50% @0.5 · ~45% @1.0 · ~38% @1.5 · ~32% @2.0 · ~24% @2.5 · ~17% @3.0 · ~10% @3.5 lp/mm
Maximum linear dose	70 µGy
Dynamic range	> 80 dB
Lag	< 0.02% (60 s after exposure)
A/D conversion	16 bits

MTF and DQE (approx. values)



COMMUNICATION & ACQUISITION	
Communication interface	Gigabit Ethernet · Wi-Fi 2.4 / 5 GHz
Image acquisition time	2–4 s
Exposure control	AED (automatic exposure detection) · manual sync · software sync

ENVIRONMENTAL	
Cooling	Natural cooling (fanless)
Temperature	Operating 5–35 °C · storage −20–55 °C
Relative humidity	Operating 30–75% · storage 10–90% (non-condensing)

MECHANICAL	
Dimensions	460 × 460 × 15 mm
Weight	~4.6 kg
Housing	High-strength aluminum alloy with carbon-fiber imaging surface

POWER	
Maximum power	Max. 48 VA
Power supply	100–240 V AC
Frequency	50/60 Hz

Values marked “~” are approximate. Specifications subject to change without notice; please confirm the configuration with ISAIND before purchase.

WHY ISAIND

Your move to digital radiography, with a local technical partner

ISAIND specializes in medical imaging: we refurbish, remanufacture, recondition and maintain X-ray equipment and C-arms. With the ISAIND DR-43W you get more than a detector: we help you integrate it into your room or portable unit and support you for its entire service life.

Local technical support
Engineers in Ecuador who know the system in depth, with direct support via WhatsApp and email.

Installation & setup
On-site installation, detector and workstation configuration, and functional testing with your equipment.

Training
Training for technologists and biomedical engineers: operation, battery handling and daily care of the detector.

Preventive & corrective maintenance
Maintenance plans that keep the system available and reduce unplanned downtime.

Room assessment
We review your generator, table and bucky to recommend the best way to go digital.

Remanufacturing expertise
Hands-on knowledge of generators, tubes and detectors from our refurbishment and remanufacturing work.

Still using film or CR?
The ISAIND DR-43W is designed to upgrade analog equipment: thanks to AED mode and the standard 43 × 43 cm format, in many cases it integrates without replacing the generator or the table. Send us your equipment details and we will tell you how.

FOR HOSPITALS, CLINICS, BIOMEDICAL ENGINEERS AND DISTRIBUTORS WORLDWIDE.

Request a quote or a demo

Tell us what equipment you have and which exams you perform, and we will help you define the right configuration. Clear technical answers, no obligation.

Message us on WhatsApp · +593 98 998 5755

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