

AIR DR[™] Wireless Flat Panel Detector

CsI Scintillator for Lower Dose
High Resolution 100 μm
14"x17" Cassette Sized DR



100
MICRONS

16
BIT RESOLUTION

15
MEGAPIXEL

The latest in wireless digital radiography, the *Air DR* is a flat-panel engineered with features capable of optimizing workflow and reducing repeat exposures. The detector is equipped with a directly deposited Cesium Iodide (CsI) scintillator which provides unparalleled image quality. The cassette-size *Air DR* minimizes patient dose, and improves throughput, making it an innovative Fail-Safe Detector.

The unique characteristics and performance of the *Air DR* offer unprecedented imaging freedom and peace of mind. WiFi capability allows technicians to easily capture even the most difficult and unusual images with ease. Unrivaled single-sensor technology helps eliminate positioning parameter confusion and the possibility of no-trigger and false-trigger images. Breathe easy knowing patients are protected from unnecessary repeat exposures and are receiving the most responsible care with the *Air DR*.

The *Air DR* is iCRO's most advanced, low-dose digital radiography solution backed by powerful image acquisition software. XC acquisition is a fluid workflow platform with intelligent imaging algorithms and automated processing parameters based on your procedure selection. The directed workflow allows you to acquire images with fewer clicks, saving you valuable time.

Enter the exciting world of advanced wireless, high-resolution, flat-panel technology.

Ultra-Rugged Wireless Cassette-Size
Flat Panel Detector

Fastest AED on the market
at 35 microseconds

Integrated LED
status display

Custom X-Ray Digital
Equipment Sales & Service

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Wireless Flat Panel Detector

CsI Scintillator for Lower Dose
High Resolution 100 µm
14"x17" Cassette Sized DR

Air DR wirelessly transmits to multiple terminals and portable devices for a seamless workflow.



Sensor

Panel	Amorphous Silicon active TFT/diode array
Scintillator	Direct Deposit CsI:Tl
Pixel Matrix	3556 x 4320
Pixel Pitch	100 µm

Electronics

Amplifiers	Low noise ASICs with user selectable gains
ADC	16 bit
Image Transfer Time	Wired: 500 ms; Wireless: 3000 ms
On Board Memory	1 GB DDR3 (on-board), 4 GB SDHC card (upgradeable)

Mechanical

Size	ISO 4090 cassette size 14" x 17" (35cm x 43 cm)
Active Area	True 35.5 cm x 43.2 cm
External Dimensions	38.4 cm (w) x 46 cm (l) x 1.5 cm (h)
Weight	8.4 lbs (3.8 kg)
Housing	Carbon-fiber construction

Communications

Status Display	LED display (Wifi/Battery/Sensor)
Wireless Data I/F	802.11n WiFi standard
Wired Data I/F	GigE via optional power & communication tether
X-ray I/F	Automatic Exposure Detection (AED)

Imaging Performance

Limiting Resolution	5 lp/mm
Typical MTF	70% (1 lp/mm), 40% (2 lp/mm), 15% (4 lp/mm) for RQAs
Typical DQE	75% (0 lp/mm), 60% (1 lp/mm), 40% (3 lp/mm) for RQAs

Environmental

Temperature	10 – 35°C operating
Humidity	30 – 70% RH operating (non-condensing)

Power

Battery	Rechargeable battery, 53.3 Wh
Battery Charger	External two bay charger 100-240 V AC 50/60 Hz
Interface and Power Unit	Optional AirDR IPU with external power supply 100-240 V AC, GigE, and X-ray I/F

Regulatory

Standards	IEC 60601-1, IEC 60601-2, IEC 60601-1-6, FCC 47CFR PT 15, FCC OET 65C, ETSI EN 301 893, EN 62311, ISO 10993-5, ISO 10993-10, CE
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Customizable Options

Sequence Mode	Up to 3 fps (Wired and Wireless with image buffer)
Binned Mode	*Up to 8 fps for 2 x 2 binned, 200 µm pitch for a pixel matrix of 1778 x 2160 *
Image Calibration	On-board offset, gain and defective pixel corrections
Fast Preview	4 x 4 binned quick preview image
WAP Mode	Wireless Access Point Functionality

XC™ Features

Includes XC - intuitive touch screen capable acquisition software
Smart scanning: manipulate acquired images while additional cassettes are being scanned
ICE2 image processing: further manipulate images to your preference, automatically applies proper algorithms for an anatomy
Smart search, sort, and filter options
Integration with front office management systems like RIS and EMR
Full set of annotation and measurement tools
User-preferred settings and privileges

CALL US TODAY! 800-230-XRAY | 602-439-3100