



LCIE

**LCIE SUD EST**  
Laboratoire de Moirans  
Z.I. Centr'Alp  
170, Rue de Chatagnon  
38430 MOIRANS - FRANCE

## GENERAL INFORMATION

FCCID: VPQ-EZ3NFC

### 1.1. Product description

#### BUILDING TOTAL FREEDOM IN RADIOGRAPHY

- ▶ The Pixium EZ3 is the new-generation WiFi flat panel whose characteristics and performance offer unprecedented freedom.
- ▶ While providing outstanding image and diagnosis quality, the Pixium EZ3 is designed to simplify examination conditions. The versatility and autonomy of this portable, ultra-light and robust detector optimize patient workflow.
- ▶ The Pixium EZ3 is at the cutting edge of technology, benefiting from a long experience as the pioneer in the field of wireless X-ray imaging.



DIGITAL RADIOGRAPHY

## Pixium 2430EZ3 / 3543EZ3 / 4343EZ3

### Optimal ergonomics & unlimited flexibility

- Superior image quality
- 99 micron pixel size: ideal for radiography



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DIGITAL RADIOGRAPHY

## Pixium EZ3

Building total freedom in radiography

### STATE-OF-THE-ART

- Full image in less than 4 seconds (Pixium 2430 EZ)
- Preview in less than 1 seconds

### OPTIMAL ERGONOMICS

- 2.6 kg (Pixium 3543 EZ3)
- Cassette size (ISO 4090)
- Wireless (WiFi 6)
- Up to 8-hour battery autonomy
- Robust (1.2 meter drop height)

### UNLIMITED FLEXIBILITY

Meeting all your expectations for new radiography room or mobile cart. Unequaled solution for retrofit.

Multi-share, all configurations possible:

- Several detectors in one room/one detector shared by several rooms and several equipment
- Total freedom due to automatic attachment by infrared

### Auto-detection

- Without generator synchronization

### Image storage capacity

- Multiple uses: quicker workflow for emergency, stitching, etc.
- Optimizes bed-side exams.

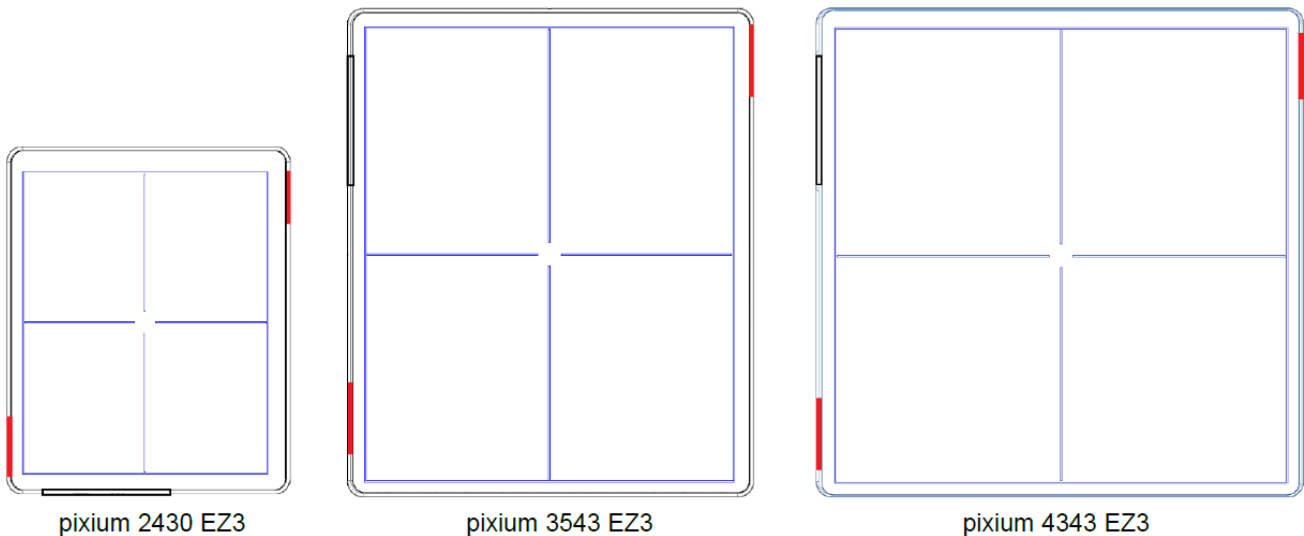
### TECHNICAL SPECIFICATIONS

	PIXIUM 2430 EZ3	PIXIUM 3543 EZ3	PIXIUM 4343 EZ3
Technology	Pixium <sup>®</sup> CsI coupled to TFT matrix aSi technology		
Pixel size	98.75 μm		
X-ray sensitive area	24 x 30 cm	35 x 43 cm	43 x 43 cm
Maximum x-ray dose	75 μGy		
Maximum linear dose	50 μGy		
X-ray generator voltage range	40 – 150 kV		
DQE @ 0 lp/mm	70 %		
AD conversion	16 bits		
High-resolution image display	< 6 seconds, Preview in 1 second		
Battery operating time	Up to 8 hours		
<b>Mechanical characteristics</b>			
Dimensions	ISO 4090 Cassette size		
Weight (including battery)	1.45 kg	2.6 kg	3.0 kg
Back up connection cable	Yes		
Watertightness	IP 67		
<b>Accessories</b>			
Battery charger	Yes, up to 3 batteries simultaneously		



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The location of Wifi's antennas are drawn in red w.r.t. connector unit in black:



	In order to avoid potentially poor data rate while using WiFi link, a good practice consists into: - avoiding other WiFi/Bluetooth devices working on the same and surrounding channels as for pixium EZ3 - avoid too large distance between the access point and the pixium EZ3.
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**[COA\_RMS\_0400]:** WiFi environment is complex and actual WiFi performances depend on local environment and installation. The System Integrator is responsible for the WiFi level of service.

**[COA\_RMS\_0570]:** The system integrator is responsible for imaging network (as support asset enabling communication) In terms of quality of service (See definition). In addition, , when used in wifi-direct legacy mode, the system integrator shall change the SSID of the detector once up a year to prevent the connection of old devices from connecting to the detector. The system integrator is responsible for the setting of the country code.

Since **pixium EZ3** can be used without any cable, it exchanges data (as commands, synchronization images...) thanks to radio frequency modules which are able to operate in the ranges 2.412GHz...2.484GHz, 5.180GHz...5.320GHz, 5.500GHz...5.700GHz and 5.725GHz...5.825GHz.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end-user.

**pixium EZ3** also contains a NFC module operating in 13.553 MHz ...13.657 MHz band.



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Symbol:






LED color / status	Meaning
	Wi-Fi available (detector connected to an Access Point)
	Wi-Fi not used (Wi-Fi switched off by software)
	Wi-Fi not ready (detector not connected to an Access Point)

Table 11: Wifi status

In Listen, Download, Error states, same behaviour as in Operating state.

In OFF state, wifi LED is OFF.

During boot, wifi LED is OFF.



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## 1.2. Tested System Details

### Equipment information (declaration of provider):

Type:	<input type="checkbox"/> RFID		
Frequency band:	[13.553 to 13.567] MHz		
Number of Channel:	1		
Antenna Type:	<input checked="" type="checkbox"/> Integral	<input type="checkbox"/> External	<input type="checkbox"/> Dedicated
Transmit chains:	1		
Receiver chains:	1		
Type of equipment:	<input checked="" type="checkbox"/> Stand-alone	<input type="checkbox"/> Plug-in	<input type="checkbox"/> Combined
Equipment arrangement:	<input checked="" type="checkbox"/> Tabletop	<input type="checkbox"/> Floor-standing	<input type="checkbox"/> Multiple orientations
Equipment type:	<input checked="" type="checkbox"/> Production model		<input type="checkbox"/> Pre-production model
Operating temperature range:	<u>Tmin</u> :	<input type="checkbox"/> -20°C	<input checked="" type="checkbox"/> 10°C*
	<u>Tnom</u> :	20°C	
	<u>Tmax</u> :	<input type="checkbox"/> 50°C	<input checked="" type="checkbox"/> 40°C*
Operating voltage:	<u>Vmin</u> :	<input checked="" type="checkbox"/> 10.2Vdc*	
	<u>Vnom</u> :	<input checked="" type="checkbox"/> 12Vdc*	
	<u>Vmax</u> :	<input checked="" type="checkbox"/> 13.2Vdc*	

\*Ask from provider

## 1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 or/and ANSI C63.10, FCC Part 15 SubPart 15B and 15C.

Radiated testing was performed at an antenna to EUT distance of 10 meters. During testing, all equipment's and cables were moved relative to each other in order to identify the worst case set-up.

## 1.4. Test facility

Tests have been performed: **February 10, 2022 to February 17, 2022**

This test facility has been fully described in a report and accepted by FCC as compliant with the radiated and AC line conducted test site criteria in ANSI C63.4 or/and ANSI C63.10.

This test facility has also been accredited by COFRAC (French accreditation authority for European Union test lab accreditation organization) according to NF EN ISO/IEC 17025, as compliant with test site criteria and competence in 47 CFR Part 15/ANSI C63.4 and EN55032/CISPR32 norms for 89/336/EEC European EMC Directive application. All pertinent data for this test facility remains unchanged.