



LCIE SUD EST
Laboratoire de Moirans
Z.I. Centr'Alp
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38430 MOIRANS - FRANCE

GENERAL INFORMATION

FCCID: VPQ-EZ3NDTNFC

1.1. Product description

1.1. INTRODUCTION

This manual describes the installation and operation of a **pixium EZ3 NDT** digital X-ray detector. It also provides information for service and safety operation. It is intended for use by a System integrator. Please read this manual carefully before performing any installation or use of a **pixium EZ3 NDT** detector.

This manual is intended to help integrators in the installation of a **pixium EZ3 NDT** detector and its first operation. The figures and data given in this manual shall be considered as indicative and are not contractual. Consult TRIXELL for additional information.

1.2. GENERAL DESCRIPTION

pixium EZ3 NDT detector is a part of a digital image acquisition chain in an overall Radiological System. It features a portable equipment designed for mobile applications.

pixium EZ3 NDT detector complies with ISO 4090 standard for the external dimensions.

1.3. DETECTOR

The detector consists of a complete carbon fibre housing. They integrate:

- LEDs indicators for internal status,
- NFC module for pairing with host system,
- ON / OFF button,
- Display,
- Connector for a dedicated cable,
- Specific connector for power supply / Ethernet link
- A removable battery,
- Identification, warning labels and RF certificate ID (refer to appendix A for label drawings).

It does not include internal lead shielding against X-rays.

1.4. DELIVERY

The standard **pixium EZ3 NDT** delivery includes:

- the detector,
- one backup cable(Cable EZ3),
- one battery (Battery EZ X),
- one battery charger (Charger EZ X),
- accompanying documentation.

Note that each customer may have a specific configuration for delivery.

The standard **pixium EZ3 NDT** delivery does not include in particular:

- an external power supply (part of the customer System),



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Please follow the below instructions before switching on the detector:

- Remove detector from its original packaging. Refer to [P3543_STR] for unpacking instructions.
- In case a power supply is available, compliant with [EIS] requirement, power connector of the Cable EZ3 shall be plugged to this power supply.
- If a charged battery is available, it can be plugged into the detector on its backside, instead to use the cable for power.
- Battery EZ X delivered in its original packaging can be plugged directly into the detector.
- Ethernet connector of the Cable EZ3 shall be plugged to network interface provided by the system and the power connector shall be connected to external power supply provided by the system
- Then the magnetic connector of the cable can be plugged to the detector. There are two possible orientations to plug this cable: both orientations can be used for proper operation.
- System shall be compatible with following default values of the detector for network compatibility:
 - host IP address : 192.168.1.5
- If this is not the case, user shall use the infra-red link or NFC to set correct network configuration to the detector.
- Configure the access point with the correct country code (please refer to user manual of access point)
- First operation shall be done either by cable or infra-red. Wi-Fi settings (Wi-Fi SSID, Wi-Fi password) shall be performed through System interface during this first operation.

1.2. Tested System Details

Equipment information (declaration of provider):

Type:	RFID		
Chipset / RF Module	PN7150		
Frequency band:	[13.553 to 13.567] MHz		
Number of Channel:	1		
Antenna Type:	<u>Internal</u>		
Transmit chains:	1		
Receiver chains	1		
Operating temperature range:	<u>T_{min}</u> :	-20 °C	
	<u>T_{nom}</u> :	20°C	
	<u>T_{max}</u> :	50 °C	
Operating voltage:	<u>V_{min}</u> (85% <u>V_{nom}</u>):	10.8	
	<u>V_{nom}</u> :	12	
	<u>V_{max}</u> (115% <u>V_{nom}</u>):	13.2	



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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: **April 01, 2025 to April 14, 2025**

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.