

Manufacturer:
Cable Detection Limited

Issue : 4
Valid From : 13/04/2015

EZICAT & DIGICAT CABLE AVOIDANCE TOOLS

Product Description

DIGICAT : 500i, 550i, 600i, 650i, 500ixf, 550ixf, 600ixf, 650ixf, 700, 750i, 750 xf

The **750i**, and **750 xf** Is The Next Generation of Locators With The Introduction of New Technical Features Which Includes :

- GPS technology
- Memory
- Bluetooth connectivity

EZICAT: - i500, i550, i600, i650, i500xf, i550xf, i600xf, i650 xf, 700, **750i**, **750 xf**.

Product Image



Scope of Acceptance

Certification Re-Issue of

EZICAT: 700, 750i, 750 xf - Cable Avoidance Tools For The Locating of Buried Services Including Metallic Pipes and Cables

DIGICAT: 700, 750i, 750 xf - Cable Avoidance Tools For The Locating of Buried Services Including Metallic Pipes and Cables

Previous Acceptance

Full Acceptance of the Digicat, **500i, 550i, 600i, 650i, 500ixf, 550ixf, 600ixf, 650ixf.**

And Ezicat: - **i500, i550, i600, i650, i500xf, i550xf, i600xf, i650xf.**

Including Transmitters: Digitex :- **100t, 300t, 100txf, 300txf** , Ezitex: - **t100, t300, t100xf, t300xf,**

Cable Avoidance Tools For The Locating of Buried Services Including Metallic Pipes and Cables

Network Rail Acceptance Panel (NRAP) hereby authorises the product above for use and trial use on railway infrastructure for which Network Rail is the Infrastructure Manager under the ROGS regulations.

Authorised by:



PP Natasha Wardrop
Product Approval Specialist

Paul Conway
(Acting) Professional Head Plant & T&RS

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Specific Conditions

The following Conditions are specific to the approved product/s contained within this Certificate. These conditions must be adhered to in addition to the Network Rail General Conditions contained within the "General Terms and Conditions" section. Failure to adhere to these conditions may result in the withdrawal or suspension of Acceptance of some, or all of the items contained within the accepted configuration.

Manufacturer

- 1) Please refer to General Terms And Condition.

User

- Equipment Operator(s) shall ensure that equipment is maintained in accordance with equipment manufacturers recommendations detailed below:
- 1) User Manual and Safety Guide.
 - 2) Equipment Operator(s) shall ensure that all staff required to use the equipment are suitably trained.

Appropriate **PPE** must be worn at all times whilst the equipment is being operated.-

- 3) Unit **Weights** are as follows:-

Digicat :- 500i, 550i, 600i, 650i, 500ixf, 550ixf, 600ixf, 650ixf, 700, 750i, 750 xf	2.7 Kg
Ezicat :- i500, i550, i600, i650, i500xf, i550xf, i600xf, i650xf , 700, 750i, 750 xf	2.7 Kg
Digitex :- 100t, 300t, 100txf, 300txf	2.4 Kg
Ezitex :- t100, t300, t100xf, t300xf	2.4 Kg
Signal Clamp	0.36 Kg
Digicat100 (Ezicat 100)	2.83 Kg
Digicat 200 (Ezicat 200)	2.83 Kg
4) Digitex 8/33 (Ezitrace 8/33)	2.95 Kg
Digtrace 50 (Ezirod 50)	7.3 Kg
Ezirod 30	7.3 kg
Ezirod 80	7.3 kg
Sonde	0.18 kg
Maxi Sonde	0.83Kg
Property Connection Set	0.15 kg
Multi Clamp	0.82 kg

Product Limitation

1. This Product **CANNOT** be used on the live Third and Fourth Rail.
2. This Product should be used in Accordance With a Safe System of Work and **GE/RT8000** Rule Book.

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Product Configuration

System or Complete Assembly

Part Number	Description	PADS Number
Cable Detection (Ezi Brand)		
813354	Ezicat i700 -Locators	094/013302
813356	Ezicat i750 -Locators	094/013303
813359	Ezicat i750xf -Locators	094/013304
798033	Ezitex t100 -Transmitters	094/013404
813361	Ezitex t100 xf - Transmitters	094/013406
813363	Ezitex t300- Transmitters	094/013405
813362	Ezitex t300xf -Transmitters	094/013407
731666	Property Connection Set - Signal Cable	094/013305
731327	Ezitex connection cable set- Signal Cable	094/013306
765876	Ezirod 30-Rods	094/013311
765877	Ezirod 50-Rods	094/013312
765878	Ezirod 80-Rods	094/013313
Leica (Digi brand)		
821246	Digicat 700i-Locators	094/013314
821248	Digicat 750-Locators	094/013315
821252	Ezicat 750ixf-Locators	094/013316
795946	Digitex 100t, transmitter	094/013399
798648	Digitex 100t xf Transmitter	094/013396
798651	Digitex 300t Transmitter	094/013398
798649	Digitex 300t xf Transmitter	094/013397
731666	Property Connection Set -Signal Cable	094/013317
731327	Digitex connection cable set-Signal Cable	094/013318
796702	Digitrace 30-Rods	094/013321
796704	Digitrace 80-Rods	094/013322
796703	Digitrace 50 -Rods	094/020051

Previous 500 and 600 Product Series

Part Number	Description	PADS Number
798640	Digicat 500ixf	094/013390
798642	Digicat 550ixf	094/013391
798644	Digicat 600ixf	094/013392
798646	Digicat 650ixf	094/013393
795939	Digicat 600i	094/013394
795941	Digicat 650i	094/013395
798648	Digitex 100txf	094/013396
798649	Digitex 300txf	094/013397

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798651	Digitex 300t	094/013398
795946	Digitex 100t	094/013399
519640	Ezicat i500xf	094/013400
519642	Ezicat i550xf	094/013401
519644	Ezicat i600xf	094/013402
519646	Ezicat i650xf	094/013403
795945	Logicat Software	094/013408
731056	Signal Clamp	094/013409
780225	Digicat 500i	094/013292
780231	Digicat 550i	094/013293
784345	Ezicat i500	094/013294
784349	Ezicat i550	094/013295
798029	Ezicat i600	094/013296
798031	Ezicat i650	094/013297
731047 (Previously part numbers 511047 and 15-0003)	Digicat 100 Cable Locator (also known as Ezicat 100)	094/020050 [No Longer supplied. Superseded by 094/013292 - 094/013295]
731049 (Previously part numbers 512049 and 15-0004)	Digitex 8/33 (also known as Ezitrace 8/33)	094/020052 [No Longer supplied. Superseded by 094/013399 [Digitex 100t] OR 094/013404 [Ezitrace t100]]
731048 (Previously part numbers 513048 and 731048)	Digicat 200 (also known as Ezicat 200)	094/020075 [No Longer supplied. Superseded by 094/013292 - 094/013295]

Assessed Documentation

Reference	Title	Date and Applies to Cert. issue No.	
Cable Detection Limited	EZiCat 700 Series Operation And User manual	13/02/2015	4
Leica Geosystems	DigiCAT 700 Series Leica Operation And User Manual	13/02/2015	4
Crange FCC & Safety – R3187.01 E8565	EZiCat DigiCAT EMC Test Report	03/01/2010	4
Crange EMC & Safety – R3186.01 E8565	EZiCat DigiCAT EMC Test Report	03/01/2010	4
Cable Detection Limited	LOGiCAT Software Declaration of Purpose	01/02/2015	4
Cable Detection Limited	LOGiCAT Software Mobile Phone Application	13/02/2015	4
Cable Detection Limited – FM 73904	Quality Management System ISO 9001: 2008	26/04/2013	4
5110119/50/LN/001	Atkins Signalling Compatibility Report	26/07/2012	4
EN ISO/IEC 17050-1	Leica –DigiCat 700i, DigiCat 750i, DigiCat 750i xf CE Declaration of Conformity.	21/07/2014	4
Cable Detection Limited	EZiCat 700i, Ezicat 750i, EZiCat 750i xf CE Declaration of Conformity	03/06/2013	4
Cable Detection Limited	Orderable Components and Accessories Part List	13/02/2015	4
Cable Detection Limited	700 Series Product Brochure	13/02/2015	4
Cable Detection Limited	Training Manual	13/02/2015	4
UBlox – UP501 – FTX-HW-12005-3	GPS Technical Details- Fastrax GPS Antenna Module –MT3329/GPS L1 CA, SBAS: WASS, EGNOS, MSAS.	01/01/2013	4
HAMA Smart Solution- EN 300 328 V1.8.1 Harmonised Standard EN301 489-1, V1.9.2 EN301 489-17 V2.2.1	Declaration of CE Conformity In Accordance With Radio And Telecommunications Terminal Equipment Act –FTEG And Directive 1999/5/EC (R&TTE Directive)	23/01/2015	4
Cable Detection Limited	EZICAT , DIGICAT 700 Series Declaration of Purpose	23/02/2015	4

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Reference	Title	Date and Applies to Cert. issue No.	
5110119/50/LN/001	Assessment of Compatibility with Signalling Systems: EZiTEX t100XF & t300XF Transmitters	14/11/2012	3
10782TC2	EMC Certification	14/11/2012	3
R3186.01/ R3187.01	EMC Certification	14/11/2012	3
Applications.ppt(t100)/ Location Equipment 600 500 series t100	Training Material	19/11/2012	3
EZISYSTEM_XF_UserManual_1-0-0_en.pdf	User manual	19/11/2012	3
EZISYSTEM_SafetyDirections_XF_1-0-0.pdf	Safety Directions	19/11/2012	3
Version 1.1	EZISYSTEM i600/i650 Safety Guide		2
Version 1.1	EZISYSTEM i500/1550 CD-ROM (contains user manual, safety guide, Brochure and Quick start guide).		2
	Declaration of purpose for EZiCAT i600 (Part No 519401) & EZiCAT i650 (Part No 519402)	01/03/ 2011	2
Version 1	EZISYSTEM i500/i550 Safety Guide		1
Version 1	EZISYSTEM i500/1550 CD-ROM (contains user manual, safety guide, Brochure and Quick start guide).		1
Version 1	DIGICAT 500i/550i Safety Guide		1
Version 1	DIGICAT 500i/550i CD-ROM (contains User Manual, Safety Guide, Brochure and Quick start guide).	21/05/2010	1
Ref Assessment(1)-Cable detection	Atkins Signalling Compatibility Report	25/11/2010	1
	Declaration of purpose for DIGICAT 500i (Part No 780225), DIGICAT 550i (Part No 780231), EZiCAT i500 (Part No 591225) & EZiCAT i550 (Part No 7519231)	01/12/ 2010	1

Certificate History

Issue	Date	Issue History
1	04/01/2011	First accepted for use
2	18/04/2011	Re-issued to include EZiCAT i600/i650.
3	23/11/2012	Re-issued to include the addition of new products known as the xf range. This application also includes the amalgamation of items on listed on certificate No PA/05/02031 .
4	13/04/2015	Introduction of the new EZiCAT 700, 750, 750Xf & DigiCAT 700, 750, 750Xf

Contact Details

Manufacturer

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Sponsor

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Network Rail
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Certificate of Acceptance

PA05/04866

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Lead Reviewer

Timi Ajasa

Network Rail –Product Acceptance

Timi.Ajasa@networkrail.co.uk

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General Terms & Conditions

1) General

- 1) This certificate can only be amended by Network Rail Technology Introduction Group. Any alterations made by a different person will invalidate the entire certificate.
- 2) Failure to abide by the requirements in this Certificate of Acceptance may invalidate the certificate, thereby restricting the right to operate the product and / or limiting the future supply and deployment of the product on the infrastructure.
- 3) Upon the review date this certificate and the product it relates to is invalid and not accepted for use. Manufacturers are to make an application for a review prior to the review date.

2) Manufacturer

The Manufacturer shall:

- 1) Ensure that all products supplied comply with the standards defined in the Acceptance Requirements or otherwise documented as part of the assessment, including meeting the reliability requirements included in the Acceptance Requirements and in any deed of warranty for the relevant certificate number.
- 2) Notify Network Rail Technology Introduction Group:
 - a. Within 48 hours, of any deficiencies affecting the quality, functionality or safety integrity of the product (Including corrective action undertaken or proposed).
 - b. Of any intended change to the accepted product; changes include:
 - i. a change to the product configuration (to the actual product or its application);
 - ii. a variation to or addition of manufacturing locations or processes;
 - iii. a change in the name or ownership of the manufacturing company;
 - iv. any changes to the ability or intention to support with technical services, spares or repairs.
- 3) The Manufacturer shall provide Network Rail Technology Introduction Group at least 12 (twelve) months notice of its intention to discontinue supply or to provide such notice as is reasonable if such discontinuance is outside its control and will offer the opportunity of a Last Time Buy to Network Rail together with date for last order placement and supply of the parts affected. The introduction of proposed alternative products shall be communicated to the Network Rail Technology Introduction Group.
- 4) Provide further copies of operating and maintenance manuals to purchasers / users of the product as necessary (including certificates of conformance, calibration etc).
- 5) Provide further copies of training manuals and an appropriate level of training to purchasers or users of the product as necessary.
- 6) Where applicable, specialist technical support, repairs and servicing of the product shall be carried out by the Original Equipment Manufacturer (OEM) or authorised agent only.
- 7) Network Rail may request information from the manufacturer to prove product compliance with clauses 1 and 2 above and reserve the right to suspend and/or withdraw any application where information is not forthcoming within a reasonable timeframe.
- 8) In accordance with Network Rail's Quality Assurance Policy Statement 2011, where the specification and/or Product Acceptance Certificates specify quality assurance classifications (QA1 to QA5) for the products, the manufacturer shall comply with the specified level of quality assurance for each product and allow Network Rail access to carry out its quality assurance checks.
- 9) The manufacturer shall give Network Rail's representatives access at all reasonable times to its premises and allow them to inspect its quality systems and production methods and, if requested, to inspect, examine and test the products both during and after their manufacture and the materials being used in their manufacture.

3) Conditions of Use

Specifies, installers, operators, maintainers, etc. using the product shall:

- 1) Comply with the certificate conditions. If a condition is not understood guidance must be sought from Network Rail Technology Introduction Group.
- 2) Check that the application of use complies with the relevant certificate's scope of acceptance.
- 3) Report any defect if it is a design or manufacturing fault likely to affect performance and/or the safe operation of the railway in writing to Network Rail Technology Introduction Group.
- 4) Inform Network Rail Technology Introduction Group in writing of a change to the product configuration (or to the actual product or its application).
- 5) Operate, maintain and service the product in accordance with Network Rail standards and Operation and Maintenance manuals as appropriate.
- 6) Be appropriately trained and authorised for the installation, maintenance and use of the product.
- 7) Only send products for repair or reconditioning to the Original Equipment Manufacturer (OEM) or authorised agent.
- 8) Users are to be aware that Product Acceptance is not a substitute for design approval.

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4) Compliance

Railways and Other Guided Systems (ROGS) Regulations

1) Where the product is to be used in areas where Network Rail is not the Infrastructure Manager (e.g. leased stations), the sponsor shall additionally obtain formal consent from the Infrastructure Manager for the locality where the equipment is to be installed. This may include a requirement for additional safety verification. The decision of that Infrastructure Manager is binding, and cannot be overridden by Network Rail except by the escalation processes established in the ROGS regulations

2) As required in Railway Group Standard GE/RT8270, at each use of this product the project or group responsible for installation and commissioning shall be required to demonstrate compatibility with:

- a. All rail vehicle types that have access rights over the area affected by the change
- b. Infrastructure managed by others
- c. Neighbours.

Railway Interoperability Regulations

3) For interoperable constituents of systems the project or group responsible for installation and commissioning shall be required to demonstrate compliance with the relevant Technical Specifications for Interoperability (TSI) where appropriate.

4) An authorisation from the national safety authority (i.e. the Railway Safety Directorate of the Office of Rail Regulation) is required before the equipment is to be used in revenue earning service.

5) Supply Chain Arrangements

1) Certificates of acceptance do not imply any particular quantity of supply nor any exclusivity of supply.

2) Products may be purchased by Network Rail or its agents, suppliers or contractors.

3) Manufacturers should note that it is not necessary to enter into any exclusive supply arrangements with resellers or other suppliers