SPX

> **Where Ideas Meet Industry**

RD7000+™

Centros™
Enabled

User Guide

Radiodetection®
AN SPX COMPANY

Preface

About this guide

This guide provides basic operating instructions for the RD7000+ locator and transmitter. It also contains important safety information and guidelines and as such should be read in its entirety before attempting to operate the RD7000+ locator and transmitter.

It is also highly recommended to register the RD7000+ locator and transmitter for the free 3 year extended warranty

This guide is intended as a portable quick reference only. For detailed instructions, please refer to the RD7000+ operation manual, which can be viewed or downloaded from the Radiodetection website at: **www.radiodetection.com**. Having accessed the Radiodetection website, go to: Downloads > Cable and Pipe Locators > User Manuals > RD7000+ Operation Manual.

Extended Warranty

Thank you for purchasing the RD7000+ locator and transmitter.

RD7000+ locators and transmitters are covered by a 1 year warranty. Customers can extend the warranty to 3 years by registering each product.

Registration and extended warranty are free and once registered users will be entitled to free software updates through Centros Manager™.

To be eligible, customers must register each product within 3 months of purchase.

Upon registration customers will receive confirmation of registration by email and this email will include a download key, this key will be required for software updates to your RD7000+ locator and transmitter.

When new software is released, registered users will receive a notification email that links to the new software download page on the Radiodetection website.

To register for extended warranty go to:
www.radiodetection.com/extendedwarranty

eCAL™

eCAL is a novel Radiodetection technique that allows the user to validate the original factory calibration of the RD7000+ locator, providing the user with the confidence that the locator continues to meet its original factory calibration. eCAL also carries out a functional test on the locator providing the user with the confidence that the locator continues to provide the same performance as it did when it first left the factory. eCAL can be carried out on site without the need to return the locator to a service centre, saving time and expense. Each time the locator passes eCAL, the user can view or print a dated eCAL validation certificate.

For a more detailed explanation of eCAL, please go to the eCAL section on page 14.

RD7000+ locator

4
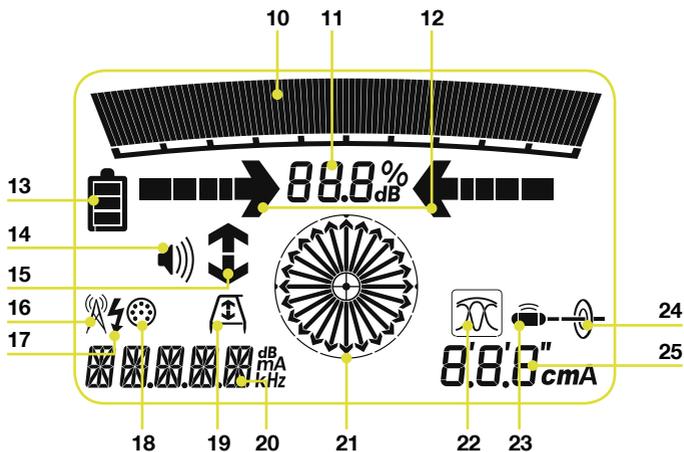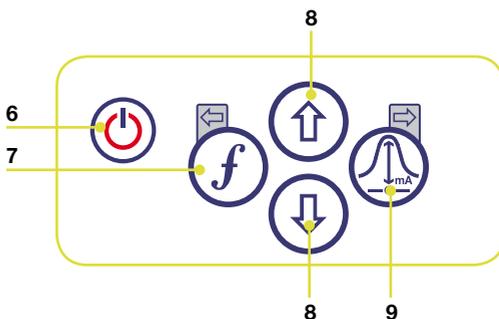
Locator features

1. Keypad.
2. LCD screen.
3. Battery compartment (USB connector inside).
4. Accessory socket.
5. Headphone jack.

Locator keypad

6. Power key: Switches the unit on and off. Opens the locator menu.
7. ƒ key: Selects frequency/Closes submenu.
8. Up and down arrows: Adjusts the signal gain/Scrolls through menu options.
9. Antenna key: Toggle between antenna modes/Open submenu: Prolonged key press toggles between depth and current display on the LCD.

Locator display icons

10. Bargraph: Indicates strength of locate signal and peak marker.
11. Signal strength: Numerical indication of signal strength and dB reading when using Fault Find mode.
12. (Proportional) Left/Right arrows: Indicates the location of the line relative to the locator.
13. Battery icon: Indicates the battery level.
14. Volume icon: Displays the volume level.
15. Fault-Find arrows (PL and TL models only).
16. Radio Mode: Indicates when Radio Mode is selected.
17. Power Mode: Indicates when Power Mode is selected.

18. Accessory indicator: Indicates when an accessory is connected and in use.
19. A-Frame icon: Indicates when the A-Frame is connected and in use.
20. Operating mode indicator.
21. Compass:
    When detecting lines – shows the direction of the located cable or pipe relative to the locator.
    When detecting sondes – shows the direction of the longitudinal axis of the located sonde relative to the locator.
22. Indicates antenna selection.
23. Sonde icon: Indicates that the unit is set to receive signals from sondes*.
24. Line icon: Indicates that the unit is set to receive signals from lines*.
25. Depth or current indicator.

    *Take care to set Line/Sonde appropriately, otherwise the Compass display and depth display will be incorrect.

Tx-1, Tx-3 and Tx-10 transmitters
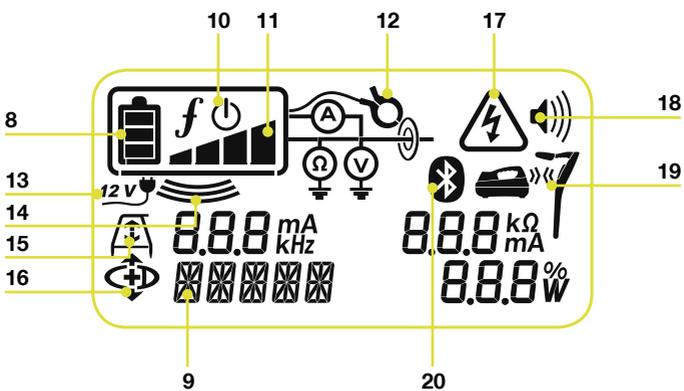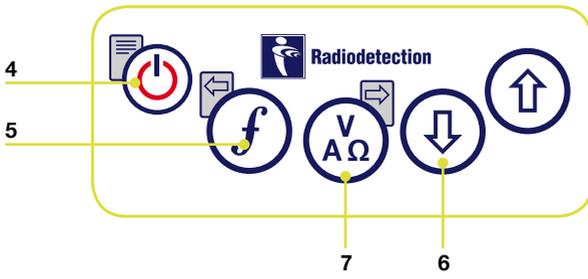
Transmitter features

1. Keypad.
2. LCD.
3. Removable accessory tray.

Transmitter keypad

4. Power key: Switches the unit on and off. Opens the transmitter menu.
5. ƒ key: Selects frequency. Menu navigation key.
6. Up and down arrows: Adjusts the output level signal. Scrolls through the menu options.
7. Measure key: Toggles measurement display between volts and current or resistance and power (Note: displayed measurements are based on the currently selected mode or the attached accessory, if applicable) / Opens a submenu.

Transmitter screen icons

8. Battery icon: Indicates the battery level.
9. Selected operation mode.
10. Standby icon: Appears when the transmitter is in Standby Mode.
11. Output level: Displays transmitter output level.
12. Clamp icon: Indicates when a clamp is connected.
13. External 12V DC icon: Appears when the transmitter is powered from an external 12V DC source.
14. Induction indicator: Appears when the transmitter is in Induction Mode.
15. A-Frame: Indicates when the transmitter is in Fault-Find Mode (Tx-3 and Tx-10 models only)

16. CD Mode indicator: Indicates that the transmitter is in Current Direction Mode (Tx-10 model only)
17. Voltage warning indicator: Indicates that the transmitter is outputting potentially hazardous voltage levels.
18. Volume icon: Displays the volume level.
19. Pairing icon (Tx-3B and Tx-10B only). For use with RD8000 locators only.
20. *Bluetooth*® icon (Tx-3B and Tx-10B only). For use with RD8000 locators only.

Before you begin

IMPORTANT! Please read this section before you attempt to operate the RD7000+!

System setup

It is important that you set up the system according to your personal preferences and operating requirements for your country before you conduct your first survey. You can set the system up using the RD7000+ menu as described below.

Using the menu

The RD7000+ locator and transmitter menus allow you to select or change system options. Once entered, the menu is navigated using the arrow keys. Navigation is consistent on both the transmitter and the locator. When in the menu, most on-screen icons will temporarily disappear and the menu options will appear in the bottom left-hand corner of the LCD. Note that when browsing the locator menu, the f and ⚠ keys act as left and right arrows. When browsing the transmitter menu the f and ⚡ keys act as left and right arrows. The right arrow enters a submenu and the left arrow accepts the selection and returns to the previous menu.

Locator menu options

- VOL: Adjust the speaker volume from 0 (mute) to 3 (loudest).

- BATT: Set battery type. NiMH or ALK.

- ALERT: Enable or disable Strike*Alert*™.

- FREQ: Enable or disable individual frequencies.

- ANT: Enable or disable any antenna mode with the exception of Peak.

- POWER: Set national power frequency: 50 or 60Hz.

- LANG: Select your preferred system language.

- CAL: Displays the date of the last factory calibration.

- UNIT: Depth readings in metric or imperial units.

To navigate the locator menu:

1. First power up the locator.
2. Momentarily press the ⏻ key to enter the menu.
3. Use the ⇧ or ⇩ arrows to scroll through the menu options.
4. Press the ⚠ key to enter the option's submenu.
5. Use the ⇧ or ⇩ arrows to select the required selection.
6. Press the ƒ key to accept your selection and return to the main menu.
7. You may continue to scroll through other menu options and make selections using instructions 3 to 6 above or alternatively momentarily press the ⏻ key to exit the menu and return to the main operating screen.

Transmitter menu options

- VOL: Adjust the speaker volume from 0 (mute) to 3 (loudest).
- BT: Enable, disable or pair *Bluetooth*® connections (Tx-3B and Tx-10B only).
- MAX V: Set the output voltage to LOW or High.
- MODEL: Set the transmitter to work with a specific model of RD7000+ locator
- MAX P: Select a specific maximum output power.
- BATT: Set battery type. ALK, NiMH or Lithium Ion.
- OPT F: Enable or disable SideStep*auto*™.
- LANG: Select the transmitter system language.
- BOOST: Boost transmitter output for a specified period of time (Tx-10 model only).
- FREQ: Enable or disable individual frequencies.

To navigate the transmitter menu:

1. First power up the transmitter.
2. Momentarily press the ⏻ key to enter the menu.
3. Use the ⇧ or ⇩ arrows to scroll through the menu options.
4. Press the 🔑 key to enter the option's submenu.
5. Use the ⇧ or ⇩ arrows to select the required selection.
6. Press the ƒ key to accept your selection and return to the main menu.
7. You may continue to scroll through other menu options and make selections using instructions 3 to 6 above or alternatively momentarily press the ⏻ key to exit the menu and return to the main operating screen.

Examples of using the menu, selecting options and making changes

Power / mains frequency (locator only)

Select the correct frequency (50 or 60Hz) for your country or region's national power supply. To change power frequency on the locator:

1. Press the ⏻ key momentarily to enter the menu.
2. Press the ⇧ or ⇩ keys until POWER is displayed.
3. Press the ⚖ locator key to enter the POWER submenu.
4. Use the ⇧ or ⇩ keys to select the correct frequency.
5. Press the ƒ key to accept your selection.

Language

To select your preferred menu language:

1. Press the ⏻ key momentarily to enter the menu.
2. Press the ⇧ or ⇩ keys until LANG is displayed.
3. Press the locator ⚖ key or transmitter ⊗ key to enter the LANG submenu.
4. Press the ⇧ or ⇩ arrows to select your preferred language.
5. Press the ƒ key to accept your selection and return to the main menu.
6. Press the ⏻ key momentarily to return to the main operation screen.

Depth Measurement Units (locator only)

The RD7000+ allows you to work in Metric or Imperial units. To select your preferred units of measurement:

1. Press the ⏻ key momentarily to enter the menu.
2. Press the ⇧ or ⇩ keys until UNIT is displayed.
3. Press the ⚖ key to enter the UNIT submenu.
4. Press the ⇧ or ⇩ arrows to select Metric or Imperial units.
5. Press the ƒ key to accept your selection and return to the main menu.
6. Press the ⏻ key momentarily to return to the main operation screen.

Battery

The RD7000+ locator and transmitter support Alkaline, NiMH or Lithium Ion batteries. It is important that you set the system to match the currently installed battery type to ensure optimal performance and correct battery level indication. To set your battery type:

1. Press the ⏻ key momentarily to enter the menu.
2. Press the ⇧ or ⇩ keys until BATT is displayed.

3. Press the locator ⊕ key or transmitter ⓐ key to enter the BATT submenu.

4. Press the ⬆ or ⬇ keys to select the correct battery type.

5. Press the ⓕ key to accept your selection and return to the main menu.

6. Press the ⏻ key momentarily to return to the main operation screen.

Locating pipes and cables

Passive Frequencies

Passive frequency detection takes advantage of signals that may already be present on buried metallic conductors. The RD7000+ supports three types of passive frequencies: Power, Radio and CPS (Cathodic Protection Signal). You may detect these frequencies without the aid of the transmitter.

Active Frequencies

Active frequencies are applied directly to the pipe or cable using the transmitter and are the preferred method of applying a signal to a conductor using the transmitter. The transmitter can apply a signal using two methods: induction and direct connection.

Induction

The transmitter is placed on the ground over or near the survey area. You select the appropriate frequency. The transmitter will then induce the signal to any nearby metallic conductors. In induction mode, using higher frequencies is generally recommended as they are induced more easily onto conductors.

Direct connection

In direct connection, you connect the transmitter output directly to the pipe or to the conductor of the cable you wish to survey. The transmitter will then apply an active frequency signal to the line, which you can locate using the locator. This method provides the best signal on an individual line and enables the use of lower frequencies, which can be traced for longer distances.

Connecting the transmitter to a pipe or line requires the use of a direct connection lead connected to the accessory socket of the transmitter. The red lead is connected to the pipe or cable and the black lead connected to an earth stake to complete the electrical circuit.

⚠ WARNING! Direct connection to live wires is POTENTIALLY LETHAL. Direct connections should be attempted by fully qualified personnel only!

Signal clamps

When it is not possible to connect to a pipe or cable using a direct connection lead, a transmitter signal clamp can be connected to the accessory socket of the transmitter and the output signal can be applied. This is particularly useful with live cables as it removes the need to disable the power and break into the line.

To locate or indentify individual lines a locator signal clamp can be connected to the accessory socket of the locator and can be clamped around individual cables or pipes that are bunched together.

Radiodetection supplies a range of signal clamps to suit many applications.

Stethoscopes

At times, it may not be possible to use a locator to locate or identify a particular target line due to inaccessibility. In these situations a stethoscope antenna should be used to locate or identify individual target lines.

Radiodetection supplies a range of stethoscopes to suit most applications. To use a stethoscope, connect it to the locators accessory socket. The locator will automatically detect the device and filter out location modes that are irrelevant.

Locating sondes

Sondes are battery powered transmitters that are useful for tracking non-metallic pipes and can be fitted to flexrods and inserted into pipes and ducting etc. The RD7000+ PL, DL and TL models can detect a range of sonde frequencies, including those transmitted by FlexiSondes and the P350 Flexitrax™ crawler.

For a detailed guide on locating sondes, please refer to the RD7000+ Operation Manual.

Fault-finding

The RD7000+ TL and PL models have the ability to detect sheath cable faults accurately using an accessory A-Frame. The Tx-3 and Tx-10 transmitters provide a fault finding signal that can be detected with an A-frame, which occurs whenever there is damage to cable sheaths.

For a detailed guide to fault-finding, please refer to the RD7000+ operation manual.

Using accessories

Radiodetection have designed a range of accessories to use with the RD7000+ locators and transmitters. These accessories can be used on a wide range of applications for applying signals to target lines, fault finding on cables, identifying individual target lines and locating plastic pipes etc. Applicable RD4000 accessories are compatible with the RD7000+ locator and transmitters.

For detailed information on accessories please see the RD7000+ operation manual or go to **www.radiodetection.com**.

Centros Manager™

Centros Manager is a Radiodetection PC application which is available as a free download. From time to time Radiodetection will release new software for the RD7000+ locator and transmitter which may improve performance, stability and may include new features. The latest software is contained within Centros Manager and to download the latest software you must register for extended warranty (see page 3 for details). Once registered you will receive an email when new versions of software are available and you may also carry out an eCAL to validate the calibration and functionally test the RD7000+ locator.

Installing Centros Manager

Note: Before download you are advised to view or download the Centros Manager operation Manual by going to **www.radiodetection.com/centrosmanager**.

Note: When you install Centros Manager onto a PC, the following message may be displayed: **"You need to log in as Administrator"**. If this message is displayed, the installation of the program will not complete. You will need to log on as an Administrator or ask a user with Administration Rights to install the program on your behalf. Having successfully installed Centros Manager, the Administrator will need to carry out the instructions in Section 7.1 of the Centros Manager Operation Manual if they wish users without Administrator Rights to use Centros Manager.

1. Go to: **www.radiodetection.com/centrosmanager**.
2. Click on the link to **download Centros Manager** and a File Download Window will appear. You will have a choice of either, Run or Save.

   Run: Centros Manager will automatically install.

   Save: you will be given the option to save Centros Manager to a destination of your choice. Once you select the destination, the Centros Manager executable program will download to that destination. Once completed you will have the option to Run or Open Folder. At this stage Centros Manager has not been installed so you can either select Run and Centros Manager will automatically install, or you can choose to Open Folder. When you open the folder the Centros Manager executable file will be available. To install double click on this file.
3. When Centros Manager is installed run from the Windows Start menu under Programs or alternatively, use the Centros Manager shortcut on your desk top if you have opted to have this during installation of Centros Manager.

Note: Once Centros Manager is open, click on Help to open the Centros Manager Operation Manual.

eCAL™

Each time you use a locator you want to be confident that the equipment you are using continues to perform to the same standard as it did when it first left the factory. eCAL provides users with the following features which maybe accessed and carried out on site, without the need to return the locator to a service centre.

- Check the validation of the RD7000+ with the original stored factory calibration results.

- Carrying out a functional check.

- Retrieving original factory calibration certificate or previous eCAL validation certificates.

To validate your RD7000+, you must first carry out the following:

1. Register your RD7000+ locator at **www.radiodetection.com/extendedwarranty**. See page 3 for more details.

2. Purchase an eCAL key at **www.radiodetection.com/ecal** or alternatively contact your local Radiodetection representative.

3. Download Centros Manager at **www.radiodetection.com/centrosmanager**. See page 13 for details.

Using eCAL to validate the RD7000+

1. Connect the RD7000+ via the USB connector inside the battery compartment to a suitable USB port on a PC or laptop.

2. Switch on the RD7000+ (no segments will be lit but the backlight will be on).

3. Open Centros Manager and click on Locator eCAL Validation.

4. Copy the eCAL key (received in your confirmation email when purchasing the eCAL key) and click on Load Validation Key icon and paste the eCAL key.

5. Click on Run eCAL Validation. A message box will automatically open informing you of progress.

6. In less than 3 minutes the eCAL Validation Status will be displayed. To view or print the certificate, locate the serial number of the RD7000+ within the Unit Manager window and expand the contents. Expand Calibration History and double click on the latest date to display the certificate of validation.

Using eCAL to retrieve the original factory calibration certificate

The original factory calibration results for the RD7000+ locator can be retrieved from the unit. Each time the RD7000+ is calibrated either at Radiodetection or an approved Radiodetection service centre, the calibration results are stored within the locator. To retrieve the results and print a certificate, carry out the following:

Note: You do not need to purchase an eCAL validation key to retrieve the original factory calibration certificate.

1. Register your RD7000+ locator by going to: **www.radiodetection.com/extendedwarranty**. See page 3 for more details.

2. Download Centros Manager by going to: **www.radiodetection.com/centrosmanager**. See page 13 for details.

3. Connect the RD7000+ via the USB connector inside the battery compartment to a suitable USB port on a PC or laptop.

4. Switch on the RD7000+ (no segments will be lit but the backlight will be on).

5. Open Centros Manager and click on Locator eCAL Validation.

6. Click on **Get Original Calibration Data** and a message box will automatically pop up displaying the progress.

7. In less than 3 minutes the original calibration certificate will be available to view or print, locate the serial number of the RD7000+ within the Unit Manager window and expand the contents. Expand Calibration History and click on each date. When you click on each date, the type of certificate, whether an eCAL validation or original factory calibration, together with date and serial number will be displayed. By clicking on this window, the certificate will be displayed and you can choose to print this certificate.

Important notices

When reporting any problems to your Radiodetection Dealer or Supplier it is important to quote the unit serial number and the purchase date.

⚠ **WARNING! This equipment is NOT approved for use in areas where hazardous gases may be present.**

⚠ **WARNING! When using the transmitter, switch off the unit and disconnect cables before removing the battery pack.**

Reduce audio level before using the earpiece.

Batteries should be disposed of in accordance with your company's work practice, and/or any relevant laws or guidelines in your country.

This instrument, or family of instruments, will not be permanently damaged by reasonable electrostatic discharge and has been tested in accordance with IEC 801-2. However, in extreme cases temporary malfunction may occur. If this happens, switch off, wait and switch on again. If the instrument still malfunctions, disconnect the batteries for five seconds and then reinstall and switch the unit on.

⚠ **WARNING! The RD7000+ will detect almost all buried conductors but there are some objects that do not radiate any detectable signal. The RD7000+, or any other electromagnetic locator, cannot detect these objects so proceed with caution. There are also some live cables which the RD7000+ will not be able to detect in Power mode. The RD7000+ does not indicate whether a signal is from a single cable or from several in close proximity.**

Copyright statement

Trademarks

RD7000, RD7000+, RD8000, RD4000, flexitrax, SurveyCERT, Strike*Alert*, Side*Step* and eCAL are trademarks of Radiodetection Ltd.

FCC and Industry Canada statements

This device complies with part 15 of the FCC Rules. Operation is subject to the following conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. To comply with the FCC RD explore compliance requirements, this device and its antenna must not be co-located or operated in conjunction with any other antenna or transmitter.

Training

Radiodetection provides training services for most Radiodetection products. Our qualified instructors will train equipment operators or other personnel at your preferred location or at Radiodetection headquarters. For more information go to: **www.radiodetection.com** or contact your local Radiodetection representative.

Service and Maintenance

The locator and transmitter are designed so that they do not require regular calibration. However, as with all safety equipment, it is recommended that they are serviced at least once a year either at Radiodetection or an approved repair center.

Radiodetection products, including this user guide, are under continuous development and are subject to change without notice. Go to: **www.radiodetection.com** or contact your local Radiodetection representative for the latest information regarding the RD7000+ or any Radiodetection product.

Warranty

Subject to the conditions set out herein, Radiodetection Limited expressly and exclusively provides the following warranty to original end user buyers of Radiodetection products. Radiodetection products include Radiodetection, Pearpoint, Telespec, Bicotest, Riser Bond, Dielectric, Mark Products and Warren G-V brands. Radiodetection hereby warrants that its products shall be free from defects in material and workmanship for one year starting from point of sale to end customer. Extensions of this warranty period are available where the same terms and conditions apply.

Product families include:

- Cable & Pipeline Location
- Pipeline Integrity
- Cable Test

- Trenchless
- Pipeline Video Inspection
- Cable Dryers

- Water Leak Detectors
- Ground Penetrating Radar

To register for an extended warranty (3 years) go to:
www.radiodetection.com/extendedwarranty

Statement of warranty conditions

The sole and exclusive warranty for any Radiodetection product found to be defective is repair or replacement of the defective product at Radiodetection's sole discretion. Repaired parts or replacement products will be provided by Radiodetection on an exchange basis and will be either new or refurbished to be functionally equivalent to new.

In the event this exclusive remedy is deemed to have failed of its essential purpose, Radiodetection's liability shall not exceed the purchase price of the Radiodetection product. In no event will Radiodetection be liable for any direct, indirect, special, incidental, consequential or punitive damages (including lost profit) whether based on warranty, contract, tort or any other legal theory.

Warranty services will be provided only with the original invoice or sales receipt (indicating the date of purchase, model name and dealer's name) within the warranty period. This warranty covers only the hardware components of the Radiodetection product. Data storage media or accessories must be removed prior to submission of the product for warranty service.

Radiodetection will not be responsible for loss or erasure of data storage media or accessories. Radiodetection is not responsible for transportation costs and risks associated with transportation of the product. The existence of a defect shall be determined by Radiodetection in accordance with procedures established by Radiodetection.

This warranty is in lieu of any other warranty, express or implied, including any implied warranty of merchantability or fitness for a particular purpose.

This warranty does not cover:

a. Periodic maintenance and repair or parts replacement due to wear and tear.

b. Consumables (components that are expected to require periodic replacement during the lifetime of a product such as non rechargeable batteries, bulbs, etc.).

c. Damage or defects caused by use, operation or treatment of the product inconsistent with its intended use.

d. Damage or changes to the product as a result of:

    i.   Misuse, including: - treatment resulting in physical, cosmetic or surface damage or changes to the product or damage to liquid crystal displays.

    ii.   Failure to install or use the product for its normal purpose or in accordance with Radiodetection instructions on installation or use.

    iii. Failure to maintain the product in accordance with Radiodetection instructions on proper .

    iv.   Installation or use of the product in a manner inconsistent with the technical or safety laws or standards in the country where it is installed or used.

    v.   Virus infections or use of the product with software not provided with the product or incorrectly installed software.

    vi.   The condition of or defects in systems with which the product is used or incorporated except other 'Radiodetection products' designed to be used with the product.

    vii. Use of the product with accessories, peripheral equipment and other products of a type, condition and standard other than prescribed by Radiodetection.

    viii. Repair or attempted repair by persons who are not Radiodetection warranted and certified repair houses.

    ix.   Adjustments or adaptations without Radiodetection's prior written consent, including:

          i.   upgrading the product beyond specifications or features described in the instruction manual, or

          ii. modifications to the product to conform it to national or local technical or safety standards in countries other than those for which the product was specifically designed and manufactured.

    x.   Neglect e.g. opening of cases where there are no user replaceable parts.

    xi.   Accidents, fire, liquids, chemicals, other substances, flooding, vibrations, excessive heat, improper ventilation, power surges, excess or incorrect supply or input voltage, radiation, electrostatic discharges including lighting, other external forces and impacts.

Notes

Notes

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