



nordicid**merlin**

QUICK GUIDE

NORDIC ID MERLIN

GETTING STARTED

1. Read the 'Safety Precautions' chapter.
2. If you need to install a SIM card, turn to page 5.
3. If you need to install a microSD card, turn to page 5.
4. Install the battery.
5. Charge the battery.
6. Power up your new Merlin.



PARTS

1. TOUCH SENSITIVE COLOUR DISPLAY
 - If needed, press and hold for 5 seconds to perform hardware reset
2. CHARGING INDICATOR
3. INDICATOR ACCORDING TO PARTICULAR APPLICATION
4. POWER KEY
 - If needed, press and hold for 5 seconds to perform hardware reset
5. OPTICAL READER
 - 1D laser scanner or 2D imager
6. BEEPER
 - Audible alarms and signals
7. DOCKING CRADLE CONNECTOR
8. BATTERY COVER
9. HANDSTRAP
10. STYLUS



Nordic ID Merlin



Nordic ID Merlin
Blade HF RFID



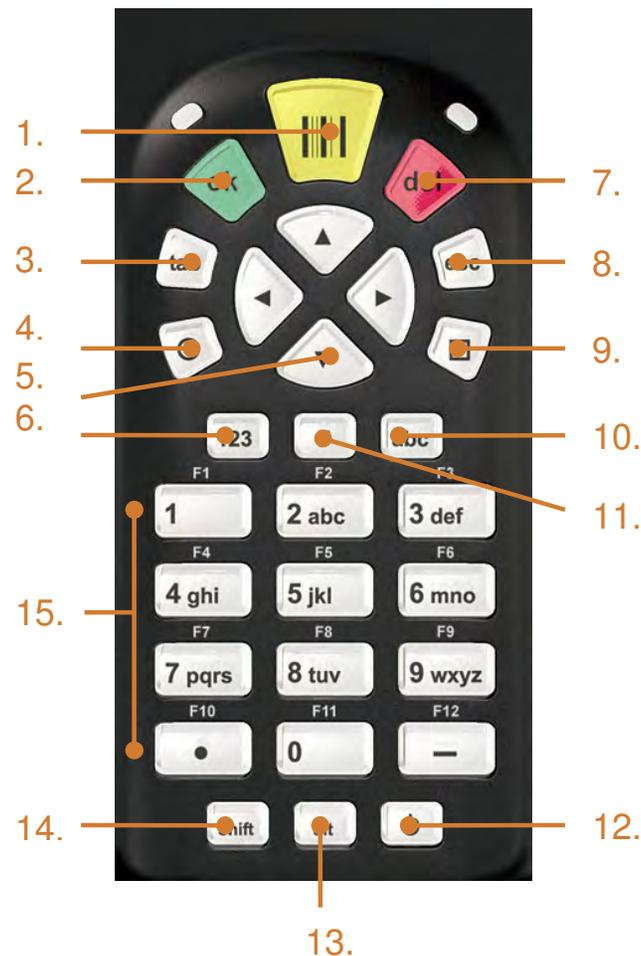
Nordic ID Merlin
Cross Dipole UHF RFID



Nordic ID Merlin
HF/UHF RFID

NORDIC ID MERLIN KEYS

1. SCAN
 - Starting-up tag reading by default optical reader
2. OK (green)
 - Functioning as conventional Enter key
3. TAB
 - Select window elements
4. CIRCLE KEY
 - Functioning according to a particular application
5. ARROW KEYS
 - Move cursor within an input field or to navigate menus
6. 123 KEY
 - Setting the alphanumeric keys to numeric mode
7. DEL (red key)
 - Deleting the character before the cursor
8. ESC
 - Cancels the operation being under way
9. SQUARE KEY
 - Toggling the soft-key input panel
10. ABC KEY
 - Setting the numeric keys to alphanumeric mode
 - Toggle between upper-case and lower-case letters
11. F KEY
 - Setting the alphanumeric keys to function-key mode
12. POWER BUTTON
13. ALT KEY
14. SHIFT KEY
 - SHIFT + OK is keylock
15. Alphanumeric keypad / Function keys



BATTERY

REMOVING THE COVER



ATTACHING THE BATTERY



INSTALLING SIM & MICRO SD CARDS

INSTALLING THE SIM CARD

The SIM card holder is inside the battery compartment. First remove the battery to access the SIM card holder. Insert SIM card until holder locks with click sound.



INSTALLING THE MICRO SD CARD

The microSD card holder is inside the battery compartment, below the battery. First remove the battery to access the microSD card holder.



NORDIC ID MERLIN CHARGERS

Nordic ID Merlin has the following chargers available: Desktop charger with USB connection, Vehicle charger with USB connection, Desktop communication charger with Ethernet and USB connections, 4-slot battery charger and 4-slot desktop charger.

DETACH THE DEVICE FROM THE CHARGER

1. Press
2. Lift



DESKTOP CHARGER
with Ethernet and
battery charging slot

4-SLOT BATTERY CHARGE



4-SLOT DESKTOP CHARGER



NORDIC ID MERLIN CHARGERS

DESKTOP/VEHICLE CHARGER AND ITS SWIVEL FASTNER

Included items:

- Charger body
- Swivel with assembly plate
- Power supply

The charger has a slot for handheld charging with locking mechanism, USB connector, power connector for power supply, and place for fixed mounting power supply.

Swivel is used for supporting the charger in desktop use and in installing the charger to wall, car etc. Swivel bottom

plate can be used in fixed installations. Swivel position can be adjusted by loosening joint screw and installing it in different position against back of the charger body.

PARTS

1. Charging connectors
2. USB cable
3. Power cable
4. Connector screw



1.



2.

3.



4.

NORDIC ID MERLIN CHARGERS

DESKTOP COMMUNICATION CHARGER

Included items:

- Charger body
- Power supply and cable (EU, UK, US)

The charger has a slot for handheld charging with locking mechanism, USB connector, Ethernet connector, power connector for power supply, and a slot for spare battery charging.

Once the communication is established the method cannot be changed without removing the handheld from the charger. If both cables are connected a USB connection will be established.

PARTS

1. Handheld charger body
2. Locking mechanism
3. Spare battery
4. Indicator led
5. USB connector
6. Ethernet connector
7. Power connector



Spare battery charging indicator led (4.) has two colors:

- RED: Battery is being charged
- GREEN: Battery is full

Charging temperature: 0°C to +40°C

Please detach an unused AC adapter from the mains to conserve electricity and environment

CHARGING

To charge the handheld:

1. Place the handheld into the charger
2. Turn on the handheld.



Charging indicator

RED: Charging

ORANGE: Over 90% full, but charging

GREEN: Fully charged

Charge the handheld for at least 8 hours before taking it into use the first time.

NOTE

Before using the device, the batteries must be fully charged.

Charging takes approx. 8 hours.

POWER ON/OFF

POWER UP THE UNIT

1. Press Power key

POWER OFF

Press the power button on the lower right corner of the keyboard. Choose the preferred power off functionality.

RESET THE DEVICE

Choose re-load Windows CE or hold down the power button for about 5 seconds.

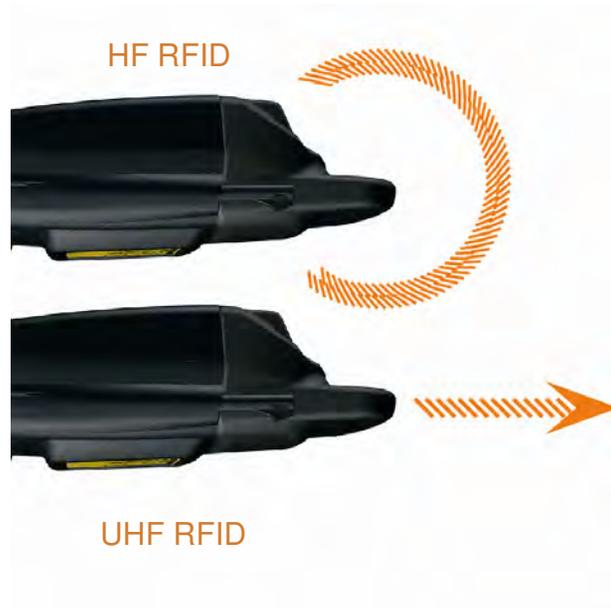
ATTACHING THE PISTOL GRIP



READING RFID TAGS

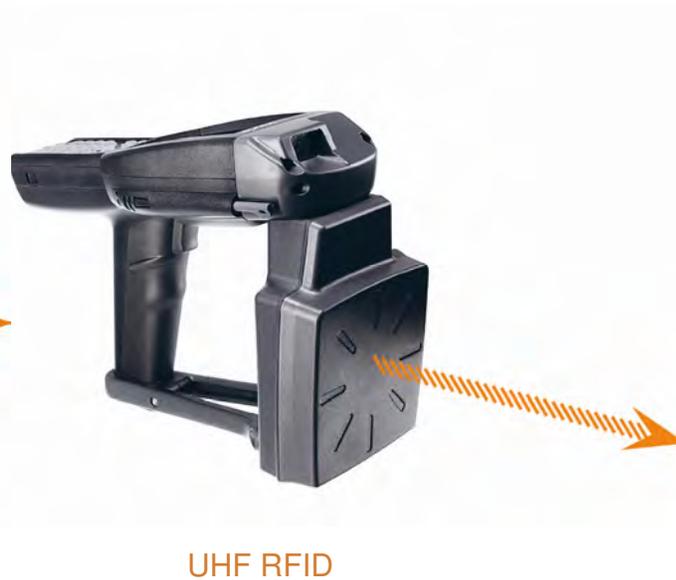
NORDIC ID MERLIN UHF & HF RFID

Optimal reading direction with Nordic ID Merlin UHF and Nordic ID Merlin HF are forward along the device axis from the top of the device. The antenna is horizontally linear polarized and provides best performance when tag polarization is aligned with the device.



NORDIC ID MERLIN CROSS DIPOLE UHF RFID

Optimal reading direction with Nordic ID Merlin models with Cross-Dipole UHF antenna is directly forward from the antenna along device axis. Antenna polarization can be software controlled between vertical, horizontal or cross polarized (default). Chosen polarization as well as other settings have effect on practical reading distance.



NORDIC ID BLADE HF RFID

POSSIBLE DIRECTION ANGLES



OPTIMAL READING DIRECTION



CARE AND MAINTENANCE

Your Nordic ID Merlin contains delicate electronic parts. Therefore it is vulnerable to environmental factors such as dirt, extreme temperatures, humidity and mechanical stress. Treat your Merlin with care. The following hints help you to preserve your device's functionality and longevity.

CLEANING

- The device can be wiped clean with a damp, non-abrasive, clean, lint-free cloth.
- Do not use harsh chemicals, strong detergents, or abrasive cleaners to clean the device.

HANDLING

- Avoid dropping the Merlin, or bumping it against other objects. Hard impacts can damage the device. Note that damages caused by careless handling are not covered by the warranty.
- The touch sensitive colour display, i.e. the touch screen, is vulnerable to mechanical stress. Do not use sharp objects or excess force on the touch screen.
- Avoid storing the Merlin in dirty, damp, hot or cold conditions. Harsh environmental factors can shorten the life of electronic components, damage batteries and warp or fracture plastics or other mechanical parts.
- When the Merlin is moved from a cold environment to a warm environment, condensation may lead to a short circuit inside the device. It is advisable to allow the device to acclimatize for several

hours, after being brought in from the cold, before powering up.

- Try to keep your Merlin dry. Wipe spilled liquids immediately with a dry, non-abrasive, clean, lint-free cloth. If the inside gets wet, open the battery cover and remove the battery to allow the inside to dry. You may power up the device again once it has dried.
- Do not open the device case. Opening the case voids the warranty.

SAFETY PRECAUTIONS

LASER



Nordic ID Merlin mobile computers, equipped with 1D laser scanner, are classified as Class 2 Laser products. The laser scanner uses the low power laser diode emitting visible light beam of 650nm wavelength with 1mW power. As with any very bright light source, such as the sun, the user should avoid staring directly into the light beam. Momentary exposure to a Class 2 laser is not known to be harmful.

The Nordic ID Merlin fulfills the regulatory requirements as follows:
Complies with 21CFR1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.
IEC/EN 60825-1:2007

BATTERY

CAUTION:

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

Use only Nordic ID BAR00008 Lithium Ion rechargeable batteries designed for Nordic ID Merlin. Using any other battery type or model involves the risk of battery explosion. Do not short circuit the battery's electrical contacts. Do not expose the battery to direct sunlight or other heat sources. Dispose of the battery according to the instructions at the end of its useful life.

Nordic ID Merlin also contains back up batteries inside the device which are not changeable. Importer of the Nordic ID devices takes care of the proper disposal of the device at the end of its useful life.

POWER SUPPLY

Check that the power supply in the box is one of the following approved power supply models, and that it is suitable for your ac mains supply:

Manufacturer	Model
EDAC	EA10402M-240
Sino American	SA130B-24U
Ten Pao	S040EM2400167
Cincon	TRG30R240V
Cincon	TRG36A24

Use only the approved power supply for charging the rechargeable batteries of Nordic ID Merlin; do not use the power supply for any other purposes.

Use the power supply indoors at normal room temperatures.

MEDICAL DEVICES

Operation of any radio transmitting wireless equipment, including the Merlin, may interfere with the functionality of inadequately protected medical devices. To avoid potential interference, a minimum separation of 20 centimetres (8 inches) between a wireless device and an implanted medical device, such as a pacemaker, hearing aid, or cardioverter-defibrillator, is recommended by the manufacturers of medical devices. Consult a physician or the manufacturer of the medical device if necessary.

POTENTIALLY EXPLOSIVE ENVIRONMENTS

Switch off your device when in area with potentially explosive atmosphere. Sparks in such areas could cause fire or an explosion. Potentially explosive environments include areas where the air contains chemicals or particles such as dust or other powders. Potentially explosive areas are often, but not

necessarily always, clearly marked. Obey all signs and instructions.

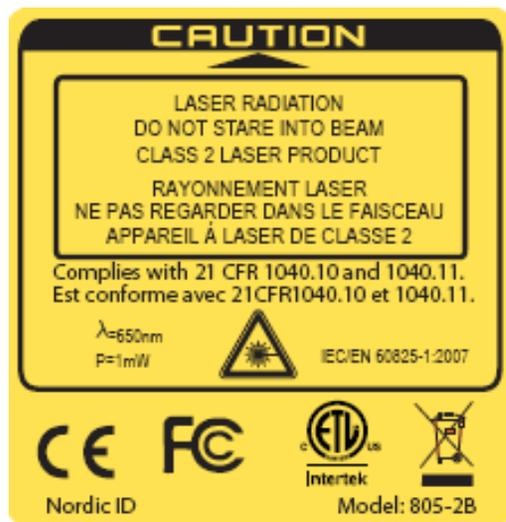
RF EXPOSURE

This hand-held device complies with EU, FCC and IC's RF radiation exposure limits set forth for an uncontrolled environment under the following condition: The device shall be used in such way that at least a distance of 20 centimeters is maintained between the Merlin device's antennas and the body of the user and nearby persons.

To hold the Merlin device in your hand in a safe way, see the page "READING RF TAGS".

PRECAUTIONS D'UTILISATION

LASER



Les ordinateurs mobiles Nordic ID Merlin, équipés avec un scanner laser 1D, sont classifiés comme produit de classe 2 Laser ayant 1mW de puissance et 650nm de longueur d'ondes. Le scanner laser utilise une faible puissance, une diode laser visible. Comme toute source lumineuse, comme le soleil, l'utilisateur doit éviter de regarder directement le rayon laser. Une exposition momentanée à un produit laser de Classe 2 n'est pas reconnue comme dangereuse.

Le NORDIC ID Merlin répond aux exigences réglementaires suivantes :

Est conforme avec 21CFR1040.10 et 1040.11 excepté pour les déviations conformément à la notice Laser No 50, datant du 24 Juin 2007, IEC/EN 60825-1 :2007

BATTERIE

ATTENTION:

Il y a un risque d'explosion si la batterie est remplacée par une batterie de type incorrect.

Mettre au rebut les batteries usagées conformément aux instructions.

Veuillez utiliser la batterie Nordic ID rechargeable Li-Ion 7,4V, étant le modèle destiné pour votre Merlin.

BAR00008 (2600 mAh / 20Wh).

Note: Utiliser d'autres type/modèle de batteries pour la mise sous tension du Merlin que ceux mentionnés ci-dessus peut provoquer l'explosion de la batterie.

Ne pas démonter la batterie.

Ne pas court-circuiter les connecteurs électriques de la batterie.

Ne pas exposer la batterie directement au soleil, ou à toutes autres sources de chaleur. Veuillez jeter la batterie selon les normes écologiques en accord avec les autorités locales et les lois et réglementations en vigueur.

Nordic ID Merlin contient également sauvegarder les piles dans l'appareil qui ne sont pas modifiables. Importateur des dispositifs de Nordic ID prend soin de l'élimination correcte de l'appareil à la fin de sa vie utile.

ADAPTATEUR AC

- Veuillez utiliser l'adaptateur AC approuvé par Nordic ID.

Fabricant de	Modèle
EDAC	EA10402M-240
Sino American	SA130B-24U
Ten Pao	S040EM2400167
Cincon	TRG30R240V
Cincon	TRG36A24

- Ne pas utiliser l'adaptateur AC pour tout autre usage que pour rechargé les batteries rechargeable du Nordic ID Merlin.
- Vérifier toujours le voltage avec celui spécifié sur l'adaptateur AC avant de brancher ce dernier.
- Veuillez utiliser l'adaptateur AC en intérieur à température ambiante.

APAREIL MEDICAUX

Pour éviter toutes interférences du Nordic ID Merlin, celui-ci doit être utilisé (et conservé) à un minimum de 20 centimètres (8 pouces) d'un appareil médical tel qu'un pacemaker, un appareil d'aide auditif ou d'un défibrillateur à synchronisation automatique en toutes situations.

ENVIRONNEMENTS POTENTIELLEMENT EXPLOSIFS

Eteignez votre appareil lorsque vous vous trouvez dans une zone potentiellement sujette à des explosions. Des étincelles dans de telles zones peuvent provoquer un incendie ou une explosion. Les zones considérées comme potentiellement explosive inclus les zones où l'air contient des produits chimiques ou des particules, poussières ou tout autres types de poudres. Les zones potentiellement sujettes à explosion sont souvent, mais pas nécessairement toujours, clairement indiquées. Veuillez obéir strictement aux signes et instructions.

COMPLIANCE WITH REGULATIONS

CE Compliance Statement



Hereby, Nordic ID Oy declares that this Nordic ID Merlin product is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC

Dansk Undertegnede Nordic ID Oy erklærer herved, at følgende udstyr NORDICID Merlin overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.

Deutsch Hiermit erklärt Nordic ID Oy, dass sich das Gerät NORDICID Merlin in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.

Español Por medio de la presente Nordic ID Oy declara que el NORDICID Merlin cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.

Ελληνική ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Nordic ID Oy ΔΗΛΩΝΕΙ ΟΤΙ NORDICID Merlin ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.

Français Par la présente Nordic ID Oy déclare que l'appareil NORDICID Merlin est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.

Italiano Con la presente Nordic ID Oy dichiara che questo NORDICID Merlin è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.

Nederlands Hierbij verklaart Nordic ID Oy dat het toestel NORDICID Merlin in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.

Norsk NORDICID Merlin er i samsvar med de grunnleggende krav og andre relevante bestemmelser i EU-direktiv 1999/5/EF.

Português Nordic ID Oy declara que este NORDICID Merlin está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.

Suomi Nordic ID Oy vakuuttaa täten että NORDIC ID Merlin tyyppin laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.

Svenska Härmed intygar Nordic ID Oy att denna NORDICID Merlin står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

NATIONAL RESTRICTIONS IN THE EUROPEAN UNION

When the Merlin device incorporates an optional 2.4 GHz wideband transmission system (transceiver), it imposes some restrictions on the use of its 2.4 GHz WLAN connectivity in France, Italy, and Latvia.

In Italy the end-user should apply for a license at the national spectrum authorities when using the outdoor WLAN set-ups and/or supplying public WLAN access to

telecommunications and/or network services.

The outdoor WLAN set-ups may not be used in France, and in some areas the RF output power may be limited to 10 mW EIRP (for detailed information, contact the national spectrum authority in France).

In Latvia the outdoor usage of the 2.4 GHz band requires an authorization from the Electronic Communications Office.

France Pour la bande 2,4 GHz, la puissance est limitée à 10 mW en p.i.r.e. pour les équipements utilisés en extérieur dans la bande 2454 - 2483,5 MHz. Il n'y a pas de restrictions pour des utilisations dans d'autres parties de la bande 2,4 GHz. Consultez <http://www.arcep.fr/> pour de plus amples détails.

Italy Questo prodotto è conforme alla specifiche di Interfaccia Radio Nazionali e rispetta il Piano Nazionale di ripartizione delle frequenze in Italia. Se non viene installato all'interno del proprio fondo, l'utilizzo di prodotti Wireless LAN richiede una "Autorizzazione Generale". Consultare <http://www.comunicazioni.it/it/> per maggiori dettagli.

Latvia 2,4 GHz frekveču joslas izmantošanai ārpus telpām nepieciešama atļauja no Elektronisko sakaru direkcijas. Vairāk informācijas: <http://www.esd.lv>.

FCC Compliance Statement



This hand-held device complies with part 15 of the FCC Rules. Operation is subject to the following two 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

ANSK	LASERLYF! SE IKKE IND I STRÅLEN! KLASSE 2 LASER!
EUTSCH	LASERSTRAHLEN! NICHT DIRECT IN DEN LASERSTRAHL SCHAUEN! LASER PRODUKT DER KLASSE 2!
ENGLISH	LASER LIGHT! DO NOT STARE INTO BEAM! CLASS 2 LASER!
ESPAÑOL	LUZ LASER! NO MIRE FIJAMENTE EL HAZ! PRODUCTO LASER DE LA CLASE 2!
FRENCH	LUMIERE LASER! NE PAS REGARDER LE RAYON FIXEMENT! PRODUIT LASER DE CLASSE 2!
ITALIANO	LUCE LASER! NON FISSARE IL RAGGIO PRODOTTO!
NEDERLANDS	LASERLICHT! NIET IN STRAAL STAREN! KLASSE-2 LASER!
NORSK	LASERLYS! IKKE STIRRINN I LYSSTRÅLEN! LASER, KLASSE 2!
PORTUGUÊS	LUZ DE LASER! NÃO FIXAR O RAIOS LUMINOSO! PRODUTO LASER DA CLASSE 2!
SUOMI	VARO LASERSÄDETTÄ! ÄLÄ SUUNTA SÄDETTÄ SILMIIN! LASER, LUOKKA 2!
SVENSKA	VARNING LASERSTÅLNING! STIRRA EJ IN I STRÅLEN! KLASS 2 LASER!

compliance could void the user's authority to operate the hand-held equipment.

FCC Compliance Notice

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help.

Industry Canada Compliance Statement

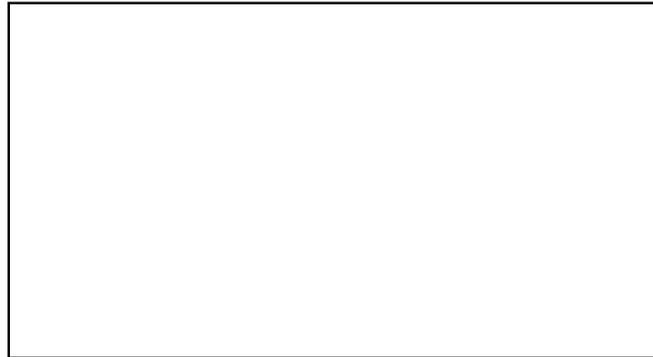
This hand-held device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two

conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

This device is intended to be operated indoors in order to prevent radio interference to the licensed service.



ETL listed



CONFORMS TO UL STD 60950-1
CERTIFIED TO CAN/CSA STD C22.2
NO. 60950-1

ГОСТ Р

Терминал ручной Nordic ID Merlin одобрен



сертификатом соответствия
ГОСТ Р № РОСС FI. AE68. В13015, срок действия с 09.02.2009 до 08.02.2012, выдан органом по сертификации продукции РОСС RU.001.11AE68 ООО «КОРПОРАЦИЯ СТАНДАРТ».

В соответствии с протоколом № 8-МРД-119, выданным 24 декабря 2008 г. испытательной лабораторией ИИР ЭМС ФГУП РЧЦ ЦФО, Nordic ID Merlin отвечает требованиям решения ГКРЧ №07-20-03-001 от 7 мая 2007 г.

Терминал ручной «Nordic ID Merlin» относится к РЭС малого радиуса действия, использование которых разрешается только в пределах зданий, сооружений, закрытых промышленных и складских площадок. Срок действия настоящего решения ГКРЧ до 01.05.2017 г.

В соответствии с п.16 извлечения из списка устройств, для которых обязательна регистрация, Постановлением Правительства РФ от 25 июля 2007 г. N 476 регистрация Nordic ID Merlin не требуется.

END USER LICENSE AGREEMENT

IMPORTANT – READ CAREFULLY THESE END USER LICENSE TERMS BEFORE INSTALLING OR USING THE SOFTWARE.

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DEFINITIONS

“Device” means the Nordic ID equipment You acquired from Nordic ID or one of its resellers and on which the Software was pre-installed or onto which it is to be installed.

“Software” means the computer program(s) licensed and installed on the Device and/or any Revisions thereto. Software may include computer programs made by Nordic ID as well as operating systems and application programs by third party licensors or other software suppliers. The Software includes any disks or media on which it is recorded and any Documentation.

“Documentation” means the materials accompanying the Software which describe its functions and how to install and use the Software.

“Revision” means any correction, modification, update, enhancement, or new version of the Software or Documentation whether printed or in electronic format (including but not limited to on-line documentation).

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LASER RADIATION
DO NOT STARE INTO BEAM
CLASS 2 LASER



EU DIRECTIVE
2002/96/EC ON WASTE
ELECTRICAL AND
ELECTRONIC
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Contact details of all repair centers can be found at www.nordicid.com

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