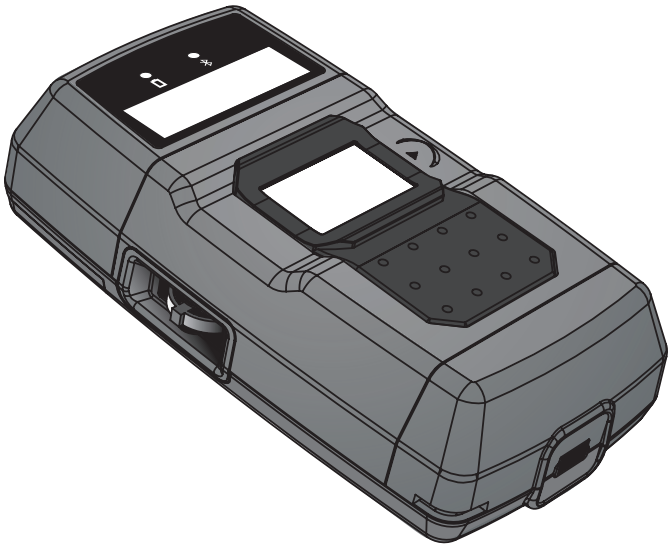
PRADOTEC

Innovation for Tomorrow

User Guide

PRADOTEC Biometric Card Reader (Bluetooth)
BCR200BT

Before operating the unit, please read the "Safety Precautions" section of this User Guide. Retain this User Guide for future reference.



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Safety Precautions

Please read through the following safety precautions carefully. Failure to comply with these guidelines will result in personal injury or damage to the unit.

- Do not expose the unit to liquid, moisture or humidity, as it is not waterproof.
- Avoid storage at extreme temperatures (above 60°C/140°F or below -10°C/14°F). This may shorten battery life, affect the operation, and may also degrade the performance.
- Do not use abrasive cleaning solvents to clean the unit.
- Do not dispose the unit in a fire, as it will result in explosion.
- The unit does not contain any serviceable parts. Do not assemble or disassemble the product. Please note that unauthorized service to the product will invalidate the product warranty.
- While connecting the unit with other device, make sure that the other device is a compatible product.
- Do not use charger from any other devices as this may damage the unit.
- Always store the PRADOTEC BCR200BT with the power switched off and safely protected.

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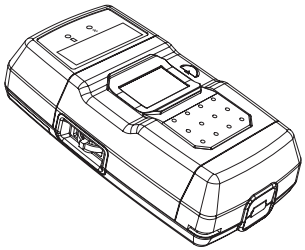
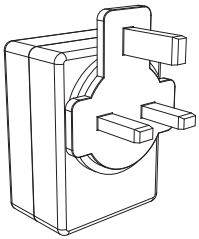
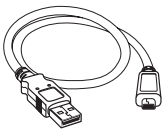
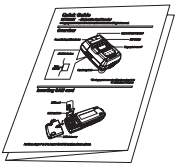
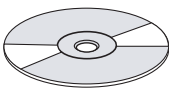
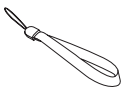
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1 Introduction

Thank you for purchasing PRADOTEC BCR200BT Biometric Card Reader (Bluetooth). The BCR200BT is a slim, compact, lightweight Biometric Card Reader with a built-in rechargeable battery. This wireless device is designed to be used with Bluetooth enabled portable devices, such as smart phones and PDAs. The details of smart card reading, enrolling, and verifying a person's fingerprint will be explained in this User Guide.

1.1 Package contents

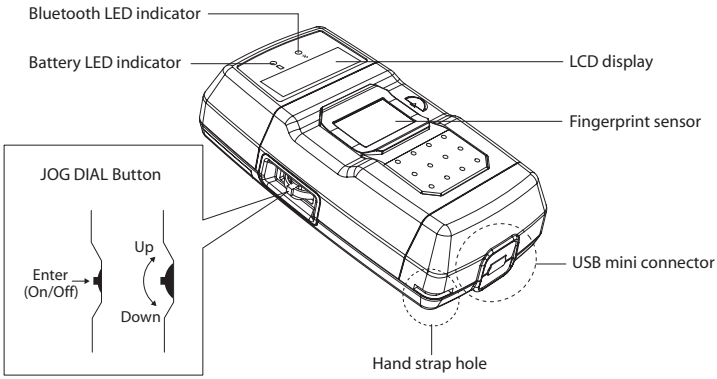
Ensure that the following items are included in your product packaging box. If any of the items are missing or appear to be damaged, please contact your distributor/reseller.

	
PRADOTEC BCR200BT Biometric Card Reader (Bluetooth)	5V 1000mA wall adapter
	
USB cable (1 meter)	Quick Guide
	
Product CD	Hand strap

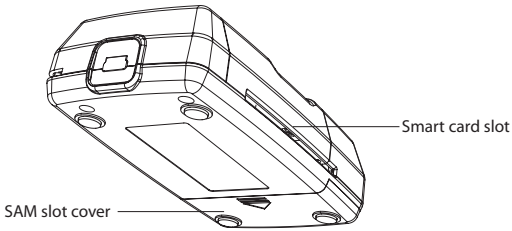
1.2 Overview

The PRADOTEC BCR200BT is compact and sleek, making it one of the smallest Bluetooth biometric card readers. The following illustrations provide some information about the unit components.

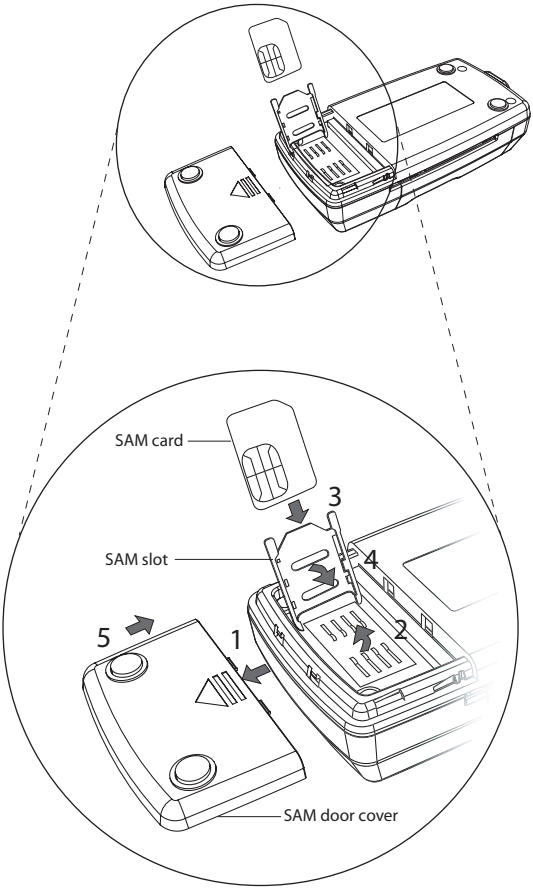
Front View



Rear View



1.3 Inserting the SAM card



1 Slide out the SAM door cover at the back of the unit.
2 Slide the slot back and use your fingertip to pull up the SAM slot.
3 Insert the SAM card with the chip facing upwards.
4 Close the SAM slot and slide back into the lock position.
5 Slide in the SAM door cover back to the unit.

⚠ Ensure USB cable is unplugged from the device and the unit is power off before inserting SAM card

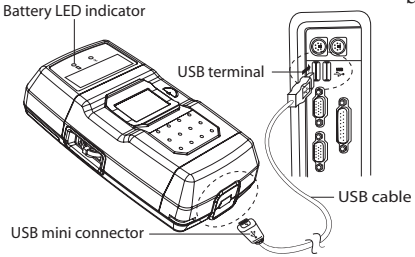
2 Getting Started

The PRADOTEC BCR200BT Biometric Card Reader (Bluetooth) is easy to operate.

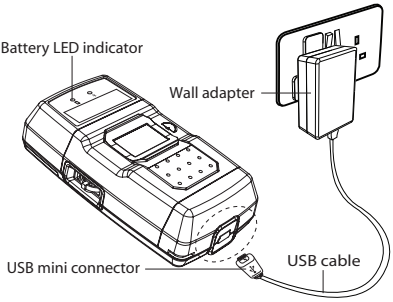
2.1 Charging the BCR200BT

This unit comes with a built-in rechargeable battery. Prior to using this unit for the first time, it is recommended to fully charge the battery for 3 hours.

a)



b)



Use only the USB cable supplied with this unit to charge PRADOTEC BCR200BT via a PC or notebook.

1 Connect the USB cable to the USB mini connector on the unit.

2 Connect the other end of the USB cable to the USB terminal of a PC / notebook / wall adapter.

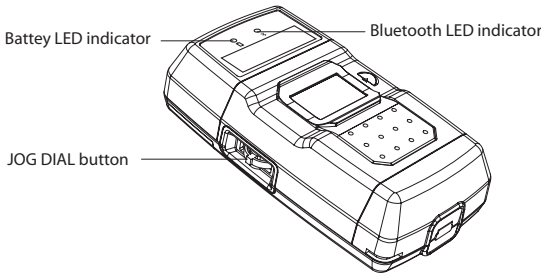
3 Look at the red LED indicator to view the battery status.

LED Indicator	Battery status
Blinking every 1 second	Battery low (0%~20% battery capacity)
Blinking every 1.5 seconds	Charging battery
Lights remained lit	Fully charged

Note

Fully charged battery offers a total of approximately 8 operating hours and 24 standby hours. This is based on PRADOTEC' test conditions.

2.2 Turning on/off the BCR200BT



Turning on

Press and hold the JOG DIAL button for 2 seconds to turn on PRADOTEC BCR200BT.

Turning off

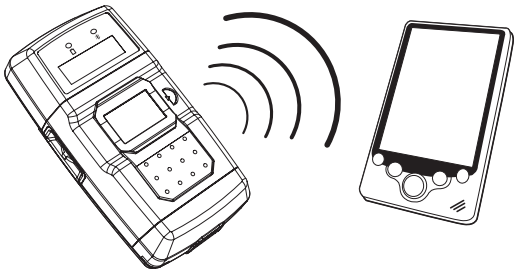
Press and hold the JOG DIAL button for 5 seconds to turn off PRADOTEC BCR200BT.

Turning on/off LED indicator

What you see	Description
Blue LED is lit for 1 second	Unit is turned on
Blue LED is blinking 5 times consecutively	Unit is turned off

2.3 Pairing with a Bluetooth Device (PDA)

Pairing will create a unique and encrypted wireless link between two Bluetooth enabled devices.



1. Ensure the unit is turned off.
2. Press and hold the JOG DIAL button continuously for 5 seconds until you see the Bluetooth and battery LED indicators are blinking alternately, then release the JOG DIAL button.
3. Set your Bluetooth device to “discover” the BCR200BT by following your host’s instruction guide.
4. On the Bluetooth device, press **Add new** device. The PDA will start searching the surrounding Bluetooth devices and displays them in the box. Select the desired device name “**BCR200BT**” listed in the box, then press **Next** to confirm.
5. Enter the passkey or **PIN = “1234”**, then press **Next** to confirm.

LED indicator during Bluetooth pairing

What you see	Description
Blue LED is blinking every 1 second	Unit in connecting mode
Blue LED is blinking every 3 seconds	Unit has successfully connected with host (Standby mode)
Blue and Red LED is blinking alternately	Unit in pairing mode

Note

- Make sure that the distance between BCR200BT and your target smart phones/PDA is not more than 1 meter apart during Bluetooth pairing.
- If Bluetooth pairing is unsuccessful, the LED indicator continues to blink. Repeat the steps above to pair your unit with a Bluetooth device.

2.4 LCD messages

The BCR200BT comes with a 32 x 128 graphical display with LED backlight to display the status during operation. The following illustration provides some information about the LCD display.



	What you see	Description
Mode	Mobile Mode	Device in mobile operation mode
Status	READY	Ready for use
	ERROR!	Error encountered
	BIO ENABLE	Biometric successfully turns on
	BIO FAIL	Biometric fails to turn on
	MATCH	Device successfully verifies fingerprint
	NOT MATCH	Device fails to verify fingerprint
	ENROLL OK	Device successfully enrolls fingerprint
	ENROLL FAIL	Device fails to enroll fingerprint
	INSERT CARD	Prompt user to insert card
	PLACE THUMB	Prompt user to place finger

2.5 Mobile operation mode

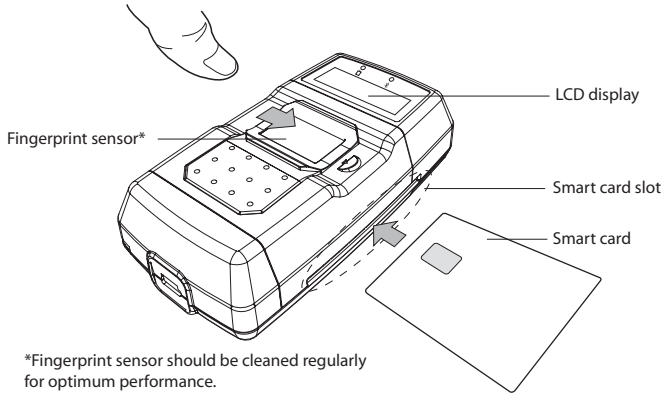
The BCR200BT mobile mode enables Bluetooth connection with Bluetooth enabled devices, that support serial port profile (SPP).

Once the devices are paired successfully, then this unit is ready to use.

Note

Bluetooth connection and other operation will be terminated once the USB cable is connected/disconnected.

2.6 Performing fingerprint verification



*Fingerprint sensor should be cleaned regularly for optimum performance.

1. Insert your smart card into the smart card slot with the chip facing upwards.
   Host application starts to verify the data in the card.
2. Look at the LCD display to view the card verification status.
   (Refer to “LCD messages” on page 11)
3. Place your finger on the fingerprint sensor for biometric verification.
4. Look at the LCD display to view the fingerprint verification status.
   (Refer to “LCD messages” on page 11)
5. Remove the card after completion.

Note

The steps above are for reference purposes only.

3 Appendix

3.1 Troubleshooting

If you are unable to connect your unit with Bluetooth-enabled devices, please try the following:

- Make sure this unit is turned on and is properly charged.
- Make sure this unit is properly paired with your Bluetooth-enabled device.
- Make sure your Bluetooth-enabled device's Bluetooth feature is activated.
- During the pairing mode, ensure that both the devices are less than 1 meter apart.
- Ensure your PDA/smart phone supports Bluetooth and serial port profile (SPP.)

If the suggestions above do not solve your problem, please consult your distributor.

3.2 Need more help?

For technical support for this product, please contact your local reseller or distributor.

3.3 Specifications

Item		Specification
Display & LED		32 x 128 Graphical Display with LED backlight
		1 x Blue LED for Bluetooth status
		1 x Red LED for Battery status
Button		1 x Jog Dial Button with up, down & enter function
Biometric Engine		Optical sensor : 500dpi, 8bits per pixel, surface 13mm x 20mm
Smart Card Interface		Compliance to ISO7816 Parts 1, 2, 3, 4
		Supports CPU-based cards with T=0 and/or T=1 protocol
		Support 3V and 5V smartcard
		Card baudrate support up to 115.2kbps
		1 x ID-1 friction contact slot with 100K duty cycle
		1 x ID-0 SAM slot
Communication Interface	Bluetooth	Ver1.2, Class 2 device up to 33 feet (10 meters) coverage
Battery		Built-in 3.7V Rechargeable lithium-polymer battery
Dimensions		98mm x 45mm x 27mm
Weight		110g (including battery)
Operation Temperature		+10°C ~ +40°C
Storage Temperature		–10°C ~ +60°C
Accessories (Subject to change)		1 meter USB Type A to Mini-B cable
		Hand strap
		Wall adapter 5V 1000mA

Design and specifications are subject to change without notice.

3.4 LIMITED WARRANTY STATEMENT

PRADOTEC Corporation Sdn. Bhd. (”PRADOTEC”) warrants that the PRADOTEC product included in the sales package (”the product”) is free from defects in material and workmanship that result in product failure during normal usage, according to the following terms and conditions:

1 The limited warranty starts at the time of the Product's original purchase by the first end-user purchaser (“Customer'). If the product comprise of different parts, the different parts may be covered by different warranty period(s). The warranty period(s) are:-

   a. one (1) year for hardware and devices manufactured by PRADOTEC;
   b. three (3) months for batteries;
   c. one (1) year for software produced by PRADOTEC; and
   d. three (3) months for consumables.

2 The warranty is valid only if original proof of purchase issued to the original purchaser for the product, specifying the purchase date is presented with the Product to be repaired or replaced.

3 The limited warranty extends only to the Customer who first purchased the Product and is not assignable or transferable to any subsequent purchaser/ end-user.

4 If the Product was purchased from a Product Developer or Dealer or Reseller or Distributor, the Customer shall return it to PRODUCT Developer, the Dealer or Reseller or Distributor from whom it was purchased, should the Product need any warranty service.

5 During the limited warranty period, PRADOTEC will repair, or replace, at PRADOTEC's sole option, any defective parts, or any parts that will not properly operate for their intended use with new or refurbished replacement items if such repair or replacement is needed because of product malfunction or failure during normal usage. No charge will be made to the Customer for any such parts. PRADOTEC will also pay for the labour charges incurred by PRADOTEC in repairing or replacing the defective parts. The limited warranty does not cover any cosmetic defects. PRADOTEC shall not be liable for any other losses or damages. These remedies are the Customer's exclusive remedies for breach of warranty. To the extent permitted by applicable law, the warrranty period will not be extended or renewed or otherwise affected due to the subsquent resale, repair or replacement of the product. The repaired part will be warranted for the remainder of the original warranty period or for three (3) months from the date of repair, whichever is longer.

6 PRADOTEC reserves the right to elect refund, instead of repair or replacement, of the price paid by the Customer for the Product less a reasonable amount for usage or depreciation, as the case may be.

7 Upon request from PRADOTEC, the Customer must prove the date of the original purchase of the Product by a dated bill of sale or dated itemized receipt.

8 The Customer shall bear the cost of shipping the Product to and from PRADOTEC, and other incidental charges that may incur in the course of the freight and delivery.

9 The Customer shall have no coverage or benefits under this limited warranty

a. The Product has been subjected to abnormal use, abnormal conditions, improper storage, exposure to moisture or dampness, extreme thermal or environment or rapid changes in such conditions, unauthorized modifications, unauthorized connections, unauthorized repair, misuse, neglect, abuse, accident, alteration, improper installation, operated outside the product or component specifications or other acts which are not the fault of PRADOTEC, including damage caused by shipping, or unauthorized service or parts, or the Product has been used in combination with other spare parts or products by other manufacturers or suppliers. Any warranty applicable to product, accessories, software and/ or service, not produced, supplied or authorized by PRADOTEC or non-PRADOTEC brand, is provided by the original manufacturer.

b. The Product has been damaged from external causes such as but not limited to collision with an object, defects caused by rough handling, or from fire, flooding, sand, dirt, windstorm, lightning, earthquake or damage from exposure to weather conditions, an Act of God, or battery leakage, theft, blown fuse, or improper use of any electrical source, damage caused by computer or internet viruses, bugs, worms, Trojan Horses, cancel-bots or damage caused by the connection to other products not recommended for interconnection by PRADOTEC.

c. The Product serial number plate or the enhancement data code has been removed, defaced or altered.

d. The Product tamper seal(s) has been damaged.

e. The defect or damage was caused by third party software problems introduced into the Product.

f. User manuals or any third party software, settings, content, data or links, whether included/ downloaded in the Product, whether included during installment or assembly, shipping or at any time in the delivery chain or otherwise and in any way acquired by the Customer.

g. The Product has minor imperfections within design specification or that do not materially alter functionality.

h. Damages caused by usage that is not in accordance with product instructions, failure to follow product instructions (e.g. as set out in the Product's user guide) or failure to perform preventive maintenance.

i. Damages caused by the combination of PRADOTEC Products with other non-PRADOTEC products, accessories, parts or components.

j. Software, including the operating system and software added to the Customer's product through PRADOTEC factory integration system, third-party software, or the reloading of software.

k. Any equipment or components that were not included in Customer's product as originally sold to Customer.

l. Normal wear and tear.

m. Cosmetic damage that does not affect functionality.

10 To the extent permissible by law, PRADOTEC does not warrant uninterrupted or error- free operation of the Product, will work with the Customer's requirements, will work with any hardware or software applications provided by a third party or that any defects in the software are correctable or will be corrected.

11 The Customer shall make back-up copies or written records of all important content and data stored whilst using the Product, because content and data may be lost during repair or replacement of the Product. To the extent permitted by applicable law(s), PRADOTEC should not under any cirmcumstances be liable, either expressly or impliedly, for any damages or losses of any kind whatsoever resulting from loss of, damage to, or corruption of content or data during repair or replacement of the product.

12 All parts of the Product or other equipment that PRADOTEC has replaced shall become the property of PRADOTEC.

13 If a problem develops during the limited warranty period, the Customer shall take the following
step-by-step procedure.

a. The Customer shall return the Product to the place of purchase for repair or replacement processing.
b. The Customer shall include a return address, daytime phone number and/or fax number, complete description of the problem, proof of purchase (if requested) and service agreement (if applicable). Expenses related to removing the Product from an installation are not covered under this limited warranty.
c. The Customer will be billed for any parts or labor charges not covered by this limited warranty. The Customer will be responsible for any expenses related to reinstallation of the Product.
d. PRADOTEC will repair the Product under the limited warranty within 30 days after receipt of the Product. If PRADOTEC cannot perform repairs covered under this limited warranty within 30 days, or after a reasonable number of attempts to repair the same defect, PRADOTEC at its option, will provide a replacement Product or replace the Products with products of identical type or refund the purchase price of the Product less a reasonable amount for usage.
e. If the Product is returned during the limited warranty period, but the problem with the Product is not covered under the terms and conditions of this limited warranty, the Customer will be notified and given an estimate of the charges the Customer must pay to have the Product repaired, with all shipping charges billed to the Customer. If the estimate is refused, the Product will be returned and freight collected. If the Product is returned after the expiration of the limited warranty period, PRADOTEC's normal service policies shall apply which is chargeable and the Customer will be responsible for all shipping charges.

14 PRADOTEC' MAXIMUM LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE PRICE PAID FOR THE PRODUCT. TO THE EXTENT PERMITTED BY APPLICABLE LAW(S) ANY IMPLIED WARRANTY OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE OR

USE, SHALL BE LIMITED TO THE DURATION OF THE FOREGOING LIMITED WARRANTY IS THE CUSTOMER'S SOLE AND EXCLUSIVE REMEDY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. TO THE EXTENT PERMITTED BY APPLICABLE LAW(S) PRADOTEC SHALL NOT BE LIABLE FOR SPECIAL, INCIDETAL, PUNITIVE OR INDIRECT LOSS OR DAMAGE OR CONSEQUENTIAL OR SPECIAL DAMAGES, HOWSOEVER CAUSED, INCLUDING BUT NOT LIMITED TO LOSS OF ANTICIPATED BENEFITS OR PROFITS, LOSS OF SAVINGS OR REVENUE, LOSS OF OR DAMAGE TO OR CORRUPTION OF DATA, PUNITIVE DAMAGES, LOSS OF USE OF THE PRODUCT OR ANY ASSOCIATED EQUIPMENT OR FUNCTIONALITY, LOSS OF CONTRACTS, COST OF CAPITAL, COST OF ANY SUBSTITUTE EQUIPMENT OR FACILITIES, INCREASED COST OR EXPENSES, DOWNTIME, THE CLAIMS OF ANY THIRD PARTIES, INCLUDING CUSTOMERS, AND INJURY TO PROPERTY, RESULTING FROM THE PURCHASE OR USE OF THE PRODUCT OR ARISING FROM BREACH OF THE WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT TORT, OR ANY OTHER LEGAL OR EQUITABLE THEORY, EVEN IF PRADOTEC KNEW OF THE LIKELIHOOD OF SUCH DAMAGES, PRADOTEC SHALL NOT BE LIABLE FOR DELAY IN RENDERING SERVICE UNDER THE LIMITED WARRANTY, OR LOSS OF USE DURING THE PERIOD THAT THE PRODUCT IS BEING REPAIRED.

15 This is the entire warranty between PRADOTEC and the Customer, and supersedes all prior and contemporaneous agreements or understandings, oral or written, relating to the Product, and no representation, promise or condition not contained here in shall modify these terms. If any term of this Limited Warranty is illegal or unenforceable, the legality and enforceability of the remaining provisions shall not be affected or impaired. This Limited Warranty shall be interpreted according to Malaysian law.

Questions concerning this limited warranty may be directed to:

PRADOTEC CORPORATION SDN BHD
Attn: Sales and Marketing Department
IRIS Smart Complex, Technology Park Malaysia, 57000 Kuala Lumpur, Malaysia
Telephone: +603 8996 0788
Facsimile: +603 8996 0448
http://www.pradotec-global.com