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M-STATION®

Mobile Office System for Enterprise

Wireless reimbursement & enterprise mobile office solution systems integrating
iPAQ Pocket PC, wireless modem or LAN, card reader & thermal Printer.



Vega Infotek Co., Ltd.

ISO9001-ANZIC Code 7834

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MOBILE OFFICE
M-STATION®

U s e r M a n u a l



Mobile Office System for Enterprise

M-STATION® of VEGA INFOTEK Co., Ltd. is powered by iPAQ Pocket PC.

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FCC NOTICE

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES.
OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITION:
(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND
(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED,
INCLUDING INTERFERENCE THAT MAY CAUSE UNDERSIRED
OPERATION.

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 communication. 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.

NOTE : The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment.
Such modifications could void the user's authority to operate the equipment.

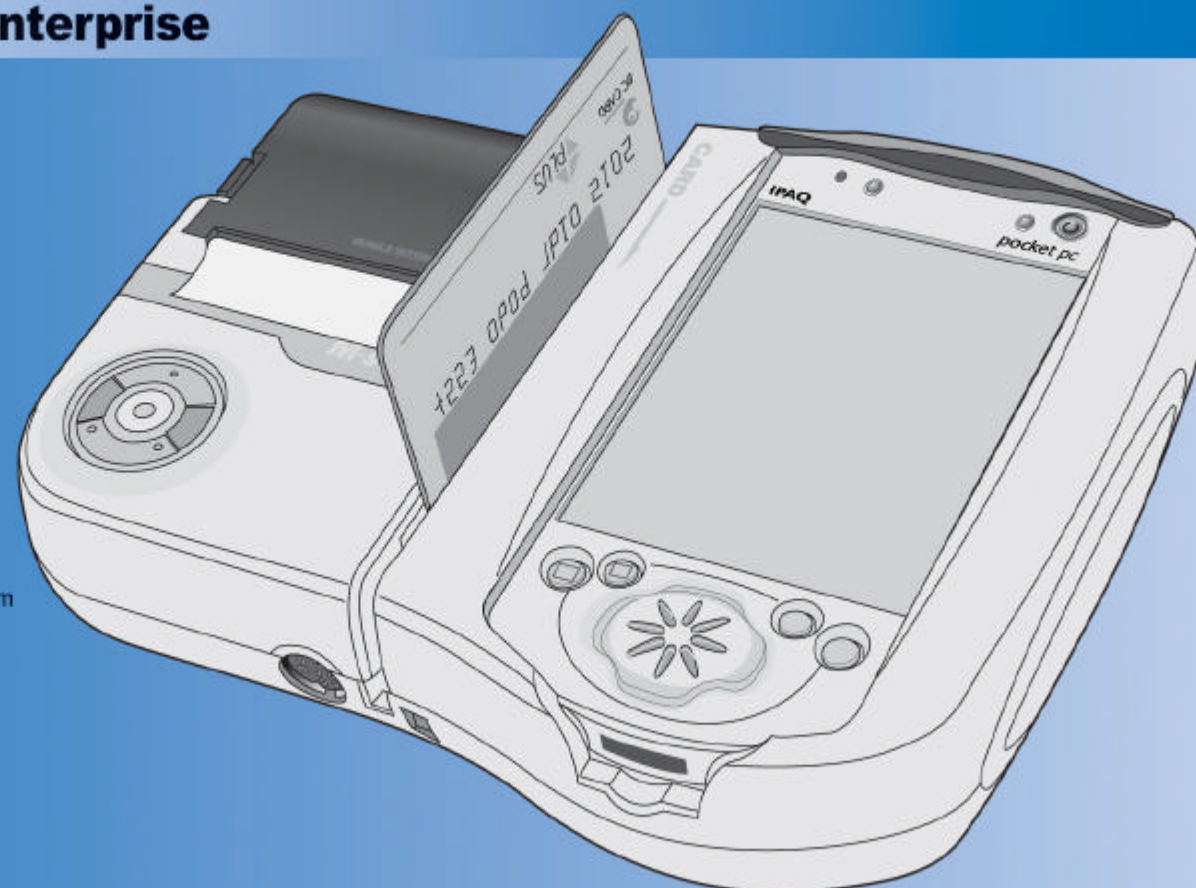
Mobile Office System for Enterprise

VèGA-INFOTEK will do our best

to make the customer satisfactorion and
to develop our technology
for the needs of customer and you.

M-STATION

Wireless Reimbursement & Mobile Office System
for Enterprise integrating IPAQ Pocket PC,
wireless modem or LAN,
card reader & thermal Printer.



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Configuration and Functions

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Component Check

After purchase, please make sure to read the manual before starting to use the product. Please check your package to make sure it includes all the hardware components listed right side. If there is any item missing, please contact your retailer or M-STATION Helpdesk.



Body



Battery



※Printer Paper



Input : AC 100~250 V,
50~60 Hz / 1.0 A
Output : DC 5V, 2.0 A /
8.4 V, 800mA



Adapter connection
cord



User Manual

Information

※Printer Paper

- Printer paper is already loaded into the printer.

① Thermal Printer

Print out card receipt / slip / detailed accounts, etc

② Print Cover : Open/Close the printer cover

③ Control Buttons : Refer to Page 7

④ Serial Port & Charger Port

Connect the peripherals and charger (Refer to the mark, ※)

⑤ DC Jack for iPAQ Pocket PC

Charge iPAQ Pocket PC (Refer to the mark, ※)

⑥ USB / RS 232C :

Connect with the peripherals iPAQ Pocket PC

⑦ Card Reader :

Enter the credit card information

⑧ iPAQ Pocket PC : Separately sold

⑨ IrDA : Infrared communication port to send and receive data of iPAQ Pocket PC, Printer, or Card Reader

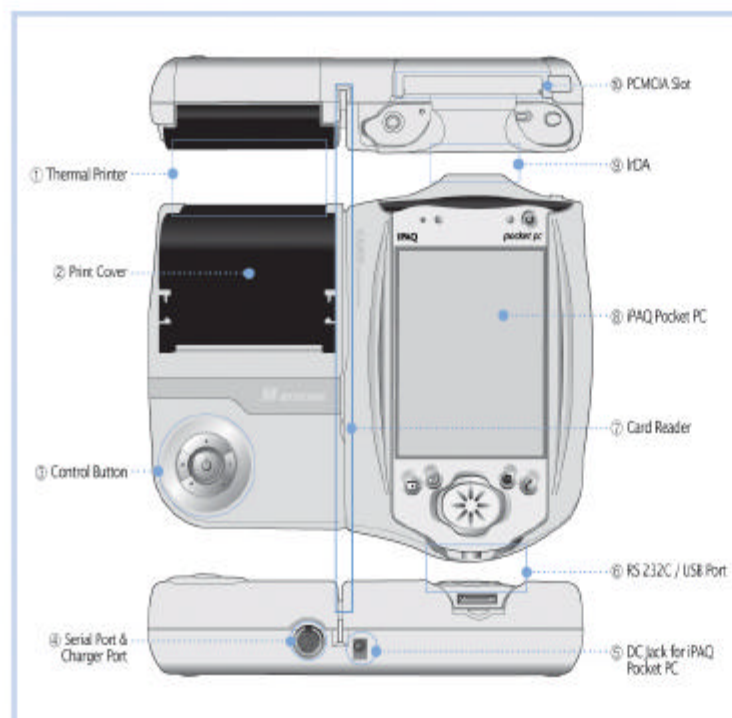
⑩ PCMCIA Slot : PCMCIA Slot to mount wireless modem, wireless LAN card and others.

Information

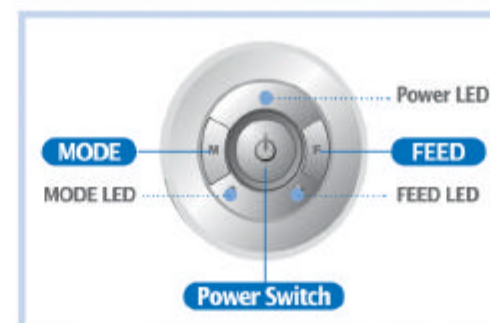
※ The item number ⑤ is applied to the re-charger provided for iPAQ Pocket PC only. Using this to other re-chargers may damage the product and the Company shall not take responsibility for the damage resulting from the misuse.

※ Do not charge the product using the charger porters of ④ and ⑤ at the same time. This might harm the product and the Company shall not take responsibility for the damage resulting from the misuse.

Name and Main Functions



About the Control Button



• Button

- **POWER** : Turn on/off the power of the product.
- **MODE** : Conduct a test when there is anything wrong found with the card reader.
- **FEED** : Conduct a test by moving the paper by one line on each pressing of the button when there is anything wrong found with the printer or others.

• Indicating LED Lamp

- **POWER LED** : Indicator of the operation of the printer section. The red light implies a battery shortage so the battery needs to be recharged.
- **MODE LED** : MODE LED blink indicates that the card is being read.
- **FEED LED** : Indicates an error message such as shortage of paper, the opening of the printer cover, etc.

How to use

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Inserting and Removing the Battery

Take out the battery from the package and install in the product.



1. Insert the battery in the groove at the bottom of the rear side of the product.



2. Press it to the arrow direction until it snaps.

3. Removing the battery - Follow in the reverse order of battery inserting to remove the battery.

Information

Sending and Receiving Part of the M-STATION

- Make sure to maintain the sending and receiving part of iPAQ Pocket PC product closed to enable the relevant functions to work properly.
- Open the sending and receiving part of IrDA before removing iPAQ Pocket PC.

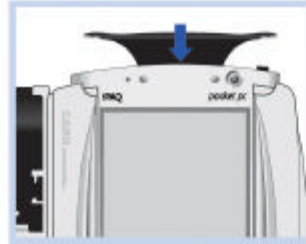


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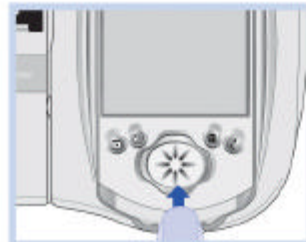
Inserting and Removing iPAQ Pocket PC



1. Carefully open the receiving and sending part of IrDA.



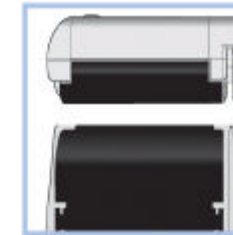
2. Press it to the arrow direction until it snaps.



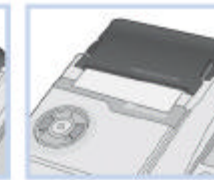
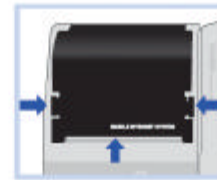
3. Removing iPAQ Pocket PC
- Follow in the reverse order of PDA inserting to remove it.

About the Printer

- **Thermal Printer**
 - **Direct Thermal Line Printing**
 - **Dot Density** : 203 DPI
 - **Printing Width** : 48 mm
 - **Paper Width** : 58mm
 - **Characters per Line** : 42 (English)
21 (Korean)
 - **Printing Speed** : 50 mm / sec.
 - **Receive Buffer Size** : 20 K bytes



Changing the Printer Paper

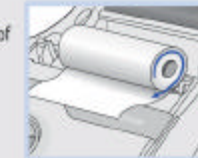


- **Feature and General Specifications of the Paper**
 - **Paper Type** : Special Thermal Printing paper
 - **Years of Preservation** : 5 years (distinguishable with naked eyes)
 - **Printer Chromophore Level** : 140 or above
 - **Printer Chromophore Level** : 140 or above
 - **Paper Thickness (μm)** : 70 ± 5
 - **Paper Weight (g/m²)** : 64 ± 3
 - **Evenness Level (sec)** : above 500
 - **Whiteness Degree (%)** : 80 or above
 - **Paper Length (mm)** : 7,000

Information

Direction of the Printer Paper

- The paper should be placed in the direction of bottom to up (the printer).



※The special printer paper that the Company supplies can be kept over a long period of time.

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Charging the Battery

The battery should be inserted to the product.



Notes for Charging

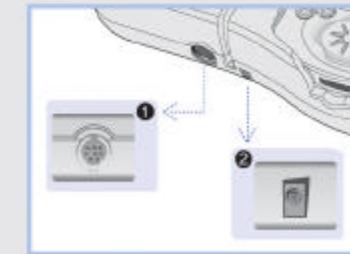
1. Charge it using Port ① while the iPAQ Pocket PC is inserted :
Simultaneous M-STATION and iPAQ Pocket PC charge
2. Charge it using Port ② while the iPAQ Pocket PC is removed:
M-STATION Charge
3. Charge it using Port ② and charger for iPAQ Pocket PC :
iPAQ Pocket PC Charge

Battery Charge Time	
Complete discharge → Charging	4 ~ 5 hours
Partial discharge → Charging	3 ~ 4 hours

Information

Charging the Battery:

- ※ Do not charge using two ports at the same time.
Simultaneous use of ports in charging may cause a serious damage for which the Company shall take no responsibility.



Test

Self Test

Conduct a self-test to confirm a normal operation of the product.

■ Printer Operation Test :

• Turn on the power while pressing the Feed Button in a normal operation to get the printing-related details printed out.

■ Card Reader Operation Test :

• In a normal operation, turn on the power while pressing the Mode Button to see the Mode LED blink. And the beep sound will come off when the card reader recognizes a card.

※ When it does not function as normal as described above, contact your retailer or HelpDesk.

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Information on Safety

Warning

- Taking apart the product may damage the product. This damage is not to be compensated for.
- For any problem found on the product, request after service from a designated technician.
- Do not put the product near equipment emitting electronic magnetic field since it may lead to an operational error.
- Make sure that the product is not drenched in rain or get damp.
- Do not install a modem or connection cable in thunderstorm.
- Please refer to the note in the relevant manual provided by suppliers when installing or changing the modem.
- Do not use the modem to report gas leakage in the area where gas is leaked.

Lithium Ion Battery Disposal

- Make sure not to apply shock to the battery nor disassemble it.
- Make sure to use the designated charger only.
- Make sure that the battery terminals are not in touch (or short circuited) with conductors such as necklace, coin, etc. (It may result in an electric shock.)
- Make sure not to use a damaged lithium ion battery and immediately dispose of damaged ones.
- An unauthorized battery modification may result in an explosion.
- Ensure to use the same type of battery that the manufacturer recommends.
- Do not disassemble the battery or put it in the heat of 100° C or above or burn it.
- Make sure to dispose of the fully used battery immediately after it is found fully used.
- Place the product out of reach of a child.
- Make sure not to use the battery for other purposes than for the product.

Information

When charging a battery :

- ※ Do not use two charging ports simultaneously when charging the battery. It may cause a serious damage to the product, for which the Company takes no responsibility.

Information

When disposing of the battery

- ※ Dispose of the battery properly when its life span reaches its end.
- ※ Make sure to check and follow the disposal instruction by region (some regions do not allow the disposal of the Lithium Ion Battery at home or in office).

Standards and Features

- **Dimensions** (Length × Width × Height) : 180×144×38(mm)
- **Weight** : 390g (Including battery)
- **Temperature** Operating Temperature : 0 ~ 40℃
 Storage Temperature : 10 ~ 50℃
- **Humidity** Operating Humidity : 30 ~ 80 %
 Storage Humidity : 10 ~ 90 %
- **Battery** (Detachable) : 7.2V, 1.2A, Li-ion

- **PCMCIA Slot :**
PCMCIA Type II

- **Card Reader**
 - Standard MSR
(Magnetic Stripe Reader)
 - ISO 7810, 7811, 7812
 - Dual Track



Accessories



Leather Carrying Case



Auto Charger



Bar Code Scanner



Fingerprint Recognizer



GPS

Applications



Sales Management

- Pharmacists / Distributors
- Logistics system
- Agent sales management
- Sales management of wholesaler/retailers

Logistics Management

- Logistics and home, delivery business
- Transportation business
- Distributors' warehousing works

Mobile Administration

- Delinquent taxes & dues management
- Illegal car stop/parking management
- Tracing-down of towed cars
- Checking with wanted or stolen cars

Remote Management

- Production and work-site management
- Monitoring of working environment and facilities
- Facilities-checking system
- Remote maintenance and repair of vessels and vehicles

Facilities Management

- Construction association
- Facilities-managing entities
- Facilities-managing complex
- General manufactures
- Facility manufacturers

Stock Info. System

- Stock corporation
- Investors

Maintenance Management

- Household products and appliances-selling entities

- Professional A/S entities

Portable EDI Terminals

- Trading-related entities
- Shipping or logistics corporations

Railroad Service

- Mobile ticket-checking system
- Reservation management system
- Car repair and checking

Vehicle Tracking System

- Transportation corporations
- Logistics and home-delivery corporations
- General cargoes

Mobile POS System

- Restaurant (Order —Credit Card Payment —Receipt Output)
- Department Store / Discount Store / Store
- Oil Station