



EC5000i User Manual

(Last revision 10/22/2003)

This manual, the EC5000i series User Manual, is intended for all units (EC50XXi) belonging to the EC5000i family. EC5000i is a trademark of RDM Corporation. All brand names and trademarks appearing in this guide are the property of their respective holders.

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FCC Compliance NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the fuser will be required to correct the interference at his own expense.

If an internal modem is present: The EC5000i is designed to be used on standard device telephone lines. It connects to the telephone line by mean of a standard jack (USOCRJ-11 C). An FCC compliant telephone cord and modular plug are provided with the equipment, which is designed to connect to the telephone network or premises wiring using a Part 68 compliant compatible jack. Connection to telephone company provided coin service is prohibited. Connection to party line service is subject to state tariffs. **Telephone Company Procedures:** The goal of the telephone company is to provide you with the best service it can. In order to do this, it may occasionally be necessary for them to make changes in their equipment, operations or procedures. If these changes might affect your services or the operation of your equipment, the telephone company will give you notice, in writing, to allow you to make any changes necessary to maintain uninterrupted service. In certain circumstances, it may be necessary for the telephone company to request information from you concerning the equipment which you have connected to your telephone line (FCC registration number and ringer equivalence number - REN. See underside of EC5000i unit). In order to assure proper service from the telephone company, the sum of all REN's on each telephone lines should be five or less. In some cases, a sum of five REN's may not useable on a give line. **If Problems Arise:** If any of your telephone equipment is not operating properly, you should immediately remove it from your telephone line, as it may cause harm in the telephone network. If the telephone company notes a problem, they may temporarily discontinue service. When practical, they will notify you in advance of this disconnection. If advance notice is not feasible, your will be notified as soon as possible. When you are notified, you will be given the opportunity to correct the problem and informed of your right to file a complaint with the FCC. Contact your telephone company if you have any questions about your phone line. In the event repairs are ever needed on the EC5000i, they should be performed by RDM Corporation of an authorized representative of RDM Corporation (by going through the Federal Reserve Bank of Cleveland). For information, contact The Federal Reserve Bank of Cleveland at 800-624-1373, or 216-579-2112, or for military personnel dial DSN 510-4-2-86824, option 6, option 4.



Requirements & Recommendations

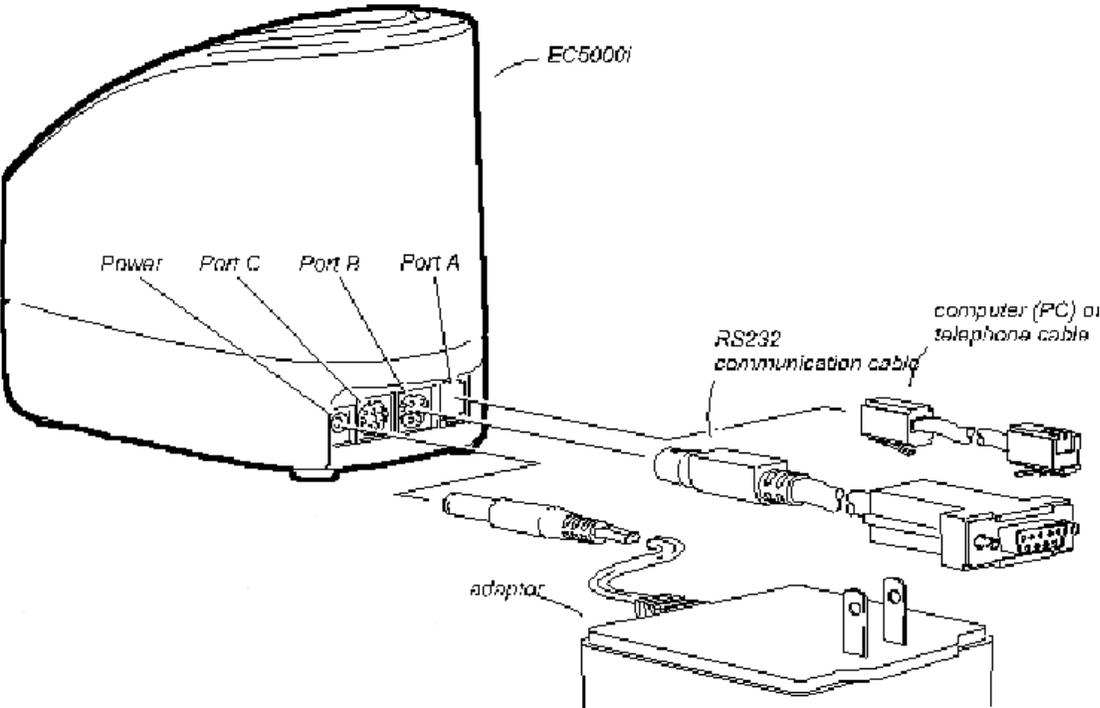
Requirements

- The EC5000i is for indoor use only. Keep the EC5000i dry and avoid placing it in areas of high humidity
- The EC5000i must be used with the power adaptor supplied in the original shipping container, power adaptor model number MD482405. Connect the power adaptor to a 120V AC60 Hz electrical outlet.
- The EC5000i contains hazardous high voltage. Do not remove any cabinetry other than the outer cover referred to in the cleaning section of this guide.

Recommendations

- This unit may be installed and programmed by a distributor (installer) other than the original manufacturer. **Record all distributor contact information** (name, address, phone no ...) for future reference.
- **Save the original box** and packing material. Re-use them if the unit has to be shipped to a new location or returned to the distributor.
- **Position the unit** so that the operator has easy access to the check path and a clear view of the LED. Do not put the unit close to a heat source, in direct sunlight or close to any device that can emit electromagnetic interference such as a computer monitor

EC5000i PORTS



Port Configuration if a Modem is *Not* Present

Port Configuration	EC5000i Connector	Destination Connector
Port A for a Remote Communication Server OR for a Data Capture PC	RJ45 Plug RJ45 Plug	DB- OR RJ45 Plug DB-9
Port B for a Credit Card Authorization terminal OR for an ECR/PC Serial	Mini-DIN 9 Mini-DIN 9	DIN 8 DB-9
Port C for a Printer	Mini-DIN 8	Mini-DIN 8

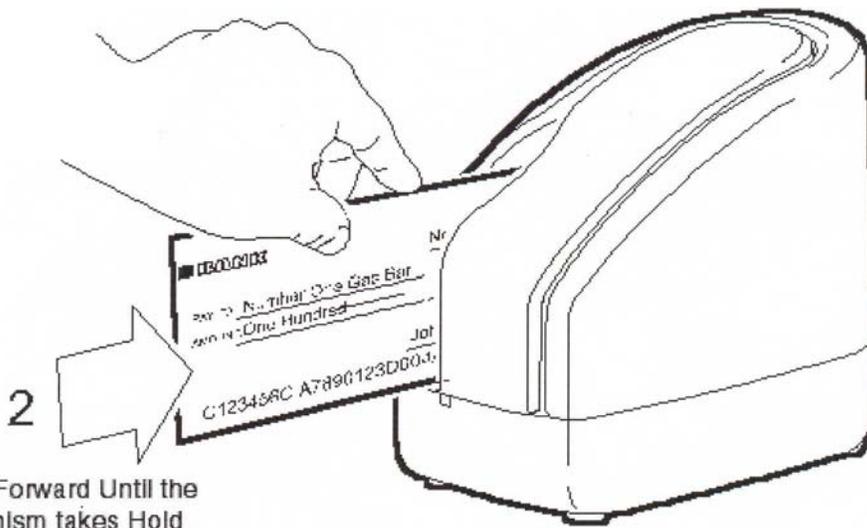
Port Configuration if a Modem is Present

Port Configuration	EC5000i Connector	Destination Connector
Port A for a Telephone Line	RJ11 Plug	RJ11 Plug
Port B for a Credit Card Authorization terminal OR for an ECR/PC Serial	Mini-DIN 9 Mini-DIN 9	DIN 8 DB-9
Port C for a Printer	Mini-DIN 8	Mini-DIN 8

Feeding Checks

Checks should be fed with the information side facing in and the MICR line down

- 1 Hold Check Flush on the Track Bottom



Unit Status

The unit's status is shown through a single, multi-state LED (light emitting diode).

- The LED has three colors: green, amber, and red.
- Each color can appear solid or flashing.

LED	Meaning ... what to do
Green Solid	The unit is Ready to accept a check. Insert a check.
Green Flashing	The unit is Busy processing the last check. Wait for the job to finish.
Amber Solid	The unit is Idle. Start the next job with a command from the terminal.
Amber Flashing	The unit is Sending or Receiving information from the terminal. Wait for the job to finish.
Red Solid	The unit Failed during self-test. Check the terminal display for instructions / refer to your local procedures / call the FRBC at 800-624-1373 or 216-579-2112 or DSN (for Military) 510-4-2-86824, option 6, option 4.
Red Flashing	An Error occurred during processing. See Tone and Meaning for details. Check the terminal display for instructions / refer to your local procedures/ call the FRBC at 800-624-1373 or 216-579-2112 or DSN (for Military) 510-4-2-86824, option 6, option 4.
Green/Amber/Red Off (repeated)	The unit is Starting up or Performing Diagnostics. Wait for the activity to finish, then check the LED again.

Check Processing/LED Cycle

- The unit is on and idle - the LED is SOLID AMBER
- A command is entered from the terminal to start a transaction - the LED turns to SOLID GREEN
- A check is run through the unit - the LED turns OFF (3-4 sec.) then FLASHES GREEN
- The terminal displays an "Approved" message - the LED returns to SOLID AMBER

Several conditions are also signaled by a pattern of tones in addition to the LED Display

Tone	Meaning
1 Short beep & LED is Flashing Green	The unit was Successful in reading the MICR line.
3 Short beeps & LED is Flashing Red	The unit was NOT Successful in reading the MICR line.
1 Long beep & LED is Flashing Red	An Error occurred during processing or storing of the captured image.

Cleaning

Under normal operating conditions, the EC5000i does not require cleaning, however, in working environments that involve excess dust or smoke, the EC5000i may be cleaned by removing the outer cover.

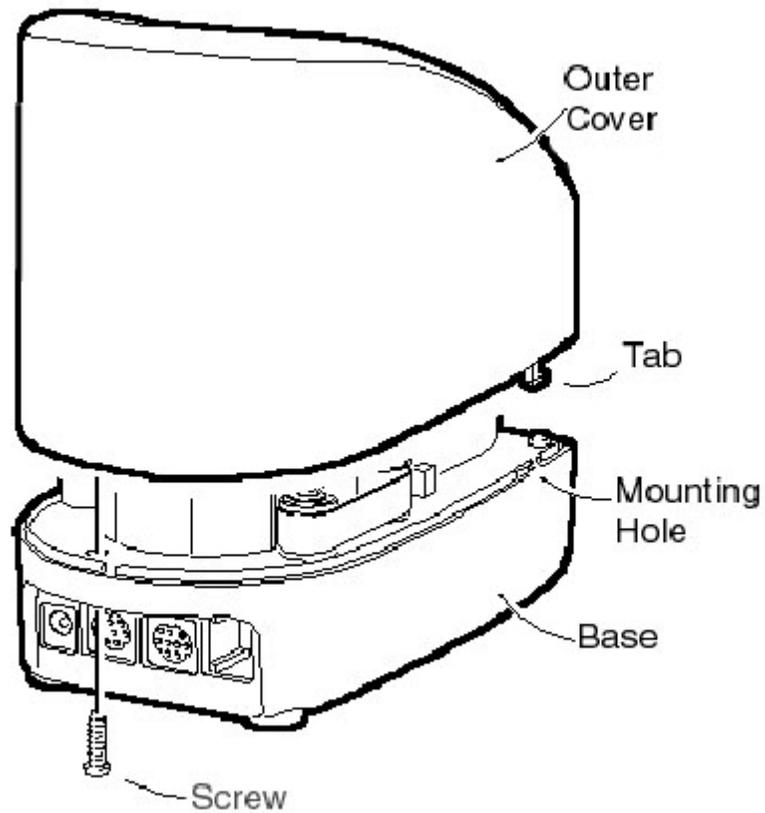
NOTE: Before removing the cover, DISCONNECT all cables.

To remove the outer cover:

- Remove the screw from the back of the unit.
- Push the outer cover towards the back of the unit, about 1/8" (3mm).
- Lift the cover off.

To attach the outer cover:

- Align the tabs on the cover with the mounting holes in the base and push the cover forward into place.
- Insert the screw.



Cleaning

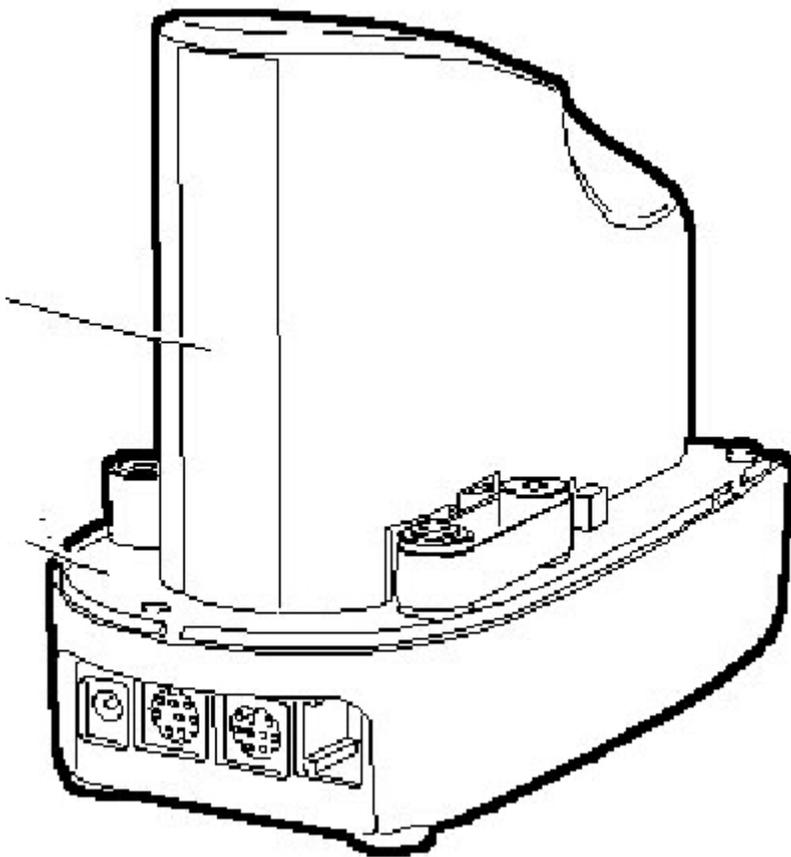
The EC5000i performs best when all working surfaces are clean and the track area is free of foreign material.

Clean the window area with lens cleaning tissue or a soft lint free cloth

Blowout dust from the track area with compressed canned air or with the blow feature on a vacuum cleaner

To clean the **outside cabinetry** of the EC50001, use a damp cloth (and a mild soap if necessary).

CAUTION: Do NOT use solvents or harsh cleaners on the cabinetry. The plastic cabinetry may discolor.



EC5000i Unit Specifications

Unit Size	28 sq, footprint (i.e, 7" long x 4" wide) and 6" high 180 sq, cm footprint (i.e, 17,8 cm long x 10,2 wide) 15,2 cm high
Unit Weight	36 Ounces (1,02 kg)
Unit Orientation	for proper operation, the unit is to be placed on a level, horizontal surface,
Connectors	3 Connectors, A, B, and C A - RJ45 w/o modem, serial interface OR RJ11 w/modem, _modem interface, B - mini DIN 9 pin defaults to terminal connection, C - mini DIN 8 pin defaults to printer interface,
Document Feed	Sensor detects presence of document and starts processing,
Operating Temperature	50 to 104 degrees F (10 to 40 degrees C).
Operating Humidity	20 to 80% relative humidity (non-condensing).

Document/Check Specification

Document Size	Minimum: 4.25" x 2.75" (10.8 cm x 7.0 cm) Nominal: 6" x 2.75" (15.2 cm x 7.0 cm) Maximum: 8.5" x 3.67" (21.6 cm x 9.3 cm)
Document Weight	Weight Range: 20 lb. to 281b.
Font	E13B MICR Character Set

Electrical Power Requirements For Power Adapter

Idle State

0.100 amps at 120Volts AC 60 Hz Input 0.130 amps at 120Volts AC 60 Hz Input

Processing State

Modem Specifications

Supports	V.34bis, V.34 V.F.C, V.32bis, V.32, V.22bis, V.22A/B, V.23, V.21, Bell 212A and 103
Error Correcting	V.42 LAMP, MNP. 2-4 and MNP 10.
Data Compression	V.42bis and MNP 5

Customer Service

If the unit is found to be damaged when delivered or if you have question regarding the opera maintenance of the unit, please contact the Federal Reserve Bank of Cleveland at 800-624-1373, or 215-579-2112 or DSN (for military) 510-4-2-86824, option 6, option 4.

Federal Reserve Bank of Cleveland
1455 East Sixth Street
Cleveland, OH 44114

LIMITED WARRANTY: The EC5000i is warranted against defects in materials and workmanship under normal use and service for a period of one year after the date of receipt by you. The entire liability of RDM Corporation (the Corporation), distributors of the EC5000i and manufacturers of auxiliary equipment used with the EC5000i and your exclusive remedy shall be, at the Corporation's option either (a) return of the price paid, or (b) repair or replacement of the EC5000i that does not meet this limited warranty and which is returned to the Corporation with a copy of the proof of purchase.

The limited warranty is void if failure of the EC5000i has resulted from accident, abuse or misapplication. Any replacement EC5000i will be warranted for the remainder of the original warranty period.

The equipment is sold with the understanding that neither the Corporation, such distributors nor such manufacturers will be liable for any damages whatsoever (include, without limitation, direct or indirect damages for personal injury, loss of business profits, business interruption, loss of business information, or any other pecuniary loss) arising out of the use of or inability to use the EC5000i, even if the Corporation, such distributors and/or such manufacturers have been advised of the possibility of such damages. In any case, the entire liability of the Corporation, such distributors and such manufacturers with respect to the EC5000i shall be limited to the amount actually paid by you for the EC5000i.

The Corporation, such distributors and such manufacturers disclaim all other warranties, express or implied, including, without limitation, implied warranties of merchantability and fitness for a particular purpose with regard to the EC5000i and the accompanying written materials.

Although every effort has been made to ensure the accuracy of the information contained in this guide, no warranty or representation to that effect is made.