iMobile

MoneyCounter

Product Description and Functional Specification

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About this document

This document describes MoneyCounter version 2.0.0.0: what the program is for, what it does, what it consists of, how it exchanges data, how its editions differ and what environment it needs. It is written for the customer's specialists who evaluate the program and is attached to the supply or licence contract.

It covers the released version 2.0.0.0 (release date 3 October 2026). Where the program lacks a function that is commonly expected, the document says so.

1. General information

1.1. Name

The program is called MoneyCounter, version 2.0.0.0. The vendor is iMobile.

1.2. Purpose

MoneyCounter totals cash by denomination. The user selects a currency and types in the number of banknotes of each denomination; the program calculates the total, shows it on a display and, when the user asks, saves the count to a local history together with the date, a comment and the breakdown by denomination.

1.3. Scope

Counting the cash in a till, a safe or an envelope, in an organisation or at home. The program is installed on a single workstation and works without a network connection.

MoneyCounter is not a cash register, point-of-sale or fiscal application. It does not record sales or refunds, does not issue or print receipts and does not communicate with fiscal devices. History records are the user's working notes; they are not accounting source documents.

1.4. Class of software

Application software: a single-user Windows desktop application with no server part.

2. Functions

2.1. Directory of currencies and denominations

The program has a built-in directory of 78 currencies. Each currency comes with a set of banknote denominations, from 4 to 9 per currency; coins are not included. The directory is part of the program and is not updated online: the sets are fixed as of the release date of the version.

- The currency is chosen from a list. A built-in currency is shown as its ISO 4217 code and its name in the interface language, for example "EUR — Euro".
- On first start the program selects the currency of the Windows region (or the first currency in the list if that currency is not in the directory); later it selects the currency used in the previous session.
- In the Pro edition the user can add currencies and change the set of denominations of any currency, including built-in ones. A currency cannot be deleted.
- When a new program version starts for the first time, currencies that are new in the built-in directory are added to the existing database; the denominations of existing currencies are left unchanged.

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2.2. Counting

The denominations of the selected currency are listed from largest to smallest. The user types a whole number of banknotes for each denomination. The total — the sum of denomination multiplied by quantity — is recalculated during entry and shown on a seven-segment display. The C button clears all quantities after a confirmation.

The display has 6 digits in the Free edition and 10 digits in Pro. If the total does not fit, the display shows dashes instead.

There are no exchange rates and no conversion between currencies: each count is in one currency.

2.3. History of counts and the log

The M+ button saves the current count to the history. A history record holds a sequence number, the date and time (taken from the date field in the window), the total, the currency code or name, the user's comment and the log. A count with a zero total is not saved.

The log is text the program writes during a count: lines about a changed quantity, about clearing, and about saving with the full "quantity x denomination" breakdown. The log of the selected history record is shown in the lower part of the window. The log of a new record continues the text that was in that field at the moment of saving, so it may include the log of the previous record.

The M- button deletes the selected history record after a confirmation. The history lists records for all currencies. There is no filtering or search, no totals across records, no printing and no export to other formats.

2.4. Backup and restore

Commands in the File menu save a copy of the database to a file chosen by the user and restore the database from such a file. The copy contains the directory of currencies and denominations, including user-defined ones, and the whole history with logs. Restoring replaces the current database completely; data is not merged.

2.5. Interface languages

The interface is available in 16 languages: English, Russian, German, Spanish, Chinese, Japanese, Korean, Arabic, Turkish, Persian, Portuguese (Brazil), French, Italian, Polish, Vietnamese and Indonesian. The program starts in the language of Windows, or in English if that language is not in the list. Another language can be chosen in the Language menu without restarting. Names of built-in currencies in the interface language come from the ICU component of the operating system; if it is absent, English names are shown. The installer is in English.

2.6. Activation of the Pro edition

Pro is switched on by activating the program with an e-mail address: the program requests a one-time code, which the iMobile account server sends by e-mail, and uses the entered code to obtain a confirmation of the edition. The exchange with the server is described under "Interfaces and data exchange", the differences between the editions under "Editions and limitations".

3. Architecture and components

The program is a single 64-bit executable, `MoneyCounter.exe`, statically linked. It needs no additional libraries, runtimes, services or drivers. There is no server part, web interface or mobile application.

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The executable contains:

- the windows: the main window (directory, quantity table, display, history, log), the About window, a splash screen and the activation dialog;
- the built-in currency directory and the interface string tables for 16 languages;
- an embedded SQLite database, accessed through the FireDAC library;
- the activation module, which talks to the account server and verifies the digital signature of its reply.

All data is kept on the user's computer:

Data	Location and format
Directory of currencies and denominations, history of counts	`%APPDATA%\MoneyCounter\moneycounter.ste` — SQLite 3 database, not encrypted
Activation data: e-mail address, token, signed terms	`%APPDATA%\MoneyCounter\license.dat` — encrypted by Windows (DPAPI) under the user account
Language, selected currency, history column layout	values under the registry key `HKCU\Software\MoneyCounter`

Each Windows account has its own data and its own activation. The program keeps no operation logs or diagnostic files.

4. Interfaces and data exchange

4.1. User interface

A Windows graphical interface: one main window with the menus File, Language and "?". Data is entered from the keyboard.

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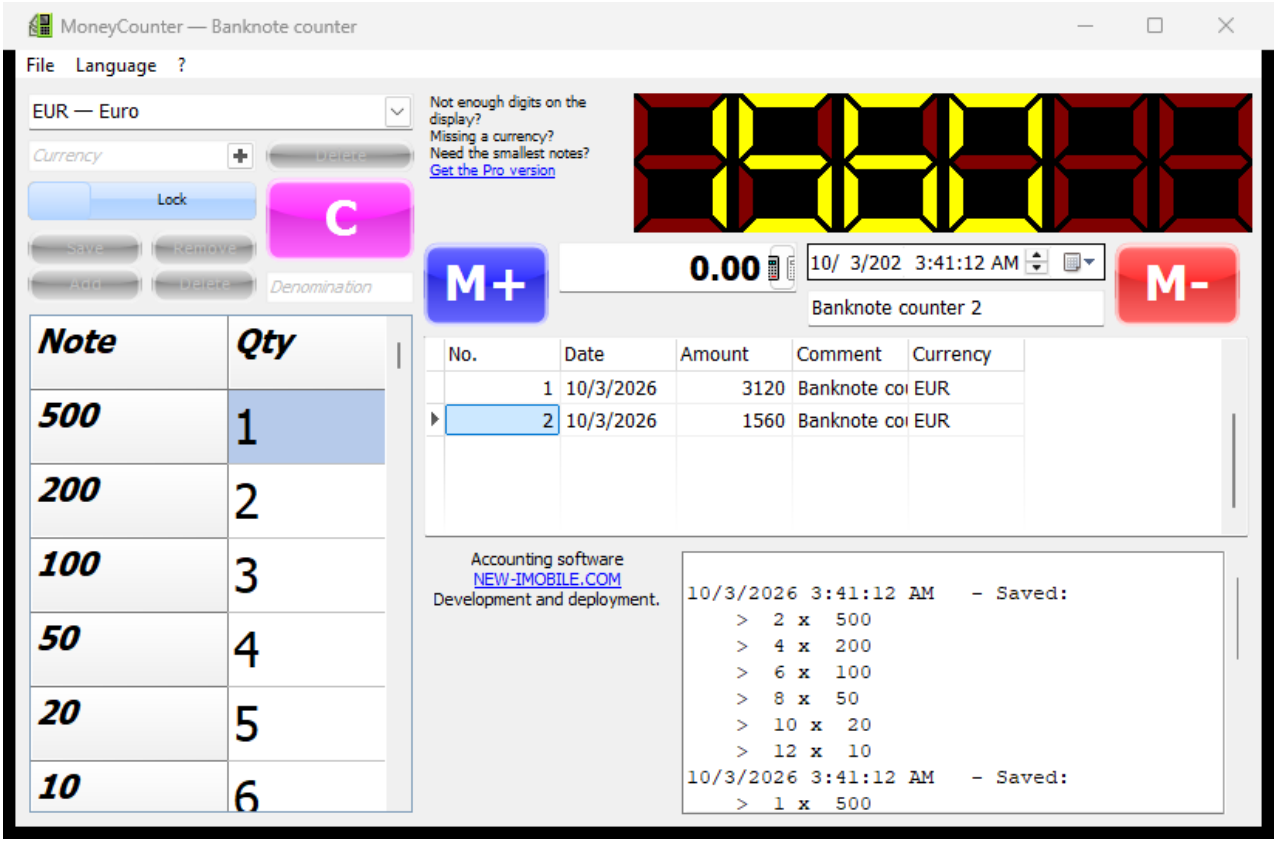


Figure 1. MoneyCounter main window, Free edition: denominations and quantities, the display, the history of counts and the log

4.2. Files

The only file exchange format is the backup: a SQLite database file with the extension `.ste`. The database has three tables: `vname` (currencies), `valut` (denominations) and `vcount` (history). The file can be read with standard SQLite tools. There is no import, no export to CSV, Excel or PDF and no printing.

4.3. Exchange with the account server

The program uses the network only to activate the Pro edition and to check that it is still valid. A program that has not been activated opens no network connections. The exchange is with the iMobile account server `accounts.new-imobile.com` over HTTPS (port 443); requests and replies are JSON.

Request	When it is made	What is sent
Activation code request: `POST /api/register`	the Get code button in the activation dialog	e-mail address, product identifier `moneycounter`, interface language code (the server writes the e-mail in that language)
Activation with the code: `POST /api/activate`	the Activate button	e-mail address, code from the e-mail, product identifier
Edition terms request: `POST /api/license`	right after activation, and in the background on every start of an activated program	activation token, product identifier, machine fingerprint

The machine fingerprint is a SHA-256 hash of the Windows installation identifier (MachineGuid), the computer name and the system volume serial number; the values themselves are not sent. Counts, totals, history, comments and user files are never sent to the vendor. The program has no telemetry, no error reporting and no update check.

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In reply to `/api/license` the server returns a terms string (edition, e-mail address, machine fingerprint, time of issue) and its digital signature: ECDSA on curve P-256 with SHA-256. The program verifies the signature with a public key embedded in the executable and switches Pro on only if the product, the e-mail address and the machine fingerprint match. Signature verification, hashing and channel protection (TLS) are performed by Windows.

4.4. Command line

The switch `--lang <code>` sets the interface language for one run. The switch `--verify-server <file>` checks the connection to the account server and its signature without opening any windows; its use is described in the Installation and Administration Guide.

4.5. Interfaces that do not exist

The program has no programming interface (API), no integration with accounting systems and no exchange with hardware such as banknote counters or detectors, scales, cash registers or scanners. Quantities are entered by hand only.

5. Editions and limitations

The program is supplied as one installer package; the edition is determined by activation.

Feature	Free edition	Pro edition
Built-in currencies	78	78
Display	6 digits	10 digits
Smallest denomination of a currency	hidden	shown
User-defined currencies and editing of denominations	no	yes
History, comments, backup	yes	yes
Registration and network connection	not required	needed to activate and check the edition

The Free edition has no time limit. The right to the Pro edition is assigned to an e-mail address. A stored Pro confirmation works without the server for 30 days after the last successful check; the check is repeated in the background on every start. If the server has not been reached for 30 days, the program runs as Free until the next successful check; no data is deleted. Activating with the same address on another computer or under another Windows account moves Pro there.

Known limitations of version 2.0.0.0:

- no printing, no export and no exchange with hardware;
- no password sign-in or access control; the database is not encrypted and access to it is determined by the Windows account;
- one database per Windows account; no shared network use and no synchronisation between computers;
- a currency cannot be deleted; denomination rows can be removed only from the end of the list;
- a saved count cannot be loaded back into the quantity table;
- on every start the program deletes currencies named «Рубли», «Доллары», «Евро» or «Гривны» (sample data of pre-2.0 versions) and history records with a zero total, so user-defined currencies must not be given these names;
- for Arabic and Persian the main window keeps a left-to-right layout;

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- there is no automatic update; the installer package and the executable are not code-signed.

6. Environment requirements

- Operating system: Windows 10 (64-bit) or Windows 11.
- No separate CPU or memory requirements are defined. The program takes about 23 MB of disk space.
- Administrator rights are needed for installation only.
- Internet access is needed only to activate and check the Pro edition: outbound HTTPS to `accounts.new-imobile.com`, port 443.
- Currency names in the interface language need the ICU component included in Windows 10 version 1903 and later.

Document history

Document version	Date	Product version	Change
1.0	2026-10-06	2.0.0.0	First issue

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