

## 01. Distinctive Features

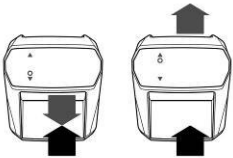
- Integrated banknote detection:
  - Infrared (IR) detection
  - Ultraviolet (UV) detection
  - Spectral ink analysis
  - Magnetic detection
  - Optical paper density analysis
  - Banknote size detection
- Automatic currency type and banknote value detection
- Summing up banknote values
- Detection speed: up to 70 banknotes per minute
- Audio indication and a special error code system
- Forward and backward banknote ejection
- Compact size
- Well thought-out ergonomics
- PC connection: software updates, on-screen operation report, operation report download (option)

## Summing-up Mode

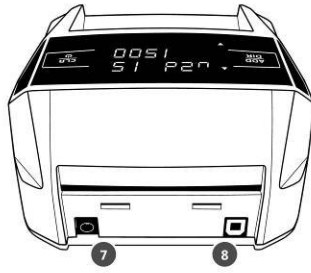
For switching to the summing-up mode press the **ADD/DIR** button. After pressing the button, the "ADD" indicator is displayed on the screen. While the detector consequently verifies several banknotes of the same value, the display shows the number of banknotes processed and their total value. Repeat pressing of the **ADD/DIR** button turns the summing-up mode off and the "ONE" indicator is displayed on the screen. This means that the detector is now in the single banknote verification mode.

## Banknote Ejection Modes

You can select either of two for banknote ejection modes. Forward mode ▲: the verified banknote is returned at the rear side of the device. Backward mode ▼: the verified banknote is returned back to the loading tray. To switch between the modes press and hold the **ADD/DIR** button.



! We recommend using the Forward mode for a bundle of banknotes. The Backward mode is convenient in case of limited space (e.g. when the detector is placed against the wall) or to verify a single banknote.



## 02. Detector View

- Banknote loading tray
- Banknote ejection mode indicators:
  - ▲ forward, ▼ backward
- CLR/⏻** Display reset and device power button
- ADD/DIR** Selection button for the add mode and banknote ejection mode
- Quantity of verified banknotes and currency type
- Value of verified banknotes
- Power supply input
- USB port for PC connection

## Resetting the Display and Turning the Detector Off

At any moment you can reset the data displayed on the screen by pressing **CLR/⏻**. To turn the detector off press the **CLR/⏻** button and hold it for 3 seconds.

## 05. Connection to PC

Connecting Moniron Dec Multi automatic detector to a PC is possible via USB port which is located at the back panel of the detector. When the detector is connected to a PC or a laptop with special software, banknote processing data is displayed on the screen, and the statistics of the verification process are available for download (option).

## 06. Updating Software

Moniron Dec Multi's efficiency depends on prompt software updates. Alongside with emission of new banknote types and modifications, new software for the detector is developed. You can install it at the Service Center. Full contact information is available at our official web site: [www.moniron.com](http://www.moniron.com)

## 03. Getting Started

### Installation Instructions

Choose even surfaces to install the detector. Avoid exposing it to bright light, direct sunlight, open fire, water, or dust.

### Operating Instructions

- Do not use the detector if it is affected by vibration or bright light, or is exposed to direct sunlight
- Use only the adapter supplied with the detector
- If the detector was stored at low temperature for a long time, keep it at room temperature for at least 6 hours before use
- Turn the detector off if it is not used for a long time
- Do not open the detector's cover
- Protect the detector against moisture
- Protect the detector from drops, shocks, bumps and shakes – all the above may lead to defects and breakdowns

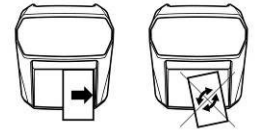
### Turning the Detector On

Use the adapter supplied with the detector to plug the device to power supply (100-240V/50-60 Hz). Turn the detector on by pressing and holding the **CLR/⏻** button for 3 seconds. After self-diagnostics is complete, the detector is ready to use.

## 04. Operation

### Banknote Verification

To verify a banknote place it into the loading tray and press it firmly to the right side of the tray.



! If a banknote is placed into the loading tray incorrectly, it will not be identified as genuine, and an error code will be displayed.

### Loading and feeding banknotes

- The banknote has to be flat and straight, without folds or creases
- Do not place banknotes at an angle
- Secure the banknote's correct orientation while loading and feeding (see the appendix)

After the banknotes are loaded, the detector will check them automatically. If a banknote is genuine, the display will show its currency type and value. If a banknote is suspicious or unidentified, it will be returned back to the loading tray, with an audio signal and an error code displayed on the screen.

! If the detector identifies a banknote as suspicious, try to verify it again: it is possible that it has been loaded incorrectly.

## 07. Error Codes

In case a suspicious banknote is detected or a banknote fails to be identified, an error code is displayed. Errors may occur if a genuine banknote is bent, creased, old, dirty, washed, torn, glued, faded, or if it has been exposed to aggressive environment, defaced, or has unauthorized writings.

! Since new design banknotes are issued periodically, in case errors occur when such banknotes are verified, a new version of firmware has to be obtained at the Service Center.

Error Code	Possible cause	Action
Error	Any suspicious banknote	
E <sub>n</sub>	Magnetic mark location error	
E <sub>I</sub>	Infrared mark location error	
E <sub>F</sub>	Banknote color image detection error	1. Make sure the banknote is placed properly in the loading tray.
E <sub>d</sub>	Paper quality error	2. Repeat the banknote verification. If the error code is displayed again, the banknote cannot be identified as genuine.
dd	Banknote size error	
E <sub>U</sub>	UV reflection error	
E <sub>E</sub>	Combination of several errors specified above	
E <sub>c</sub>	Incorrect banknote capture or banknote jam	Repeat the banknote verification
E <sub>D</sub> E <sub>S</sub>	The banknote is jammed while processed in the forward/backward mode	Repeat the banknote verification
E <sub>C</sub>	Low operation speed	Contact the Service Center
E <sub>UL</sub>	Software is missing	Contact the Service Center



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