

# PRO CL-200E



PRO INTELLECT TECHNOLOGY Corporation presents an automatic currency detector PRO CL-200E of CASH LINE banking equipment series, specially designed for verifying EURO banknotes. The present detector automatically carries out a complex analysis for authentication and gives a well-defined result, what enables operator to test banknotes quickly, without any special knowledge about false banknote protection types. By means of this device you can test a banknote in less than 1 sec, see the total sum and quantity of verified banknotes. The detector is designed for use in: cash desks, banks, currency exchange offices and other specialized organizations making high demands to banknote authentication verification. The detector is user-friendly, what makes it possible for use in supermarkets, accounting departments, offices, and even automobiles by means of connecting it to cigarette lighter socket through adapter.

### Distinctive features

- Designed for EURO banknotes verification
- Any orientation of notes in receiving tray
- High verification speed, up to 90 banknotes/1 min.
- Infra-red detection. Checks IR marks location.
- Magnetic detection. Checks magnetic marks presence.
- Optical density detection.
- Banknote size detection.
- Nominal value detection.
- Summing up by nominal values.
- 3-digit LED display showing the number of counted banknotes
- 6-digit LED display showing the sum of counted banknotes
- Sound and code indication of false banknotes
- Direct and reversal banknote supply mode
- The ability to use in automobile

## 1

## Specification

- Verification speed, banknote/min (max) .....90
- Supply voltage, V .....12
- Consumption current, mA .....800
- Power supply .....100-240V, 50/60Hz (AC adapter)
- Operating temperature, degrees °C .....+10..+40 °C
- Overall dimensions (l/w/h), mm .....220x80x120
- Weight, kg .....0,75

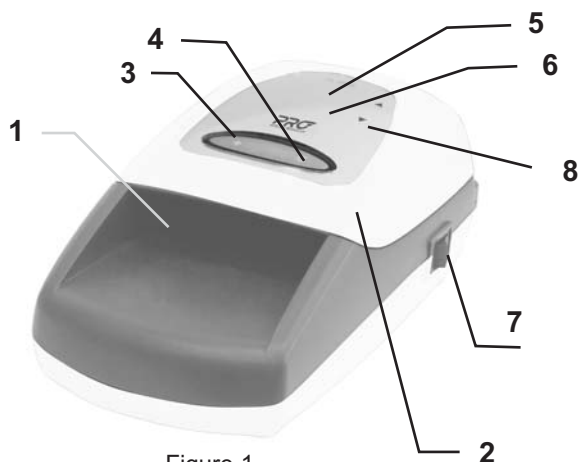


Figure 1

1. Receiving tray.
2. Opening top cover. In case of banknote jam open the cover and remove the jammed banknote.
3. '+' button switches on 'Add'/ off 'onE' mode of summing up nominal values. If hold '+' button for 3 seconds, banknote supply mode switches (forward/backward).
4. 'C' button. Clears display values.
5. 3-digit LED display showing the quantity of counted banknotes.
6. 6-digit LED display showing the nominal of counted banknotes.
7. Power switch off.
8. Banknote supply mode indicators. The upper indicator corresponds with forward supply mode, the lower one- backward supply.

1. By means of the supplied ac adapter connect the detector to the mains of 100-240V 50/60Hz.
  2. Switch power on, Fig 1-7. Detector enters self testing mode. 'PRO CL-200' will be displayed, wait for a few seconds. After self testing the detector is ready for operation. The upper and lower display should display '0' value, see Fig.3.
  3. If needed select banknote supply mode.
- In case of forward supply mode, after a banknote is tested it will be placed from the left side (as shown on Fig.2) and a banknote, which has not passed the test, will be placed



Figure 2

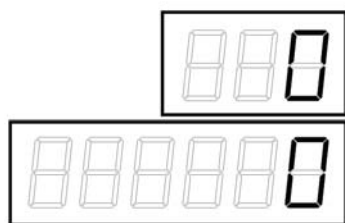


Figure 3



Figure 4

from the right side (as shown on Fig.2). To set forward and backward supply mode hold '+' button for 3 seconds. The upper green indicator corresponds to forward mode and the lower indicator – backward mode.

4. The detector has 2 operation modes: **'one'** one banknote verification mode and **'Add'** nominal valued summing up mode.

The upper display shows the quantity of counted banknotes in 'Add' mode, while in 'one' mode the display value is equal to 1.

The lower display shows the sum of banknotes by their nominal values in 'Add' mode, while in 'one' one banknote verification mode the valued is equal to the nominal value of the banknote. Set **'one'** one banknote verification mode or **'Add'** summing up mode. To do this press '+'.

5. Place a banknote into receiving tray as shown on Fig.4, tightly pressing an edge of banknote to any side of receiving tray.

The detector will determine the nominal of authentic banknote (in **'Add'** mode it will add its nominal to the total sum).

Orientation to:

Right edge      Center      Left edge



**Figure 5**

Correct orientation of notes



**Figure 6**

Incorrect orientation of notes

**Attention!** If a banknote is placed in receiving tray incorrectly, the banknote is not detected as an authentic one and any error code is displayed.

In case of error check banknote orientation (Fig.4) and try to place the banknote into receiving tray once again.

When counting is over, clear the display pressing 'C' button and switch off the power. If a banknote is jammed inside the detector, open the top cover (Fig 1-2) and remove the banknote.

## 4

## Mounting and maintenance rules

1. When choosing a mounting place for detector, avoid uneven and water-close surfaces and dangerous objects.
2. Do not mount and so not use the detector in places where it can be affected by direct sunlight, strong vibration and dust.
3. Use the adapter supplied with the device.
4. If the device was kept in cold for a long time, keep it for at least 6 hours without packing at a room temperature before switching on.
5. Switch off detector when it is not used for a long time during a day.
6. Error codes and messages.

**Attention!** Errors may occur when verifying authentic crumpled, dilapidated, dirty, laundered, torn, taped, decoloured banknotes or if a banknote was exposed to hostile environment or has foreign inscriptions.

**Attention!** New pattern banknotes may be issued. If there are errors in operation of detector during banknote verification, install a new firmware in service centre. During the warranty period new firmware is installed for free.

Error Code	Reason	Solution
<b>En</b>	Magnetic marks location error	1. Check the correctness of placement banknote into detector (see Fig.4) 2. Count the banknote again. If an error occurs again, the banknote can not be detected as authentic
<b>Ei</b>	Infra-red marks location error	
<b>EF</b>	Banknote image detection error	
<b>Ed</b>	Paper quality error	
<b>dd</b>	Banknote size is incorrect	
<b>EP</b>	Colour printing quality error	
<b>ES</b>	A combination of above mentioned errors	1. Place the banknote one more time. 2. Open the top cover and clean detector duct
<b>Eh</b>	Top cover is open	
<b>Ec</b>	Wrong capture of banknote or banknote wreck	

Manufacturer guarantees proper functioning of the device during warranty period since the date of sale under condition of compliance with maintenance and storage procedures described in this manual. After unpacking the device please keep the package and technical description. Warranties are canceled in case the device was not transported in the original package or maintenance procedures were violated. Manufacturer is not responsible for device disfunction as a result of improper maintenance, storage and transportation including mechanical failures.

In case of device failure during the warranty period, customer has the right to repair it in Service centre for free. The equipment is accepted for warranty repair clean from dust and mud.

Cleaning equipment from dust and mud is not included in the warranty and is charged separately.

Warranty service does not include training of equipment maintenance, as well other service for providing functioning of device (connection, testing, customizing, preventive works etc.), which customer can commit on his own according to the attached manual. Producer is entitled to introduce constructive and software changes, not described in the current manual.

### **Warranty service is not available in the following cases:**

- Absence of warranty coupon, incorrectly filled warranty coupon, or corrected coupon
- If operation rules mentioned in the manual were violated.
- If there are mechanic damages of equipment.
- If there are foreign objects or liquid inside device.

The present warranty is not applied to lamps, batteries, belts, network adaptors, power unit, safety fuse, brushes, parts of the body of the product and any other parts which have naturally limited period of service including failures caused by instability or power supply failures. Replaced defective parts are to be considered property of our company. The owner delivers faulty equipment to the service centre at his own expense.

