



BANKNOTE-COUNTING MACHINES

BIRD TS 2650 B 2D

BIRD TS 2650 B 3D

INSTRUCTION MANUAL



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INSTRUCTION MANUAL

BIRD TS 2650B 2D is a banknote-counting machine which track width and thickness of the banknotes.

BIRD TS 2650B 3D is a banknote-counting machine which track length, width and thickness of the banknotes.

Machines have a UV sensor to monitor the quality of the paper.

Machines have two additional modes:

- Counting US\$ by testing the presence of magnetic ink across the whole area of banknotes;

- Counting Euro banknotes by testing (reading) the face value recorded in the security thread of the banknotes.

Machines give 100% guarantee of authenticity of euro banknotes.

Attention!!!

1. When placing banknotes follow the picture on the feeder of the machine.

2. To have no problems with the machine, place banknotes for counting in the feeder only when it is empty!

USAGE

1. **Turning on the machine** - after passing the initial test and indication the type of machine - 2D or 3D model, the following picture appears on the screen:

UV	BATCH	0	pcs
		0	pcs

This means that the machine is in free counting mode. It will stop for every 100 banknotes counted. It tracks the width of the banknotes; with the UV sensor it monitors the quality of the paper.

Banknotes counted should be taken from the holder. The machine will continue to count next banknotes, which are placed in the feeder and so on.

With "+" and "-" keys it is possible to set a batch counting mode, different from 100. By pressing the "+" key the little digital indicator display number 20, 40, 50, 60, 80 or 100.

Similarly, by pressing the "-" key each of these numbers can be reduced so as to obtain the number you want to batch banknotes.

For example: To make a batch of 47 banknotes, press the "+" key twice and three times the "-" key. Little digital indicator will display the number 47.

Once banknote-counting machine is started, it will stop for every 47 banknotes counted.

BATCH / TOTAL key reset the amount set for batch.

With UV key it is possible to turn off the control, which tracks the quality of the banknotes paper.

When the UV is on, and machine suspects a counterfeit banknote it stops with periodically flashing indication; the display shows the number of the last banknotes, which must be removed and separated away. By pressing the RESET key counting may continue; removed banknotes are not counted.

Separated 'counterfeit' banknotes must be inspected one by one to prove their authenticity.

2. Counting other than Euro and U.S. Dollars currencies of different denominations by showing total sum of counted banknotes (only in 3D model).

Press the BATCH / TOTAL key - switching to "**Total**" mode.

On the screen appears the following picture:

<hr/>	
UV	t o t
0	
<hr/>	

In this case, in the feeder can be placed banknotes **/other than Euro and USD/** of different denominations. The machine will count them, giving a total sum of all counted banknotes.

If during the counting machine stops and the indication is flashing periodically remove the number of banknotes displayed and continue counting by pressing "RESET" key.

3. Counting and testing authenticity of Euro banknotes.

Press the MG key. On the screen appears the following picture:

UV	BATCH	0	pcs
MG		0	pcs

While counting banknotes the machine performs testing for presence of nominal record of the note in its security thread.

If the machine stops and the indication is flashing periodically remove the number of banknotes displayed on the screen. Press RESET and continue counting. Once counting is complete, place back the removed banknotes and start counting again. Although initially the machine is stopped with a resolution that they are counterfeit, upon re-counting they can be verified that are authentic.

This is because for counting and testing banknotes with reading the face value recorded in the security thread, banknote must have very good compression to the magnetic head. If any of the banknotes conduction through the rollers was not good, an indication for error can appear, i.e. nominal record could not be read. It is therefore necessary to recount the removed banknotes.

4. Counting Euro banknotes of different denominations by showing total sum of counted banknotes.

Press the BATCH / TOTAL key - switching to "Total" mode.

On the screen appears the following picture:

UV	tot
MG	0

In this case, in the feeder can be placed Euro banknotes of different denominations. The machine will count them, giving a total sum of all counted banknotes.

If while counting, the machine stops (like above) and the indicator flashes periodically, take the number of banknotes indicated on the display and continue counting by pressing RESET key.

Separated 'counterfeit' banknotes re-count again.

5. Counting of US dollars.

Press MG. On the screen appears the following picture:

UV	
MG *	0

This is the same picture like when counting Euro banknotes, however, the MG symbol flashes periodically.

When counting US dollars, the magnetic head is tracking the availability of sections recorded with magnetic ink throughout the whole area of the banknotes.

5. Counting with accumulation result

Press the ADD key. Possible options for counting with accumulation result are the following pictures:

5.1. Counting with accumulation of the number of the banknotes:

UV BATCH	0 pcs
ADD	0 pcs

5.2. Counting with accumulation and testing for the authentication of euro banknotes:

UV BATCH	0 pcs
MG	
ADD	0 pcs

5.3. Counting with accumulation of total sum and testing of currencies other than Euro and USD:

UV	tot
ADD	0

5.4. Counting with accumulation of total sum and testing of Euro banknotes:

UV	tot
MG	
ADD	0

5.5. Counting with accumulation of numbers of banknotes and testing of US dollars:

UV	BATCH	0 pcs
MG *		
ADD		0 pcs

6. Changing the default initial state when waking the machine from stand by mode.

In item 1 it was shown that when turning the machine on the following picture appears:

UV BATCH	0 pcs
	0 pcs

If we want when turning the machine on to be ready to, for example:

- Work with Euro banknotes of the same denomination;
- Make a UV control of the quality of the paper;
- Count to 50 banknotes and stops,

perform the following actions:

For the first condition press MG;

The second condition is met. UV button is on by default;

For the third condition: press "+" key three times.

The display shows the following picture:

UV	50 pcs
MG	0 pcs

which is what we wanted. Now the machine will work with Euro banknotes of the same denomination, will make quality control of the paper (UV control), and will stop for every 50 banknotes. If you want this to repeat every time you start the machine, you must do the following: Press the RESET button and hold it until the display screen becomes white (not seen any characters). Release the button RESET. The image appears again. Turn off the machine. Now the initial state of the machine will be the combination of what we done above.

7. Errors while counting

7.1. Counting stops the indicator flashes periodically and indicate the type of the error:

ErF - **x** - an indication for counterfeit banknotes. **x** is a number indicating how many banknotes you need to remove and continue counting by pressing **RESET**;

Erd - **x** - an indication for registered difference in the dimensions of banknotes. **x** is a number indicating how many banknotes you need to remove and continue counting by pressing **RESET**.

In both cases the results of the successful counted banknotes is save.

7.2. Counting stops with constant light error:

- **Doubl** (error double) – two or more banknotes were passed with greater width at the same time.

Remove any banknotes from the holder. Place them back for counting in the feeder when it is empty.

- **Errch** (Error chain) - an indication that banknotes are passing very close to each other and their validation is

impossible. Take the banknotes from the holder and reinsert them to count in the feeder after it has been emptied;

- **Errto** (Error timeout) - message that the machine cannot work; there may be blockage of banknotes. Turn off the machine and remove the cause.

To fix the machine - left banknotes between the rolls of the machine, proceed as shown in the photos below:

With both hands, as shown in the first picture, release the panel display in front.

Lift the panel, as shown in the second picture and manually remove the blocked banknote(s).

Place back the panel in its position.

(Panel level should align with the level of the side panels).



MANUFACTURER'S RECOMMENDATION!!!

Answer to a question from the practice:

If you are in counting mode and:

1. Counting and testing authenticity of Euro banknotes or

2. Counting Euro banknotes of different denominations to show total sum of counted banknotes

and the machine stops, indicating the presence of "counterfeit" banknotes, remove the number of banknotes displayed and continue counting by pressing "RESET", as described above. Once the counting is done, place the removed banknotes one by one to pass through the machine rollers. This is necessary because some banknotes are in a bad look (more wrinkled in the area of the thread) and because of the dynamic system of counting (many banknotes at high speed must pass through the magnetic head) is not performed good reading of the nominal value of these banknotes and the machine indicates an error.

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