

BillyOne/OryOne note validator

Update Instructions

Rev. 1.03

PREPARATORY OPERATIONS:

1. Before installing the software, verify that your PC must have the Framework 3.5 from Microsoft. If not, download it from the web.
2. If your PC does not contain the drivers for the programming interface (driver file from Silicon Labs), please download them: they are supplied with the CD- software provided with the programming Kit, or it is available in the Download Area of www.alberici.net, under 'Programming Kit' / 'Drivers universal kit'.
3. Paste the directory "Agg_Update_BillyOry_v2_x_x.zip" on your PC, unzip it, then extract the application file "AlbericiUpgLettore.exe":  AlbericiUpgLettore.exe and its library "Ionic.Zip.dll": .
4. Paste as well the "20xx_0x_xx_BillyOne_OryOne_.....alb" update fw file.

The *.exe and *.alb files are available from the web page (Download section at foot of page):

BILLYONE: [BillyOne UN1, without stacker, Note validators, products - Alberici SpA](#)

ORYONE: [OryOne UN1, with stacker, Note validators, products - Alberici SpA](#)

Any of two interface tools can be used:

- A) if updating on the Change machine, use the grey USB Pendrive with its 4p/4p cable (cod. no. K-P2C-000003),
- B) if updating directly the validator (i.e. on a working bench), use the universal programming kit (code no. K-P10-000009).

 Dip-switch 1 in the validator must be set to ON for programming!!!



If the USB pendrive is used, go to A) UPDATE BY USB PENDRIVE.

If the Universal kit is used, go to B) UPDATE BY UNIVERSAL PROGRAMMING KIT (pag. 5).

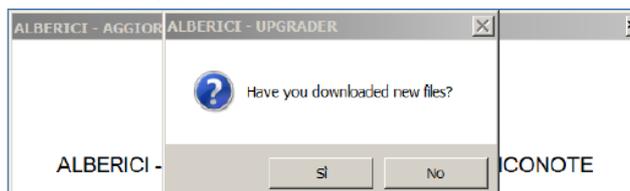
A) UPDATE BY USB PENDRIVE.

A1- Insert the Pendrive on a USB port of the PC, and fit the cable 4p/10p between the Pendrive and the 10p note validator socket. Connect the socket of the 2p cable with red and black wires to the 2p socket of the Pendrive. Connect the red (+) / black (-) wires to +24V power (power box), or to green=+24 and black=GND wires of the PWR OUT socket in the CPU pcb of the machine.



A2- COM port: the software will find it automatically; otherwise, see NOTICE in Section E at end of paper.

A3- Open the application "AlbericiUpg.Lettore.exe". The window box below will prompt you:



Go to A4. If instead the question in the box is in the Italian language, click on the NO button to change the language as follows. The following dialogue window will appear:



Progettazione e produzione di sistemi di pagamento e accessori per macchine Gaming, Vending e Car-Wash

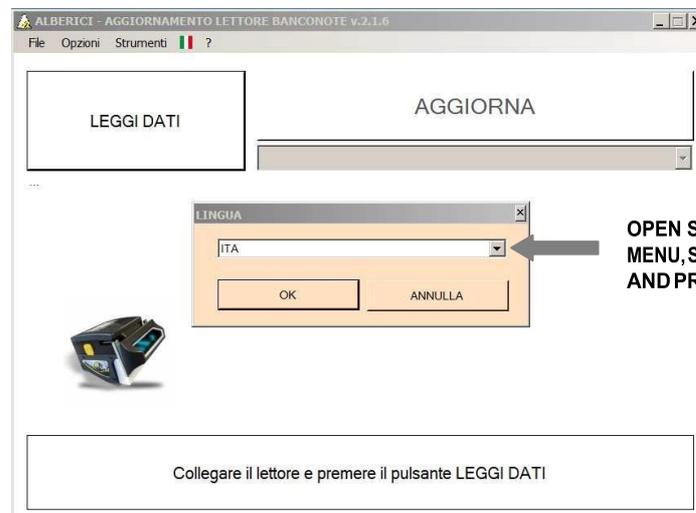
Via Cà Bianca, 421 - 40024
Castel San Pietro Terme (BO) - Italy

Tel.: +39.051.944300
Fax.: +39.051.944594

Web: www.alberici.net
E.mail: info@alberici.net

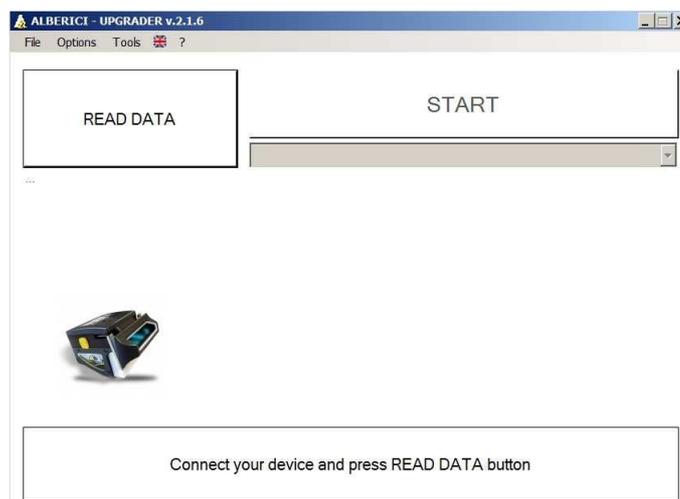


CLICK on the flag to change language to English

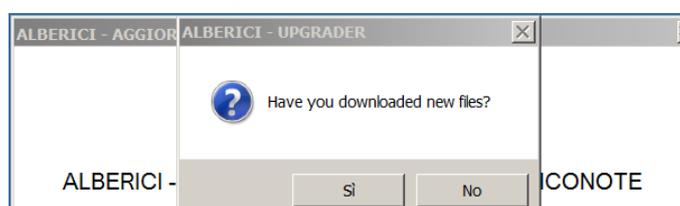


OPEN SCROLL MENU, SELECT 'ENG' AND PRESS 'OK'

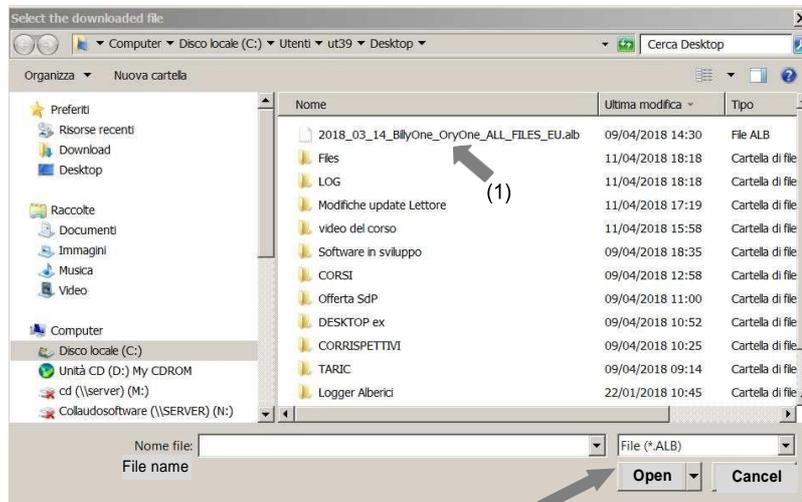
The following dialogue window will then be displayed:



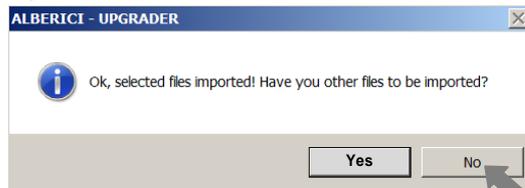
Close the application and launch it again: the box in English language will prompt you:



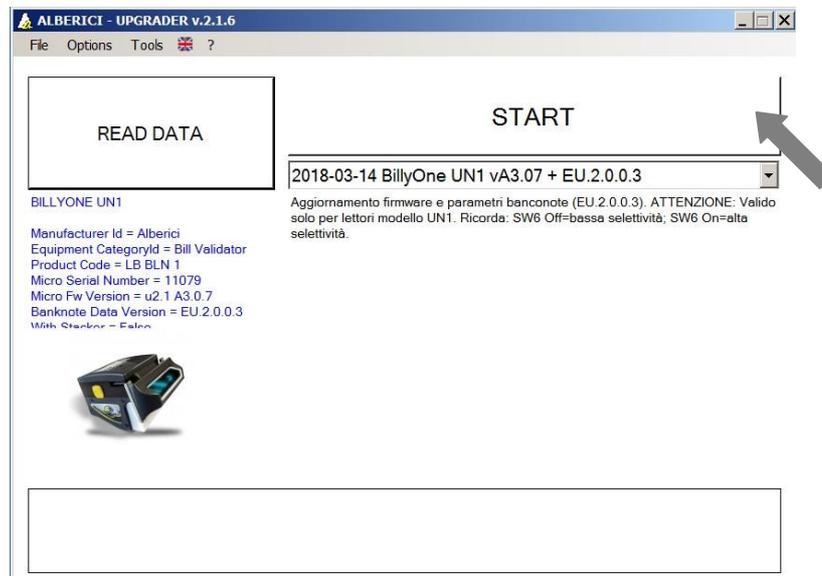
A4- Press “Yes” if you want to update a newly downloaded firmware to the validator. Press “No” if you want to use an old firmware file that you already have in your PC. In the navigation window (below), find the update file ("20..... BillyOne_OryOne..... .alb"), and select it. Then press the "Open" button to confirm the selected file.



A5-The application will transfer the filename in its portfolio (List of files) and will ask if other files must be downloaded. Choose "No":

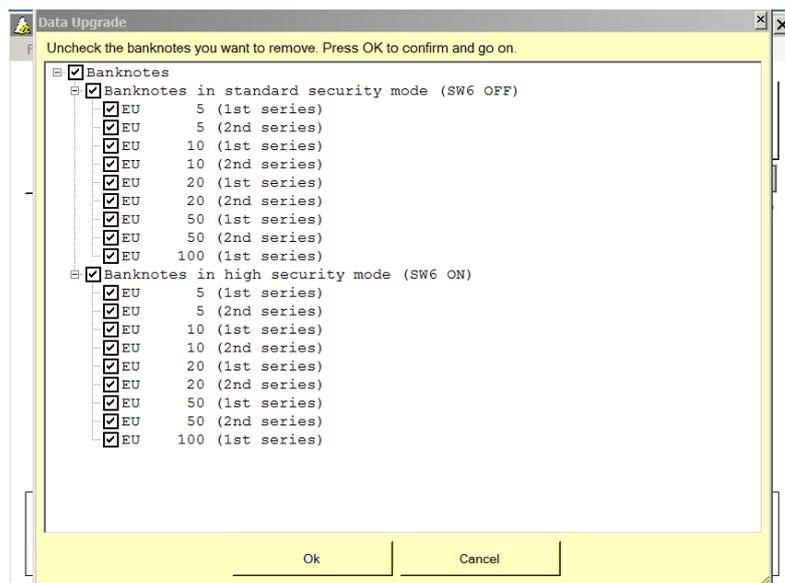


A6- Press the “START” (Download) button:



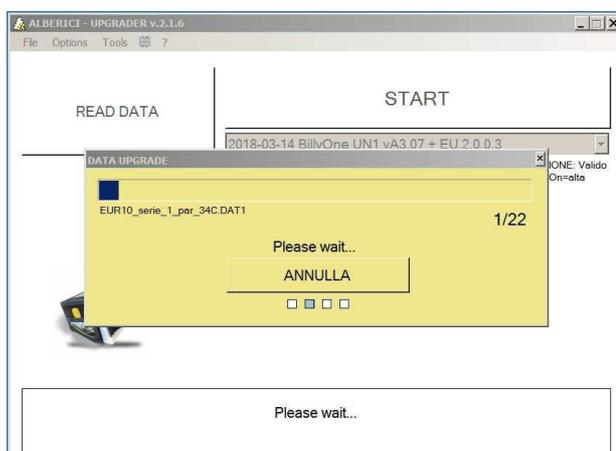
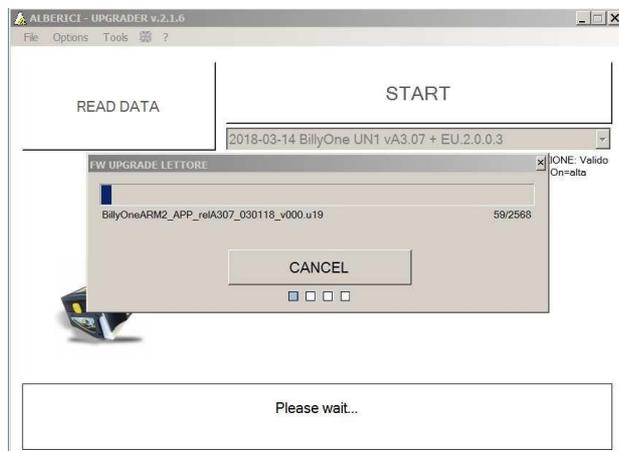
A new setting window will open up, showing the note denominations that will be programmed. It is possible to remove the tick from the denominations that must not be programmed.

Starting with version ARM2, limited to the Euro files, it is also possible to set which denominations should be processed under security standard and which ones under high security mode. This way, it is possible to disable denominations without going through the process of setting the dip-switches and slipping the banknotes into the validator.

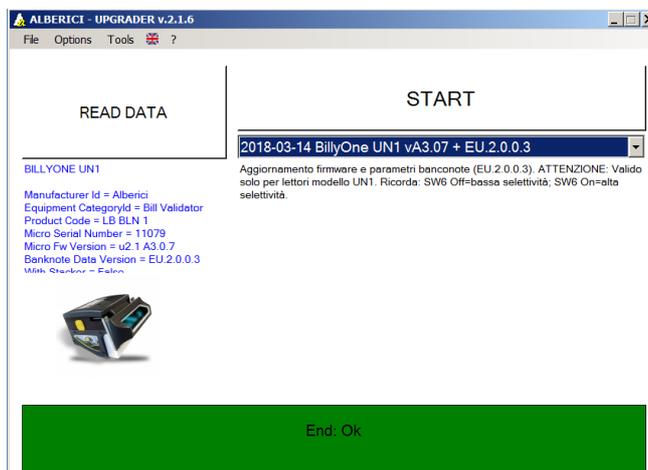


Leave the tick on the denominations that you want to be processed only under standard mode, remove the tick from the ones that you want to be processed only under security mode. Remove both ticks (standard mode and security mode) from the denomination(s) that you do not want to be accepted.

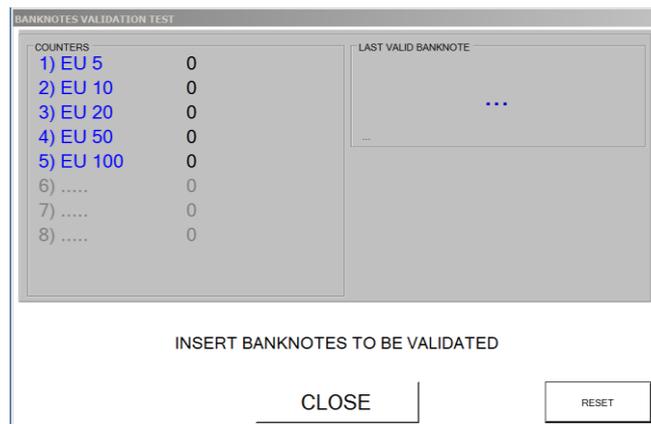
A7- The system will prompt you to wait ('Please wait...'), then the Status box "FW UPGRADE" will appear, and download will be started. The process takes two steps, one being the loading of the firmware, the second being the loading of the data of banknote denominations.



The transfer process will take some minutes, after which a confirmation message will be shown.



A8- To test proper operation, open the menu Tools/banknotes validation test.



As each banknote is accepted, the monitor window will update the COUNTERS amount.

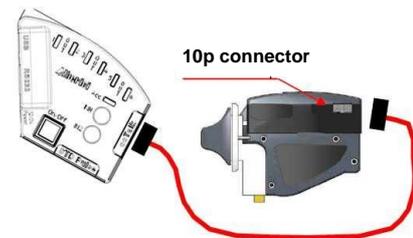
 It is possible to calibrate the Note Validator, as well as to set it for High or else Low Discrimination Rate. See Sections C and D.

B) UPDATE BY UNIVERSAL PROGRAMMING KIT

B1- Connect the power supply box to the 24Vdc input on the slant side of the programmer box.

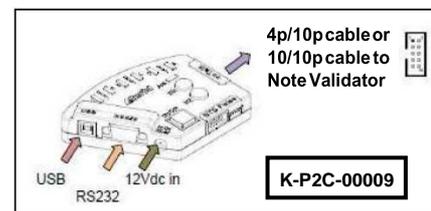


B2- Connect the USB cable between the PC and the USB-A slot on the slant side of the programmer box, *or else* connect the RS232 cable between the PC and the socket located on the slant side of the programmer box.



B3- Record the positions of the Dip-Switches in the validator. Then move all Dip-Switches to OFF, but keep DS 1 to ON.

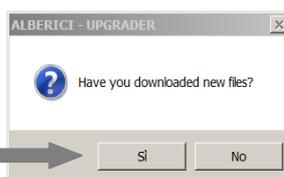
B4- Connect the 10p/10p cable between the BillyOne 10p socket and the 10p connector on the cctalk side of the programmer box. Otherwise make use of the 4p/10p cable from the same cctalk side.



B5- Make sure that the set COM Port is the one where the PC detects the programming interface (check Control Panel / Device Management on your PC); if necessary, change the setting to the correct Port no.

B6- Turn on power to the programming box (press green switch): the reader will blink green. COM port: the software will find it automatically; otherwise, see NOTICE in Section E at end of paper.

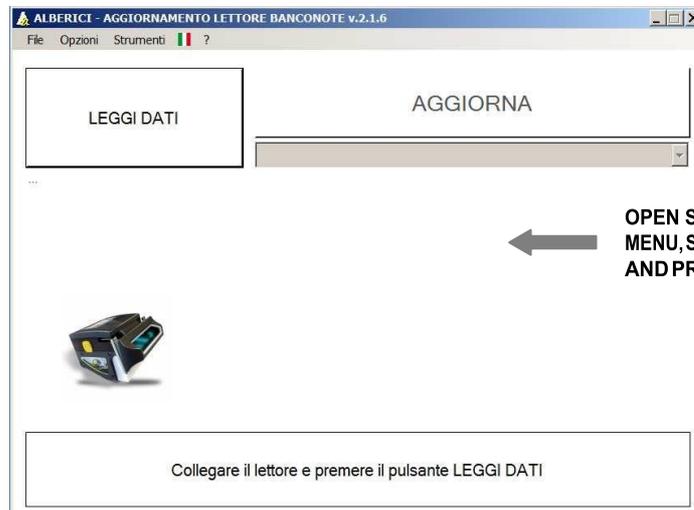
B7- Open the application “AlbericiUpgLetture.exe”. The following window will be shown:



Press “No” in case you want to use again the same file for another BillyOne note acceptor.

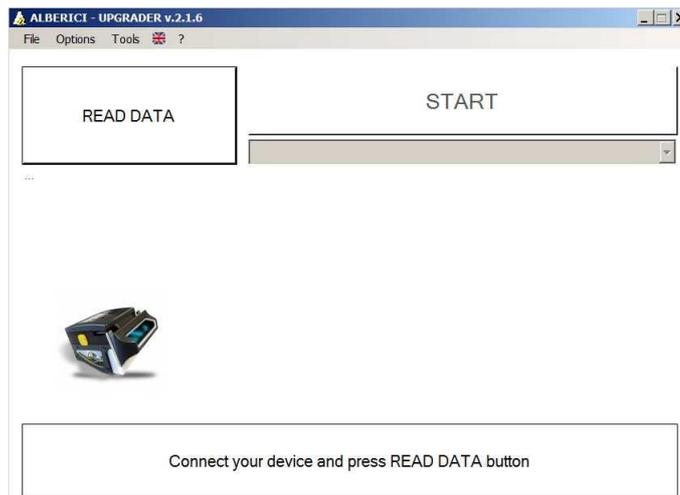
Go to B8. If instead the question in the box is in the Italian language, click on the NO button to change the language as follows. The following dialogue window will appear:

CLICK on the flag to change language to English

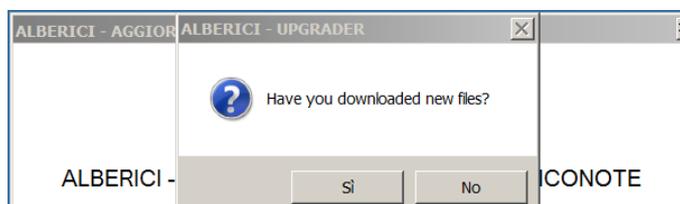


OPEN SCROLL MENU, SELECT 'ENG' AND PRESS 'OK'

The following dialogue window will then be displayed:

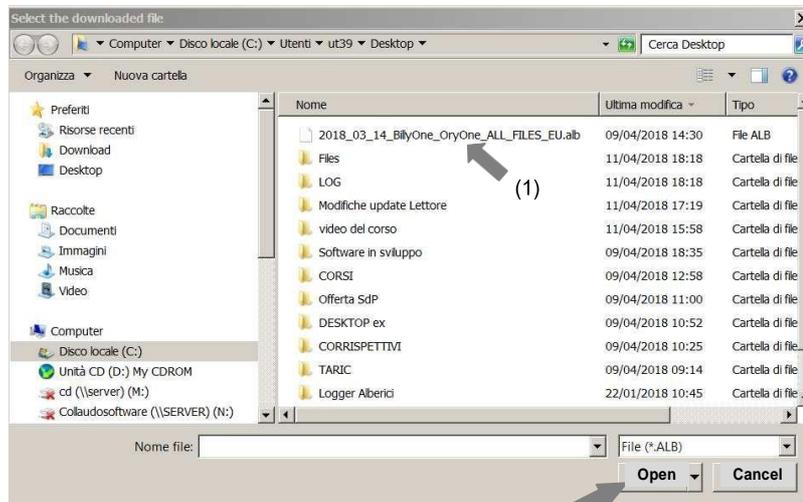


Close the application and launch it again: the box in English language will prompt you:

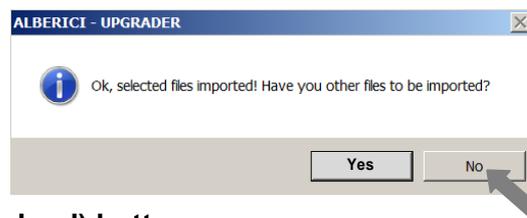


B8- Press “Yes” if you want to update a newly downloaded firmware to the validator. Press “No” if you want to use an old firmware file that you already have in your PC.

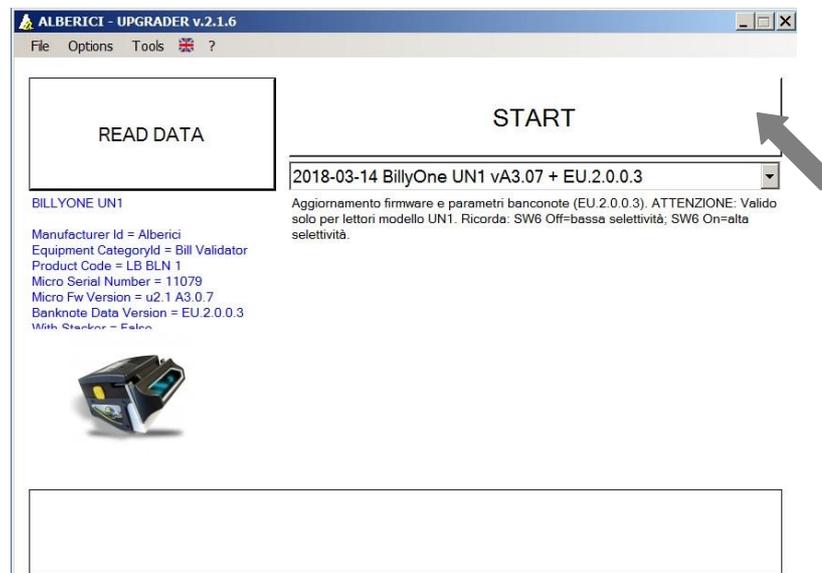
In the navigation window (below), find the update file ("20..... BillyOne_OryOne..... .alb"), and select it. Then press the "Open" button to confirm the selected file.



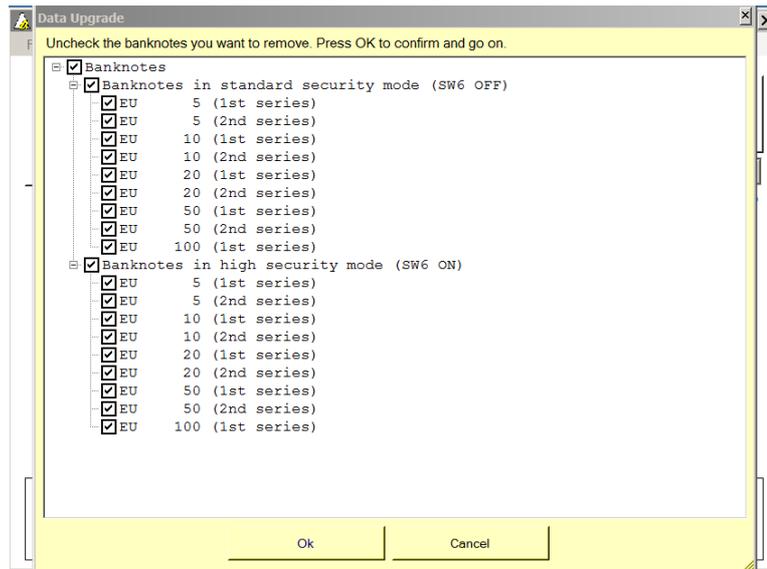
B9- The application will transfer the file name in its portfolio (List of files), and ask if other files must be downloaded. Choose "No":



B10- Press the “START” (Download) button:

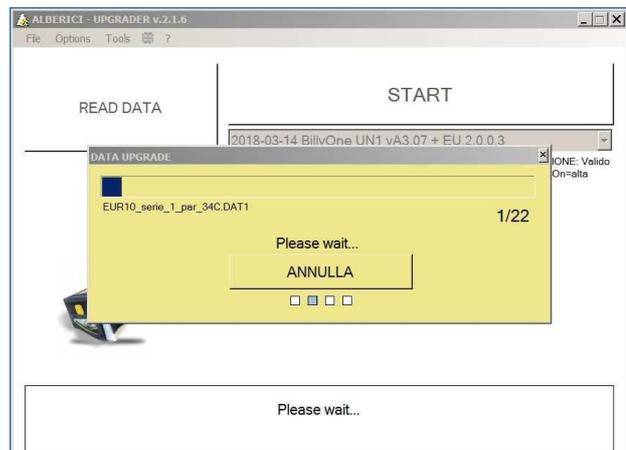
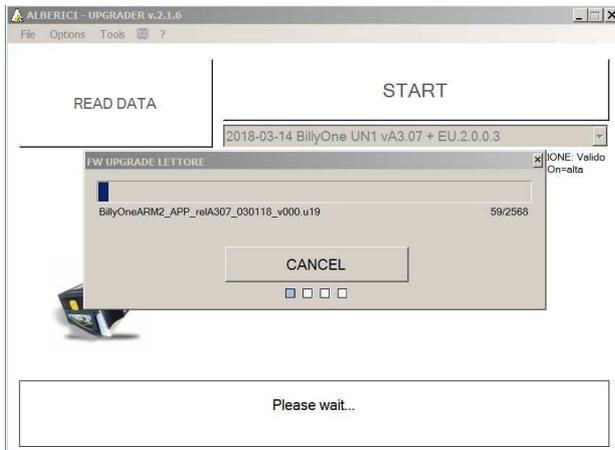


A new setting window will open up, showing the note denominations that will be programmed. It is possible to remove the tick from the denominations that must not be programmed. Starting with version ARM 2, limited to the Euro files, it is also possible to set which denominations should be processed under security standard and which ones under high security mode. This way, it is possible to disable denominations without going through the process of setting dip-switches and slipping the banknotes into the validator.

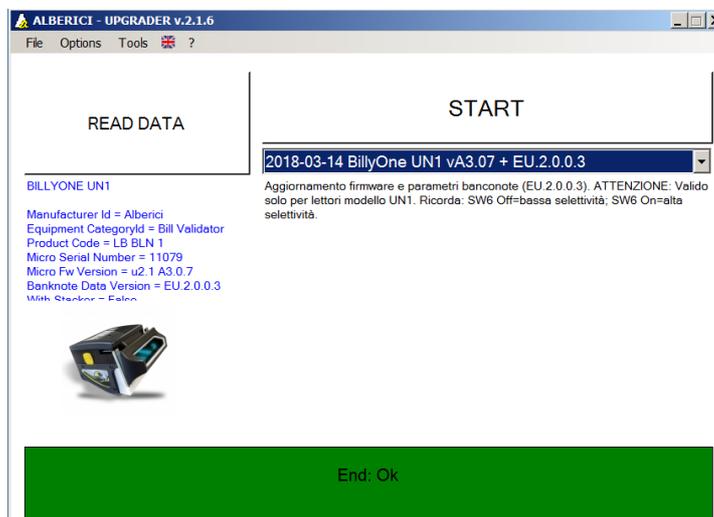


Leave the tick on the denominations that you want to be processed only under standard mode, remove the tick from the ones that you want to be processed only under security mode. Remove both ticks (standard mode and security mode) from the denomination(s) that you do not want to be accepted.

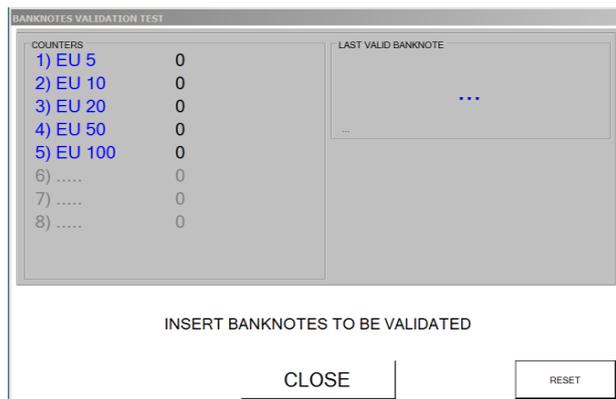
B11- The system will prompt you to wait ('Please wait...'), then the Status box "FW UPGRADE" will appear, and download will be started. The process takes two steps, one being the loading of the firmware, the second being the loading of the data of banknote denominations.



The transfer process will take some minutes, after which a confirmation message will be shown.



B12- To test proper operation, open the menu Tools/banknotes validation test.

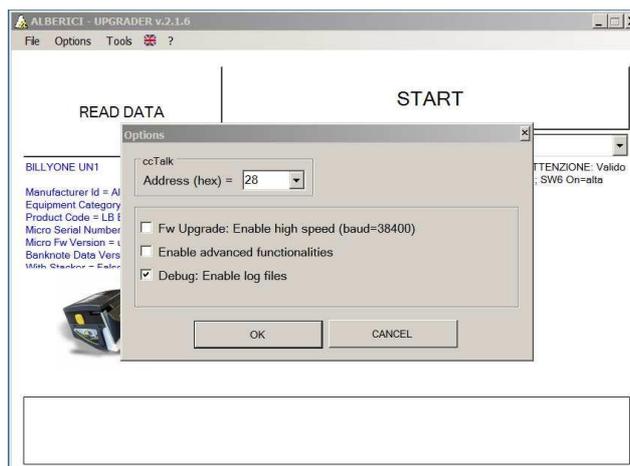


As each banknote is accepted, the monitor window will update the COUNTERS amount.

It is possible to calibrate the Note Validator, as well as to set it for High or else Low Discrimination Rate. See Sections C and D.

C) ANTI-FRAUD SETTING (HIGH vs LOW DISCRIMINATION)

In the 'Options' Menu select 'Advanced'; the following prompt will be shown:



Tick the 'Enable advanced functionalities' box, then press OK button. So preset, the validator will prompt you to choose between High Sensibility (factory default) and Low Sensibility of the optic sensors, whenever you will try to start the Calibration process.



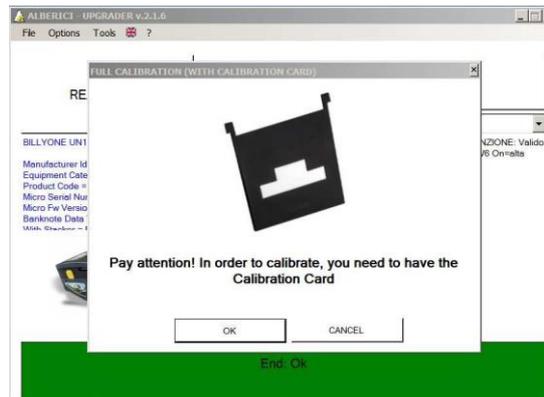
D) CALIBRATION OF THE NOTE VALIDATOR

Calibration should be carried out when acceptance rate decreases substantially, and/or after thorough cleaning of the note validator and particularly of its optic sensors glasses.

Full Calibration requires usage of the Alberici Calibration Card (AA-0245). A more basic calibration (Partial Calibration) can be carried out as well without such Card.

Open the Tools Menu and select 'Calibration', then 'Full Calibration' or 'Partial Calibration'.

D1- Full Calibration. Choosing the first one, you will be prompted to use the Calibration card. Place the Card and press OK.



If the 'Enable advanced functionalities' box in 'Options/Advanced' has been ticked, the program will ask to choose between High Sensibility (factory default) and Low Sensibility. Tick the desired choice, then OK.

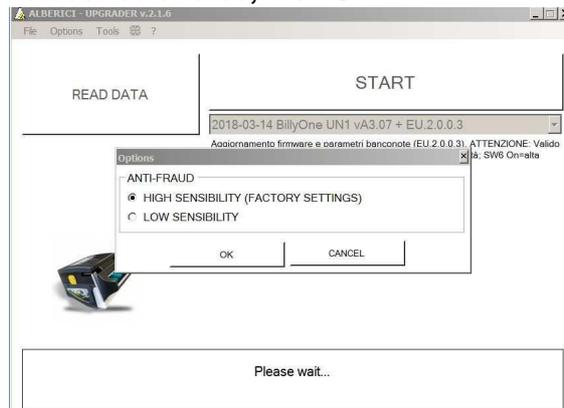


Once made your choice, or straight away if the 'Enable advanced functionalities' box has not been preset, calibration will start. If the card is not in, the system will remind you to insert it and restart the process:

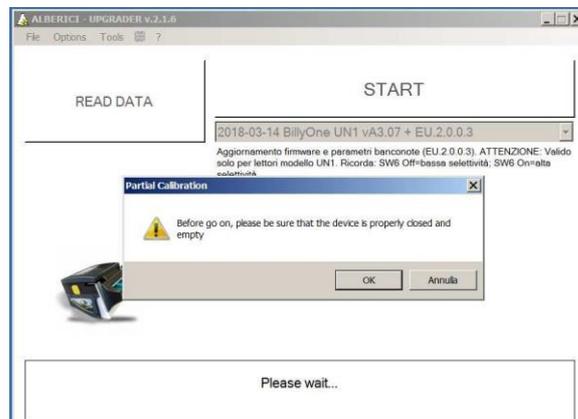


Once positioned the Calibration Card, press OK button and wait until confirmation of process ended.

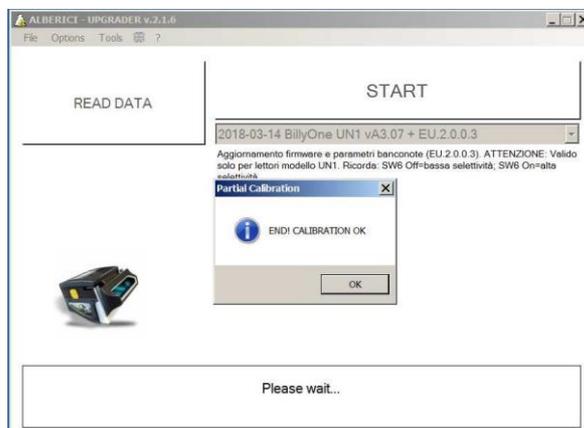
D2- If you choose 'Partial calibration', and the 'Enable advanced functionalities' box has been ticked in the 'Options/Advanced', the program will ask to choose between High Sensibility (factory default) and Low Sensibility. Tick the desired choice, then OK.



Once made your choice, or straight away if the 'Enable advanced functionalities' box has not been preset, you will be reminded to check that the validator is empty and closed.

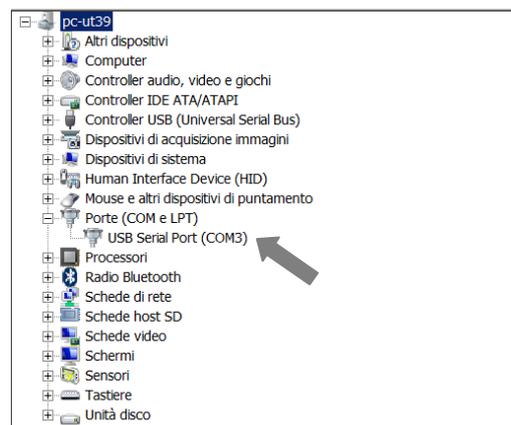


Press OK: shortly after, the program will confirm the end of the Partial Calibration:



E) COM PORT:

NOTICE: The software finds automatically the COM Port no. If the COM Port set by the application is not correct, a dialogue window will inform that the COM Port is wrong. In this case, open the Options menu and set the proper COM Port No. To find it, check your Pc for "Control panel/Device management/COM/LPT Ports".





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