

PhotoEuro³ Firmware Upgrade

Listed below you can find the instruction to upgrade the firmware of your PhotoEuro³.

Before starting the following procedure read all the *PhotoEuro³ Firmware Upgrade.pdf* document and be sure that your PhotoEuro³ is properly connected to the PC.

- Section A) Preliminary operation
- Section B) Connection of the PhotoEuro³ to the PC
- Section C) Settings of Hyper Terminal software
- Section D) Upgrading sequence

A) Preliminary operation

- 1) Save the upgraded firmware file in a folder on your PC
- 2) Get the Power Supply (fig. A.1) and the Ph3-PC Cable (fig. A.2) provided with the PhotoEuro³ device.



Fig. A.2: Power Supply



Fig. A.3: Ph3-PC Cable

WARNING

To connect PhotoEuro³ to the PC, only use Ph3-PC Cable provided by Photovox. PhotoEuro³ use a Serial Communication Protocol, NOT a USB Communication Protocol

- if your PC is provided with COM port (fig. A.3), no other devices are needed.
- if your PC is NOT provided with COM port, but with USB port (fig. A.3) a **Serial-to-USB adapter** is needed.

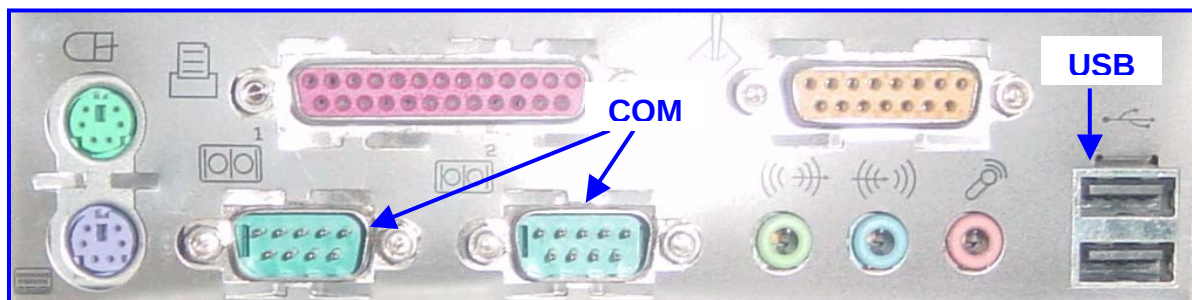


Fig. A.3: COM port and USB port of PC

B) Connection of the PhotoEuro³ to the PC

- 1) Remove the cover of the PhotoEuro³ connector (fig. B.1)



Fig. B.1: PhotoEuro³ connector cover

- 2) Insert the miniusb-b connector of the Ph3-PC Cable into the PhotoEuro³ connector (fig. B.2)



Fig. B.2: Insertion of the cable in the PhotoEuro³

If you use the COM port of the PC:

- 3a) Insert the DB-9 female connector of the Ph3-PC Cable into the COM port of the PC (fig. B.3)

If you use the USB port of the PC:

- 3b) Insert the DB-9 female connector of the Ph3-PC Cable into the DB-9 male connector of the Serial-to-USB adapter (fig. B.4) and connect the adapter to the USB port of the PC (fig. B.5)



Fig. B.3: Insertion of Ph3-PC Cable into COM port of PC



Fig. B.4: Insertion of Ph3-PC Cable into Serial-to-USB adapter



Fig. B.5: Connection of Serial-to-USB adapter to USB port of PC

C) Settings of Hyper Terminal software

- 1) Launch the Hyper Terminal Software (fig. C.1)

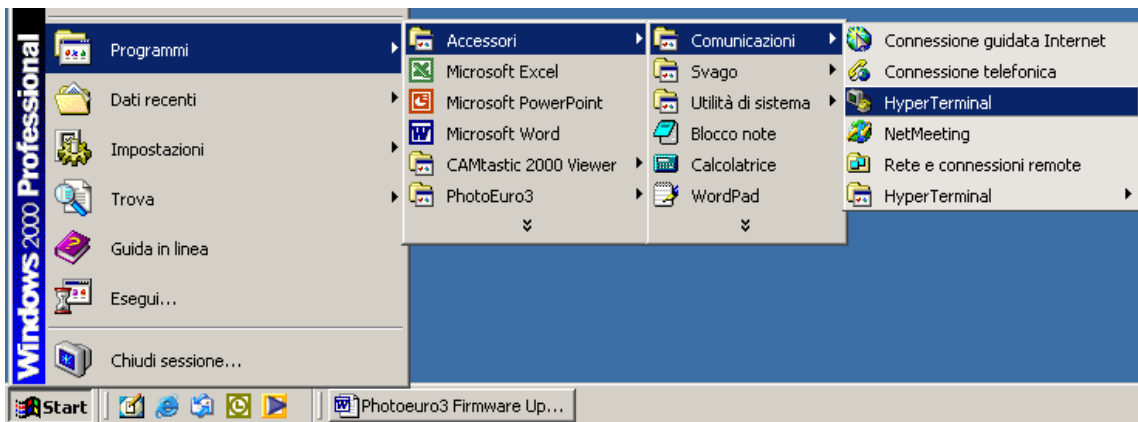


Fig. C.1: Hyper Terminal Software; path: Program/Utilities/Communication

- 2) If first time you connect the PhotoEuro³ to the PC for upgrading, create a new connection (i.e. Ph3 Upgrade) (fig. C.2)

NB

If you previously saved a connection for PhotoEuro³ upgrading, you can open it and pass directly to *Upgrading sequence* (SECTION D).

- 3) Select the port of the PC where you connect the PhotoEuro³ (fig. C.3): COM1 or COM2, depending on the socket;



Fig. C.2: Create a new connection



Fig. C.3: Select communication port

- 4) Set the communication parameters of the port as shown in figure C.4
- 5) Select Properties from *File* menu (fig. C.5): a *Properties* windows will appear
- 6) Set the setting panel as shown in figure C.6
- 7) Select *ASCII setting* in the setting panel and configure as shown in figure C.7



Fig. C.4: Communication parameters:

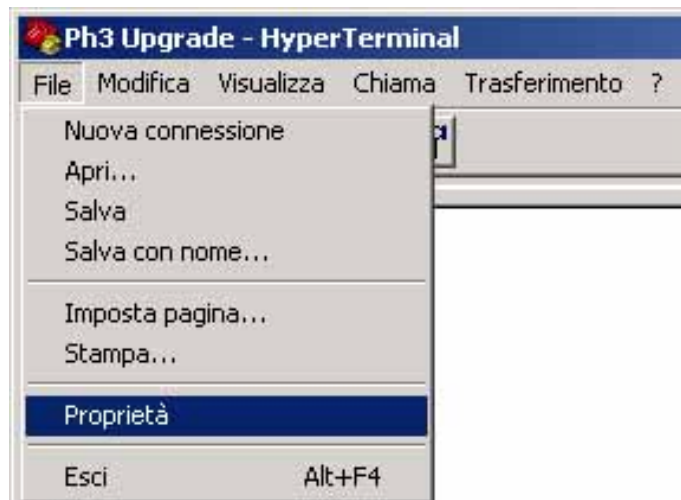
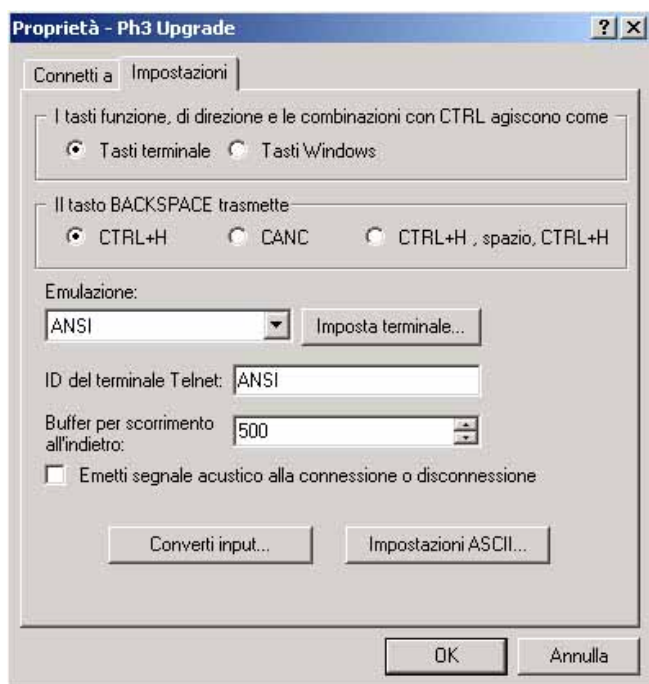
Fig. C.5: Select properties from *File* menuFig. C.6: Settings of *Properties* windows:

Fig. C.7: ASCII Settings:

WARNING

If upgrading sequence is started with Hyper Terminal setting different from above, the correct upgrade of the PhotoEuro³ is not guaranteed.

D) Upgrading sequence

- 1) Connect the Power Supply to the PhotoEuro³ (fig. D.1)



Fig. D.1: Power Supply connection

- 2) Push button “+” and “=” on the PhotoEuro³ at the same time (fig. D.2), to activate the serial communication: a *port active* symbol will appear on the display (fig. D.3)

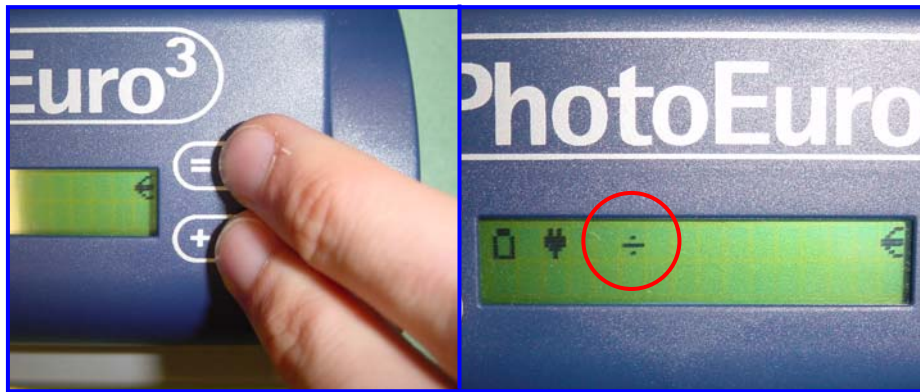


Fig. D.2: Press button “+” and “=”

Fig. D.3: Port Active symbol

- 3) Hyper Terminal software must be on and set as described in SECTION C; type **v** and **RETURN** on the keyboard: the version of your PhotoEuro³ firmware will be shown in the Hyper Terminal windows (fig. D.4)

NB

In the Hyper Terminal windows will be just shown messages sent by PhotoEuro³; command typed on the keyboard are not shown.

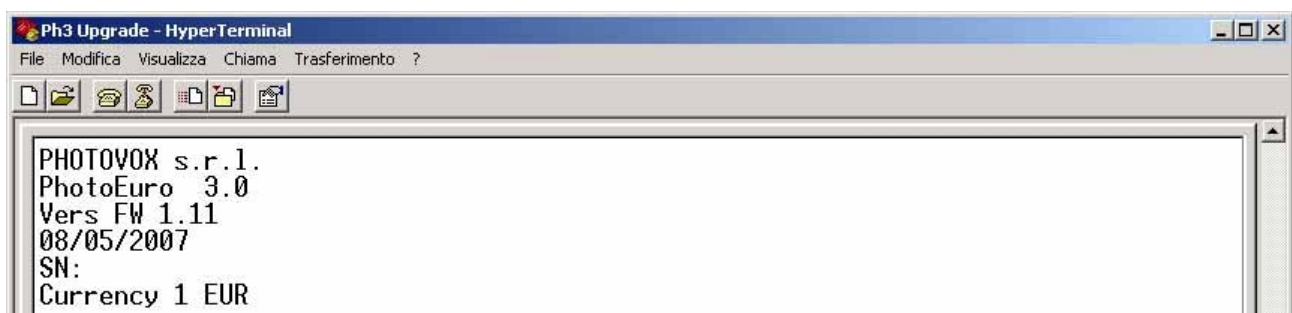


Fig.D.4: Type “v” and RETURN on the keyboard; PhotoEuro³ firmware version will be shown

- 4) Remove the power supply from PhotoEuro³ and replace it again (fig. D.5)

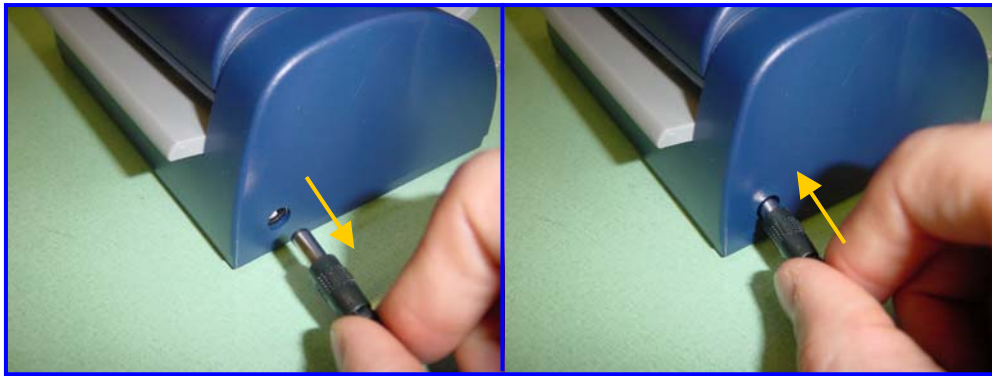


Fig. D.5: Removing and replacement of the Power Supply connector

- 5) Within 5 second type character **b** on the keyboard many times, until a message is shown in the Hyper Terminal windows (fig. D.6 in red)
- 6) Within 5 second type character **y** to confirm the upgrading procedure; a message is shown in the Hyper Terminal windows (fig. D.6 in blue)

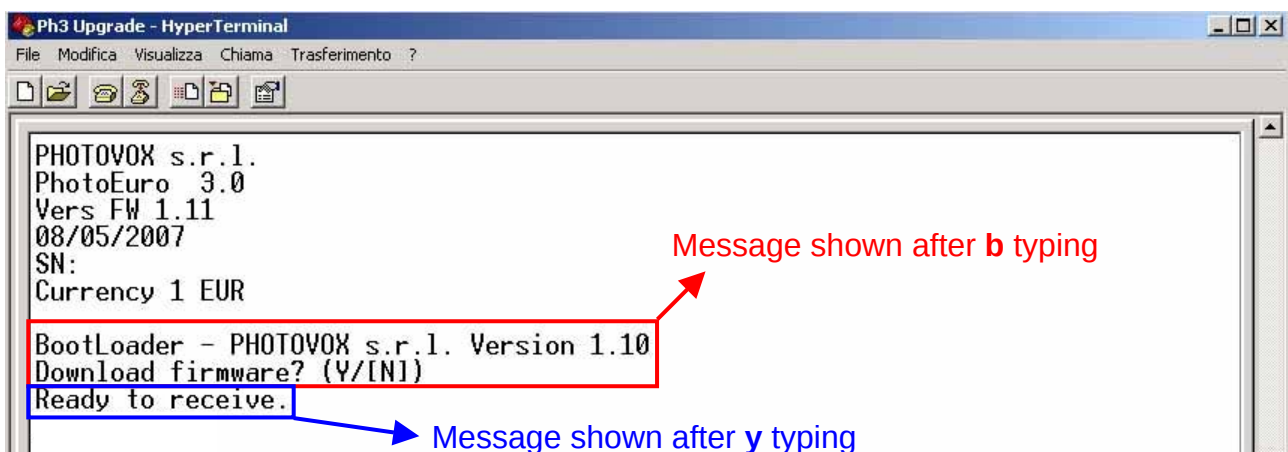


Fig. D.6: Messages shown after typing character **b** (in red) and **y** (in blue)

- 7) Select *Send text file* in the *Transfer* menu of Hyper Terminal software (fig. D.7): a selection window will appear

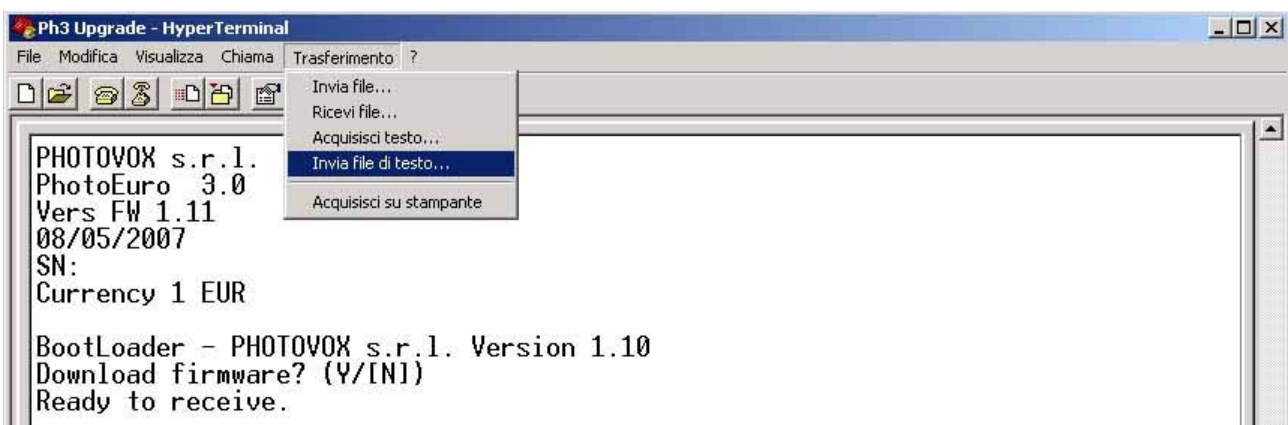


Fig. D.7: Select *Send text file* from *Transfer* menu

- 8) Select *all files* in the selection windows (fig. D.8 in red) and select the upgraded firmware file to download from the folder created in SECTION A (FIG. D.8 in blue)

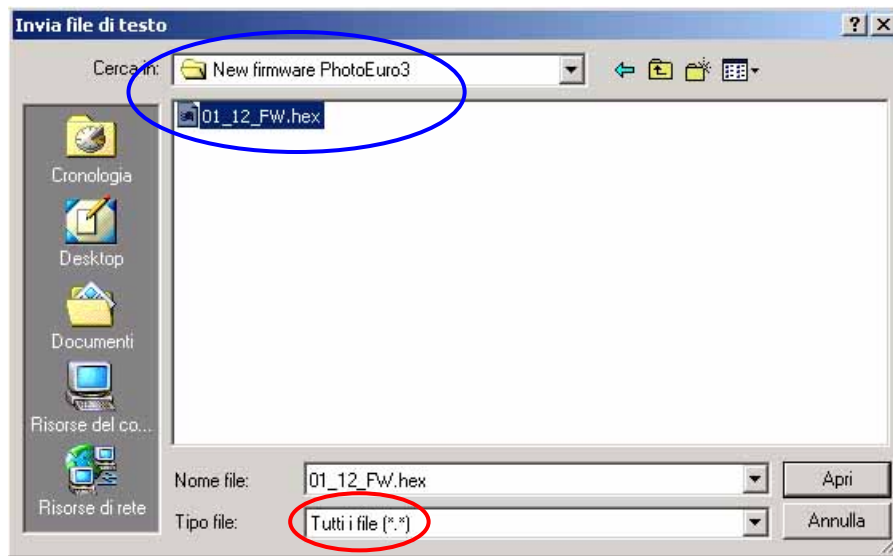


Fig. D.8: Selection windows; select *all files* (in red) and the new firmware from correct folder (in blue)

Download of upgraded firmware will start; during the download the red&green led will blink and writing operation will be shown in the Hyper Terminal windows (fig. D.9)

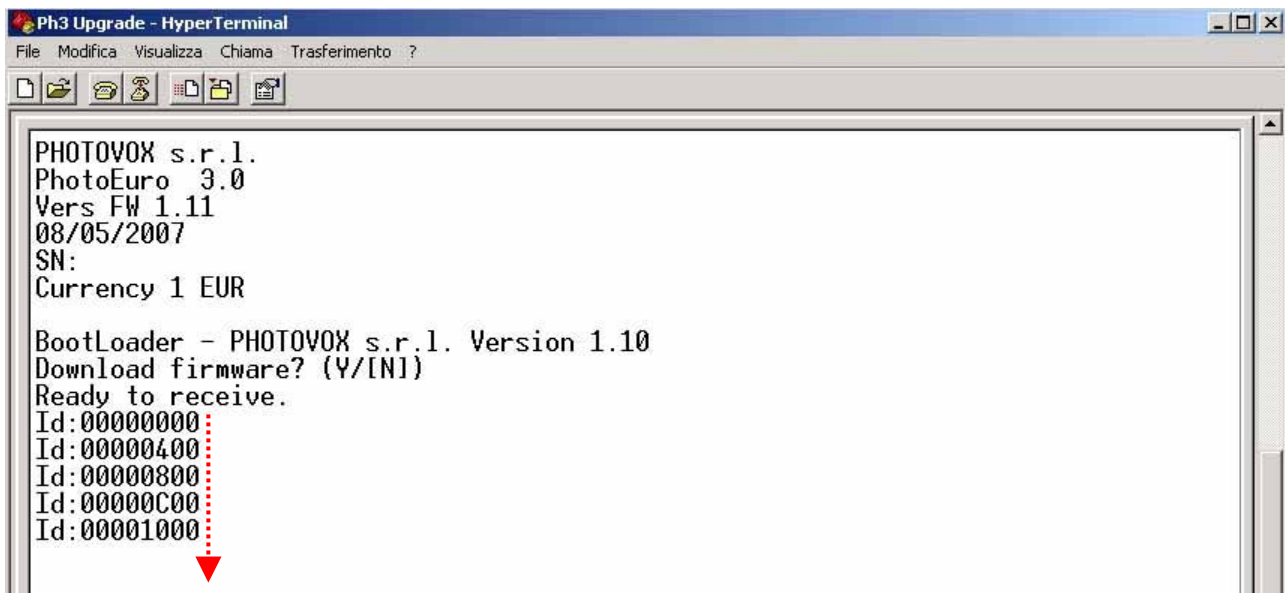


Fig. D.9: Messages shown during writing operation

WARNING

Do not turn off the PC or the Hyper Terminal software or disconnect cable during writing operation. Interruption of download may damage irreversibly the PhotoEuro³. It is preferable not to use the PC for other activities during download.

At the end of the download a message will be shown:

- CRC OK if firmware upgraded;
- CRC FAIL if not upgraded; check the Hyper Terminal settings (SECTION C) and start Upgrade procedure again (SECTION D)

9) Push button “+” and “=” on the PhotoEuro³ at the same time (fig. D.2), to activate the serial communication again: a *port active* symbol will appear on the display (fig. D.3)

10) Type “v” and RETURN on the keyboard: the new version of your PhotoEuro³ firmware will be shown in the Hyper Terminal windows (fig. D.10)

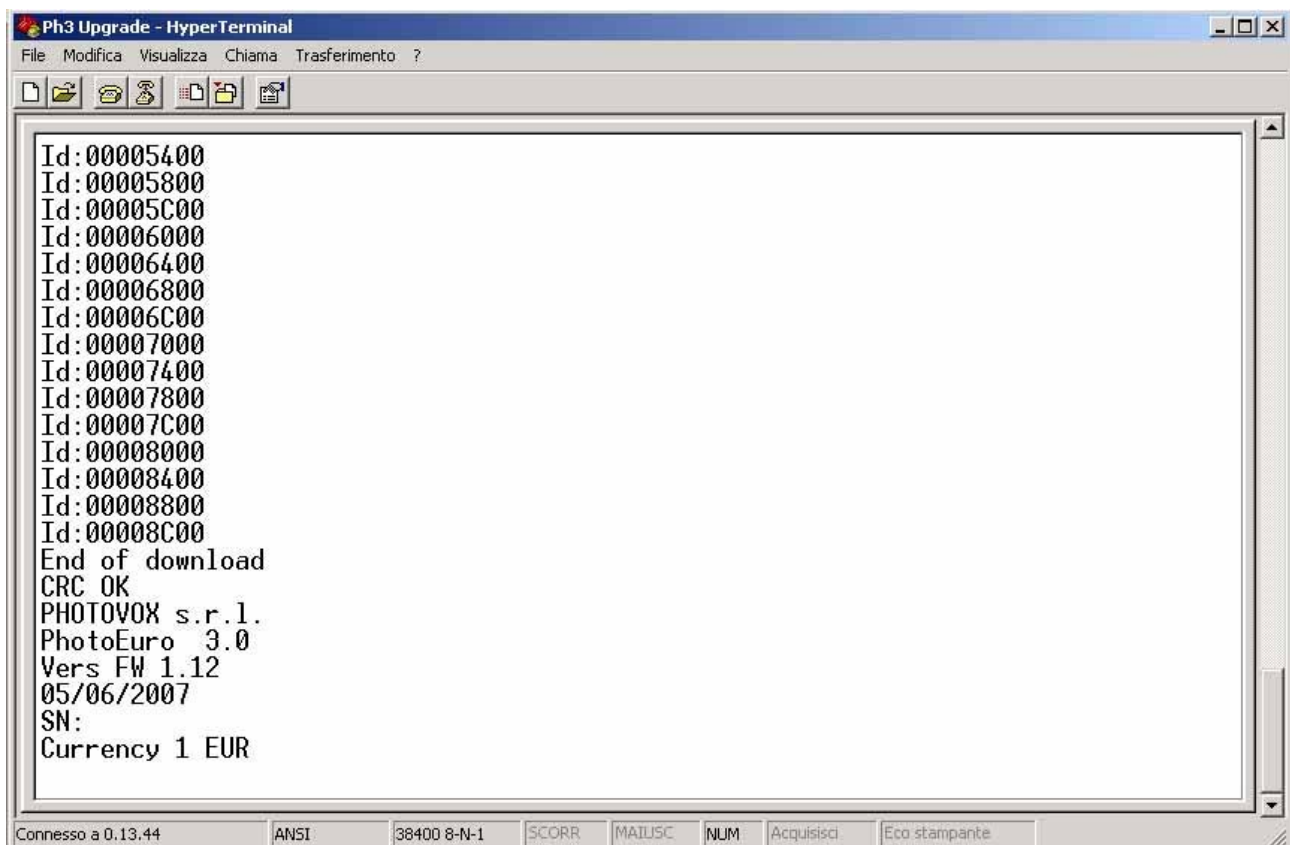


Fig. D.10: Control of the upgraded version at the end of download