

BARBIERI Software

Densitometer Driver for Windows

&

Operating Manual

(Edition 2)



BARBIERI
electronic
When Quality counts

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Copyright Notice

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Please see the BARBIERI License Agreement in chapter 6 for legal information on the software. You are invited to read it before opening the enclosed disk case, for by opening it you indicate your acceptance of the BARBIERI Licence Agreement covering this product.

Product Support

For any further questions about this software please contact your dealer. Product support is also available directly from BARBIERI electronic at the address as listed below. Please indicate the software version and the system configuration you are using.

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1. Introduction

The BARBIERI densitometer driver for Windows is a program which permits you to input the densitometer measuring values automatically into any Microsoft Windows application (e.g. Excel, Lotus 123, Word).

The software converts the received measuring values of a BARBIERI densitometer into key strokes. Your densitometer must be connected to the serial RS232C port of the computer.

The program is working under the following Microsoft operating systems: Windows, Windows for Workgroups, Windows 95, Windows NT.

Please note that this program can be used **ONLY** with BARBIERI densitometers. The use with densitometers from other manufacturers is forbidden.

2. Installing the software on your computer

Install the software on your computer by running the "SETUP" program on the disc. The setup program will copy the necessary files on the computer and create a program icon in the program manager group or in the Windows 95 start menu.

Tip:

If you want the software to run in the background automatically after switching on the computer, you can move the program icon into the "Autostart" group in the program manager of Windows 3.1, 3.11 and NT 3.5 or place it in the StartUp directory of Windows 95, NT 4.0.

If the option "Start minimized" is set in the densitometer driver, the program will load and run in the background automatically.

3. Connecting the densitometer

Setup of Densitometer

Both the densitometer and the computer must use the same baudrate (communication speed). Set up the densitometer for serial communication with the BARBIERI CIF (Computer Interchange Format). See user manual of densitometer. Please select a baudrate of 1200 Baud and remember the baudrate used.

On the BARBIERI tabletop densitometer you must activate the "autoprint" option in order to automatically send the values to the computer after each measurement. The BARBIERI compact densitometers have this feature automatically activated.

Cable connection

For connecting the densitometer to your computer you need an RS232C interface cable code no. K010130 or any null-modem cable as used to connect personal computers together.

The serial port on the computer side (also called COM port) will have either a 9pin or a 25pin plug. Use only ONE plug on the cable.

4. How to use the software

Step by step instructions

1. Start the software by double-clicking on the program icon.

The window *Densitometer Driver-DensDrv* appears on the screen.

2. Adjust the options to your needs:

Serial port settings Choose the communication port to use and the baudrate. Set "open port" in order to initialize the serial port and to be ready to receive the data.

Values Choose the desired values to be output

Delimiter Choose one of the predefined delimiters (the character between the values). The last option enables you to input a free delimiter sequence. Any key code as listed below can be used in addition to the standard ASCII characters.
E.g.: "{Tab}{Down}{Right}Values= "

Append Choose the characters which will follow the densitometer values. The last option enables you to input a free sequence. Any key code as listed below can be used in addition to the standard ASCII characters.

Beep on incoming values If set, the computer will notify with a sound that new values have been received.

Start minimized If set, the program will start minimized the next time it is run.

3. Test the connection:

Make sure to have set the "open port" option.

Make a measurement with the densitometer.

The measurement values will appear in the output field on the screen.

4. Open a desired Microsoft application (e.g. Excel, Word)

5. Place the cursor in a position where you want the measured values to be inserted.
Make a measurement with the densitometer.
The values appear directly within the application.
6. To quit the BARBIERI Densitometer Driver for Windows choose File/Exit.

In case of problems

Under Windows 3.1, 3.11, NT 3.5:

1. Open the "Terminal" program of Windows which you can find in the Program Manager under the Accessories.
2. When asked for the serial port parameters, select the serial port on which the densitometer is connected and choose the same baudrate as on the densitometer. The remaining parameters are as follows: Data bits=8, Parity=none, Stop Bits=1, Protocol=none.
3. Confirm these settings with OK. If no warning appears, the cursor will appear inside the terminal window and the program is now ready to receive data from the densitometer.
4. Please make a measurement with the densitometer. The density values must appear on the display of the computer.

Under Windows 95, NT 4.0:

1. Open the "Hyper Terminal" program of Windows 95 which you should find in the Start Menu under Accessories.
2. When asked for the new connection description type in "Densitometer" and confirm with OK.
3. The "Phone number" dialog box appears. Please go to "Connect to" and choose "Direct to COMx".
4. You are then asked for the serial port parameters. Please select the parameters and test the densitometer as described above.

If you have problems receiving the densitometer values with the above test procedure, you should check the densitometer settings and the cable connection.

5. Key codes summary

The following keys can be simulated and the listed key code is accepted by the software in the free defineable Delimiter and Append fields.

Key	Key code to be entered
Enter	{Enter}
Esc	{Esc} or {Escape}
Caps Lock	{Capslock}
Num Lock	{Numlock}
Scroll Lock	{Scrollock}
Help	{Help}
PrtSc	{Prtsc}
Tab	{Tab}
Break	{Break}
Clear	{Clear}
Backspace	{Backspace} or {Bs} or {Bksp}
Delete	{Delete} or {Del}
Insert	{Insert}
Cursor left	{Left}
Cursor right	{Right}
Cursor down	{Down}
Cursor up	{Up}
PgUp	{Pgup}
PgDn	{Pgdn}
Home	{Home}
End	{End}
F1... F16	{F1} ... {F16}
Time delay of 1 second	{Delay}

6. BARBIERI License Agreement

You are hereby licensed to use the software exclusively together with a BARBIERI densitometer. No densitometer from other brand names can be used with this software. You are not allowed to distribute this software or part of it without a written permission from BARBIERI electronic OHG.

Disclaimer of Warranty

THIS SOFTWARE AND THE ACCOMPANYING FILES ARE DISTRIBUTED "AS IS" AND WITHOUT WARRANTIES AS TO PERFORMANCE OF MERCHANTABILITY OR ANY OTHER WARRANTIES WHETHER EXPRESSED OR IMPLIED. Because of the various hardware and software environments into which this software may be put, NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS OFFERED.

Good data processing procedure dictates that any program be thoroughly tested with non-critical data before relying on it.

THE USER MUST ASSUME THE ENTIRE RISK OF USING THE PROGRAM.

7. About BARBIERI electronic

BARBIERI electronic are one of the world's leading manufacturers of photographic densitometers. Besides this software their product range consists of the following products for any photographic laboratory:

- Tabletop densitometers
- Hand-held densitometers
- Electronic safelights
- Quality control software

For more information please contact your nearest BARBIERI distributor or the factory.