Code: FG-50HD

CHARACTER GENERATOR OSD **FG-50HD**

Net: 123.17 EUR Gross: 151.50 EUR

The device is designed for display alphanumeric characters on the image from camera.

The FG-50HD device in connection with the SNIF-42 sniffer allows to capture the data sending from different devices via RS-232 port and display them on the picture from CCTV cameras. Examples of such devices can be eg.: fiscal printers and cash registers, scales, dynamometers, banknote counters, time & attendance recorders and others equipped with RS-232 / RS-485 port.

The device supports analog CCTV cameras with the following standards: PAL, AHD, HD-CVI, HD-TVI, in both resolutions 720p and 1080p.

From the video signal the FG-50HD operates as a loop-through device, equipped with signal input and output. It enables displaying an image from CCTV camera together with a list of registered products on shop sales stand of the fiscal printer. The device can be used as an extra protection of the sales stand. Allows to control the issued products in accordance with receipt.

In addition the FG-50HD can work in character terminal mode and display all character strings received from controlled device. An example can be displaying the weight, temperature, etc., from any sensor equipped with the RS-232 / RS-485 interface. You can customize the software to your needs, such as adding a new communication protocol that supports other devices than specified.

The FG-50HD and SG-55HD devices are hardware compatible. You can transform one to other using the software update. It means, if you have the FG-50HD you can migrate to the SG-55HD by uploading only its software, which is available on the manufacturer site. Exactly the other way round - you can migrate the SG-55HD to the FG-50HD.

From the firmware version 1.25 it is possible to modify and upload your own fonts. The device also has a graphical mode.

SPECIFICATION

Supported standards:	• PAL, • AHD-M, • AHD-H, • HD-CVI - 720p / 1080p, • HD-TVI - 720p / 1080p
Number of video inputs:	1 x BNC socket
Number of video outputs:	1 x BNC socket
Range RS-485:	1200 m
Video signal amplification:	0 dB
Maximal number of characters in one line:	50
Maximal number of lines:	40
Maximum number of characters on the screen:	2000
The ability to change font size:	✔
The ability to change the position of the titles:	✔
The ability to change the font and create own table of graphic characters:	✔
The ability to firmware upgrade:	✔

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Possibility to add new protocols:	✔
Keyboard lock:	–
Cross generator:	–
Power supply:	12 V DC / 200 mA (power adapter not included)
Support:	• printers compatible with POSNET, THERMAL, THERMAL (pharmacy) protocols • cash registers compatible with POSNET ("operations monitor" mode) • fiscal printers compatible with ELZAB, ELZAB (pharmacy, cash stand) protocols • NOVITUS, NOVITUS (pharmacy) fiscal printers • Alcotector fiscal printers • Innova fiscal printers • Detecs fiscal printers • Soehnle-professional fiscal printers • Epson fiscal printers • Tysso fiscal printers • fiscal printers compatible with UPOS protocol • other fiscal printers based on above protocols • money counters (eg.: Detectalia NEWTON), SORTER mode • the scales supporting the cougar 8530 protocol, eg.: METTLER TOLEDO 8530 • the AXIS, RADWAG, RHEWA scales • time & attendance recorders, eg.: EVR-2 • Communication via the RS-485 bus • the SG-1 mode – the protocol of SG-1 device operating in symbols display mode, ability to implement custom protocols • character terminal mode and hexadecimal displaying • You can customize the software to your needs, such as adding a new communication protocol that supports other devices than specified
Weight:	0.095 kg
Dimensions:	100 x 62 x 28 mm
Manufacturer / Brand:	DELTA
Guarantee:	**3 years**

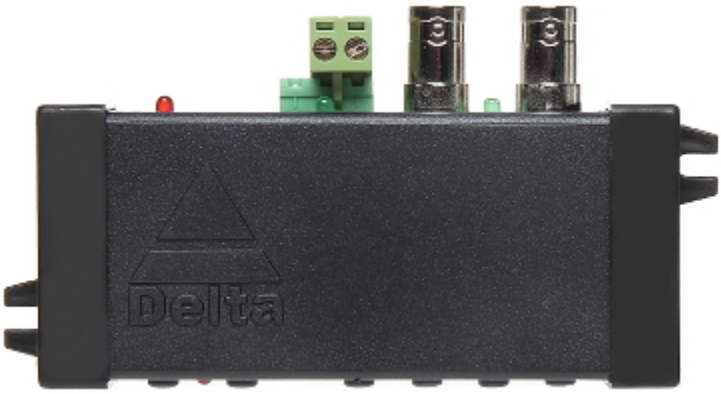
PRESENTATION

Front panel view:

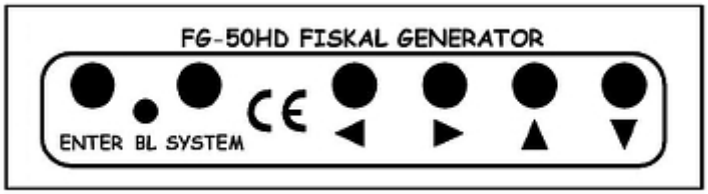
The SYSTEM key is used to choose a standard which is using by connected camera:
AHD, CVI, TVI, PAL

Rear panel view:

Top view:

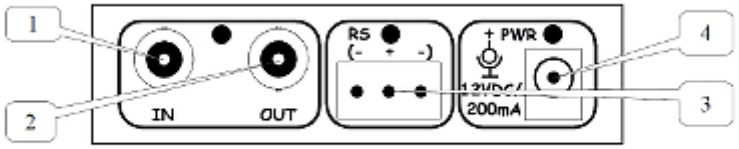


Front panel description:



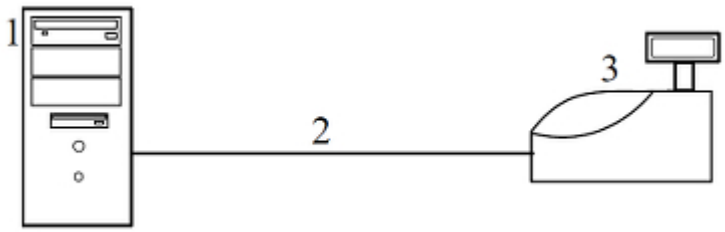
Configuration and changing the operation mode of the device is made by 6 keys used to navigate the on-screen menu visible after connecting the device to the receiver. The keys with arrows "up", "down" allow to navigate through the menu, the "ENTER" key allows to change the parameter value and enter to the sub-/top-menu, and the "SYSTEM" key is for manual selection of the supported system. The LED indicates that the device is in bootloader mode ready to update the firmware

Rear panel description:



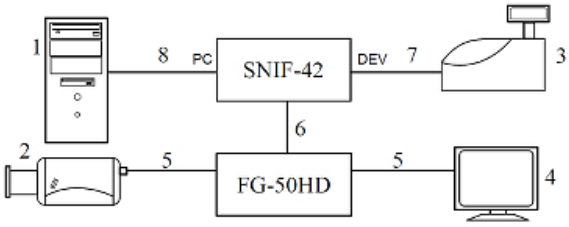
1) Video input
2) Video output
3) RS-485
4) Power supply

Description of the connecting to the fiscal printer:



1) Computer
2) RS-232 (printer cable)
3) fiscal printer

Configuration with using the FG-50HD:



1) Computer
2) Camera
3) fiscal printer
4) Monitor
5) Video signal
6) RS-485
7) RS-232 (printer cable)
8) RS-232 (1:1 extension cable)

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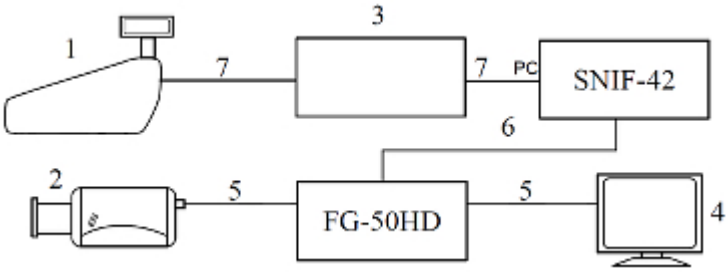
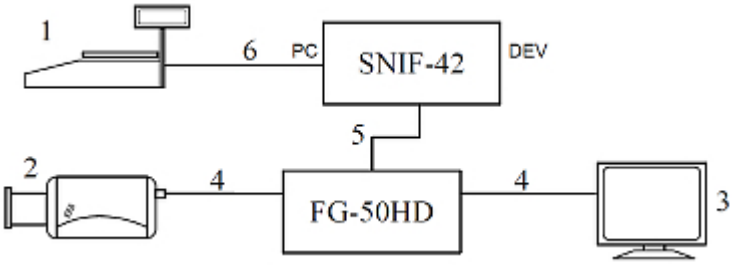
Configuration with using a cash register equipped with RS-232 output of the transaction monitor:



1) Cash register
2) Camera
3) Extension module (option)
4) Monitor
5) Video signal
6) RS-485
7) RS-232 (module cable)

Configuration with using a scale:



1) Electronic scale
2) Camera
3) Monitor
4) Video signal
5) RS-485
6) RS-232 (module cable)

Example of application:

Example of application:

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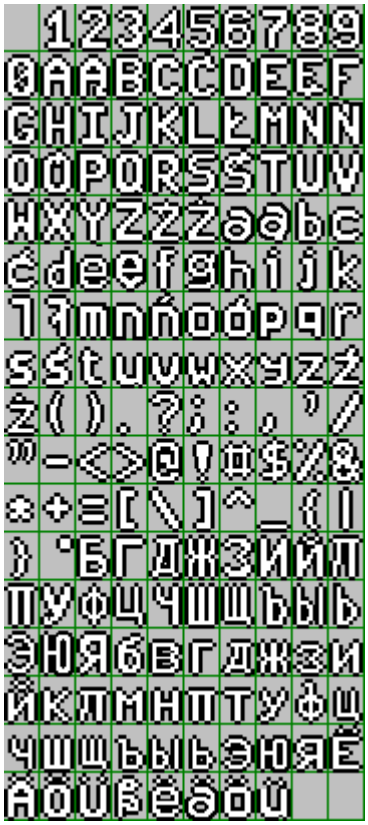
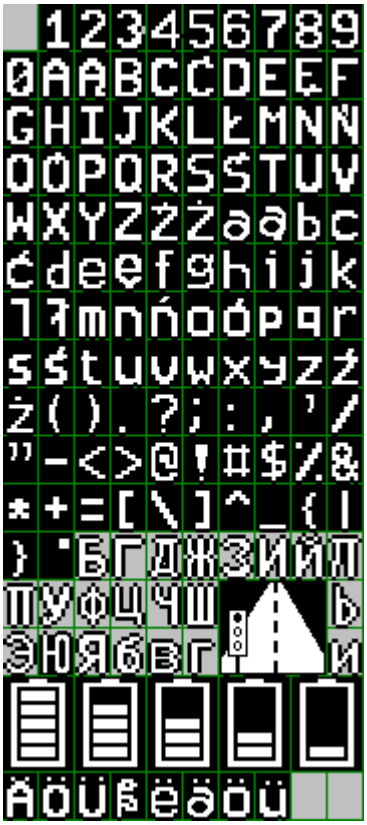
Example screenshots:

Images from receipts can be aligned to the different edges:

Font size is configurable:





Cooperation with ELZAB printer - lowercase 20 lines from the top:

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Cooperation with ELZAB printer - lowercase 40 lines from the bottom:

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Cooperation with ELZAB printer - uppercase:

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Cooperation with ELZAB printer - normal font, 40 lines, inscriptions on the right side:

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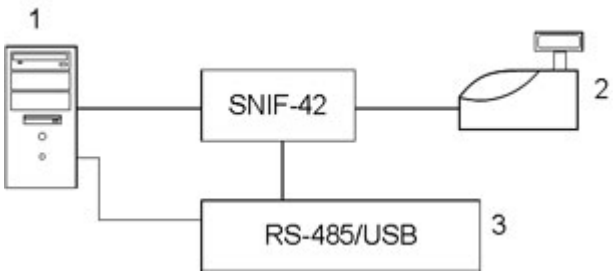
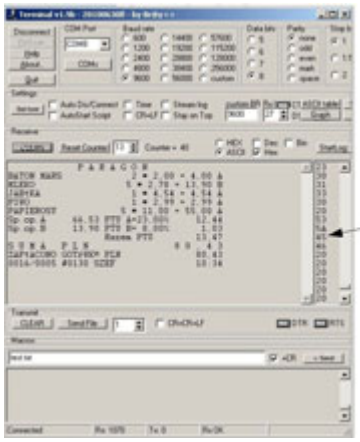
The data grabbing manual, to add a new protocol using the "Terminal" application:



Connect the system according to below scheme diagram. The SNIF-42 device should be connected to the transmission line between computer and the fiscal printer, without interfering with the fiscal printer. The SNIF-42 has the RS-485 signal output, which is normally connected to the FG-40 device. In this case should be connected via RS-485/RS-232 or RS-485/USB adapter to the computer.

1. Computer
2. fiscal printer
3. Converter between serial transmission interfaces of standards USB and RS-485

Start the terminal application on the computer eg. „Terminal v 1.9b”. Make a connection to the port which has connected the SNIF-42 device and capture one or more several different receipts. Copy the captured data and paste them to the „Hexplorer” application. Using this application save the data to a file.



The applications to data capturing (Terminal v 1.9b and Hexplorer software) you can download below.

Now mark all hex mode captured characters and copy them „ctrl + c”

Saved file with receipt photocopy should be sent to our Technical Department to implement a new protocol.

Cooperation with banknote counting machine:

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The data grabbing manual, to add a new protocol using the "FG data grabber" application:

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