

Code: OSD-50HD

CHARACTER GENERATOR **OSD-50HD**

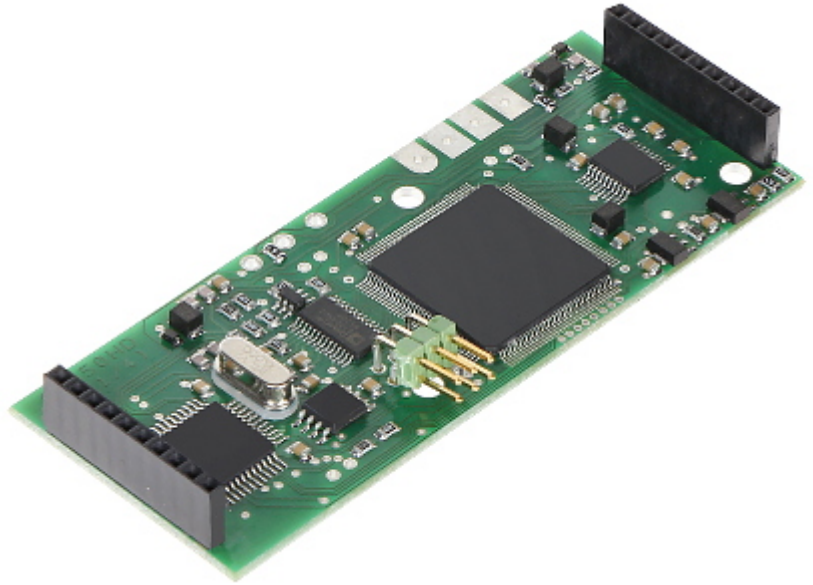
Net: **113.84 EUR** Gross: **113.84 EUR**

The device is designed to display alphanumerical characters, raster graphics and vector graphics on the image from camera.

The OSD-50HD is produced as a PCB and dedicated for devices, where simultaneous observation of the image is required as well as the reading of data sent from the sensors placed in the device. Assuming OSD-50HD cooperation with such solutions as Arduino or Nucleo, we recommend using the PORT-22 converter in addition.

From the video signal the OSD-50HD operates as a loop-through device, equipped with signal input and output. The device control protocol can be found in the technical documentation.

For more information about OSD systems, visit www.osd.systems



SPECIFICATION

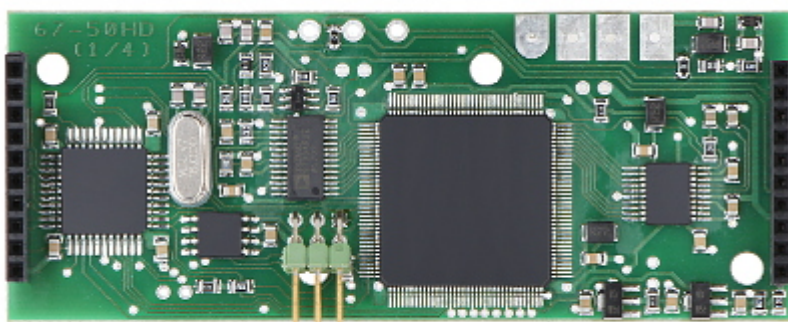
Supported standards:	AHD, HD-CVI, HD-TVI
Video signal amplification:	0 dB
The ability to change the font and create own table of graphic characters:	✓
Built-in KF protocols (cash registers):	—
Possibility to add KF protocols (cash registers):	—
Vector graphics support:	✓
Raster graphics support:	✓
The ability to firmware upgrade:	✓
PCB casing:	—
Built-in stabilizer:	—
Communication:	UART 3.3 V
Communication using optional devices:	PORT-22
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:	✓
Cross generator:	✓
Keyboard lock:	—
Power supply:	• 3.3 V DC • Powering from PORT-22

Current consumption:	240 mA (both inputs: 3V3A and 3V3D)
Support:	• 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:	0.02 kg
Dimensions:	91 x 36 x 11 mm
Manufacturer / Brand:	DELTA
Guarantee:	3 years

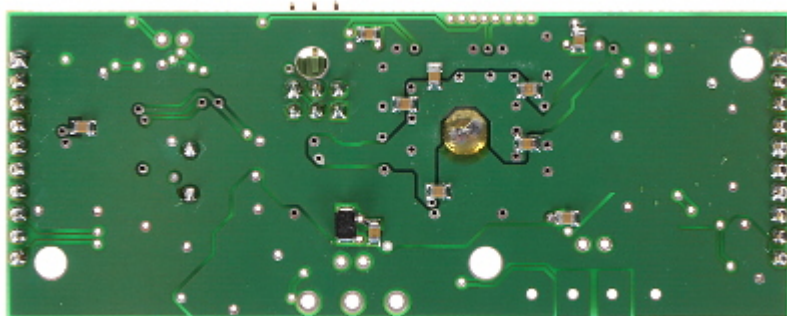
PRESENTATION



Top view:



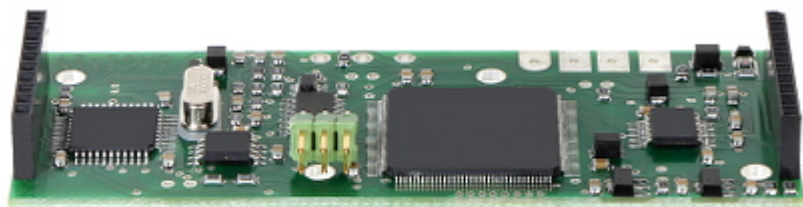
Bottom view:



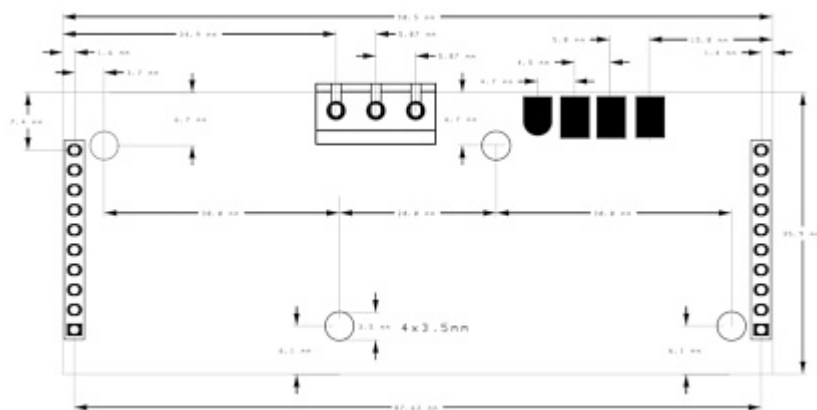
Front view:



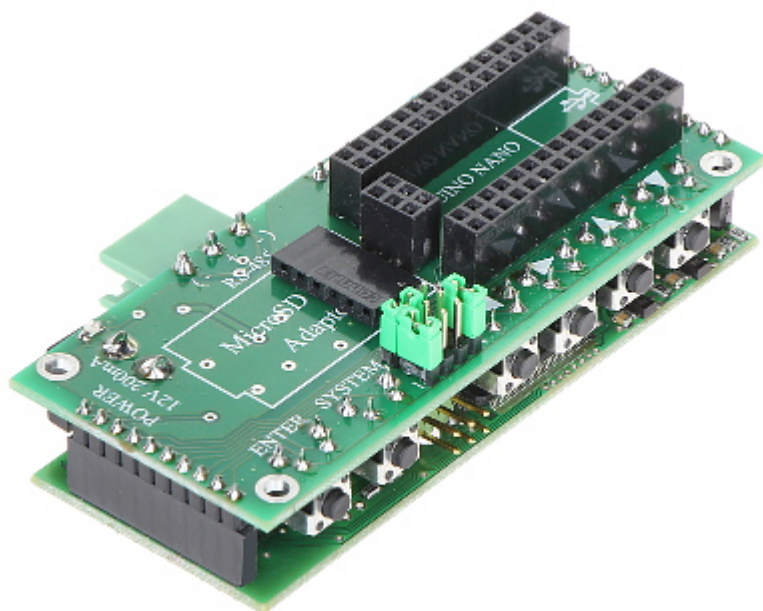
Connectors:

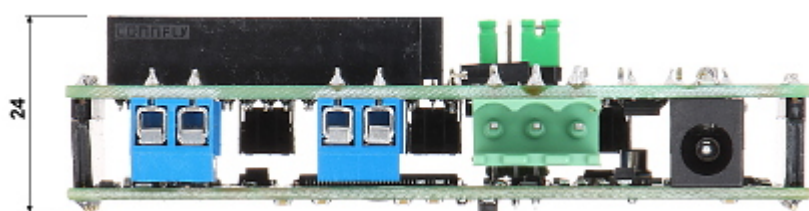
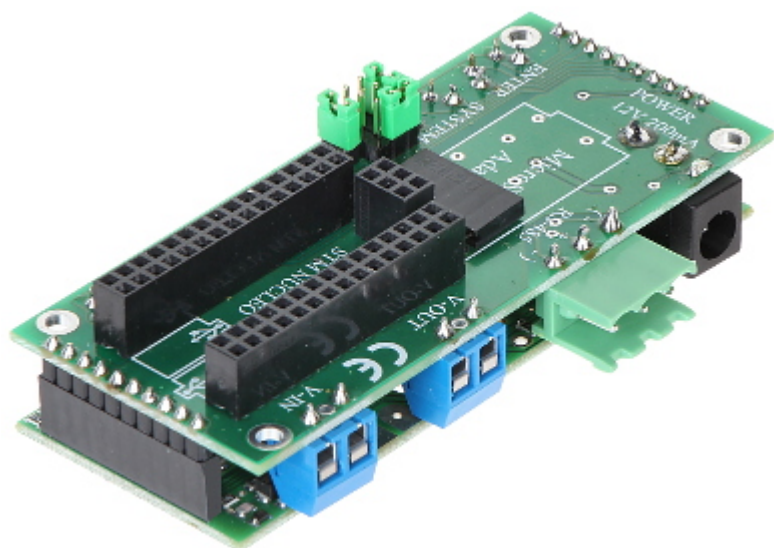


Dimensions:

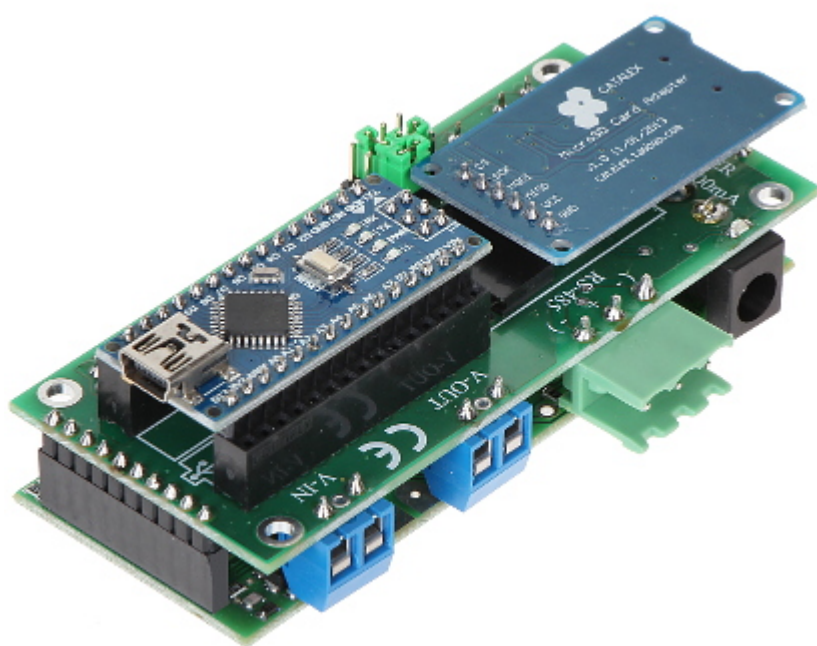


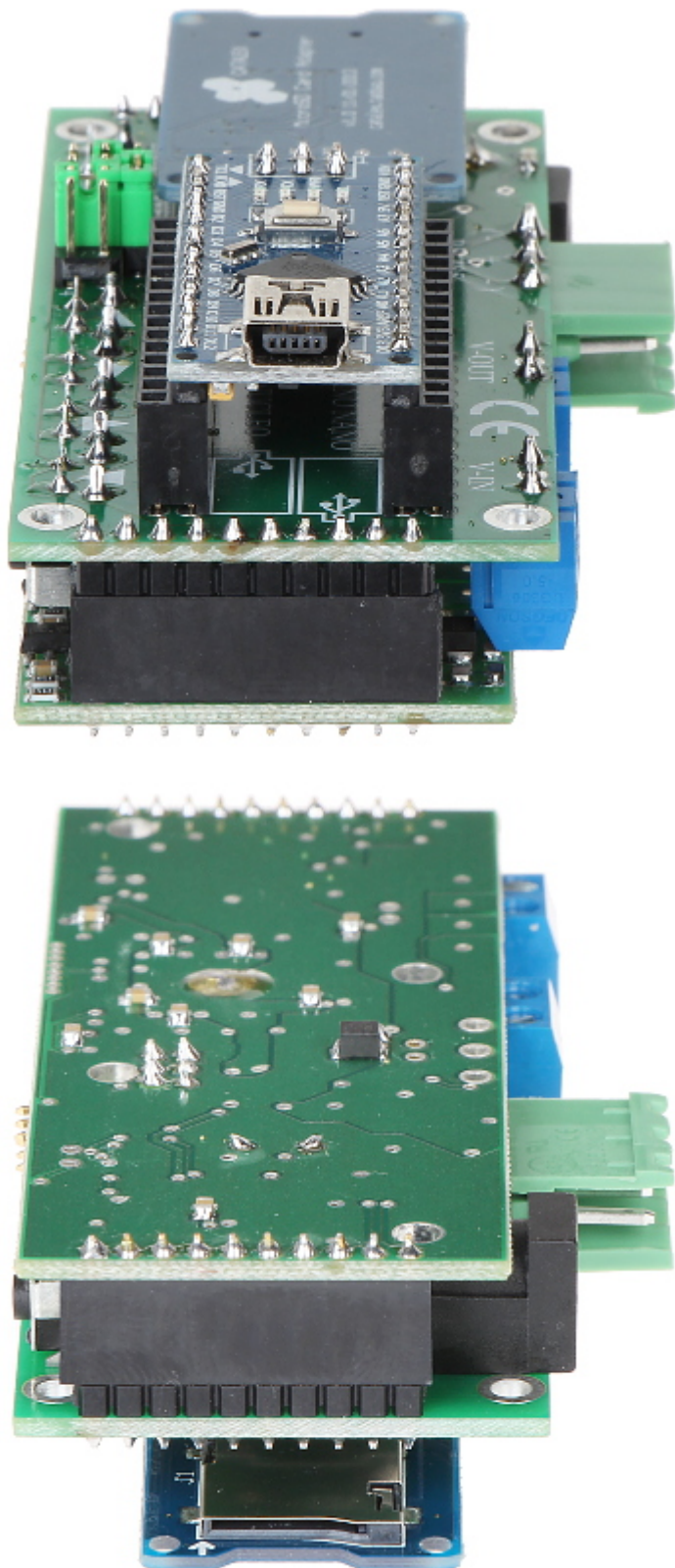
Example of application:
The OSD-50HD supports the PORT-22:

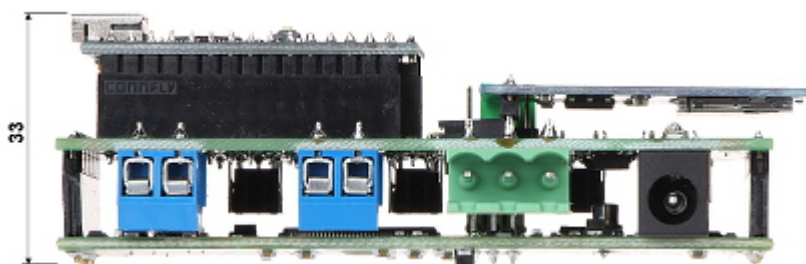
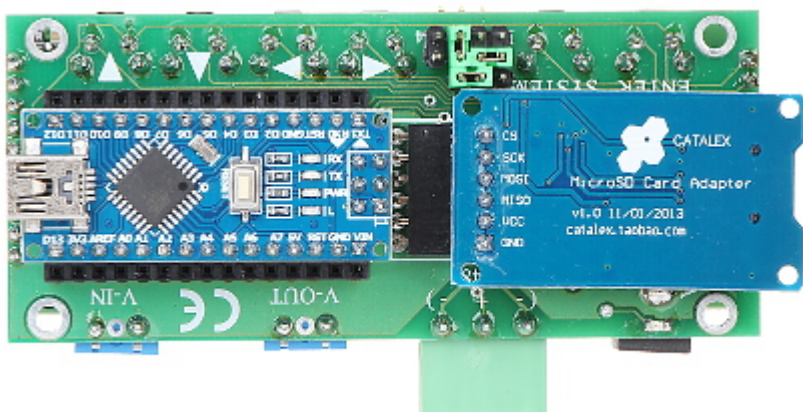




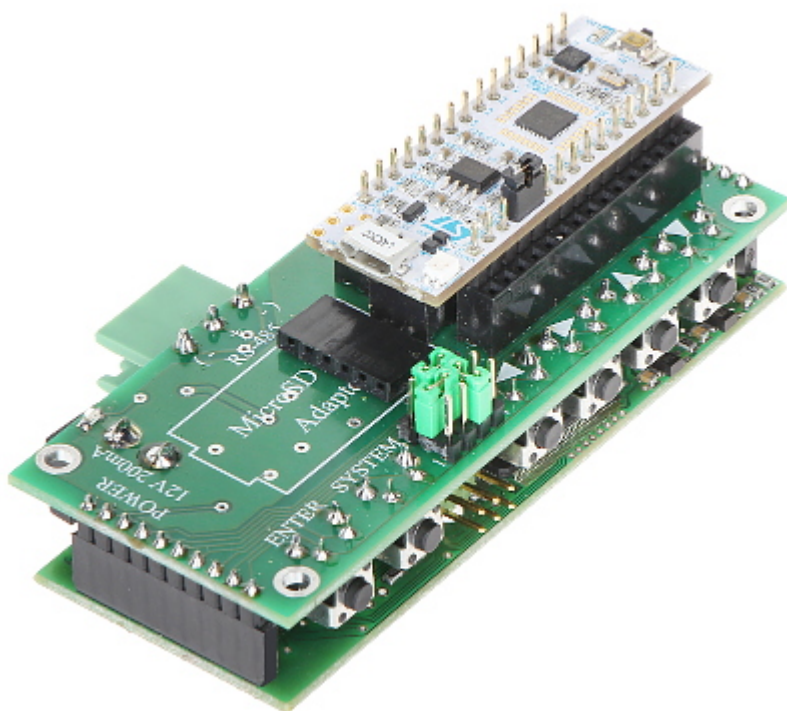
Cooperation the OSD-50HD with the PORT-22 and installed Arduino with microSD memory card slot:

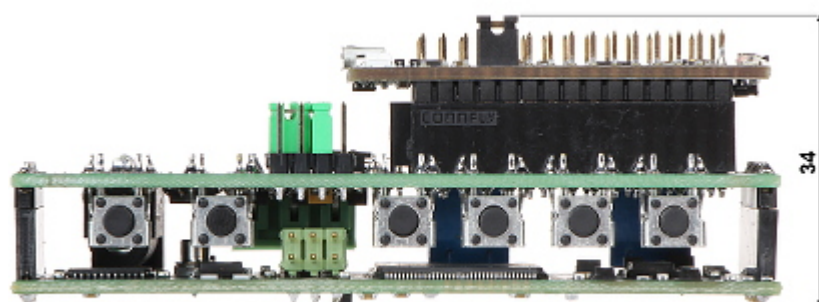
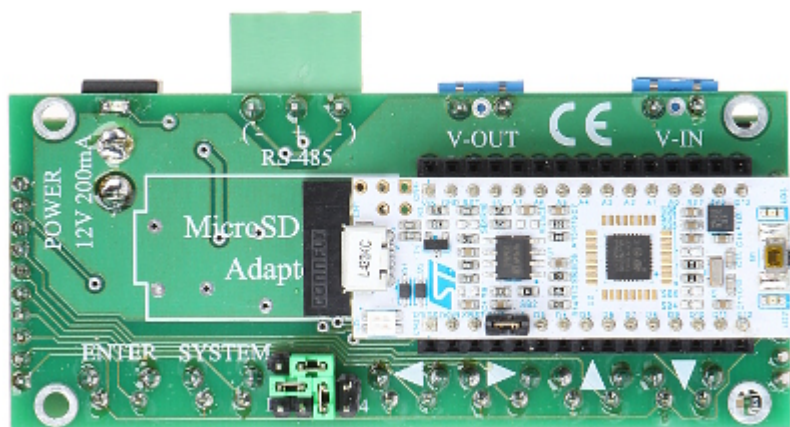




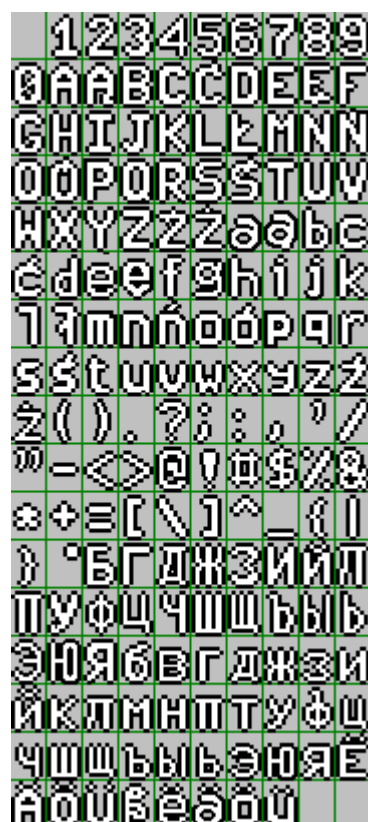


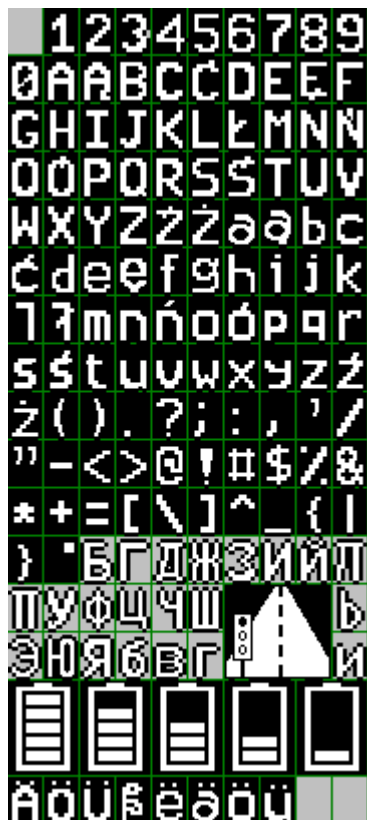
The PORT-22 can also operate with Nucleo:





The device has the ability to change the font and create own table of graphic characters:





The OSD-50HD control can be implemented in several ways:

RS-485 direct connection to the OSD-50HD - for example for the OSD-50HD hardware update:



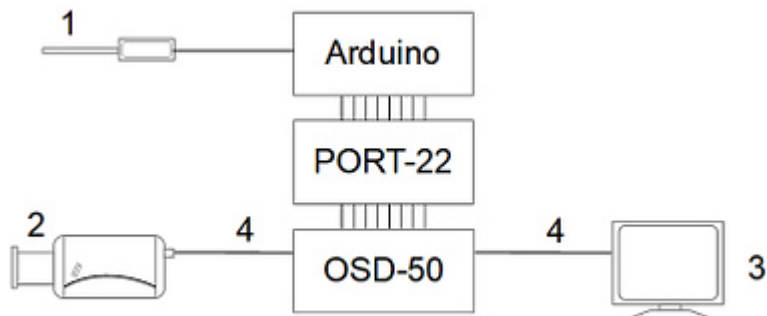
RS-485 connection to the ARDUINO / NUCLEO:



Direct sensors connection to the ARDUINO / NUCLEO:

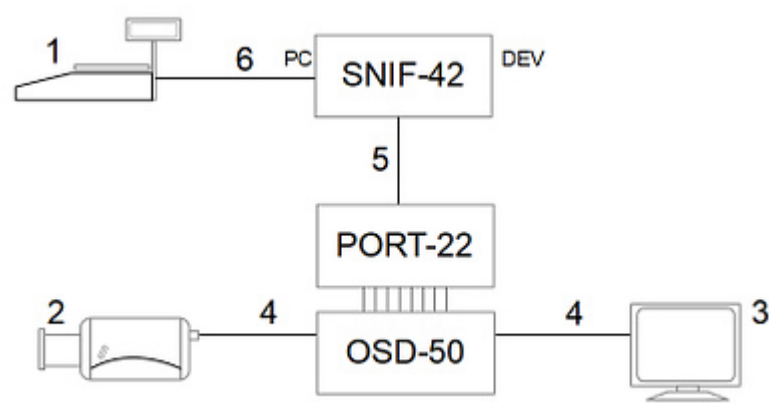


An example of connecting a temperature sensor:

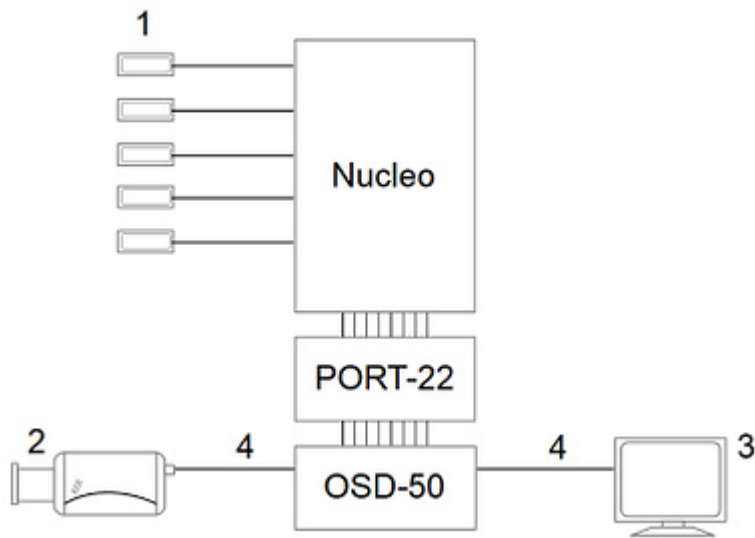


1. Temperature Sensor
2. Camera

- 3. Monitor
 - 4. Video signal
- Configuration with using a scale:



- 1. Electronic scale
 - 2. Camera
 - 3. Monitor
 - 4. Video signal
 - 5. RS-485
 - 6. RS-232
- An example of connecting several sensors:



- 1. Sensors
 - 2. Camera
 - 3. Monitor
 - 4. Video signal
- OSD Systems - the presentation:

:
 An exemplary OSD system for analogue HD cameras based on arduino nano using selected sensors:
 :
 Example of application:
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 The data grabbing manual, to add a new protocol using the "FG data grabber" application:
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PACKAGE

Dimensions (L x W x H): 0x0x0 mm	Gross Weight: 0 kg
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