

INSTALLATION GUIDE

Picolo.net HD1



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1. Declarations of Conformity

CE Compliance (EMC Class A)

CE Notice for Europe This product is in conformity with the Council Directive 2014/30/EU

This equipment has been tested and found to comply with Class A EN55022/CISPR22 and Class A EN55024/CISPR24. This product has been tested in a typical class A compliant host system. It is assumed that this product will also achieve compliance in any class A compliant unit.

To meet EC requirements, shielded cables must be used to connect a peripheral to the card.

FCC Compliance (Class A)



Notice for USA

Compliance Information Statement (Declaration of Conformity Procedure) DoC FCC Part 15

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation or when the equipment is operated in a commercial environment.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

KC Compliance



Notice for Korea

The following products have been registered under the Clause 3, Article 58-2 of Radio Wave Acts:

Product

KC Registration Number

PC1669-DW - Picolo.net HD1 (Desktop/Wall) PC1669-DR - Picolo.net HD1 (DIN rail) R-R-EUr-PC1669 R-R-EUr-PC1669

RoHS Compliance



This product is in conformity with the European Union RoHS 2011/65/EU Directive, that stands for "the restriction of the use of certain hazardous substances in electrical and electronic equipment".

WEEE



According the European directive 2012/19/EU, the product must be disposed of separately from normal household waste. It must be recycled according to the local regulations.

2. Installation

Box content

Quantity	Items
1	1669-DR Picolo.net HD1 (DIN rail) or 1669-DW Picolo.net HD1 (Desktop/Wall) enclosure
1	8-pin (1x8) 3.81mm pitch terminal plug
1	4-pin (1x4) 3.81mm pitch terminal plug
1	2-pin (1x4) 3.81mm pitch terminal plug
1	Picolo.net HD1 Installation Guide

DIN-rail mounting

The out-of-the box product is ready for installation on a DIN rail. The DIN rail must be horizontal; two possible orientations are allowed: left facing connectors or right facing connectors.

Wall mounting

The out-of-the box product is ready for a desktop or a wall-mount usage. The enclosure is fitted with 4 oblong holes, 2 on each side, that can be used to attach the product on any flat surface.



Drill and mounting template

3. Connectors Location and Markings



Picolo.net HD1 front panel



Picolo.net HD1 rear panel

4. Connections

NOTE

For a full description of connectors and pin assignment, refer to the section Connectors Location and Pinout in the Getting Started guide.

Audio/Video

Audio/Video Inputs

Select one of the following options:

- Connect a HD-SDI or a 3G-SDI audio/video source to the SDI AUDIO/VIDEO IN female BNC connector.
- Connect an HDMI HD audio/video source to the HDMI type A (full size) input.

Audio/Video Output

Connect an HDMI HD audio/video sink to the HDMI type A (full size) output.

Analog Audio Input

Using a 3.5 mm jack, connect an analog stereo (or mono) line-level audio sources to the AUDIO IN connector.



3.5 mm stereo jack

Analog Audio Output

Using a 3.5 mm jack, connect an analog stereo (or mono) line-level audio sink to the AUDIO OUT connector.

Network

Connect the device to the local area network by attaching a RJ-45 network cable into the LAN connector.

USB External Storage

USB for external storage

With a USB type A (full size) connector, connects a USB storage device to any of the USB connectors. Devices exceeding 2.5 W must be powered externally.

USB for GPS

With a USB type A (full size) connector, connects a USB GPS device to any of the USB connectors.

Serial COM

Connect one serial device to the COM connector via a 8-pin 3.81 mm pitch terminal plug using one of the following wiring options:

- For a full-duplex RS-422 device:
 - Connect the TxD- and the TxD+ output signals respectively to the RxD- (pin 1) and the RxD+ (pin 2) inputs of the 8-pin terminal plug
 - b. Connect the RxD- and the RxD+ input signals respectively to the TxD- (pin 3) and the TxD+ (pin 4) outputs of the 8-pin terminal plug
 - c. Connect the GND signal and/or the cable shield to the GND (pin 5 and/or pin 6) of the 8-pin terminal plug
- For a half-duplex RS-485 device:
 - a. Connect the Data- and the Data+ signals respectively to the Rx/TxD- (pin 3) and the Rx/TxD+ (pin 4) outputs of the COM connector 8-pin terminal plug
 - b. Connect the GND signal and/or the cable shield to the GND (pin 5 and/or pin 6) of the 8-pin terminal plug
- For a RS-232 device:
 - a. Connect the GND signal and/or the cable shield to the GND (pin 5 and/or pin 6) of the 8-pin terminal plug
 - b. Connect the Tx output signal to the RxD input (pin 7) of the 8-pin terminal plug
 - c. Connect the Rx output signal to the TxD output (pin 8) of the COM 8-pin terminal plug



COM connector

General Purpose I/O

Connect one alarm sensor device and/or one relay-driven device to the GPIO connector via a 4-pin 3.81 mm pitch terminal plug:

- To connect one alarm sensor, insert the 2 wires into INA (pin 1) and INB (pin 2) of the 4-pin plug.
- To connect one relay-driven device, insert the 2 wires into OUTA (pin 3) and OUTB (pin 4) of the 4-pin plug.



GPIO connector

The wiring polarity is irrelevant.

Power Input

Turn off or disconnect the power source before proceeding.

Connect a 12 V DC power source to the POWER IN connector via a 2-pin 3.81 mm pitch terminal plug:

- a. Connect the GND to the GND input (pin 1) of the 2-pin terminal plug
- b. Connect the +12 V output to the +12 V input (pin 2) of the 2-pin terminal plug



POWER IN connector

1675 Power Supply for Picolo.net HD1, a 12V DC 40 W universal power block is available as accessory.

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First Boot

- 1. Apply power and check if the Power OK green LED turns on.
- 2. Wait about one minute until the completion of the boot procedure.
- 3. Check if the Video Present LED indicators of all inputs attached to a valid video source are turned ON.

First Network Session

- 1. Install the **Euresys ONVIF Device Scanner** application software utility on a Windows or Linux computer attached to the same LAN.
- 2. Ensure that at least one of the following conditions is satisfied on the LAN:
 - A DHCP server is active and authorized to deliver an IP address for the MAC address of the LAN interface.
 - The computer TCP/IP stack is configured for dynamic IP allocation.
- 3. Run the Euresys ONVIF Device Scanner utility. At the completion of the scanning process, all discovered ONVIF devices appear in the discovered ONVIF devices list.
- 4. Select a device in the list by clicking its [IP] field. The right pane displays the properties of the selected device.
- 5. Open the device Home page by clicking the [Show] button.

Euresys Onvi	f Device Scanner				
IP 192.168.1.97 192.168.1.71 192.168.1.71 192.168.1.171 192.168.1.187 192.168.1.181 192.168.1.161 4 Refresh	Product PC1655 - Picolo net SD2 PC1656 - Picolo net HD4 PC1656 - Picolo net HD4	Setial Number SD200025 HD400040 HD400050 TBD HD400011 HD400055 HD400044	IP: Product: S/N: Web pages: Firmware: Hardware ID: Manufacturer: MAC Address:	192.168.1.180 PC1656 - Picolo.net HD4 HD400065 http://192.168.1.180 6.1 PC1656 Euresys 04:E4:51:38:2C:E8	Open

The ONVIF Device Manager application software utility can also be used . ONVIF Device Manager is available on : http://sourceforge.net/projects/onvifdm/

Manage the media profiles (optional)

The Profile Management page allows the user to view/edit/delete and create media profiles. An auto-setup procedure that automatically creates media profiles suited to the connected cameras is also available.

Manage the configurations (optional)

The Configuration Management page allows the user to:

- View the video source configurations,
- View and edit the video encoder configurations,
- View and edit the metadata configurations.

Manage the device (optional)

The Device Management page has four tabs:

- The Network tab allows the user to view/edit the device host name, the IP address, the DNS, and the default gateway settings.
- The Time tab allows the user to view/edit the time and date, and NTP settings.
- The Discovery tab allows the user to enable/disable the device discovery, and to manage the ONVIF scopes.
- The Maintenance tab allows the user to reboot the device, to revert the device to factory settings, and to upload firmware.

Manage the X.509 certificates (optional)

If you want a fully secured HTTPS connection through the Picolo.net HD1 web interface, you need to make sure the selfsigned certificate delivered with Picolo.net HD1 gets signed by an intermediate certificate authority (CA). See Using X.509 Certificates for more information.

6. Final Check

Video stream from all cameras

Repeat the procedure for all active video sources:

- 1. Open the Profile Management page.
- 2. Select a media profile corresponding to the targeted video source, and click the [View/Edit] button.
- 3. Show the Live Media pane. The video stream is displayed inside a window.

The VLC plug-in must be installed on your computer. The VLC plug-in is available for download from http://www.videolan.org/vlc/.