

PBC6-IPM

The PBC6-IPM is a 20 Watts IP design wallmount loudspeaker for voice, paging, intercom, music streaming, audio routing, pre-recorded and scheduled announcement, VoIP communication or as the SIP endpoint where network-wide communication is desired and high-output loudspeakers are required to overcome high ambient noise and/or large spaces. The PBC6-IPM incorporates 3 control inputs for level control and source selection (using the RAC 5/8 controllers), 1 contact output for triggering events. The IP speaker also comes with a built-in microphone input, allowing hands-free intercom. The YMC0101-005 microphone capsule could be connected to this microphone interface. To configure, control, monitor the IP speakers in real-time, this can be easily done through your favorite web browser interface, making the management even the most complex environments simpler than ever.



● Features

- Support PoE+, PoE and/or connect to 24 VDC power adapter (if PoE+ is not available)
- Standard RJ45 interface, PCB control and Class-D amplifier board (2 x 20W)
- Cost effective and simple installation with single cable deployment
- Easily configured, controlled, managed and monitored via web browser
- IP based for music streaming, routing, paging and control over LAN/WAN
- Full DSP includes AEC, NR, Ducker, AGC, PEQ, Hi/Low Pass, Compressor, Limiter, etc.
- 3 control inputs for level control and source selection using the RAC 5/8 controller
- 1 relay contact output
- Internal storage (200 MB)
- Integrated scheduler for triggering of messages, music and alerts
- Network audio codecs: G.711, G.722, WAV, MP3
- 3rd party control with TERRACOM system
- Support VoIP call via SIP protocol

● Certifications

EN 55032, EN 55035,
EN 61000-3-2, EN 61000-3-3

● Electrical

Rated power, Watts (24 VDC, 1.8 A external power supply)	6
Rated power, Watts (PoE+, IEEE802.3 af, class 3)	20
Driver Impedance, Ohms	8
Effective Frequency Range, Hz (BSEN60268-5)	160 - 18,000
S.P.L. @ 1 m, 1 Watt, dB, Octave, 100 Hz-10 kHz	96
S.P.L. @ 1 m, Full power, dB, Octave, 100 Hz-10 kHz	104
Dispersion at 1k/2k Hz, Degrees	180/120



TECHNICAL SPECIFICATIONS

PBC6-IPM

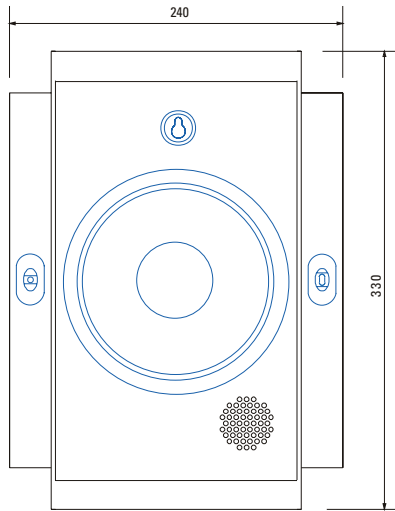
Power supply	PoE+, IEEE802.3af, class 3 DC power input: 24 VDC (18-24 VDC) Minimum power supply: 2 A
● Control Inputs	
Type	Euro-block terminal
Mode (analog/TTL), VDC	max. 3.3
TTL logic input (max.), VDC	HIGH active: 3.3 LOW active: 1.2
● Interconnection	
Female RJ45 socket, CAT5/6 cables	
Max. cable length, m	100
● Supported Protocols	
SIP 2.0 (peer and proxy)	
IETF SIP (RFC3261)	
IETF IGMP version 2 (RFC2236)	
IETF RTP (RFC1889)	
● Contact Output	
Type	Euro-block terminal
Default status	OPEN (N.O.)
Maximum voltage, VDC	100
Maximum current, A	0.5 A
● Audio	
Audio compression	G.711, G.722, WAV, MP3
● Network	
10/100 Mbps Base TX Ethernet RJ45	
Manual or Dynamic Host Configuration Protocol (DHCP) IP address setup	
Time and date synchronization using NTP	
● Environmental	
IP-rating	21
Min/Max amb temp	-10°C to 55°C
Relative humidity	≤ 60%
● Mechanical	
Dimensions, diameter, mm	330 x 240 x 90
Net weight, kg	1.5
Colour (Unless Specified)	White RAL9016



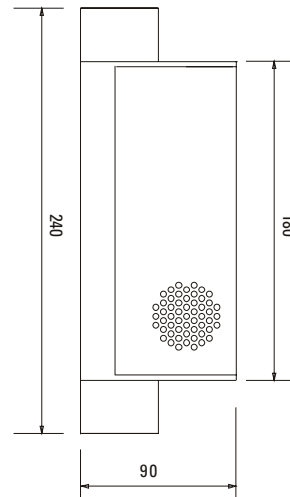
INSTALLATION GUIDE

PBC6-IPM

Front view
(unit: mm)

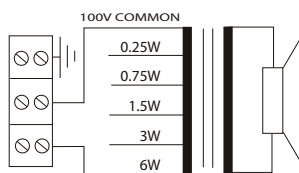


Top view
(unit: mm)

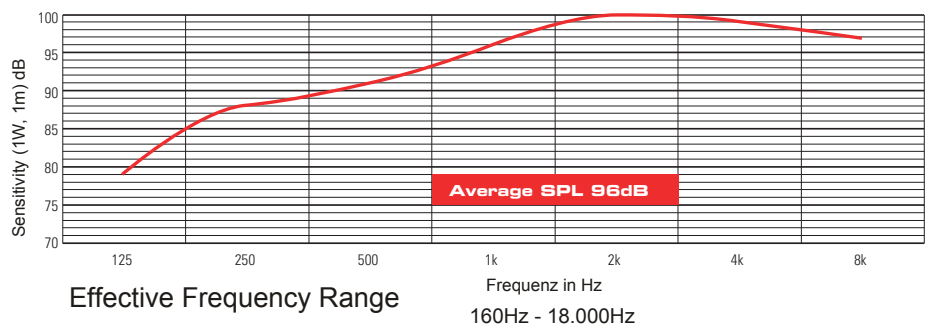


- 1) On selecting the chosen position for the loudspeaker (it can be mounted vertically or horizontally) use a spirit level to ensure that it is level.
- 2) Offer the speaker to the wall or ceiling and mark through the mounting holes, as shown on the drawing above, the position required for drilling.
- 3) Drill 2 holes 210mm apart and then raw plug them.
- 4) Cabling can now take place, connect the 100 volt line supply to your required volume as shown on the circuit diagram.
- 5) With the cable in place the speaker can be screwed through the mounting holes into position. Once in position the two mounting hole caps can be put in place to hide the offending screw heads.
- 6) There is also provided a key hole mounting plate, as shown on the drawing, this can only be used if the loudspeaker is wall mounted and in a vertical position.

Frequency response



Circuit Diagram



Disclaimer: We reserve the right of changes and errors.



ATEIS Europe B.V.
Celsiusstraat 1, 2652 XN Lansingerland, Netherlands
Phone +31 (0)10 208 86 90, www.ateis-europe.com, info.eu@ateis.global





7. 3 programmable contact inputs are controlled by external remotes such as source selector and volume control (RAC 5 / RAC 8)

8. LED interface (3.3V@10 mA): for safety and emergency alerting (EVC-SW02W)

9. LED strobe light interface (24V@10mA): A strobe light for safety and emergency alerting

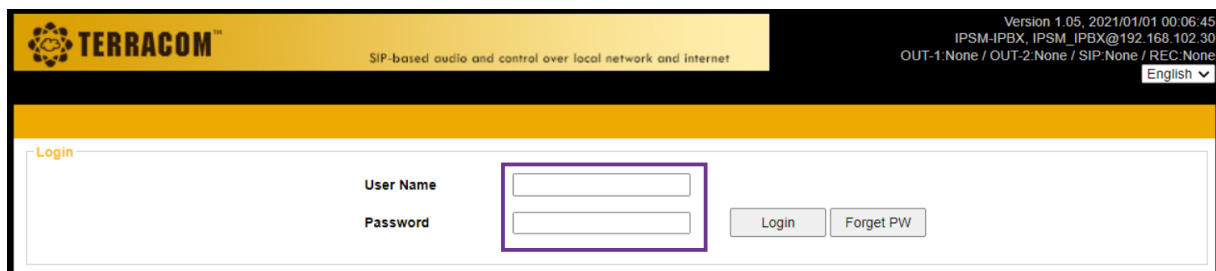
QUICK START

PBC6-IPM

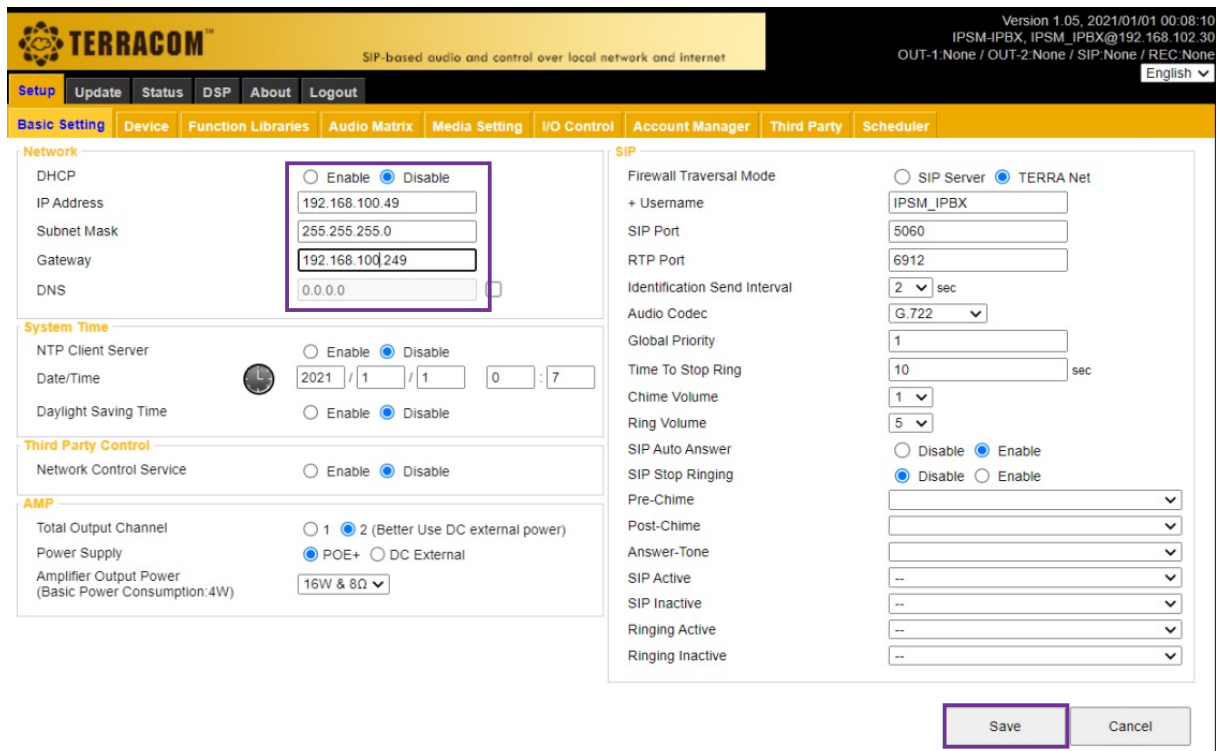
Network

PBC6-IPM is shipped set to the default IP Address of 192.168.100.1:

1. Specify the IPv4 of the computer manually and in the same range of the PBC6-IPM (192.168.100.xxx).
2. Open a web-browser on the computer (Chrome or Firefox recommended) and navigate to the speaker's address. (192.168.100.1).
3. Default **User name / Password: admin / admin.**



4. Click **SETUP > BASIC SETTINGS**: define a manual IP address or enable DHCP.



Disclaimer: We reserve the right of changes and errors.



ATEIS Europe B.V.
Celsiusstraat 1, 2652 XN Lansingerland, Netherlands
Phone +31 (0)10 208 86 90, www.ateis-europe.com, info.eu@ateis.global

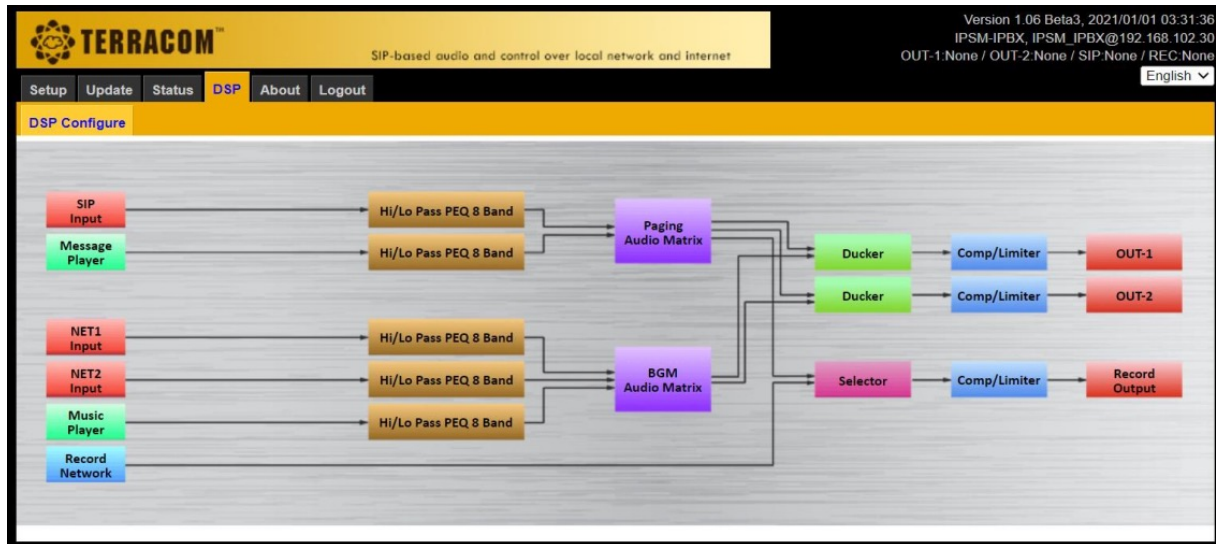


QUICK START

PBC6-IPM

DSP

Adjust different audio features by navigating to the **DSP Tab**.



You will be able to adjust output volume by clicking on "OUT1".

This will open a popup window, allowing you to change the volume and showing the current output level on a VU meter.

Disclaimer: We reserve the right of changes and errors.



ATEIS Europe B.V.
Celsiusstraat 1, 2652 XN Lansingerland, Netherlands
Phone +31 (0)10 208 86 90, www.ateis-europe.com, info.eu@ateis.global





ONVIF PBC6-IPM

Milestone VMS

1. Within the **ONVIF** section of the configuration page change the **User Authorize** to **Enable**.

The screenshot shows the TERRACOM configuration interface. The top navigation bar includes tabs for Setup, Update, Status, DSP, About, and Logout. Below this is a secondary navigation bar with tabs for Basic Setting, Device, Function Libraries, Audio Matrix, Media Setting, I/O Control, Account Manager, Third Party, and Scheduler. The main content area is divided into several sections: Network, System Time, Third Party Control, AMP, SIP, and Onvif. The Onvif section is currently selected and shows the following settings: Onvif Enable (checked), User Authorize (checked), HTTP Port (8000), RTP/RTSP Port (554), RTP UDP Port (4076), and Audio Format (G.711 ulaw). The SIP section also shows various settings, including Firewall Traversal Mode (TERRA Net), Username (IPSM_IPBX), SIP Port (5060), RTP Port (6912), and several other parameters. The Network section shows DHCP settings, and the System Time section shows the current date and time. The AMP section shows power supply settings. The bottom of the interface has Save and Cancel buttons.

Disclaimer: We reserve the right of changes and errors.



ATEIS Europe B.V.

Celsiusstraat 1, 2652 XN Lansingerland, Netherlands

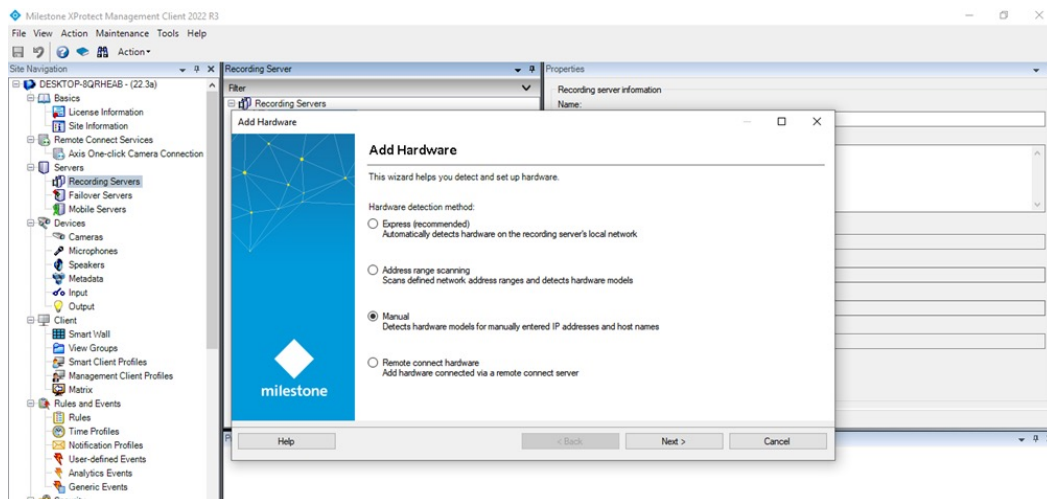
Phone +31 (0)10 208 86 90, www.ateis-europe.com, info.eu@ateis.global



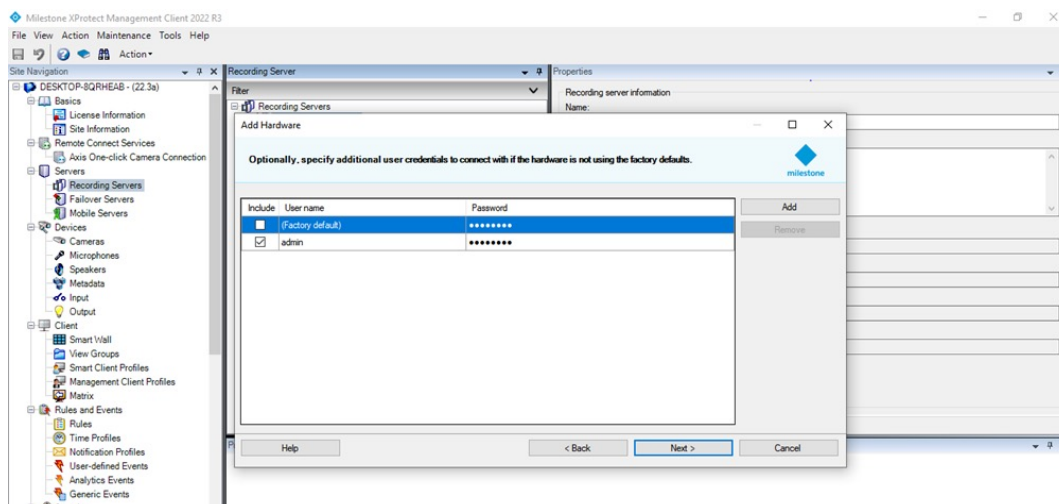
ONVIF PBC6-IPM



2. Within **Milestone VMS** in the **Recording Server** screen, right click and click **add hardware**, and then choose the option. Click next.



3. Add the **username** and **password** of the Penton IP speaker product to the user credentials list and **untick** the default credentials entry. Click next.



Disclaimer: We reserve the right of changes and errors.

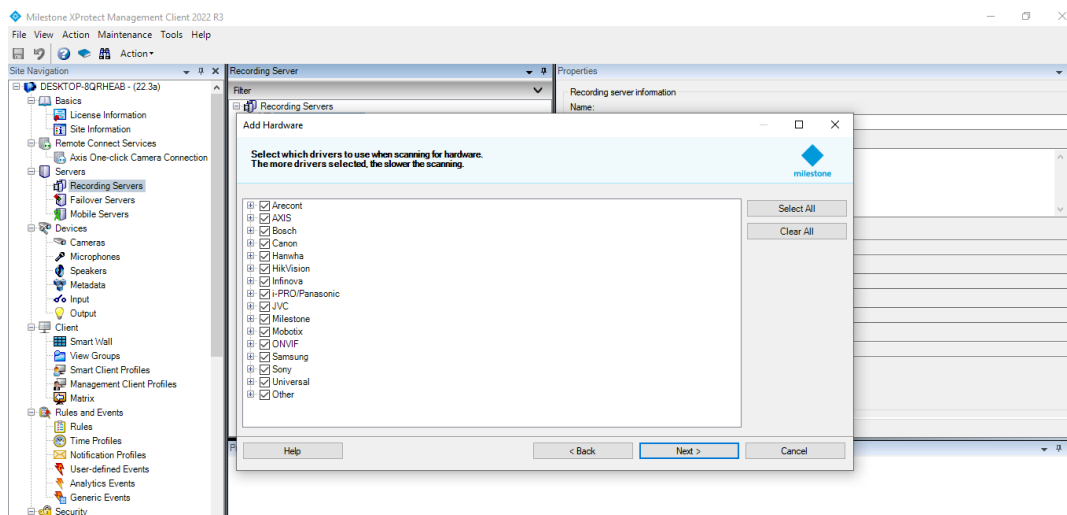


ATEIS Europe B.V.
Celsiusstraat 1, 2652 XN Lansingerland, Netherlands
Phone +31 (0)10 208 86 90, www.ateis-europe.com, info.eu@ateis.global

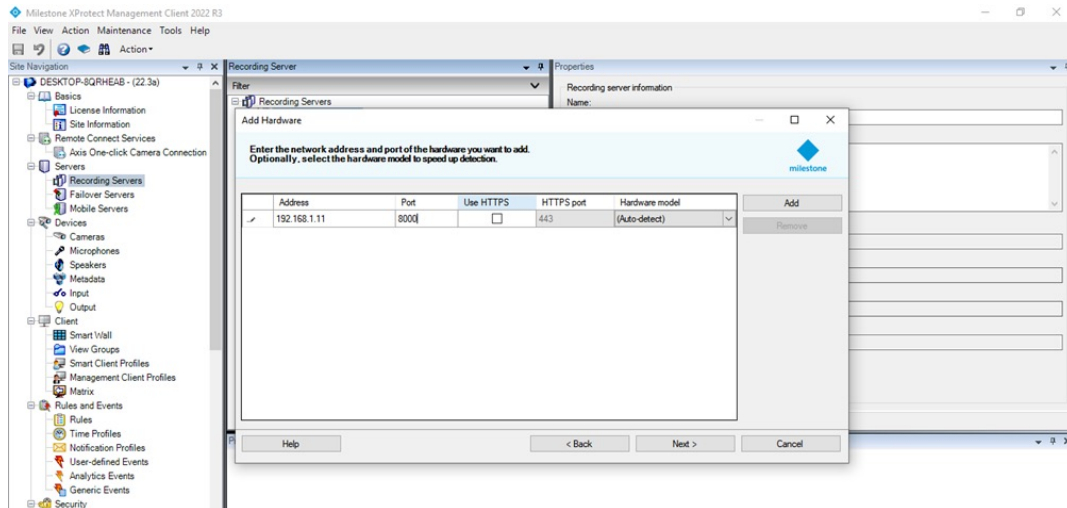


ONVIF PBC6-IPM

4. Leave all the manufacturers **ticked**. Click next.



5. Enter the **IP address** of the Penton IP speaker and add the port as **8000**. Click next.



Disclaimer: We reserve the right of changes and errors.



ATEIS Europe B.V.

Celsiusstraat 1, 2652 XN Lansingerland, Netherlands

Phone +31 (0)10 208 86 90, www.ateis-europe.com, info.eu@ateis.global



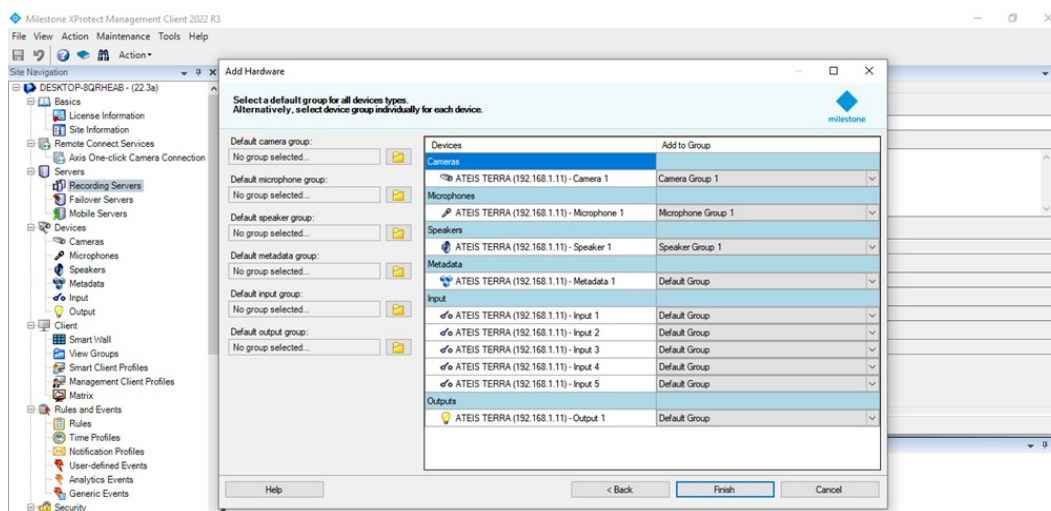
ONVIF PBC6-IPM

7. Select the hardware elements that you would like to implement.

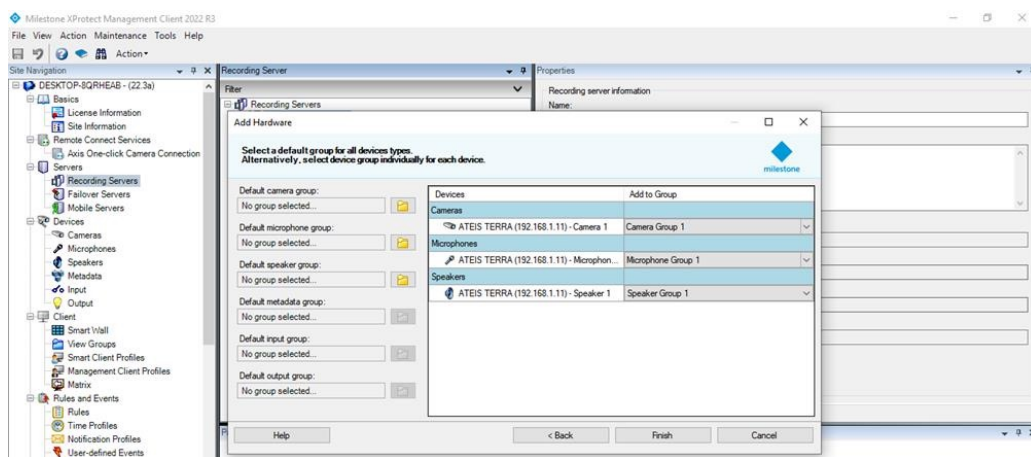
Camera: will show a holding screen to show connection.

Microphone: will allow the IP speaker device to stream back to the VMS. (For example, triggering messages etc.)

Loudspeaker: will allow the VMS to communicate with the IP speaker via any connected microphone.



8. Add devices to the desired groups.



Disclaimer: We reserve the right of changes and errors.



ATEIS Europe B.V.

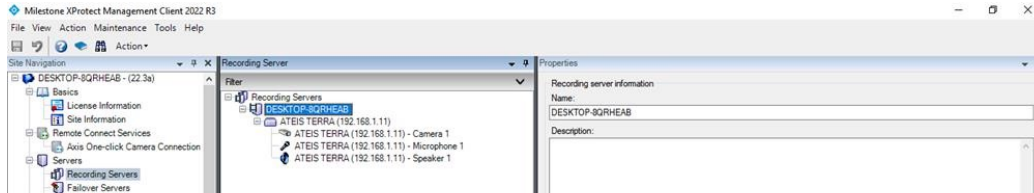
Celsiusstraat 1, 2652 XN Lansingerland, Netherlands

Phone +31 (0)10 208 86 90, www.ateis-europe.com, info.eu@ateis.global



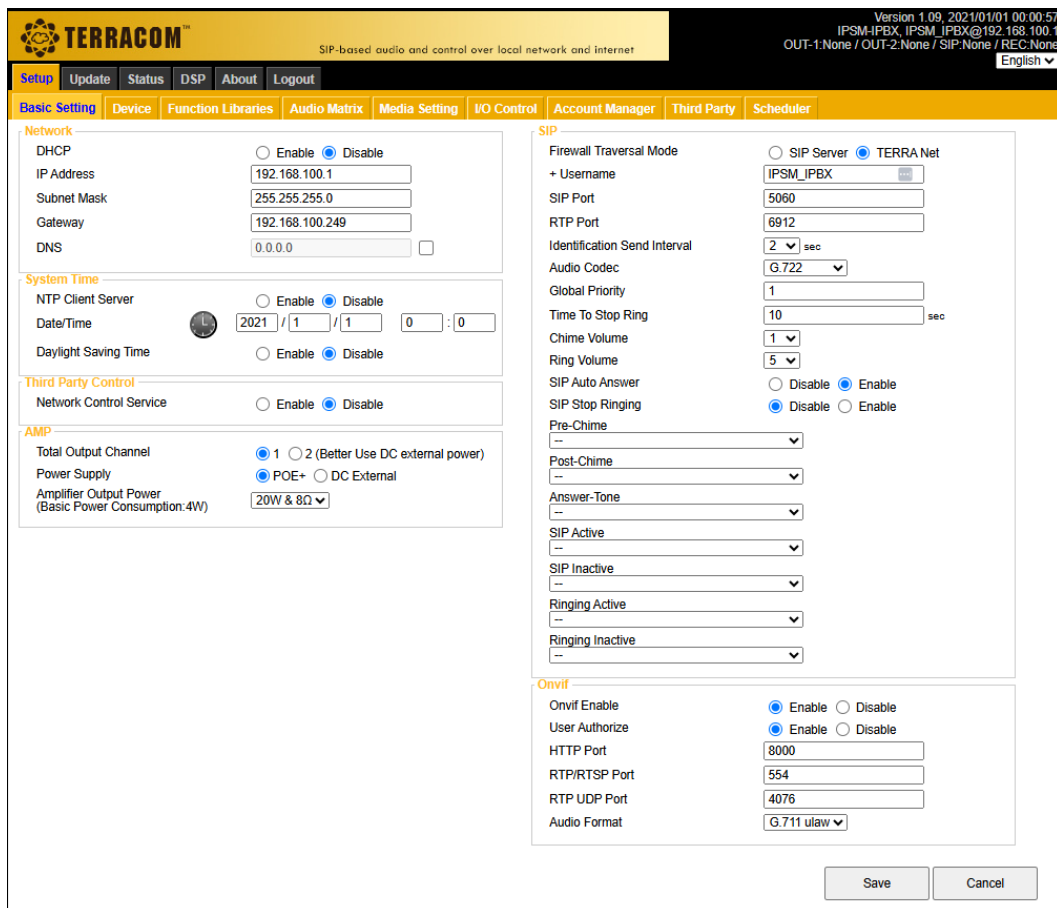
ONVIF PBC6-IPM

9. All resources will now be available in the Milestone VMS.



Dahua DSS

1. Within the **ONVIF** section of the configuration page change the **User Authorize** to **Enable**.



Disclaimer: We reserve the right of changes and errors.

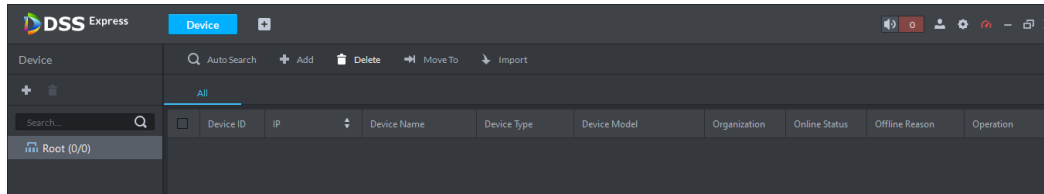


ATEIS Europe B.V.
Celsiusstraat 1, 2652 XN Lansingerland, Netherlands
Phone +31 (0)10 208 86 90, www.ateis-europe.com, info.eu@ateis.global



ONVIF PBC6-IPM

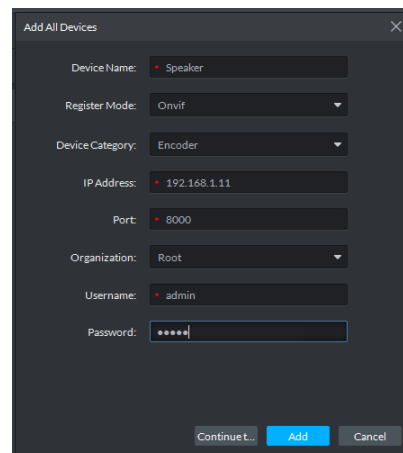
2. Within the **DSS** software go to the **Device Menu** screen and **click add**.



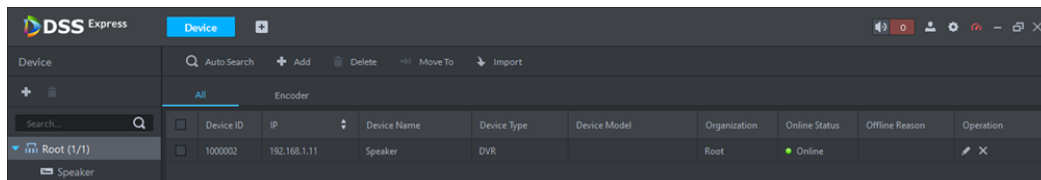
3. Enter the following information:

- 1) Enter the desired device name
- 2) Register Mode is **ONVIF**
- 3) Category is **Encoder**
- 4) Enter the IP address of the speaker/module
- 5) Port is **8000**
- 6) Enter Username/Password of the IP loudspeaker/module

Then click **Add**.

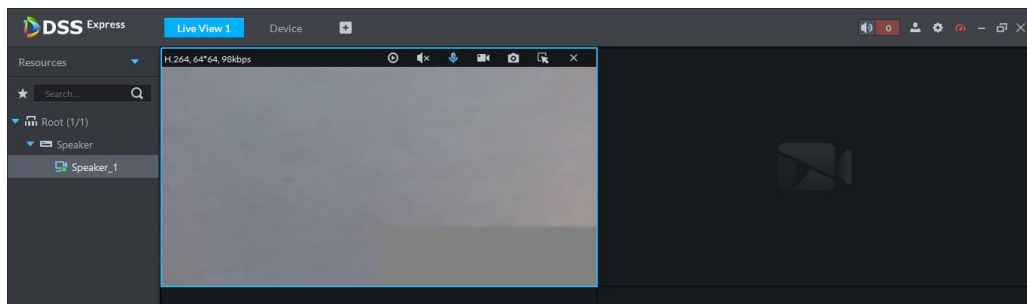


4. Wait for the device to show online.



5. Return to the **Live View** screen for the device you have just added and click the small microphone **icon**.

Ensure all the microphone settings are correct within the DSS in relation to your input microphone.



Disclaimer: We reserve the right of changes and errors.



ATEIS Europe B.V.
Celsiusstraat 1, 2652 XN Lansingerland, Netherlands
Phone +31 (0)10 208 86 90, www.ateis-europe.com, info.eu@ateis.global





SET UP TERRACOM II PBC6-IPM

Go further with **TERRACOM II**

Please download the TERRACOM II User Manual by clicking the link below:

Disclaimer: We reserve the right of changes and errors.



ATEIS Europe B.V.

Celsiusstraat 1, 2652 XN Lansingerland, Netherlands

Phone +31 (0)10 208 86 90, www.ateis-europe.com, info.eu@ateis.global

