



WEATHERPROOF IP HORN LOUDSPEAKER

APH30-IPM

The APH30-IPM is a 20 Watts IP horn 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 APH30-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)	30
Rated power, Watts (PoE+, IEEE802.3 af, class 3)	20
Driver Impedance, Ohms	8
Effective Frequency Range, Hz (BSEN60268-5)	340-16,000
S.P.L. @ 1 m, 1 Watt, dB, Octave, 100 Hz-10 kHz	106
S.P.L. @ 1 m, Full power, dB, Octave, 100 Hz-10 kHz	120
Dispersion at 1k/2k Hz, Degrees	105/49 Horizontal 142/68 Vertical



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TECHNICAL SPECIFICATIONS

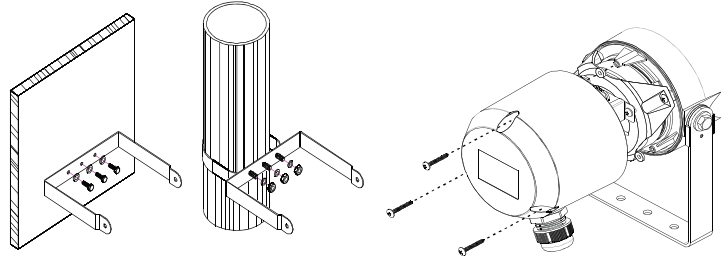
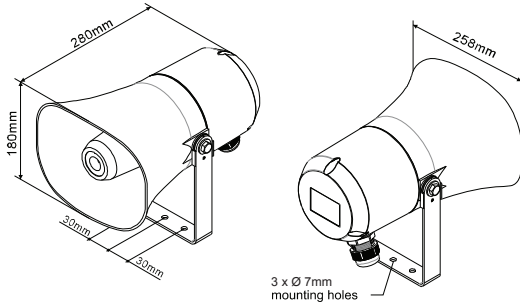
APH30-IPM

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	66
Min/Max amb temp	-5°C to 55°C
Relative humidity	≤95%
● Mechanical	
Dimensions, WxHxD mm	258 x 180 x 280
Net weight, kg	2.53
Colour (Unless Specified)	Grey, RAL7035



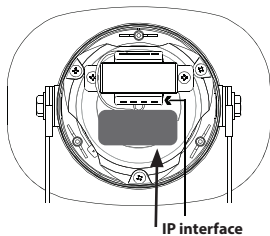
INSTALLATION GUIDE

APH30-IPM

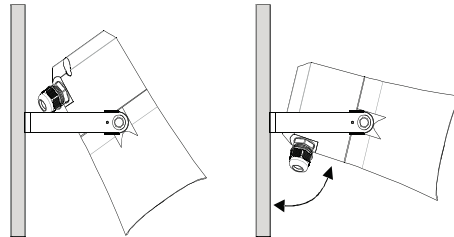


1) Remove the "U" bracket from the speaker. Align the bracket and mark the fixing points. Fix the bracket using suitable fixings (Not supplied).

2) Remove the back lid of the horn.

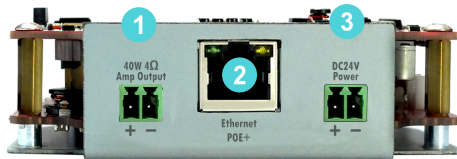


3) Connect cables to the speaker.
4) Around the inner section of the chamber where the back lid was removed a rubber gasket is located; please make sure that it is in place when re-fitting the back lid to avoid water penetration. There is a fibreglass sleeve covering the central mounting bolt, it is important that this cover is used as it protects the transformer.

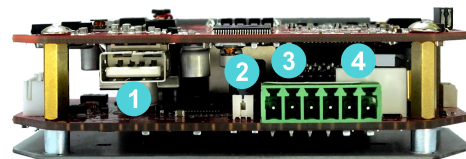


5) Re-fit the speaker to the "U" bracket. Position the speaker to the desired angle then tighten the fixings to secure in place.

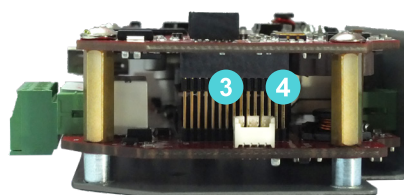
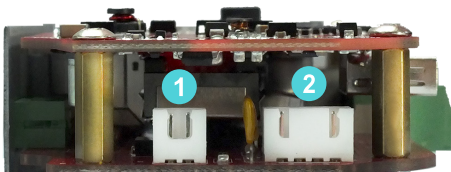
SPEAKER CONNECTIONS



- 1. Speaker connection - 1 channel 20 W
- 2. RJ45 connector Ethernet
- 3. 24 VDC power input

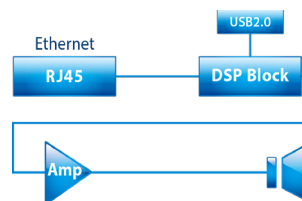


- 1. USB interface (function reserved - Not available)
- 2. Microphone input
- 3. 3 logic control inputs
- 4. 1 contact output



- 1. LED strobe light interface (function reserved - Not available)
- 2. RS232 interface (function reserved - Not available)
- 3. Power LED interface (+ -)
- 4. Status LED interface (+ -)

FUNCTION BLOCK



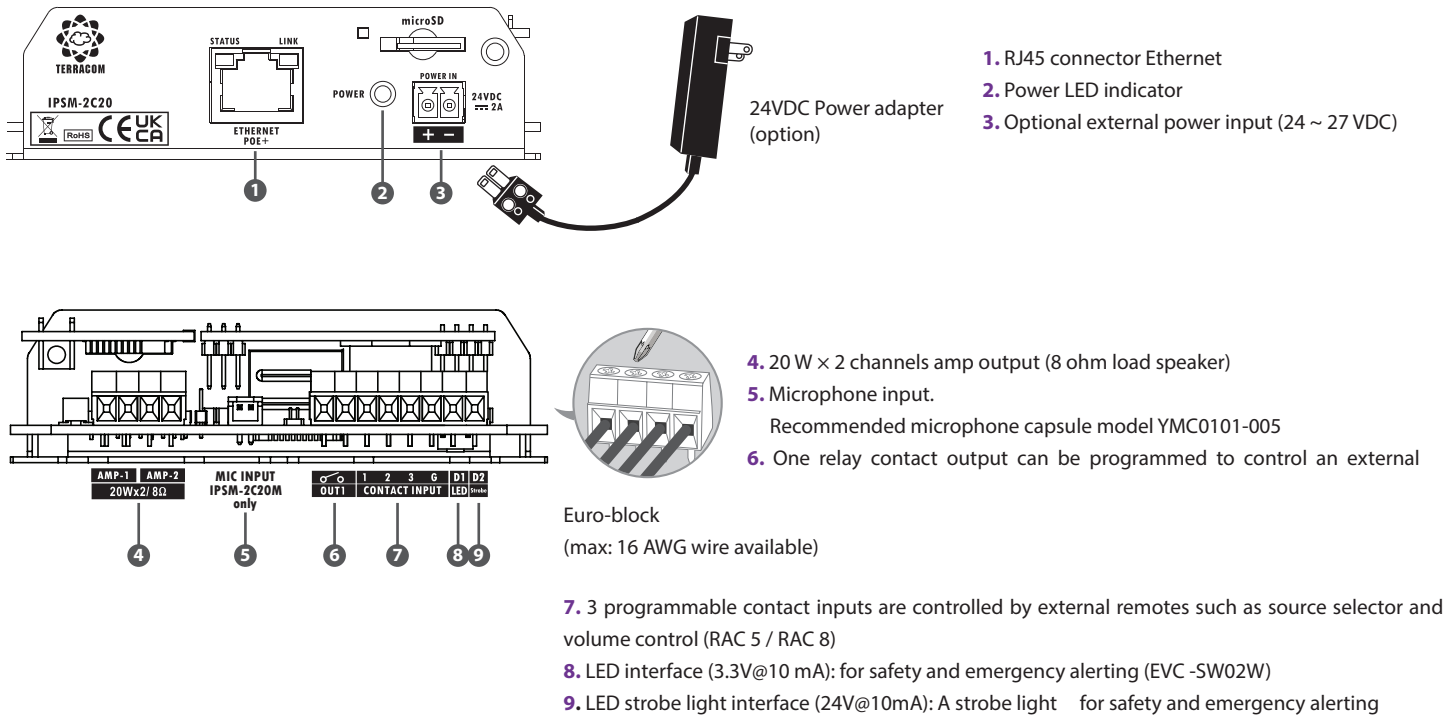
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INSTALLATION GUIDE

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LOUDSPEAKER CONNECTIONS



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QUICK START

APH30-IPM

Network

APH30-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 APH-30-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.

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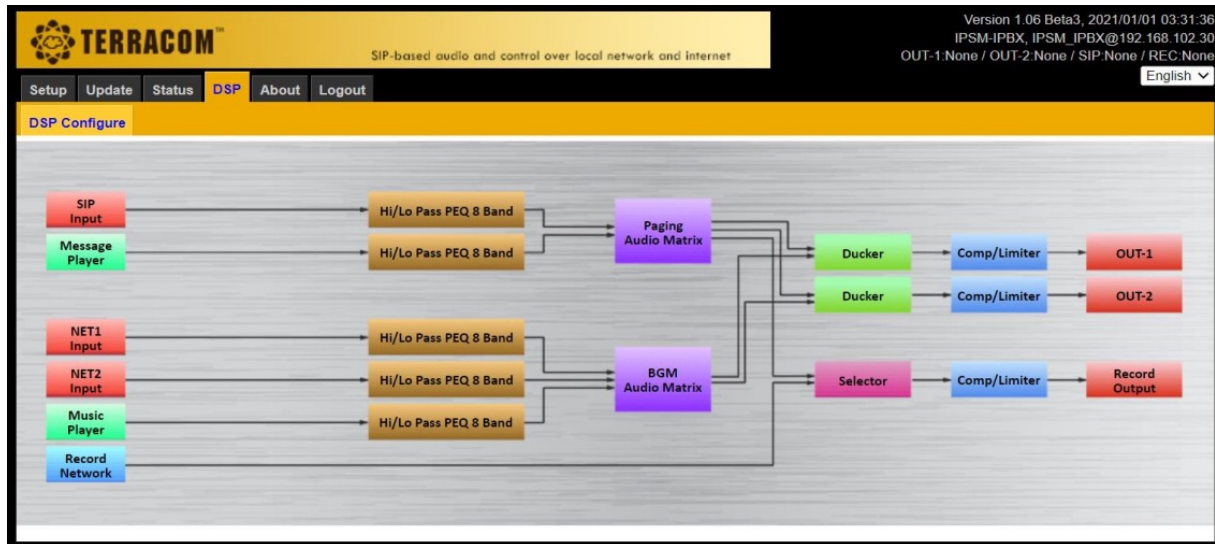


QUICK START

APH30-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.

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ONVIF APH30-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. In the Onvif section, the 'Onvif Enable' and 'User Authorize' options are both set to 'Enable' (indicated by a blue dot). Other settings in the Onvif section include HTTP Port (8000), RTP/RTSP Port (554), RTP UDP Port (4076), and Audio Format (G.711 ulaw). The 'Save' and 'Cancel' buttons are at the bottom right of the configuration area.

Section	Parameter	Value
Network	DHCP	Enable ☐ Disable ☒
	IP Address	192.168.100.1
	Subnet Mask	255.255.255.0
	Gateway	192.168.100.249
System Time	NTP Client Server	Enable ☐ Disable ☒
	Date/Time	2021 / 1 / 1 0 : 0
Third Party Control	Network Control Service	Enable ☐ Disable ☒
	AMP	
AMP	Total Output Channel	1 ☒ 2 (Better Use DC external power) ☐
	Power Supply	POE+ ☒ DC External ☐
	Amplifier Output Power (Basic Power Consumption: 4W)	20W & 8Ω
SIP	Firewall Traversal Mode	SIP Server ☐ TERRA Net ☒
	+ Username	IPSM_IPBX
	SIP Port	5060
	RTP Port	6912
	Identification Send Interval	2 sec
	Audio Codec	G.722
	Global Priority	1
	Time To Stop Ring	10 sec
	Chime Volume	1
	Ring Volume	5
Onvif	Onvif Enable	Enable ☒ Disable ☐
	User Authorize	Enable ☒ Disable ☐
	HTTP Port	8000
	RTP/RTSP Port	554
	RTP UDP Port	4076
	Audio Format	G.711 ulaw
	Pre-Chime	--
	Post-Chime	--
	Answer-Tone	--
	SIP Active	--
SIP Inactive	--	
Ring Active	--	
Ring Inactive	--	

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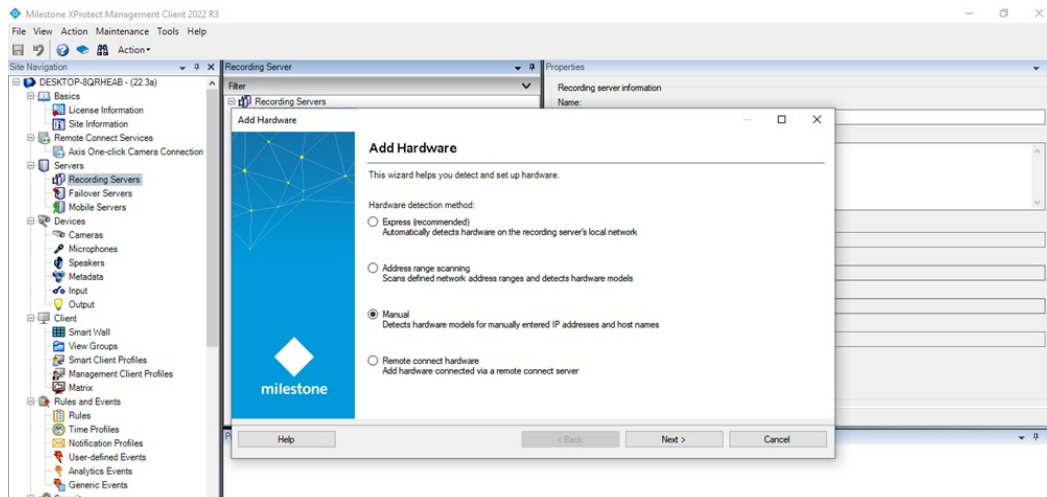
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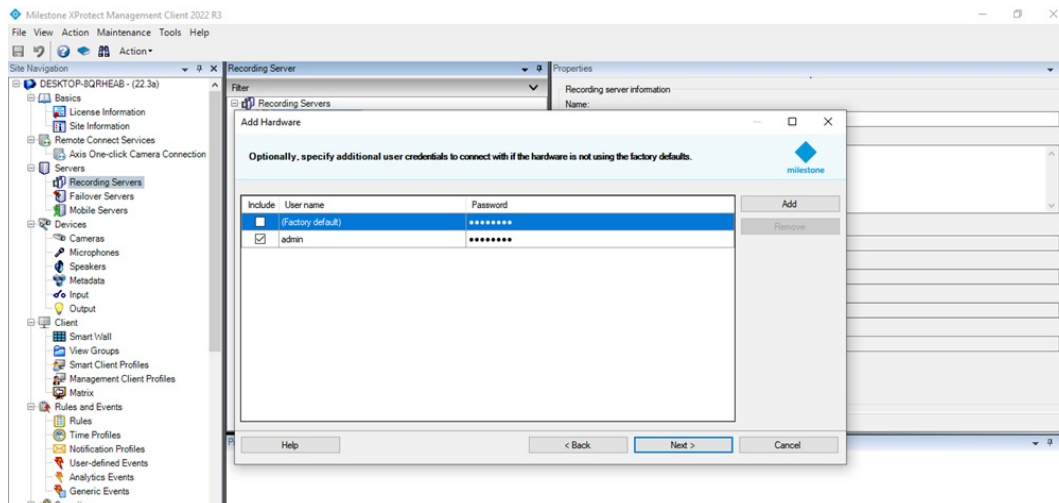
ONVIF APH30-IPM



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.



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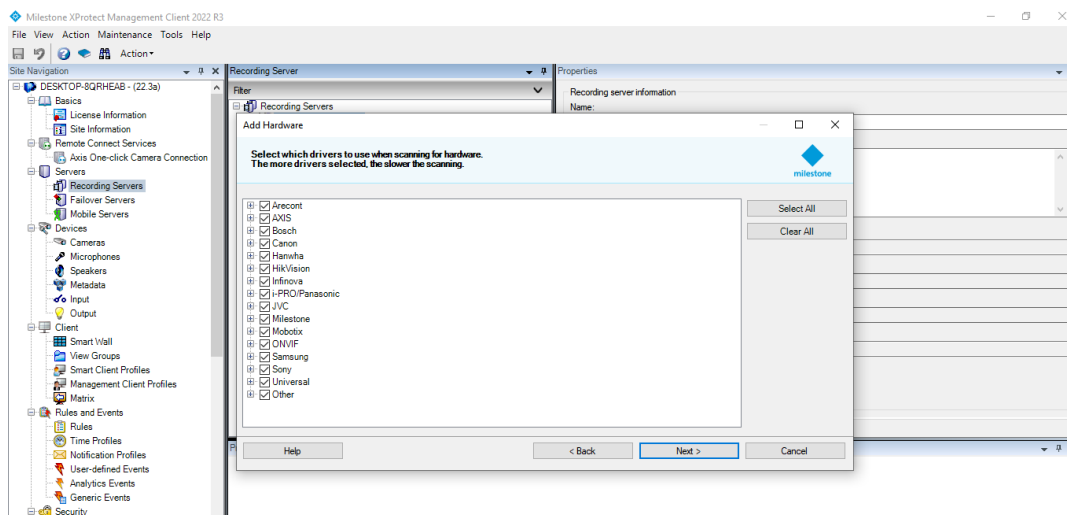


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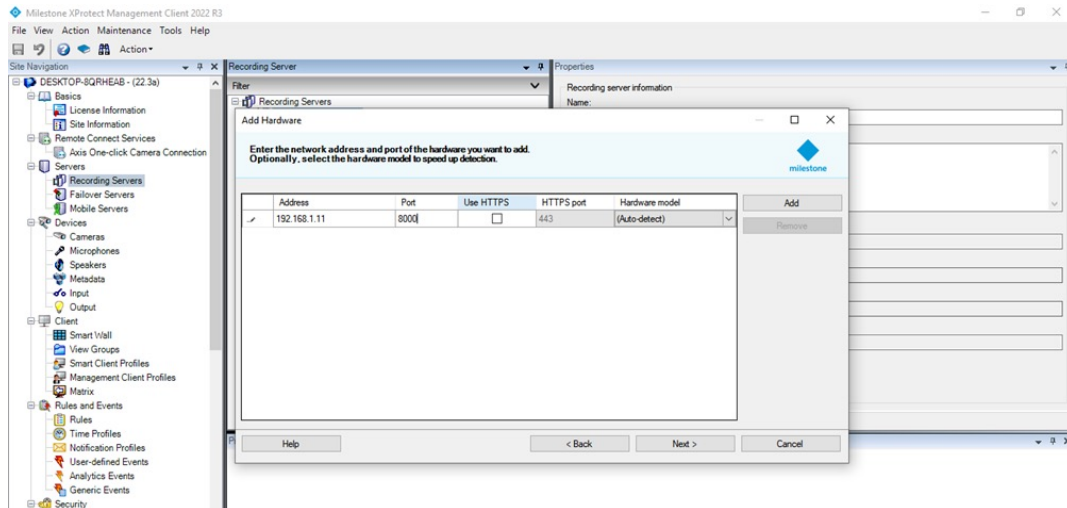


ONVIF APH30-IPM

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.



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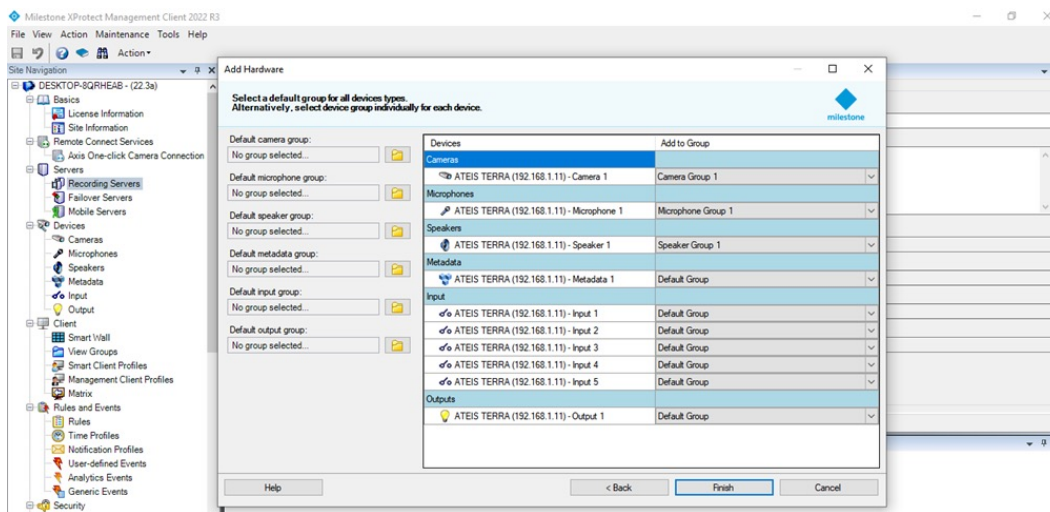
ONVIF APH30-IPM

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

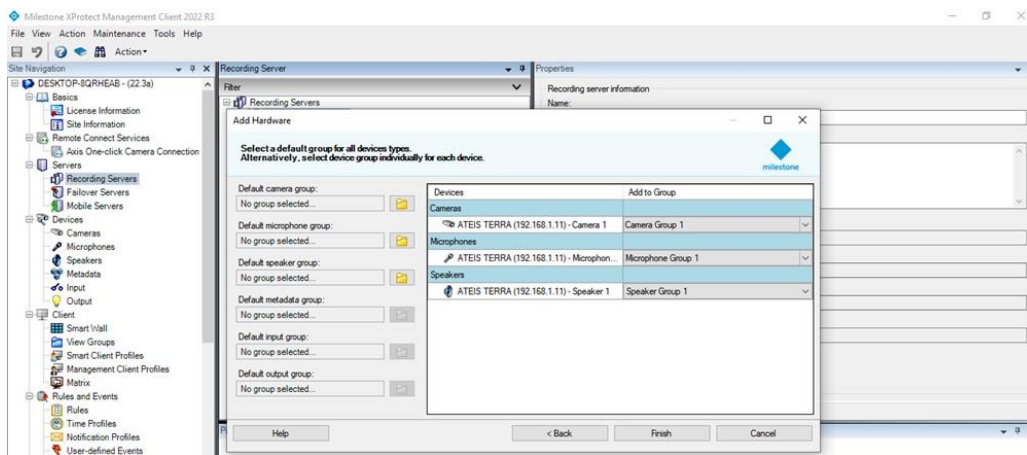
Camera: will show a holding screen to show connection.

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.



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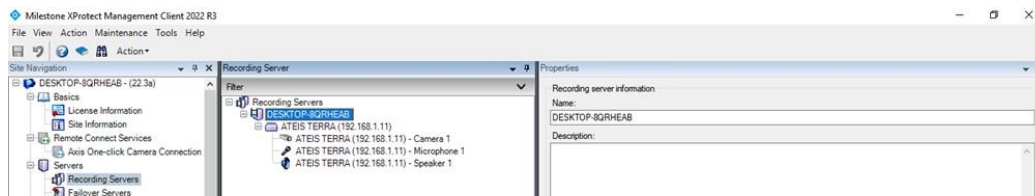


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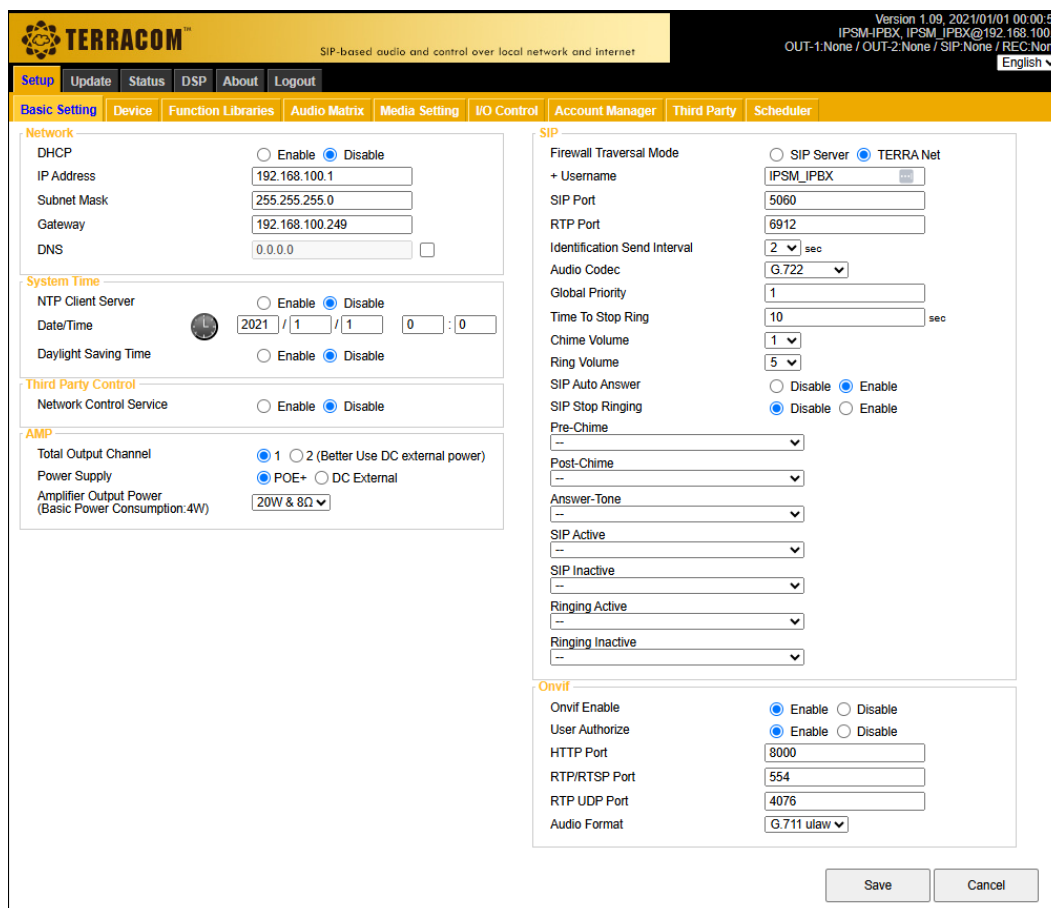
ONVIF APH30-IPM

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**.



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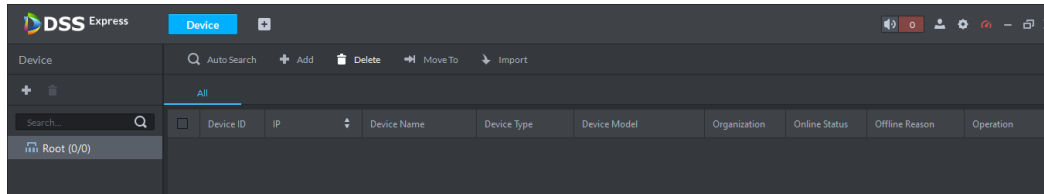
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ONVIF APH30-IPM

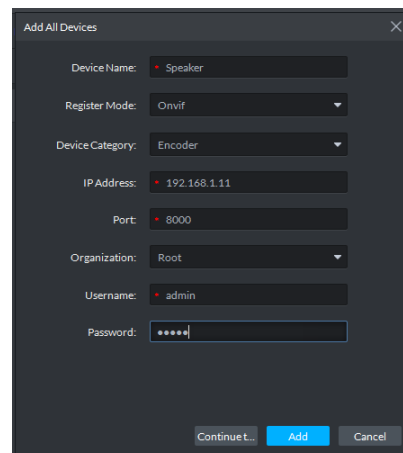
2. Within the **DSS** software go to the **Device Menu** screen and **click add**.



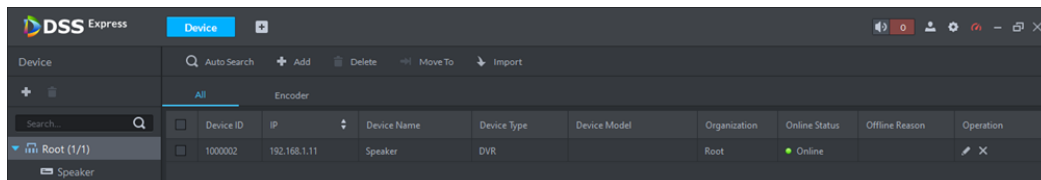
3. Enter the following information:

- 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**.

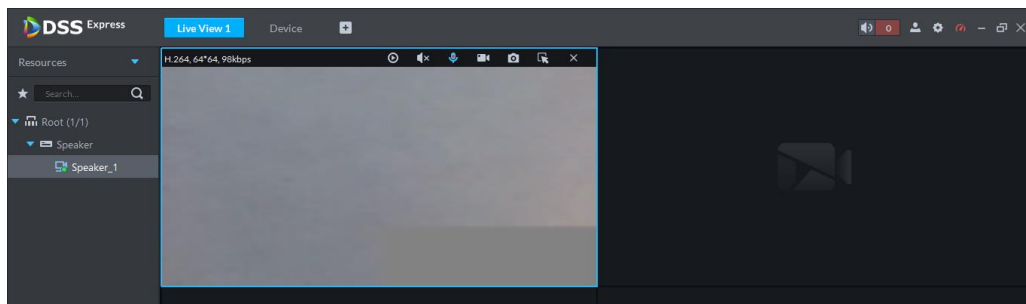


4. Wait for the device to show online.



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.



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SET UP TERRACOM II APH30-IPM

Go further with **TERRACOM II**

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

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