

## IP WALLMOUNT SPEAKER

# WWC6-IPM

The WWC6-IPM is a 20 Watts IP 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 WWC6-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)              | 85-18,500 |
| S.P.L. @ 1 m, 1 Watt, dB, Octave, 100 Hz-10 kHz          | 95        |
| S.P.L. @ 1 m, Full power, dB, Octave, 100 Hz-10 kHz      | 103       |
| Dispersion at 1k/2k Hz, Degrees                          | 180/180   |



# TECHNICAL SPECIFICATIONS

## WWC6-IPM

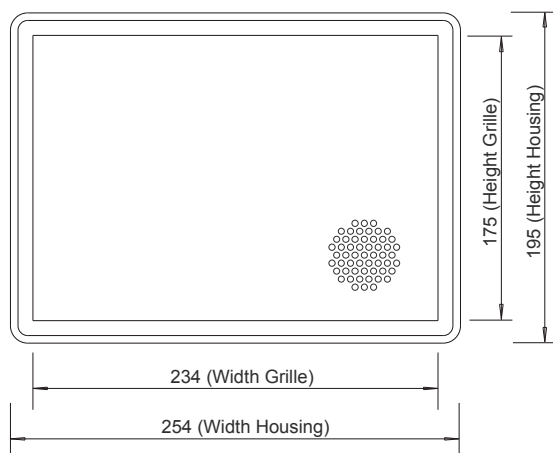
|                                                                       |                                                                                               |
|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Power supply                                                          | PoE+, IEEE802.3af, class 3<br>DC power input: 24 VDC (18-24 VDC)<br>Minimum power supply: 2 A |
| <b>● Control Inputs</b>                                               |                                                                                               |
| Type                                                                  | Euro-block terminal                                                                           |
| Mode (analog/TTL), VDC                                                | max. 3.3                                                                                      |
| TTL logic input (max.), VDC                                           | HIGH active: 3.3<br>LOW active: 1.2                                                           |
| <b>● Interconnection</b>                                              |                                                                                               |
| Female RJ45 socket, CAT5/6 cables                                     |                                                                                               |
| Max. cable length, m                                                  | 100                                                                                           |
| <b>● Supported Protocols</b>                                          |                                                                                               |
| SIP 2.0 (peer and proxy)                                              |                                                                                               |
| IETF SIP (RFC3261)                                                    |                                                                                               |
| IETF IGMP version 2 (RFC2236)                                         |                                                                                               |
| IETF RTP (RFC1889)                                                    |                                                                                               |
| <b>● Contact Output</b>                                               |                                                                                               |
| Type                                                                  | Euro-block terminal                                                                           |
| Default status                                                        | OPEN (N.O.)                                                                                   |
| Maximum voltage, VDC                                                  | 100                                                                                           |
| Maximum current, A                                                    | 0.5 A                                                                                         |
| <b>● Audio</b>                                                        |                                                                                               |
| Audio compression                                                     | G.711, G.722, WAV, MP3                                                                        |
| <b>● Network</b>                                                      |                                                                                               |
| 10/100 Mbps Base TX Ethernet RJ45                                     |                                                                                               |
| Manual or Dynamic Host Configuration Protocol (DHCP) IP address setup |                                                                                               |
| Time and date synchronization using NTP                               |                                                                                               |
| <b>● Environmental</b>                                                |                                                                                               |
| IP-rating                                                             | 21                                                                                            |
| Min/Max amb temp                                                      | -10°C to 55°C                                                                                 |
| Relative humidity                                                     | n/a                                                                                           |
| <b>● Mechanical</b>                                                   |                                                                                               |
| Dimensions, mm                                                        | 254 x 195 x 82                                                                                |
| Net weight, kg                                                        | 2.3                                                                                           |
| Colour (Unless Specified)                                             | White RAL9016                                                                                 |



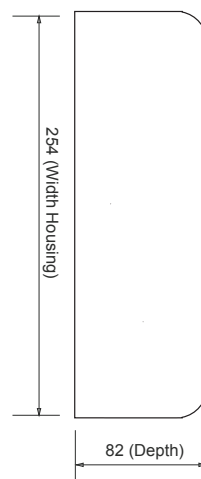
# INSTALLATION GUIDE

## WWC6-IPM

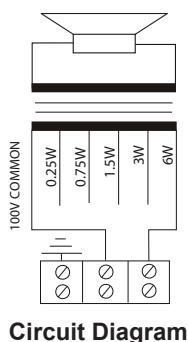
Front view  
(unit: mm)



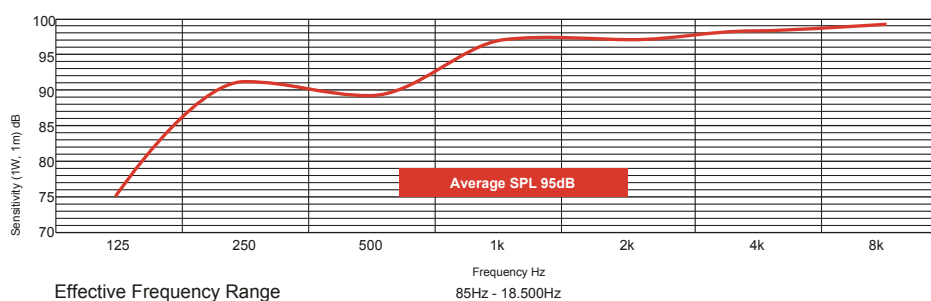
Top view  
(unit: mm)



- 1) Remove the housing rear wall of the WWC. Then position the back on the desired wall (guide the cable through the hole) and mark through the holes provided.
- 2) Drill the markings and attach the housing rear wall of the loudspeaker to the wall.
- 3) Select loudspeaker connection and power connection at the transformer.
- 4) Place the speaker on the housing rear wall and tighten it with the screws. Provide screws with cover caps.



Frequency response



Disclaimer: We reserve the right of changes and errors.



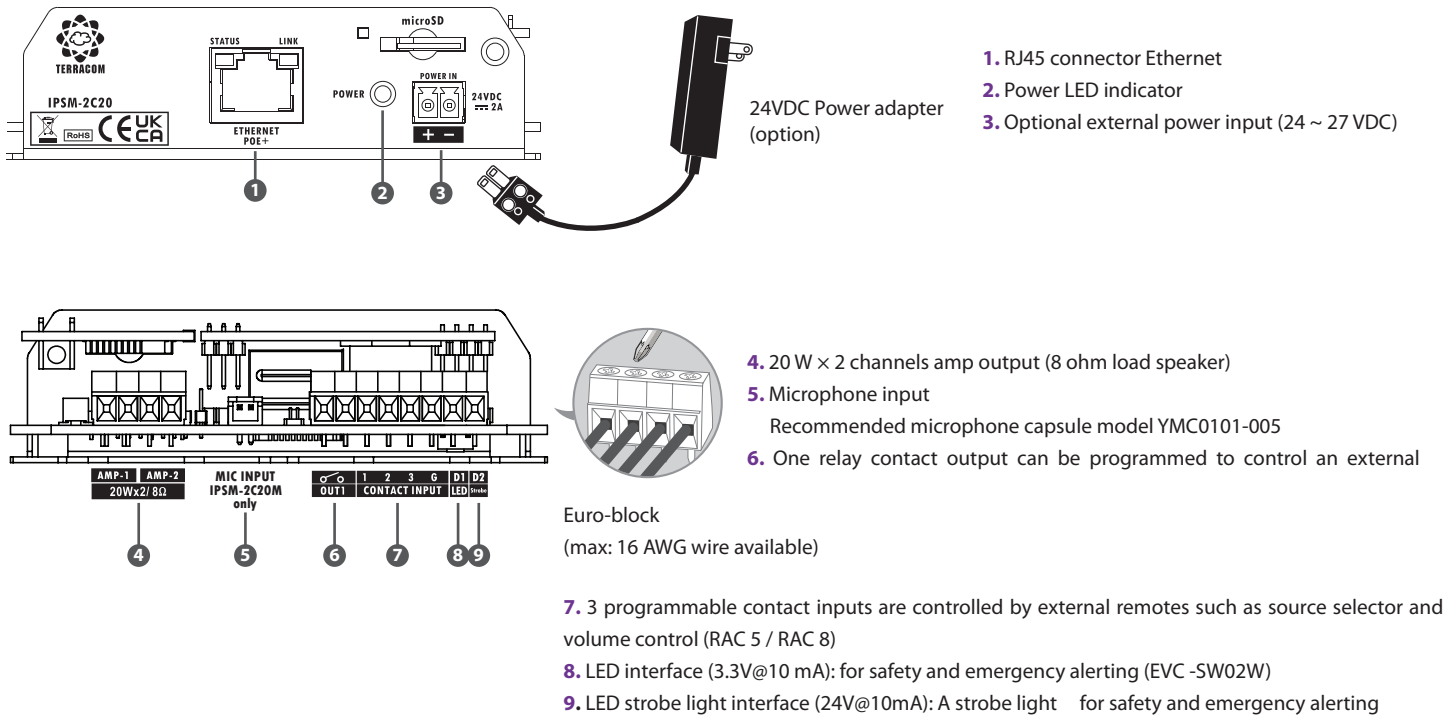
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# INSTALLATION GUIDE

## WWC6-IPM

### LOUDSPEAKER CONNECTIONS



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# QUICK START WWC6-IPM

## Network

WWC6-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 WWC6-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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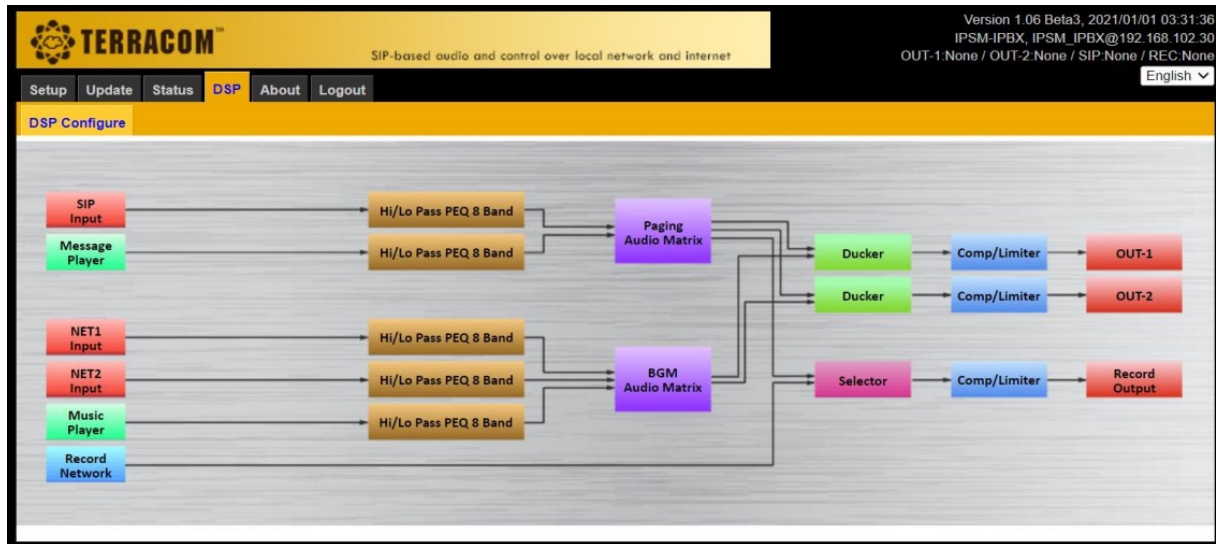


# QUICK START

## WWC6-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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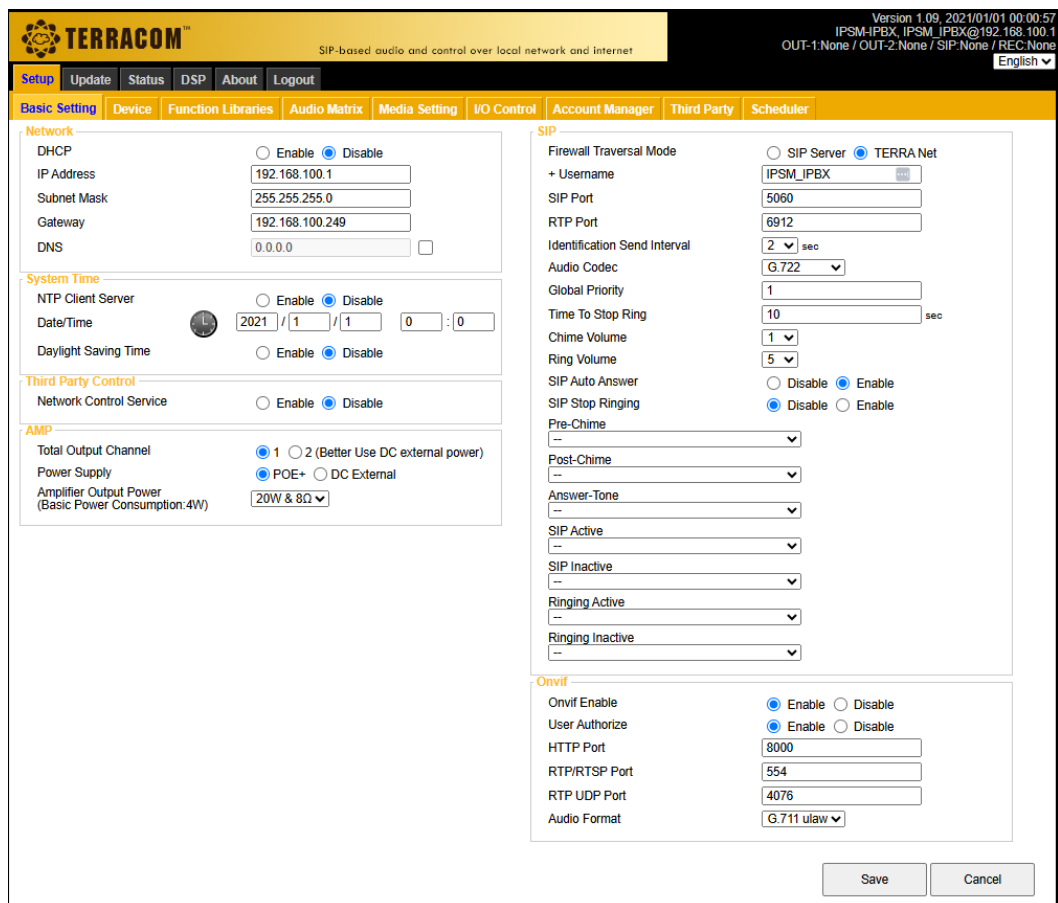
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# ONVIF WWC6-IPM

## Milestone VMS

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



The screenshot shows the configuration interface for the TERRACOM WWC6-IPM device. The 'ONVIF' section is highlighted, showing the following settings:

- Onvif Enable:** ☒ Enable ☐ Disable
- User Authorize:** ☒ Enable ☐ Disable
- HTTP Port:** 8000
- RTP/RTSP Port:** 554
- RTP UDP Port:** 4076
- Audio Format:** G.711 ulaw

Other visible sections include:

- Network:** DHCP (Disable), IP Address (192.168.100.1), Subnet Mask (255.255.255.0), Gateway (192.168.100.249), DNS (0.0.0.0).
- System Time:** NTP Client Server (Disable), Date/Time (2021/1/1 0:0).
- Third Party Control:** Network Control Service (Disable).
- AMP:** Total Output Channel (1), Power Supply (POE+), Amplifier Output Power (20W & 8Ω).
- SIP:** Firewall Traversal Mode (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), SIP Auto Answer (Enable), SIP Stop Ringing (Disable), Pre-Chime, Post-Chime, Answer-Tone, SIP Active, SIP Inactive, Ringing Active, Ringing Inactive.

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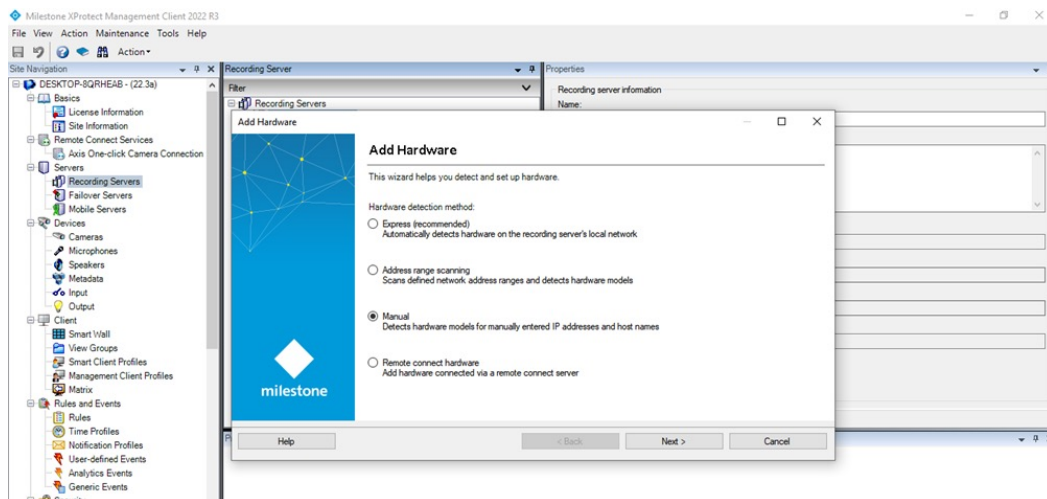
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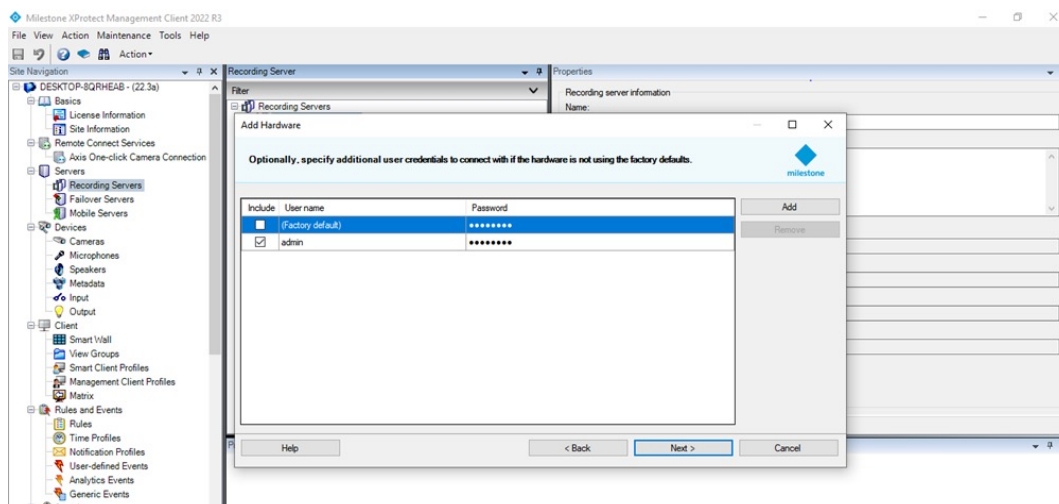
# ONVIF WWC6-IPM



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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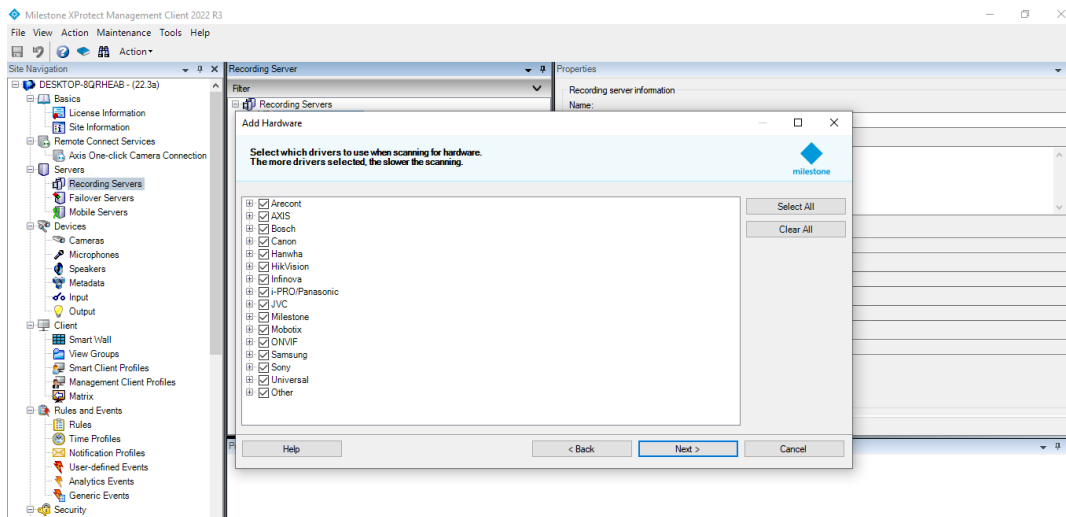


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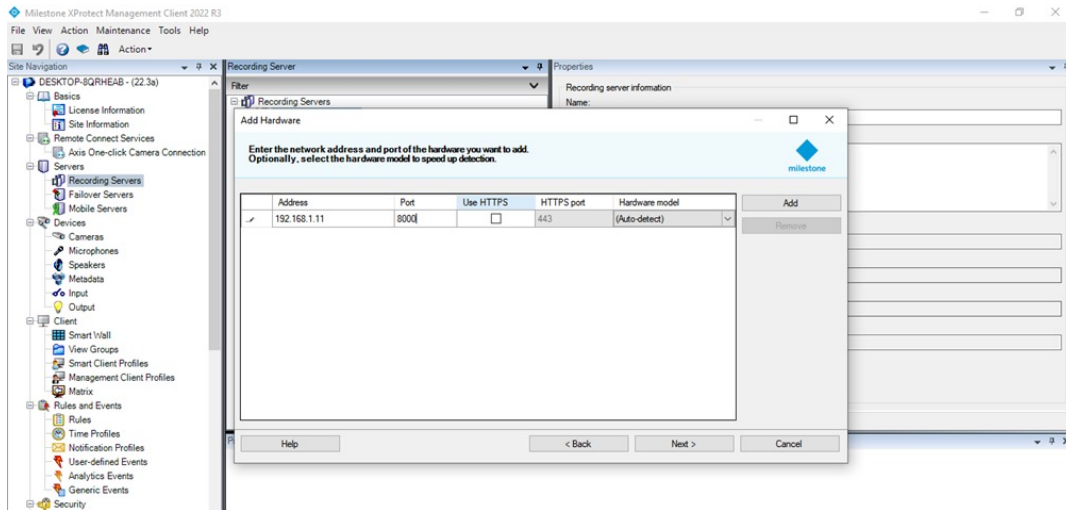


# ONVIF WWC6-IPM

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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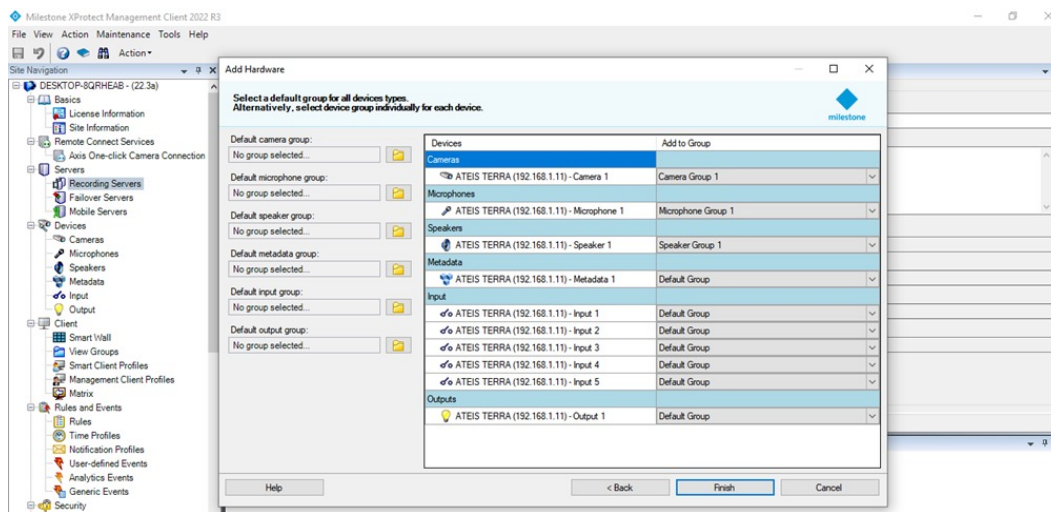
# ONVIF WWC6-IPM

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

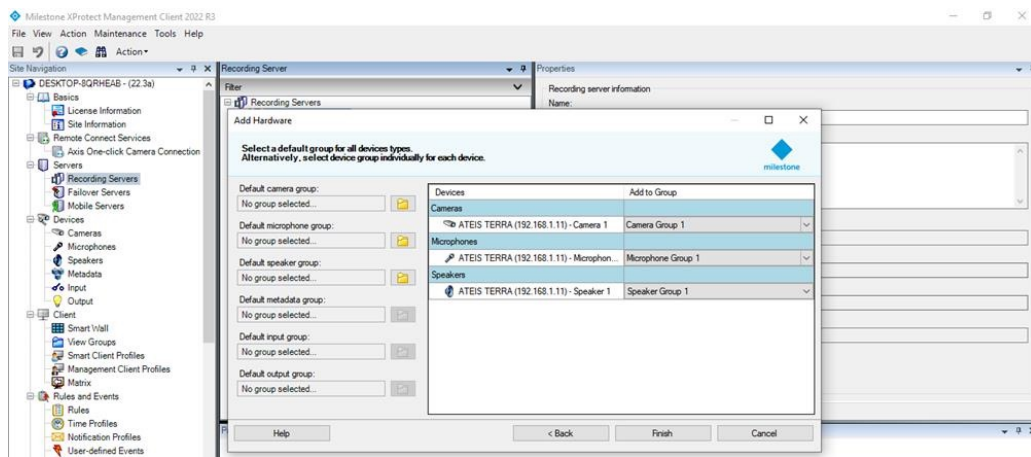
**Camera:** will show a holding screen to show connection.

**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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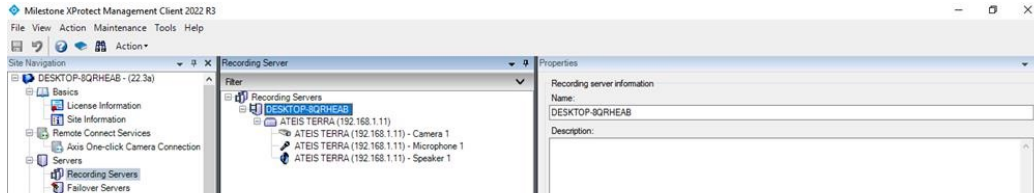
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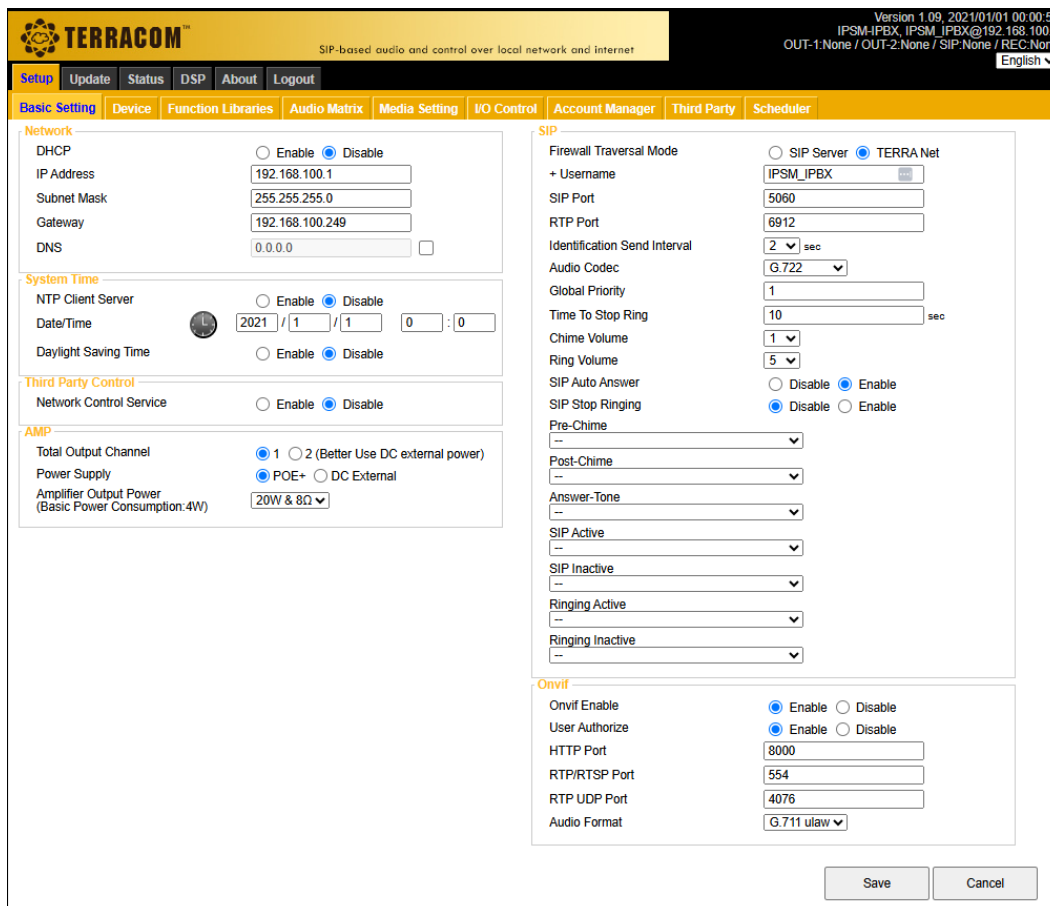
## ONVIF WWC6-IPM

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**.



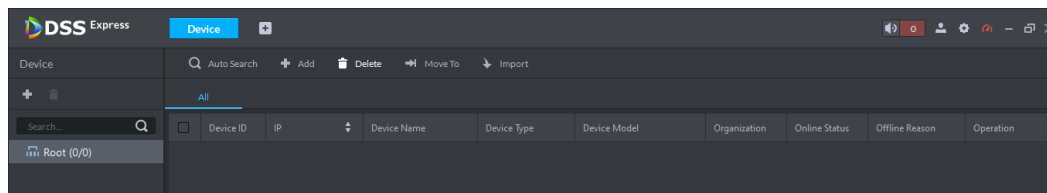
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# ONVIF WWC6-IPM

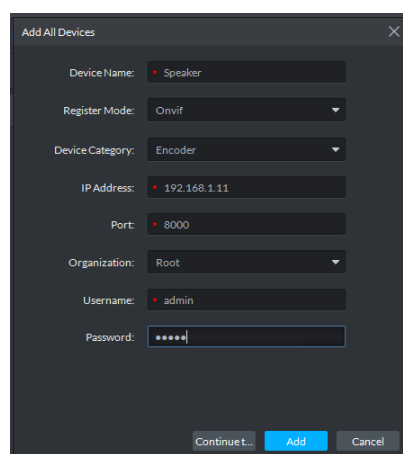
2. Within the **DSS** software go to the **Device Menu** screen and **click add**.



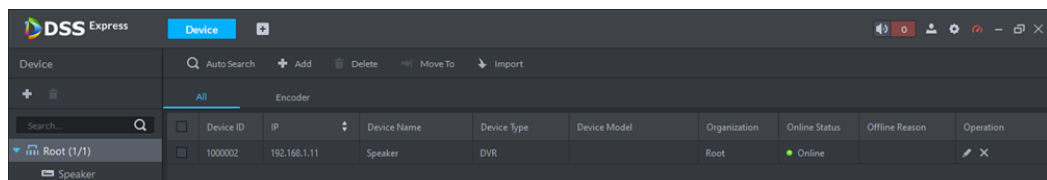
3. Enter the following information:

- 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**.

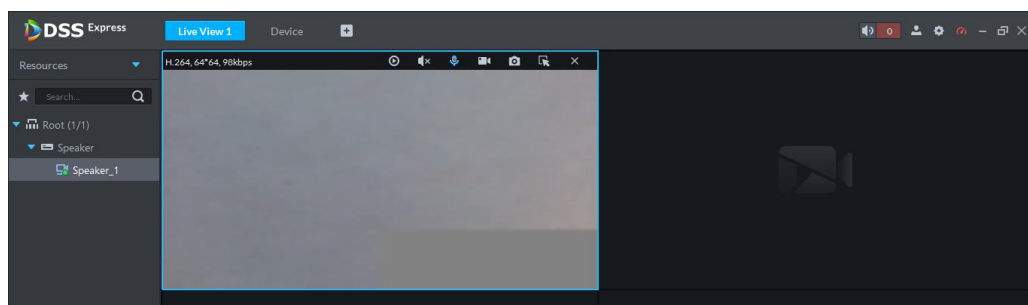


4. Wait for the device to show online.



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 WWC6-IPM

Go further with **TERRACOM II**

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

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