

## IP WALLMOUNT SPEAKER

# WWC6-IP

The WWC6-IP 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-IP incorporates 3 control inputs for level control and source selection (using the RAC 5/8 controllers), 1 contact output for triggering events.

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-IP

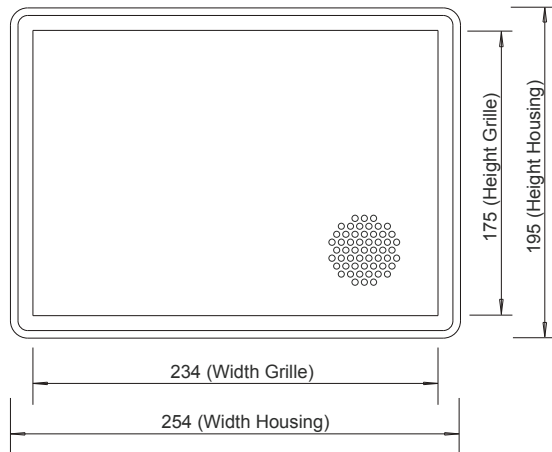
|                                                                       |                                                                                               |
|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 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                                                                                 |



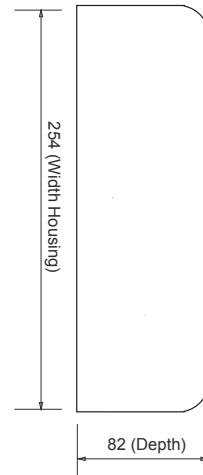
# INSTALLATION GUIDE

## WWC6-IP

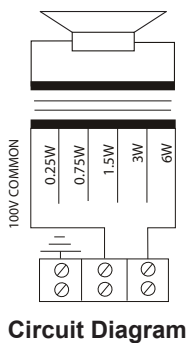
Front view  
(unit: mm)



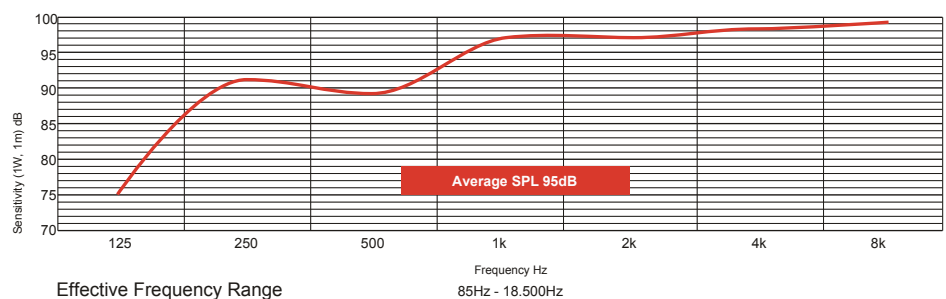
Top view  
(unit: mm)



- 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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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 WWC6-IP

## Network

WWC6-IP 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-IP (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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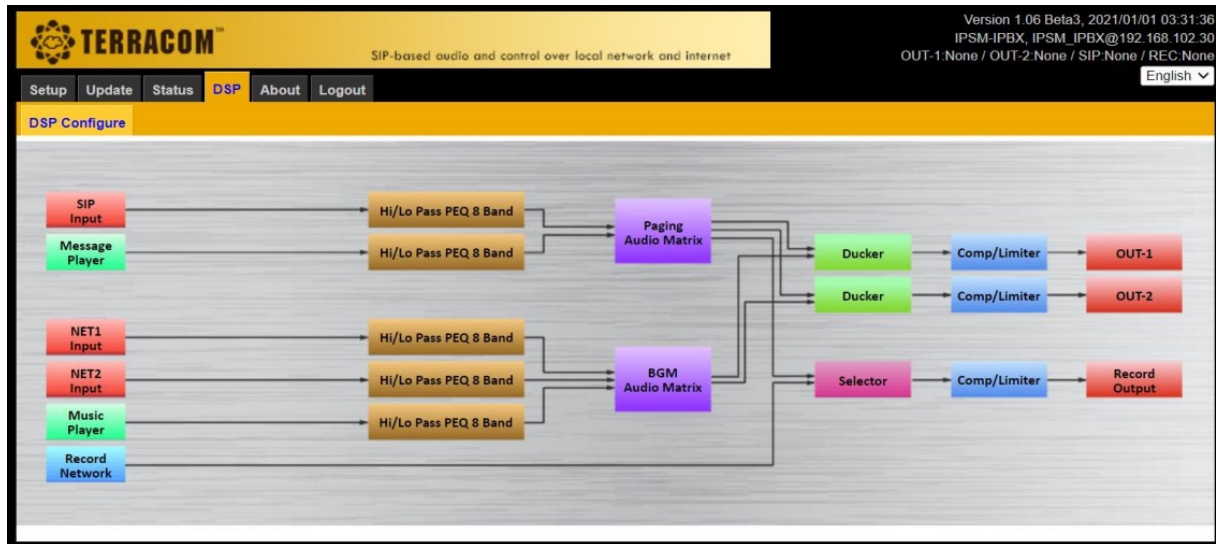


# QUICK START

## WWC6-IP

### 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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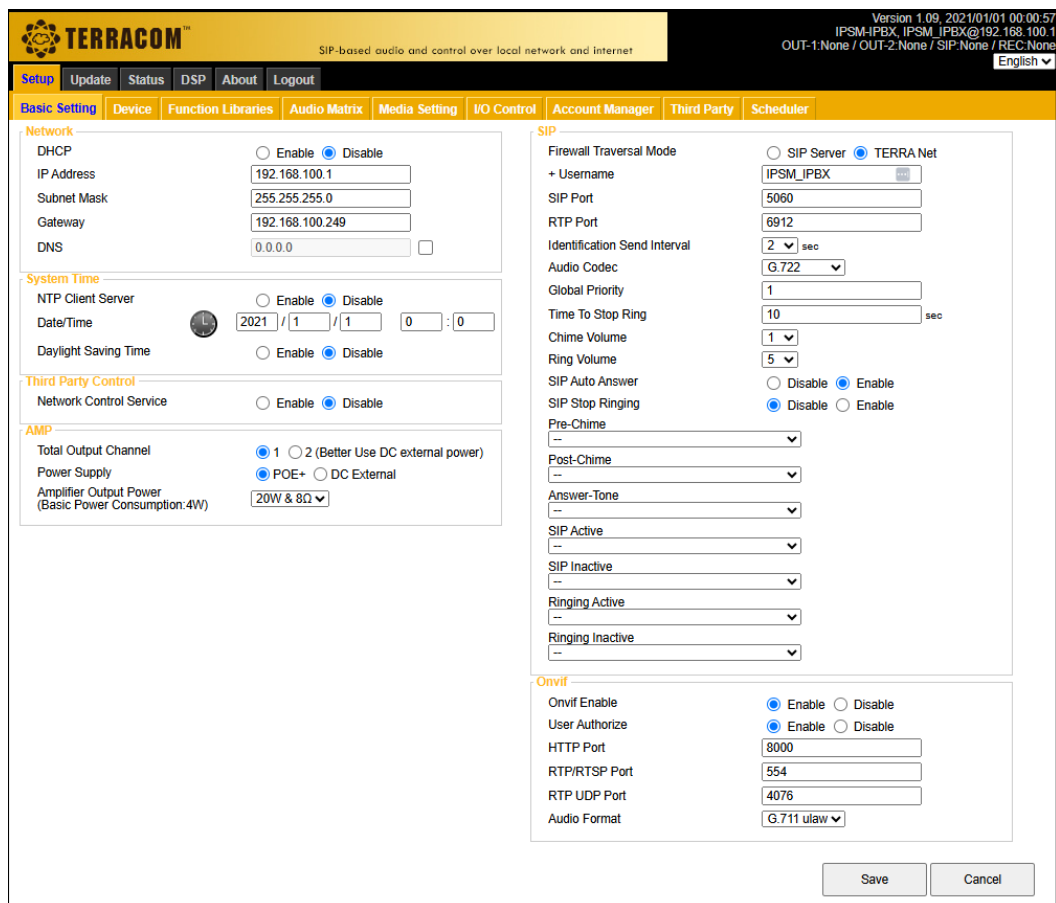
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# ONVIF WWC6-IP

## 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:** DHCP (Enable/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 (Enable/Disable), Date/Time (2021/1/1 0:00), Daylight Saving Time (Enable/Disable).
- Third Party Control:** Network Control Service (Enable/Disable).
- AMP:** Total Output Channel (1/2), Power Supply (POE+/DC External), Amplifier Output Power (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), SIP Auto Answer (Disable/Enable), SIP Stop Ringing (Disable/Enable), Pre-Chime, Post-Chime, Answer-Tone, SIP Active, SIP Inactive, Ringing Active, Ringing Inactive.
- 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).

At the bottom right of the configuration area are buttons for Save and Cancel.

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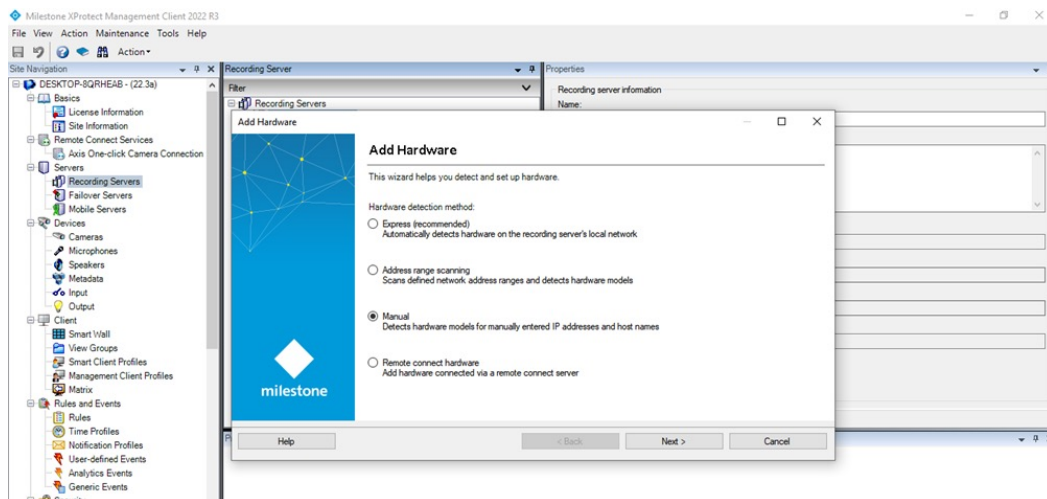
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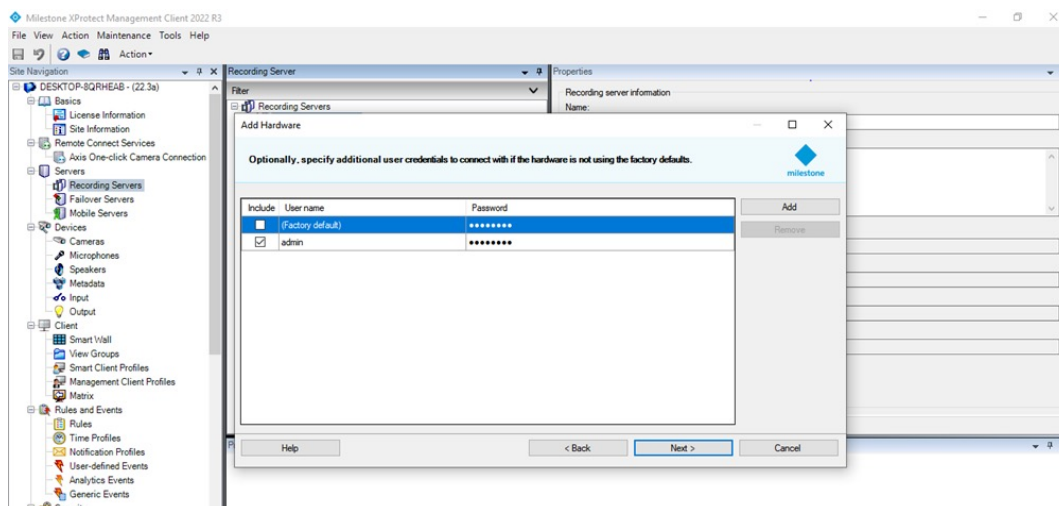
# ONVIF WWC6-IP



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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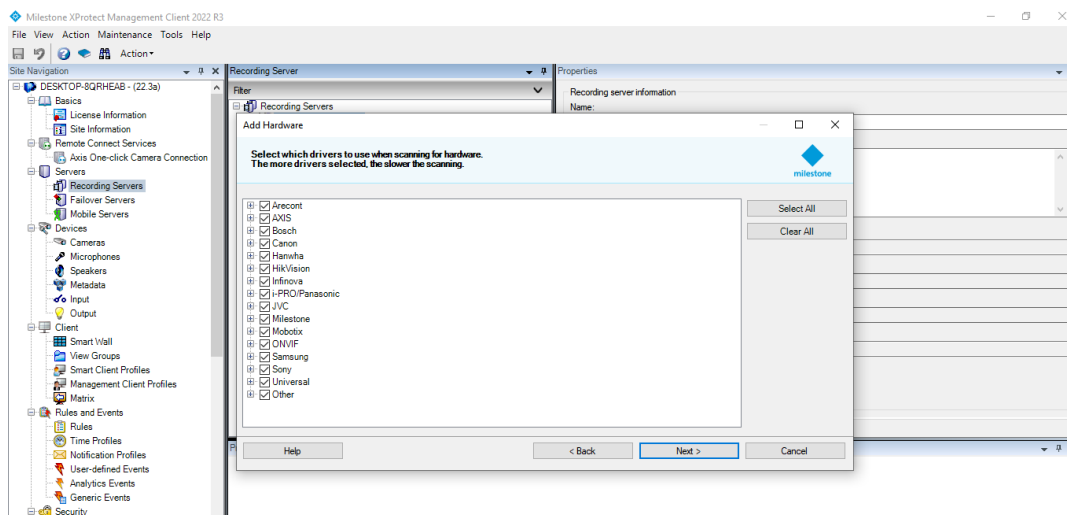


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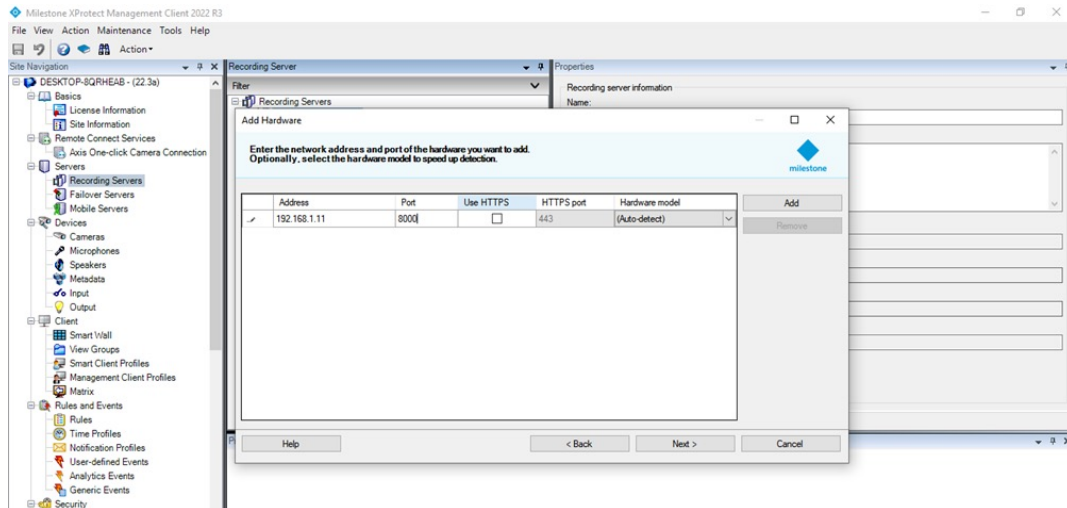


# ONVIF WWC6-IP

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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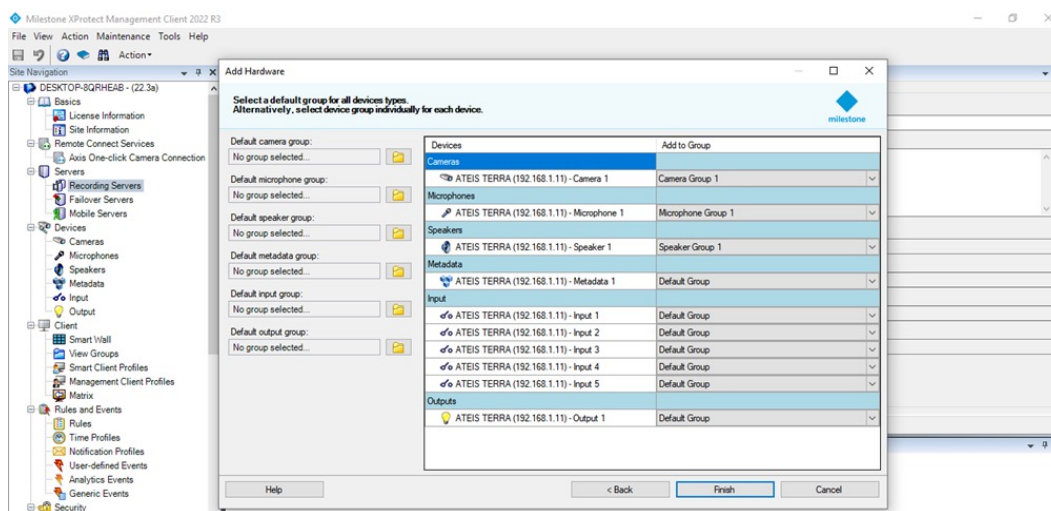
# ONVIF WWC6-IP

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

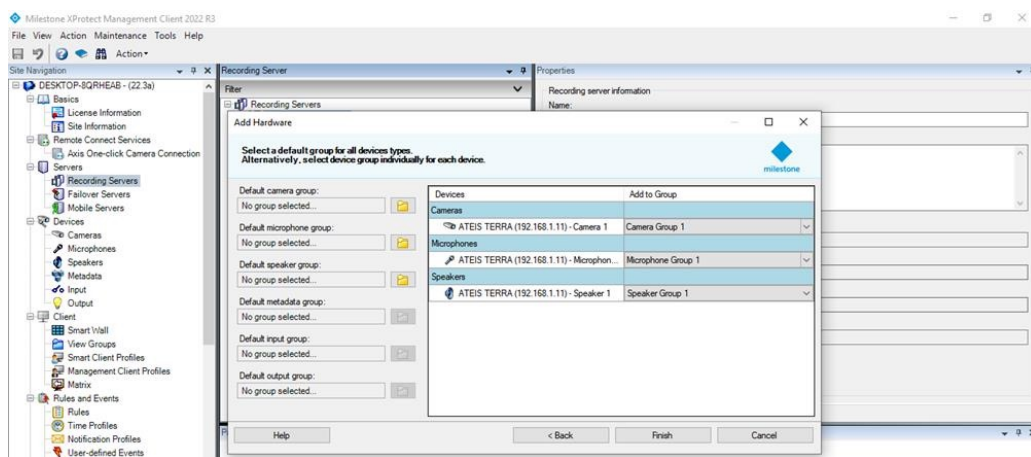
**Camera:** will show a holding screen to show connection.

**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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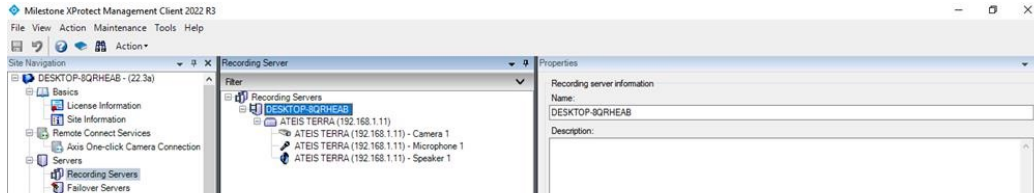
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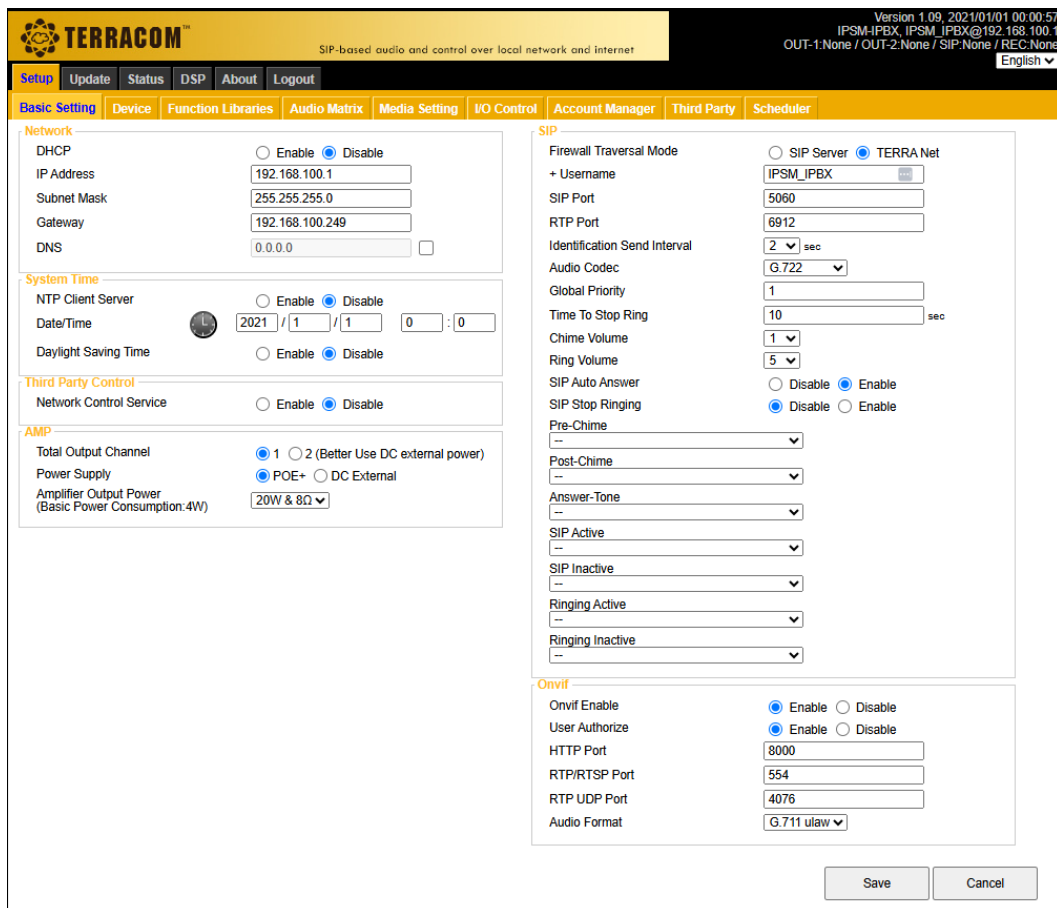
## ONVIF WWC6-IP

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**.



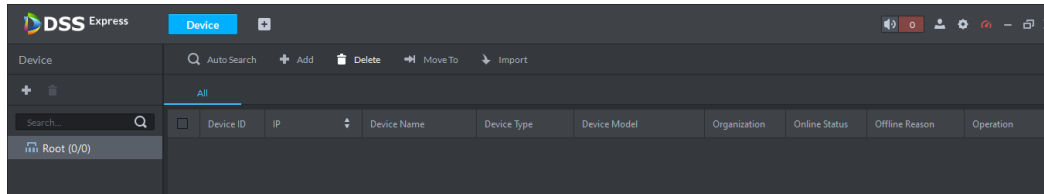
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# ONVIF WWC6-IP

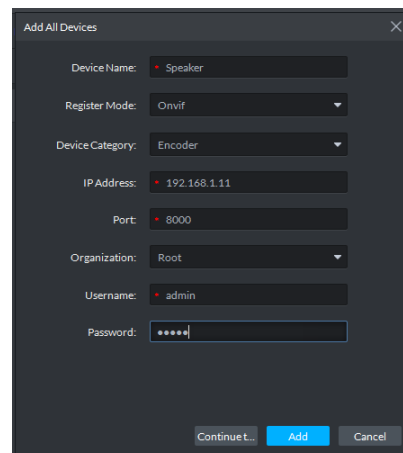
2. Within the **DSS** software go to the **Device Menu** screen and **click add**.



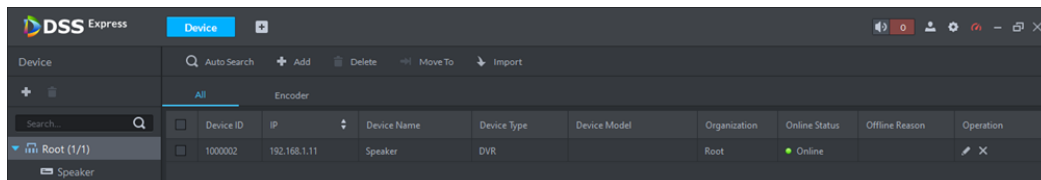
3. Enter the following information:

- 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**.

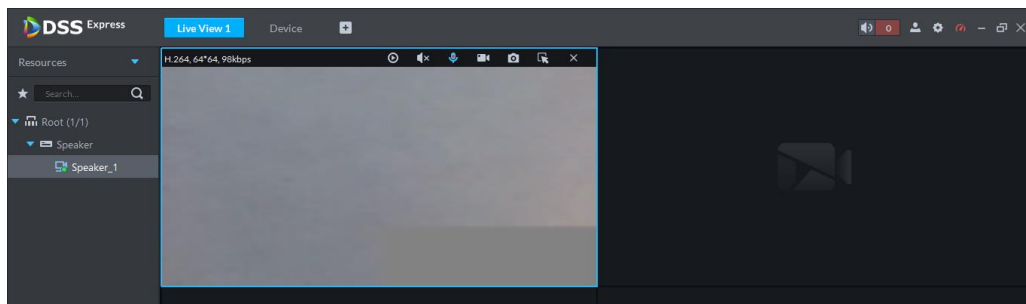


4. Wait for the device to show online.



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-IP

Go further with TERRACOM II

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

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