

See Extraordinary

# HYPERVSN

## OPERATING MANUAL

Integrated 3D Holographic Display System

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Thank you for purchasing our product!



**WARNING! This Operating manual must be thoroughly read and understood before installation, operation and use of HYPERVSN Device.**

This Operating manual is designed as a general guide for HYPERVSN Model MS (hereinafter referred to as, the “Device”).

Please check the online manual at <https://hypervsn.com/operating-manual/> for the most up to date information.

This Operating manual provides an overview, safety rules and requirements, technical specifications and other important information required to assemble, install and operate the Device.






Kino-mo Ltd, the manufacturer, disclaims all liability for any harm caused to the user or viewers by improper Device operation and use.

No changes shall be made to the equipment without the manufacturer’s permission as this may void the user’s authority to operate the Device.

## SAFETY AND OTHER SYMBOLS

The following symbols are found on the exterior of the Device and in this manual:

Table 1. Safety and other symbols

SYMBOL	MEANING
	CE marking
	Eurasian Conformity mark
	General Warning Sign
	Protective Earth (grounding)
	22/99 RAEE Disposal See section 11.

## 1. DEVICE OVERVIEW

The Device is a cutting-edge visual solution, designed for creating, managing and displaying 3D video content perceived by viewers as high-resolution holograms floating in mid-air.



Picture 1. Device general view

*Note. The appearance of the Device may vary slightly from the pictures presented in this manual.*

- Spinning rays of the Device create a surface on which 3D video content can be displayed.
- The Device displays holographic visuals of up to 56 cm.
- The Device is managed through the proprietary Content Management Software (hereinafter referred to as, the “CMS”). It allows to create your own content library, schedule playlists and collect analytics to evaluate the success of your media campaigns.
- The content is uploaded via a Wi-Fi connection.
- The content may be managed and the Device may be controlled via a mobile phone application.

*Note. For detailed information, see the Quick start guide and the User guide for Solo App ([https://hypervsn.com/media/AFU/Quick\\_start\\_guide.pdf](https://hypervsn.com/media/AFU/Quick_start_guide.pdf) and [https://hypervsn.com/media/SoloApp/User\\_guide.pdf](https://hypervsn.com/media/SoloApp/User_guide.pdf)).*

- The Device is designed for static mounting on walls or custom-made, stand-alone structures.
- The Device may be supplied with or without the remote control, depending upon configuration and region.

## Key components

- rotor (with four rays),
- stator,
- wall bracket,
- remote control (optional).



Picture 2. Device components



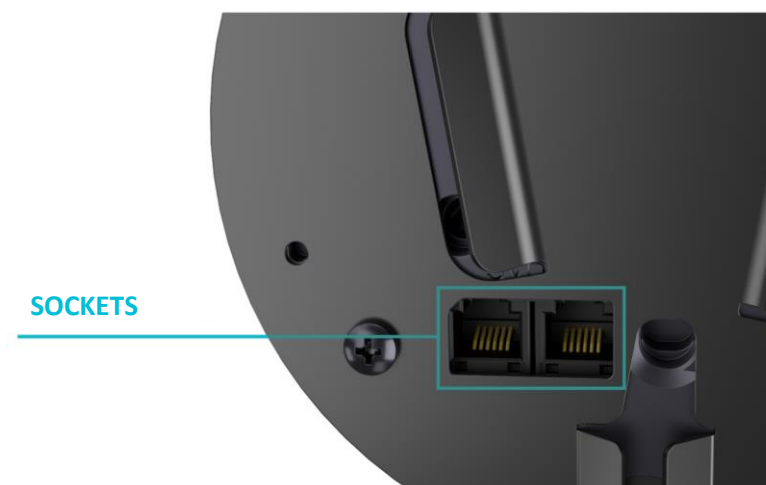
Picture 3. Remote control (optional)

**Note.** The dome is an optional accessory component (Picture 4). It is designed to prevent possible damage to the Device and to provide safety to viewers. This is particularly important in situations, where the Device will be mounted lower than specified in the precautions. The dome is supplied on customer request at additional cost.



Picture 4. Device with the dome installed

**Note.** The sockets at the bottom of the stator are intended to provide connection with HYPERVSN MasterBox. For more detailed information, see the Operating manuals for HYPERVSN MasterBox and HYPERVSN Wall.



Picture 5. Sockets at the bottom of the stator

## 2. TECHNICAL SPECIFICATIONS

Table 2. Operating environmental conditions (indoors) for Device

CONDITIONS	VALUE
Air temperature range	From 0°C to 35°C+
Relative humidity	Up to 75%

Table 3. Basic technical specifications of Device

PARAMETERS DESCRIPTION	VALUE
Maximum image size (diameter)	567mm
Diameter	567mm
Depth	174mm
Number of rays	4
Rotation speed	670RPM
Number of LEDs per each ray	168
Input voltage	100-240V
Current	1.0A
Input AC frequency	50/60Hz
Net weight	2.8kg
Noise figure on the Device axis (1 m from the Device)	45Db
Fuse	Ceramic 4A 250VAC 5X20mm
Power cable length	3m
Power cable thickness	8mm (max)

PARAMETERS DESCRIPTION	VALUE
AC plug	B, F, G, H type AC plug type is dependent on the country of destination (consumer region)
Remote control (optional)	IR type
Battery (for remote control)	CR2032, 3V

The Device has Class A electromagnetic compatibility.

**Attention.** Operation of this equipment in a residential environment could cause radio interference.

The Device is to be connected to single-phase alternating current mains (with 100-240V voltage and 50/60Hz frequency) and can be operated continuously while plugged in.



### 3. PACKAGE CONTENTS

Table 4. Package contents

COMPONENT NAME	QUANTITY (# OF PIECES)
Stator	1
Rotor	1
Wall bracket	1
Cable with connectors 6P4C	1
Operating manual	1
Remote control (optional)	1
Safety bolt	1

#### Tools and fittings required (not supplied)

To assemble and install the Device, you will need the following tools and fittings that are not supplied with the Device:

- Philips (PH2) screwdriver – to assemble the Device.



Picture 6. PH2 bit

- Drill – to make holes in a wall, where the Device will be mounted.  
Holes diameter:
  - a) for a partitioned wall – 5.3mm,
  - b) for a concrete wall – 5.0mm.
- Fasteners – 3 pieces to attach the wall bracket (M5 mounting hardware, appropriate for the mounting surface – a partitioned or a concrete wall).

## 4. DEVICE INSTALLATION AREAS

### 4.1 PROHIBITED AREAS



**WARNING! Do not install the Device regardless of their height in the following areas:**

1. Children's playgrounds.
2. Animal's open-air cages.
3. Areas easily accessible to domestic pets (cats, dogs, etc.).



**WARNING! Do not install the Device without the dome in the following areas:**

4. Areas where birds or insects may come into contact with the Device.
5. Next to any objects (curtains, drapes) that could potentially (under the influence of wind or other external factors) come into contact with the Device.

### 4.2 INSTALLATION REQUIREMENTS

1. The Device must be installed out of public reach. Solutions include, but are not limited to:
  - a) Custom-made, stand-alone installations.
  - b) Closed display cases (provided that the personnel on site follow all safety guidelines).
  - c) Installations in public places, where the mounting height must be at least 2.9m.

*Note. Mounting height is defined as the distance from floor level to the lowest point of the rotating element.*

2. Do not install the Device in areas affected by high temperatures, heavy steam/vapor, large volumes of dust, air conditioners, radiators, ovens and other similar equipment. Ensure that the Device is properly ventilated.

Please carefully read the requirements below to achieve optimal holographic effects from the Device, ensuring that your visuals appear to be floating in mid-air.

3. It is not recommended to install the Device under direct sunlight or light from lighting fixtures.
4. The most suitable background color for Device installations is dark matte grey (anthracite). Do not install the Device against a white/ lightly backgrounds or in close proximity to bright light sources such as, large LED displays or projector screens.
5. In overly spacious premises it is not recommended to install a single Device. In premises of over 100 square meters and with ceilings 5m high, it is recommended to install at least two Devices side by side; and in premises over 200 square meters and with ceilings 5m high it is recommended to install at least three Devices side by side.

6. The recommended Device installation angle is 90° to the mounting surface.

DRAFT

## 5. DEVICE ASSEMBLY

### Important.

- If the Device has been stored in low temperatures, leave it indoors for at least 2 hours before use. This avoids moisture condensing on internal components of the Device, which otherwise may cause damage to the Device.
- Do not touch LEDs of the rays. This may damage them.

**Attention.** Before assembling the Device, double-check that the components seem to be in good working order.

- Ensure that the wireless antenna remains with its full integrity. (Do not cut the wireless antenna off).



Picture 7. Wireless antenna

- The rays should not have any cracks or other visual damage.
- The stator should not have any dents in it.
- If the Device is supplied disassembled, check that the shaft is perpendicular to the bottom (base) of the stator, the shaft should turn on its axis (rotate the shaft with your fingers).

Contact your supplier if you notice any irregularities during your component check.

## Assembly procedure

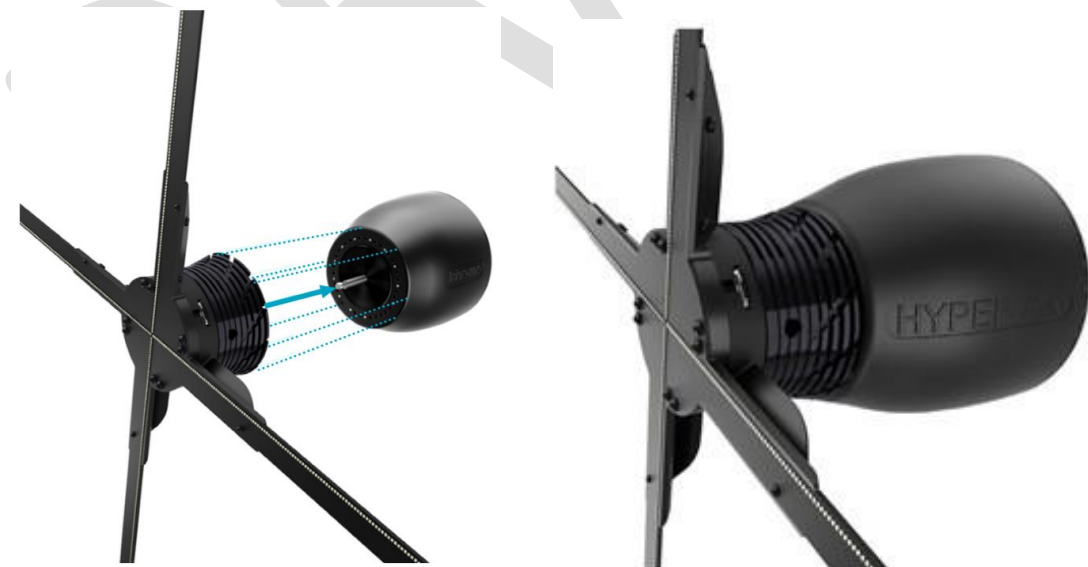
**Attention.** Alternatively, the Device may be supplied pre-assembled. In this case, skip the steps of the Device assembly procedure described in this section.

1. The indentation in the shaft (marked with an arrow in the picture below on the left) needs to be positioned against the white mark on the bottom of the rotor (marked with an arrow in the picture below on the right).



Picture 8. Positioning the rotor (right) on the stator (left)

2. Carefully take the rotor (avoiding any damage to the rays) and gently place it straight onto the shaft as shown below:



Picture 9. Fitting the rotor onto the shaft

3. Firmly screw-in the binding screw inside the rotor (the binding screw is spring loaded):
- Put the screwdriver into the screw hole (Picture 10).
  - Push the binding screw in until it stops.
  - Tighten the binding screw until it stops by turning it to the right.



Picture 10. Tightening in the binding screw

If the assembly steps are performed correctly, there will not be any backlash of the stator or rotor elements.

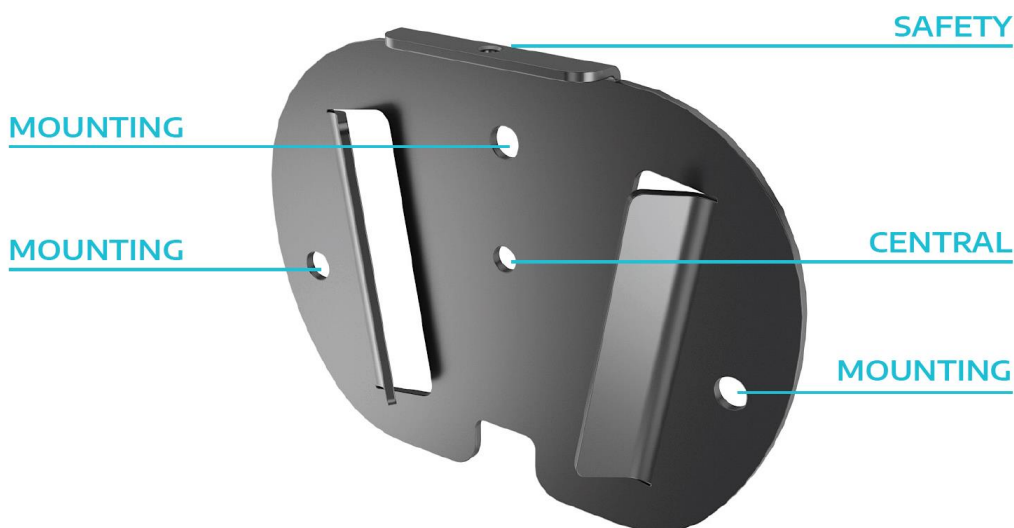
## 6. DEVICE INSTALLATION



**WARNING!** Installation should be performed by an authorized specialist.

The wall bracket has five holes:

- 1 central hole – to locate the central point of the location, where the Device will be mounted,
- 3 mounting holes (5.2mm diameter) – to fix the wall bracket,
- 1 safety hole – to fix the stator to the wall bracket by a screw.



Picture 11. Holes in the wall bracket

1. Mark the desired position of the center of the Device on the wall.
2. Position the wall bracket on the wall so that the central hole lines up with the new mark. Keep the orientation of the wall bracket the same as indicated in Picture 11. Be sure that it is level.
3. Mark the position of the 3 mounting holes on the wall.
4. Drill 3 holes in the marked positions.
5. Using the appropriate mounting hardware, firmly attach the wall bracket to a wall (Picture 12, steps 1-2).



Picture 12. Device installation on a wall

6. Place the Device on the wall bracket and slide it downwards firmly (Picture 12, step 3).
7. Attach the safety screw (supplied complete with the wall bracket) to the safety hole and screw it down (Picture 12, step 4).

**Attention.** The proper Device installation angle is  $90^\circ$  to the mounting surface. When the Device is mounted, the shaft axis should be parallel to the ground.



## 7. DEVICE OPERATING MODES OVERVIEW

**Attention.** Sections 7.1 - 7.3 are designed for reference only (no action is required at this stage).

### 7.1 OPERATING MODES

There are two Device operation modes – the Setup (Hotspot) mode and the Operating mode.

The modes are selected by the mode switch on the rotor.



Picture 13. Mode switch on the rotor

The “Setup mode” switch position is marked with a black dot.

#### Setup (Hotspot) mode

In the Setup (Hotspot) mode the Device creates a wireless network in close proximity to the Device. The network name is **hypervsn-YYXXXXXX**, where YYXXXXXX is a 7-digit serial number located on the base of the rotor.

In this mode the Device displays the “BEGIN BY UPLOADING YOUR 3D MEDIA” message (Picture 14) if there is no content uploaded onto the Device or media playback is stopped.

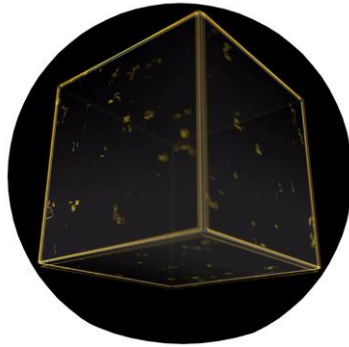


Picture 14. Starting message in the Setup (Hotspot) mode

## Operating mode

In the Operating mode the Device can be connected to the Internet, remotely controlled, and display user content.

If there is no user content uploaded onto the Device, in this mode the Device displays the following message.



Picture 15. Starting message in the Operating mode



**WARNING!** The Device must be always switched off and the rays stopped before you change the mode (move the mode switch).

## 7.2 SWITCHING THE DEVICE ON AND OFF



### WARNING!

- Do not turn on the Device until it has been fully assembled and thoroughly inspected. You must never switch on the stator without the rotor properly attached.
- Before switching on the Device make sure that there is no one standing within a radius of 0,5m (Devices that have been fitted with a protective dome are the exception).
- The Device must be always switched off and the rays stopped before you change the mode (move the mode switches).

**Important.** While moving the Device do not hold onto rays. They can be easily broken if mishandled.

### Turning on the Device equipped with the remote control

1. Put the mode switch on the stator into the counter-clockwise (left) position (Picture 16). Connect the Device to the power mains.

2. Press the remote control's "On" button. The rays on the rotor will start spinning.

**Attention.** Make sure to point the remote control towards the remote control's sensor on the Device.



Picture 16. Switch and remote control sensor

### Turning on the Device not equipped with the remote control

1. Put the mode switch on the stator into the clockwise (right) position (Picture 16).
2. Connect the Device to the power mains. The rays will start spinning immediately.

### Turning off the Device

Press the remote control's "Off" button (for models with the remote control), disconnect the Device from the power mains.

## 7.3 STATUS INDICATORS OF THE DEVICE

The Device status can be determined based on the activity of the three indicators on the base of the stator.



Picture 17. Device status indicators

Table 5. Indicators description

INDICATORS ACTIVITY	DESCRIPTION
All indicators are off	The Device is either not powered or the Device is in a normal working mode (displaying user content (if any) or messages uploaded by default).
The red indicator is on	The Device is connected to the power mains but is not turned on.

INDICATORS ACTIVITY	DESCRIPTION
The red indicator is blinking	<p>The Device engine is not working.</p> <p><i>Note. The shunt component is possibly missing or the contact integrity is compromised.</i></p> <p><i>Note. The main function of the shunt component is to stop engine operation if the shunt contact integrity is interrupted. Example: A reed switch is connected to the shunt contact as well as to the external protection (dome). If the dome is removed, the Device will shut down immediately.</i></p>
The blue indicator is blinking	HYPERVSN MasterBox is connected to the Device.
The red and the green indicators are blinking	<ol style="list-style-type: none"> <li>1. The rotor or the stator is out of order.</li> <li>2. The rotor of Model M is attached to the stator of Model MS.</li> </ol> <p><b>Attention.</b> The rotor only of Model MS must be used with the stator of Model MS (the rotor of Model MS has the “MS” sticker located near the rotor serial number).</p> <ol style="list-style-type: none"> <li>3. The Device is connected to the power mains without the rotor properly attached to the stator.</li> </ol> <p><b>Important. Do not connect the Device to the power mains without the rotor properly attached.</b></p> <p>If you notice that the red and the green indicators blink, please reassemble the Device:</p> <ul style="list-style-type: none"> <li>• Unscrew the binding screw (Picture 10),</li> <li>• Take off the rotor from the stator,</li> <li>• Perform the assemble procedure (see section 5).</li> <li>• If the red and green indicators continue to blink, contact <b>support@hypervsn.com</b>.</li> </ul>

## 8. DEVICE INITIAL ACTIVATION

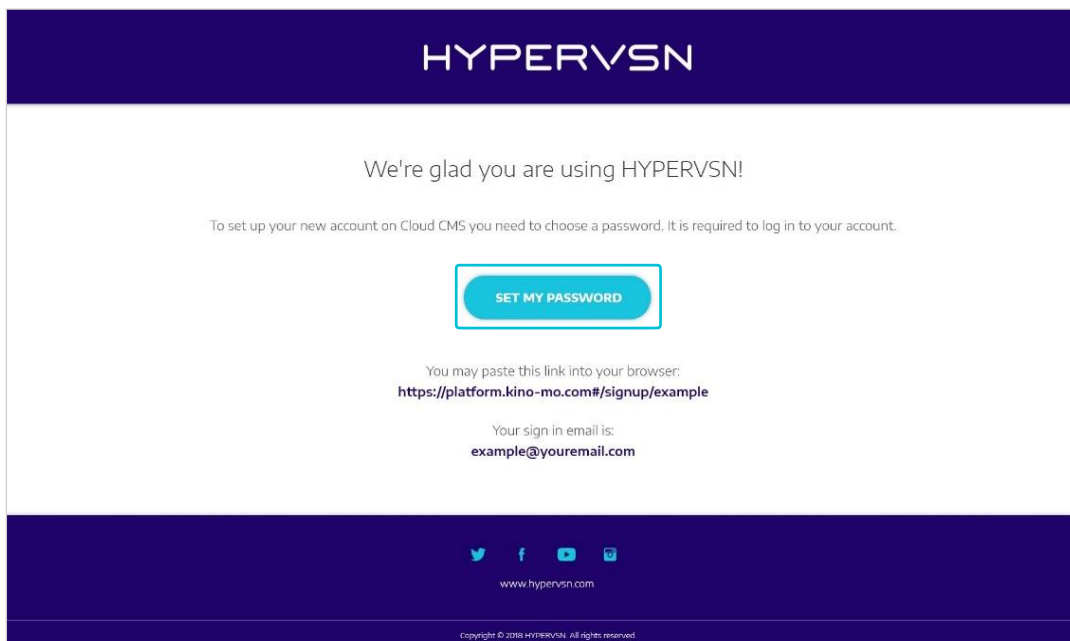
In order to use the Device, you need to first activate it.

*Note.*

- *Before starting the Device activation, define the details of the network(s) that you will use to connect the Device to the Internet.*
- *The Device requires to be connected to an Internet-enabled Wi-Fi network. If the router is provided, please configure it in accordance with the instructions provided.*
- *The appearance of web pages as presented in this manual may differ from your setup depending on the operating system and browser you use.*

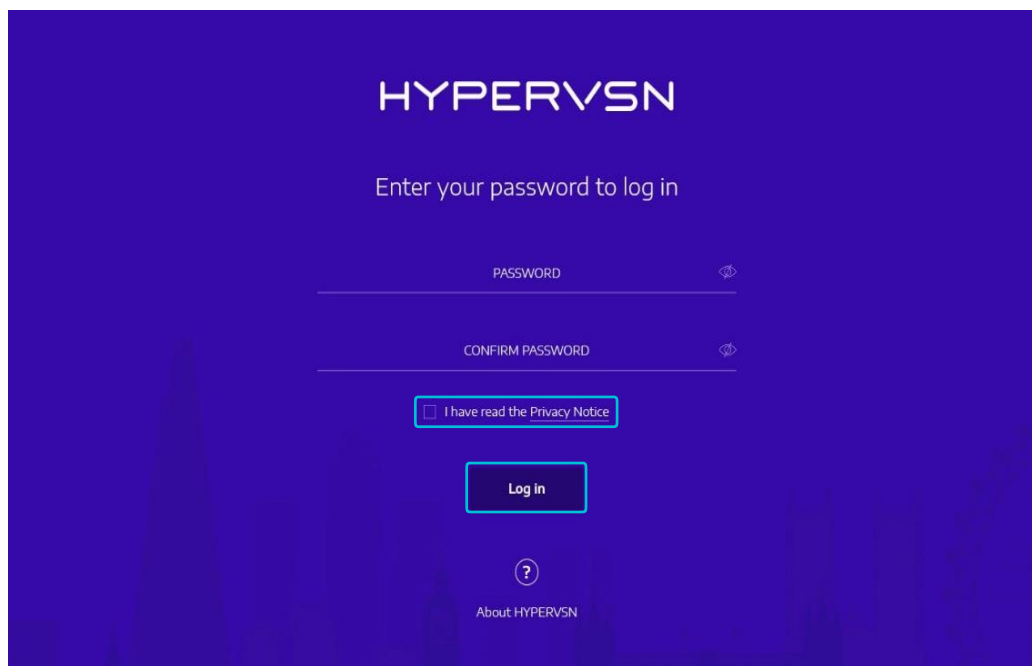
Upon purchase, each customer receives a personal email invitation. If you have not received this, kindly contact your dealer or HYPERVSN customer service.

1. Click **Set my password** in the email invitation you received or open your browser and paste the specified link into the address bar.



Picture 18. Personal email invitation

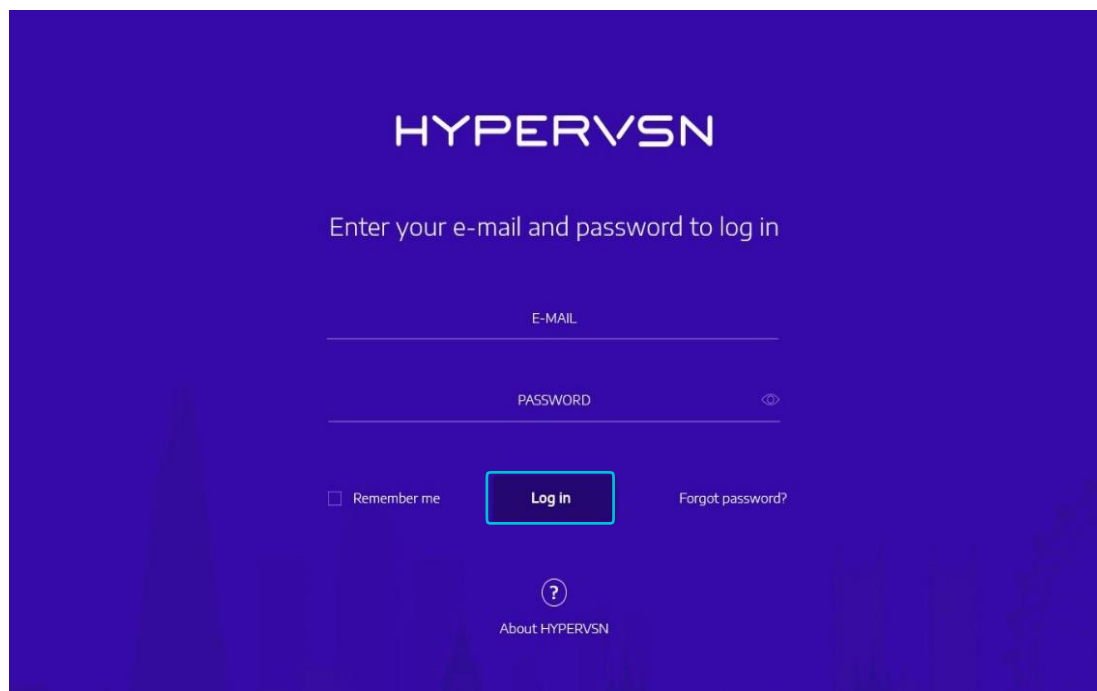
The following page will open:



Picture 19. CMS login page

2. Enter your password, confirm it, acknowledge that you have read the Privacy Notice (check **I've read the Privacy Notice**) and click **Log in**.

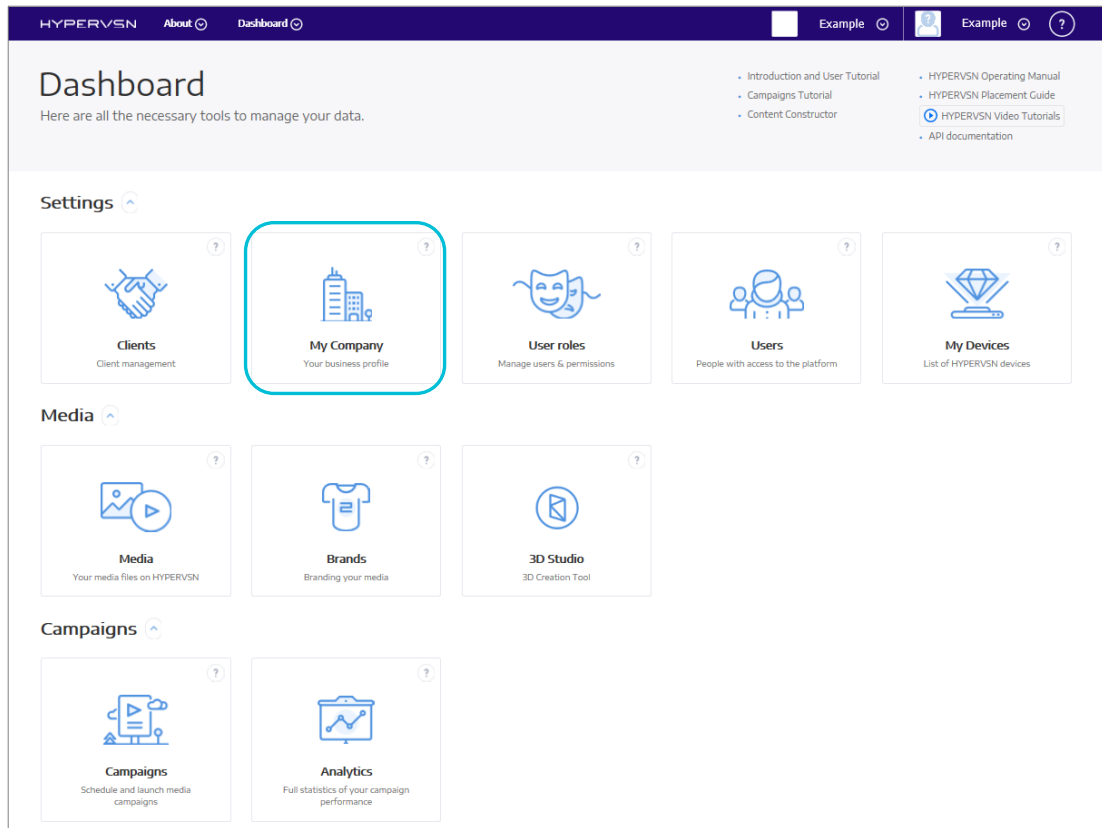
The next page will open:



Picture 20. CMS login page

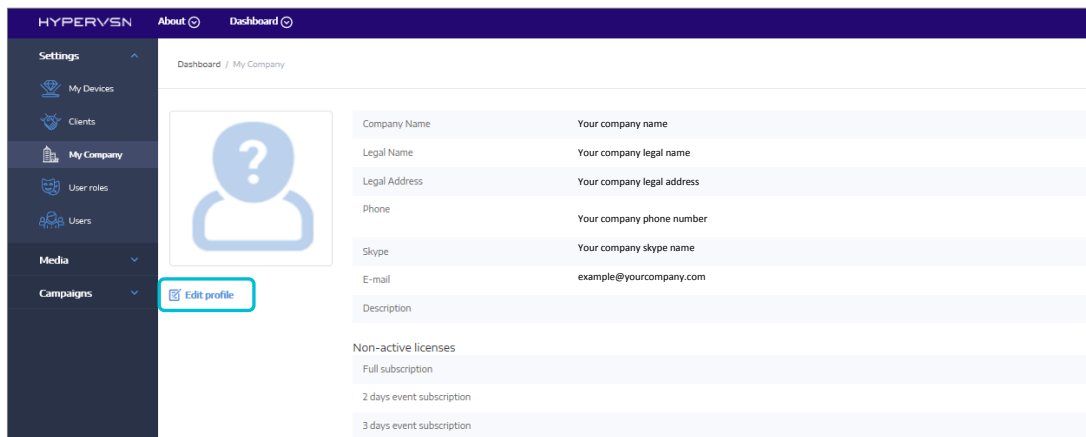
3. Enter your e-mail and password once again. Click **Log In**.

The next page will open:




Picture 21. Dashboard

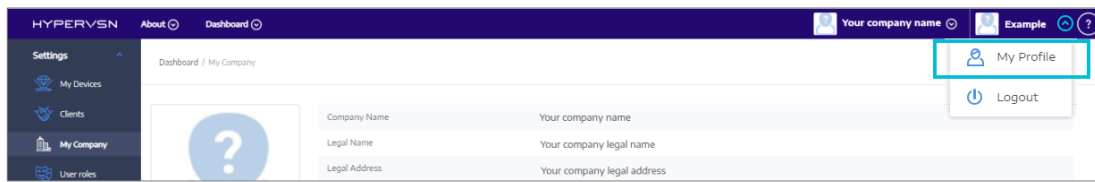
4. Click **My Company**. The next page will open:



Picture 22. "My Company" page

The first seven fields contain information about your company. If it is incorrect, click **Edit profile** and edit the data, then go to the next step. This can also be done after completing the Device installation.

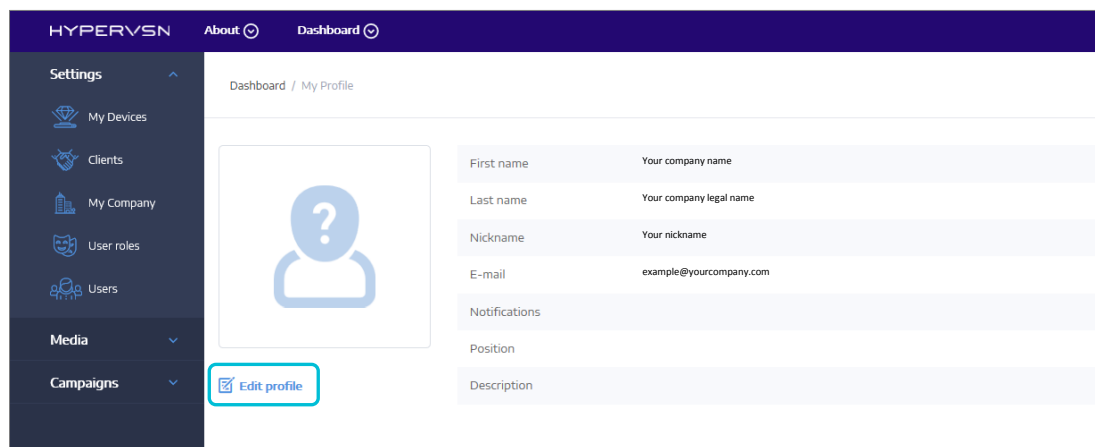
5. Click the arrow  in the right page corner next to your email address.



Picture 23. My Profile command

The drop-down menu will appear.

6. Click **My Profile** (Picture 23). The following page will open:



Picture 24. "My Profile" page

7. Check the data. If it is required to be changed, click **Edit profile** and edit the data in the open window.
8. Move the mode switch on the rotor to the Setup (Hotspot) mode position (marked) (Picture 13).



**WARNING! The Device must be always switched off and the rays stopped before you change the mode (move the mode switches).**

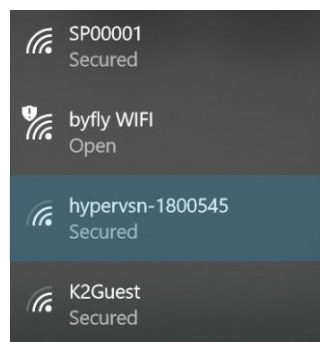
9. Turn the Device on again.
10. The Device will start to display the "HYPERVSN" message. After a few seconds the "BEGIN BY UPLOADING YOUR 3D MEDIA" and "PLEASE ACTIVATE THE DEVICE" messages will start to alternate on the Device.





Picture 25. Messages that you should see before activation

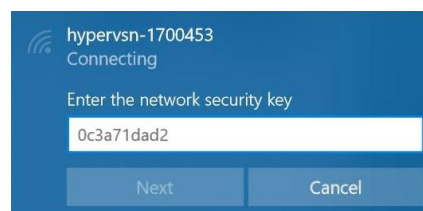
11. Navigate to the Wi-Fi settings on your laptop or any other device. The Wi-Fi network “hypervsn-YYYYYYY” will appear in 1-2 minutes in the list of available networks.



Picture 26. Example of a list of available networks

12. Connect to the “hypervsn-YYYYYYY” Wi-Fi network (YYYYYYY is a 7-digit serial number located on the base of the rotor): use the following password: **0c3a71dad2**.

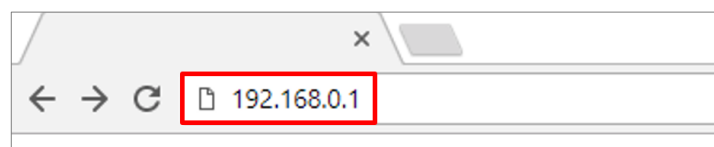
*Note.* The first digit in the password is a **zero**.



Picture 27. Entering the password

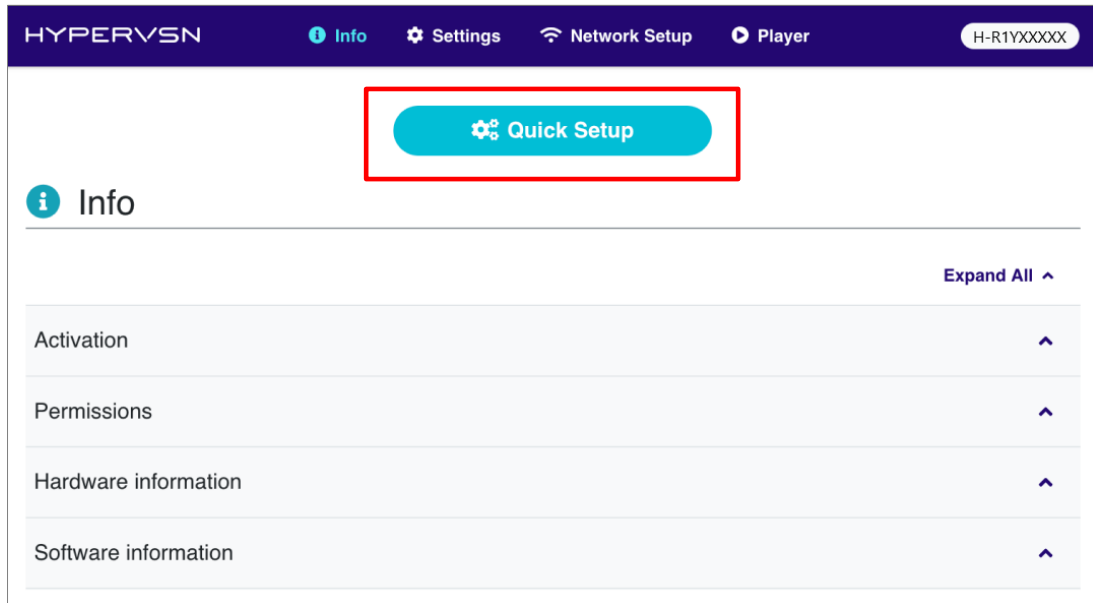
*Note.* Depending on the operating system, a message with a requirement to enter a code may appear at this step, ignore it and choose the command to enter the password.

13. Open a browser. Type in **192.168.0.1** in the browser address bar.



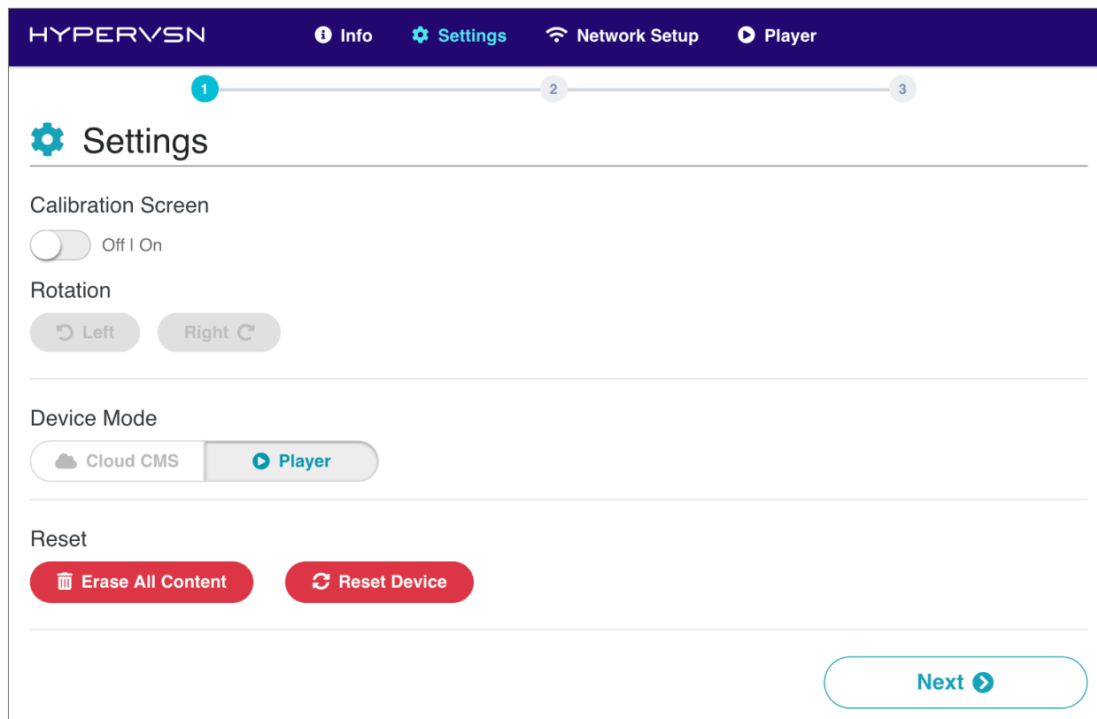
Picture 28. Input this IP-address into the browser address bar

The following page will open:



Picture 29. "Info" page, Quick Setup button

14. Click **Quick Setup** (Picture 29). The form for the Device calibration will be displayed on the open page:



Picture 30. Form for the Device calibration

If you have already mounted the Device on a wall, the calibration procedure may be performed at this step. Otherwise it should be performed later, after completing the initial activation procedure.

### Calibration (image horizontal orientation adjustment)

- a) Move the “Calibration Screen” switch to the “**On**” position (Picture 30). The Device will start to display an image containing the rotor serial number:



Picture 31. Image with the rotor serial number

The displaying rotor serial number should be parallel to the ground.

- b) To adjust the image horizontal orientation, click **Right** to rotate the image clockwise, and **Left** to rotate the image counter-clockwise.
- c) Move the “Calibration screen” switch to the “**Off**” position.

15. Click **Next**. The following page will open:

Picture 32. Step of the activation procedure

Enter the required information for the Wi-Fi network that you plan to use with the Device. Click **Save Network**.

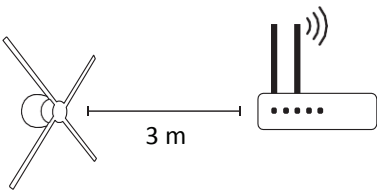
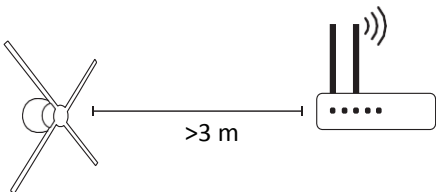
Any number of networks may be used.

16. Click **Next**. The following page will open:

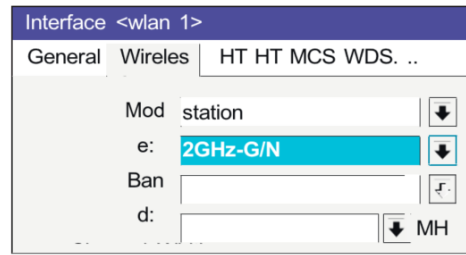
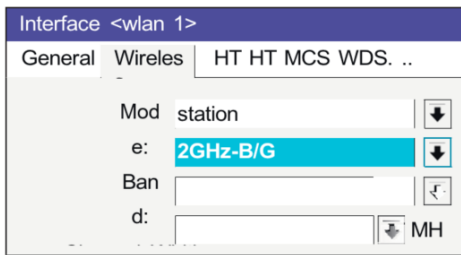
Picture 33. Step of the activation procedure

17. Fill in the email field. It is important to use the same email address that you originally used during the Device registration.

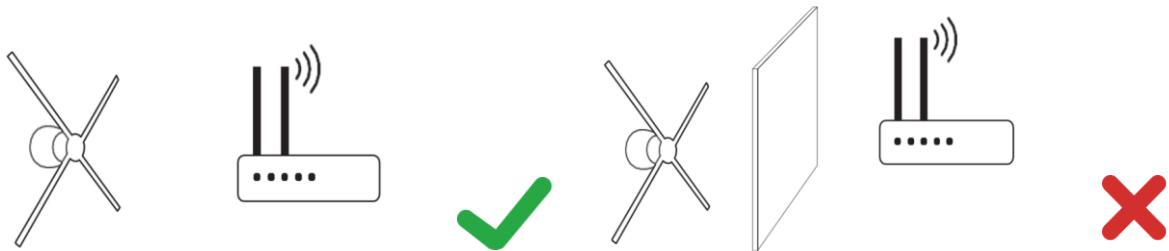
Table 6. Wi-Fi network requirements

CORRECT		INCORRECT	
1.	Device operation requires a direct Internet connection without any additional login screens.		
		<div>Login: <input type="text" value="example"/></div> <div>Password: <input type="password" value="****"/></div> <div>✓</div>	<div>Login: <input type="text" value="example"/></div> <div>Password: <input type="password" value="*****"/></div> <div>Any additional field: <input type="text" value="*"/></div> <div>Any additional field: <input type="text" value="3213215"/></div> <div>✗</div>
2.	Distance to the router: up to 3m.		
		<div></div> <div>✓</div>	<div></div> <div>✗</div>
3.	Wi-Fi frequency: 2.4GHz.		
		<div>2.4 GHz</div> <div>✓</div>	<div>5.0 GHz</div> <div>✗</div>

4. Router network mode: B/G.



5. General recommendations: choose a less congested Wi-Fi channel, avoid physical barriers between the router and the Device.



The Device operation assumes the use of a personal router. It is recommended to use 3G/4G routers, where possible.

*Note.* If you are experiencing problems with your home or office Wi-Fi network, try to share the Internet connection from your mobile phone by creating a Hotspot. Please note that your service provider may charge a fee for using the Hotspot.

18. Click **Activate** (Picture 33) and look at the Device. The Device will start the booting animation.



Picture 34. Booting animation on the Device

19. If everything is completed properly, the “SUCCESS” message will be displayed on the Device for some seconds.



Picture 35. “Success” message

If the following message (Picture 36) is displayed on the Device, check your credentials, including email and SSID you have entered at step 15.



Picture 36. Activation error message

If Wi-Fi network is not available, the following message will be displayed on the Device.



Picture 37. “No internet” message

If there is no connection with the CMS, the following message will be displayed.



Picture 38. Activation error message

Click **Activate** once again. If the message is still on the Device display, contact Tech Support team at [support@hypervsn.com](mailto:support@hypervsn.com).

Contact the Technical Support team, if the following message is displayed.



Picture 39. Activation error message

20. When the activation is completed, switch the Device off.



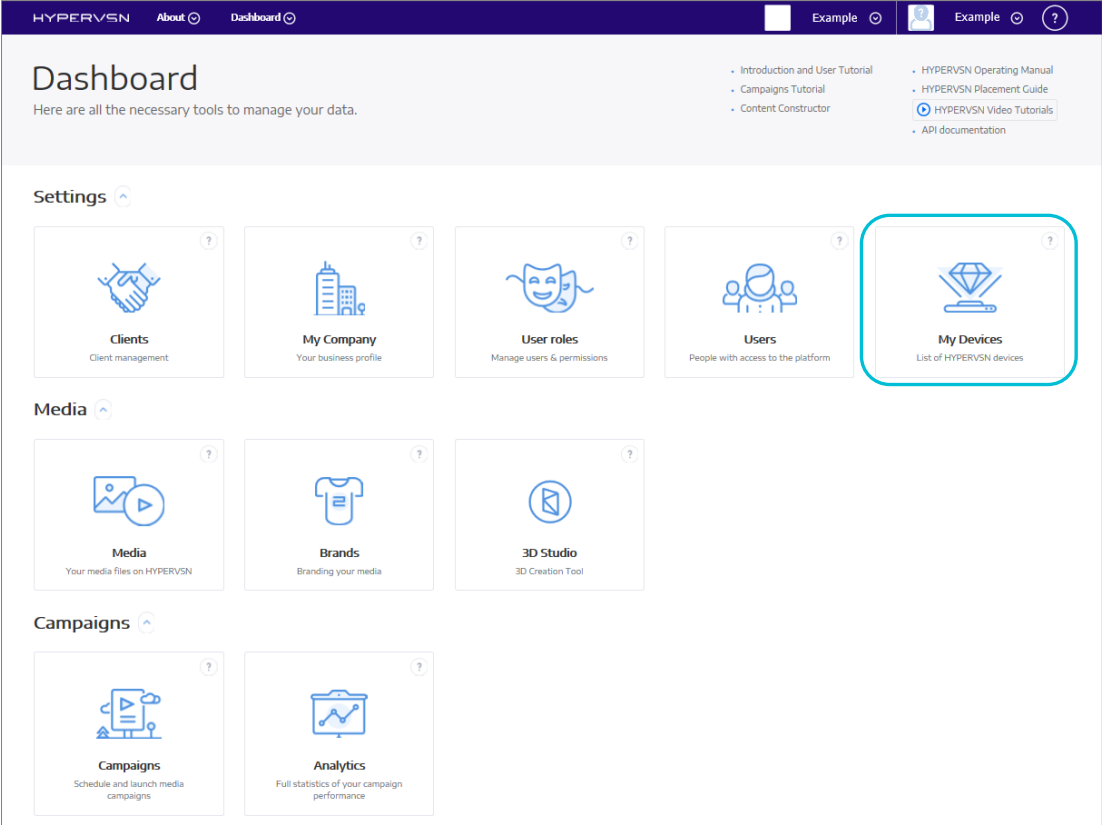
**WARNING! After using the Device, the stator and rotor can become hot to touch. Please wait until the temperature drops before proceeding with the next step.**

21. Move the mode switch on the rotor to the Operating mode (Picture 13).
22. Switch the Device on.

The “HYPERVSN” message will appear (Picture 25) for several seconds. Then the starting animated message will appear and will be displayed constantly (Picture 15).

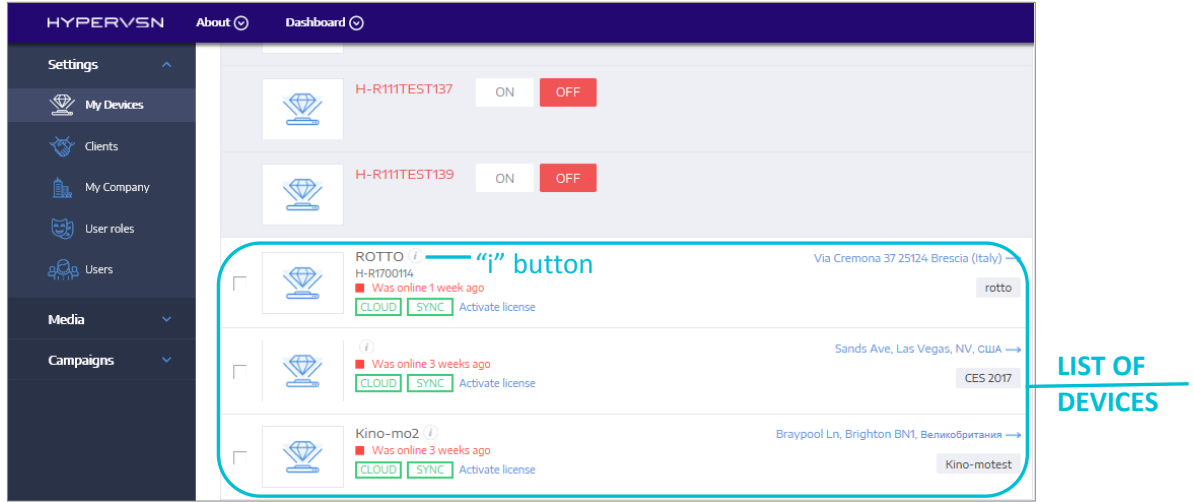
If the Device is successfully connected to an Internet-enabled Wi-Fi network (set up at step 15), it is ready to be used and displays in your personal account at <https://hypervsn.com/platform/devices>.

23. Click **My Devices**.



Picture 40. “My Devices” button

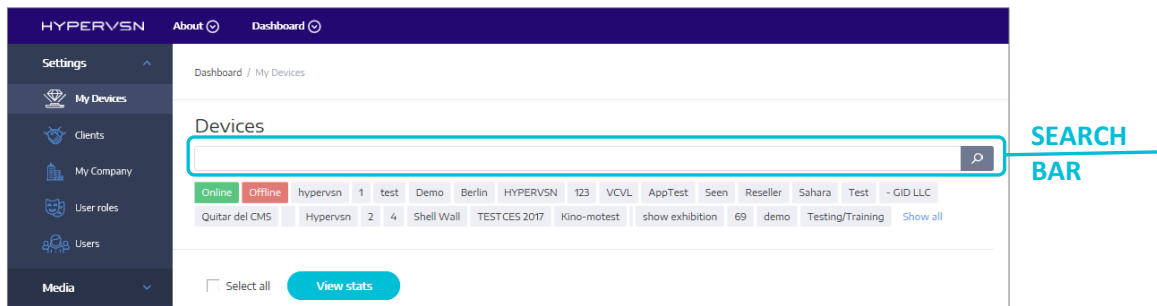
You will see the Device that you have just activated, along with the list of your Devices activated previously (if any).




Picture 41. “My Devices” tab




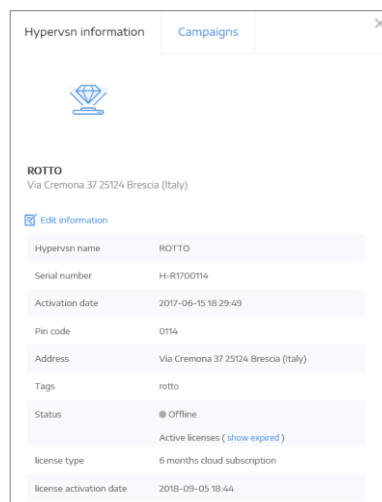
You can also enter the Device serial number in the search bar to see the required Device in this list.



Picture 42. Search bar

You can always check your license status by clicking on the  button near the Device name (Picture 41).

24. Click on the  button of the activated Device. The following window will open:



Picture 43. Editing Device info

25. Check the data in the following fields of the open window to help you recognize your Device during the future sessions:

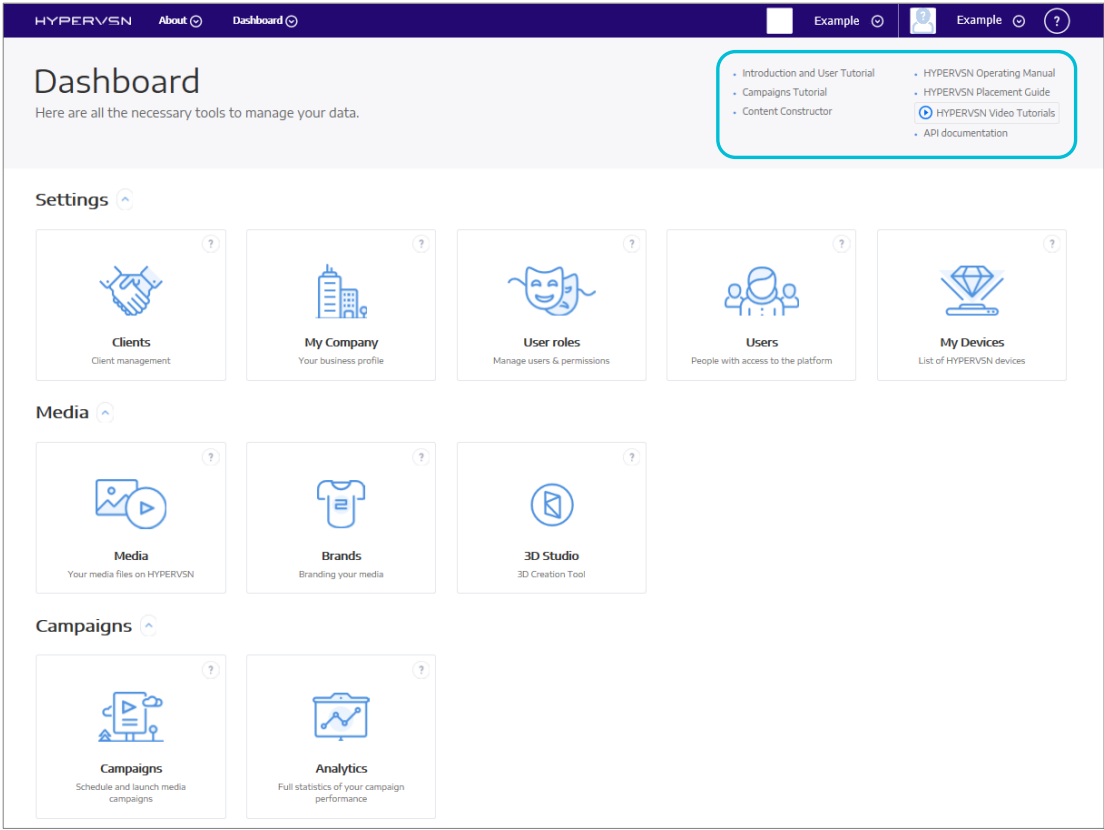
- “HYPERVSN name”
- “Address”
- “Tags”

You need to enter the correct display address so that the Device is located correctly.

If the data is incorrect, choose **Edit information** in the open window (Picture 43), edit the data, click **Save**.

After all these steps you will be able to create a media campaign and upload the content.

Go to the Dashboard and select the suitable guides to receive detailed instructions on how to manage the Device and the CMS.



Picture 44. HYPERVSN tutorials

## 9. TECHNICAL MAINTENANCE



**WARNING! For technical maintenance unplug the power cord from the power mains and make sure the rotating rays have fully stopped.**

The Device needs to undergo technical maintenance at least once a month with the following actions required:

- a) Visual check of the power cord. The power cord should not have any damage like cracks or dents compromising its base. If there are any faults of this nature, stop using the Device immediately until the faults have been fixed or the Device has been replaced.
- b) Clean any dust off of the Device.

**Important. When cleaning the Device, do not use a moist rag.**

**Important. When cleaning the rays, use a very soft bristle brush.**

## 10. SAFETY PROVISIONS



**WARNING! The Device must be installed so that the lower edge of the rays is at least 2.9m off the floor. Exceptions are allowed in case there is a natural barrier or similar preventing the public from approaching the Device any closer than 2m.**

The additional safety requirements that have not yet been mentioned above are outlined below:

- The Device belongs to class 1 in regard to protection against electrical injuries. Operating the Device without the proper grounding is strictly prohibited.
- To avoid injuries of an electrical nature, never turn the Device on while the stator safety cover is removed.
- The power voltage where being operated must match the information on the Device type label.
- Under NO circumstances touch the Device while the rays are rotating. The rays on the rotor become effectively invisible, which might pose a danger and cause injury.
- Since the HYPERVSN Display relates to TYPE A pluggable equipment it is necessary to have an easy-to-reach socket nearby.
- After using the Device, the stator and rotor elements can become hot to touch. Please wait until the temperature drops before touching or handling the Device components.
- Do not throw any objects towards the Device.
- Do not use the Device if the power cord is damaged. Make sure the cord is not in contact with any sharp edges or hot surfaces.
- Do not pull on the power cord or wind it around any part of the Device.
- If the Device produces any abnormal sounds during operation, please stop using the Device immediately and contact the vendor.
- Do not let children play with the Device and do not leave them unattended in close proximity to an operating Device. This is not a toy. Small parts may present a choking hazard for children.
- Do not disassemble the remote control. If the remote control operation guidelines are not followed, the batteries could pose danger.
- When the Device is in operation, keep the Device power cord as far away from the rotating elements (the rotor and the rays) as possible. You can also use wiring duct that matches the color of the mounting surface.

The Device requires an attention-label nearby. Please download the label from the following page:

**[https://hypervsn.com/downloads/WARNING\\_Sticker\\_device.pdf](https://hypervsn.com/downloads/WARNING_Sticker_device.pdf)**


Attach the warning label in a close proximity to the Device.

We recommend to display the sticker above the mounted Device. The manufacturer shall not be held liable for any injuries or malfunction of the Device if the published safety and operational guidelines are not strictly adhered to.

The user shall bare full responsibility for ensuring that the Device is utilized in a safe manner and complies with all specified safety measures as well as local laws and requirements.

## 11. DISPOSAL

The Device packaging is environmentally friendly and reusable. All plastic parts contain special labels, e.g. >PE< for polyethylene, >PS< for polystyrene.

The  Sign on the Device or its package means that the Device cannot be disposed of as domestic waste. Instead, please transfer it to an electric equipment recycling center for proper disposal.

By adhering to disposal regulations, one can prevent causing potential damage to the environment resulting from mishandling this type of waste disposal.

## 12. WARRANTY AND MAINTENANCE

### 12.1 WARRANTY

The Device warranty is for 12 months or as required by local law. The Device's average operational lifespan is 5 years, depending on maintenance, use environment, operational hours among other factors.

If any of the guarantee labels on the rotor /stator are broken or removed, the Device warranty is considered null and void.

### 12.2 MAINTENANCE

If the Device needs to be repaired or if spare parts need to be purchased, please contact your vendor.

### 12.3 SPECIAL REQUIREMENTS

The Device complies with ISSED's license-exempt RSSs. The Device operation is subject to the following conditions:

1. It may not cause harmful interference.
2. It may accept any interference, including interference that may cause undesired operation of the Device.

This Device complies with the FCC radiation exposure limits for an uncontrolled environment. This equipment shall be installed and operated with a minimum distance of 20cm between user and/or bystanders and this Device. This device must not be co-located or operating in conjunction with any other antenna or transmitter.

The Device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This Device may not cause harmful interference.
2. This Device must accept any interference received, including interference that may cause undesired operation.

**Note.** *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 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 instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his/her own expense.*

**Attention.** No changes shall be made to the Device without the manufacturer's permission as it may void the user's authority to operate the Device.

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