

# Welcome

---

MeshExpert Live! is a real-time Mixed-Reality (MR) filming and show product developed by DataMesh. It is intensively designed on top of HoloLens, so that mixed-reality could be perceived by more people. Leveraging on our solution, HoloLens users can see amazing MR images, while those who do not wear HoloLens can also experience MR scenes through ME Live! in real-time. Meanwhile, the gap among different devices of sharing the same MR experiences can be well bridged by incorporating the collaboration feature offered by ME Live!, where you could easily interact with mixed realities via all sorts of VR/AR glasses and even mobiles and tablets, which creates various possibilities for immersive mixed-reality experiences.

## Main Features

---

- **Real-time MR Show**

Our solution supports real-time casting of mixed-reality scenes. Through a set of equipment of paired HoloLens and ME-Live!, you can immediately cast MR scenes to any screen such that those who do not wear HoloLens can also enjoy the fantastic MR show.

- **4K MR Recording**

Besides real-time casting, you can record the show with ME-Live! for a resolution up to 4K.

- **Muti-Player & Multi-Device Collaboration**

Collaborations of teams across devices are made easy with ME-Live!. Using our management portal, you can distribute apps and scenes to a bunch of HoloLens, which would automatically set them to synchronize with one another through ME-Live! workstation. This, therefore, enables people to work at the very same scene, and seamlessly collaborate with each other, in situations like Training, Gaming, Design and Innovation, etc.. Meanwhile, the creative process can be captured and cast by ME-Live!, where everything is vividly alive!

- **Cross-platform Support**

ME-Live! is widely applicable as it offers a comprehensive cross-platform solution. No matter what devices you have: HoloLens, Surface, Pad, iPhone, Android Mobile, etc., you can have them connected to ME-Live! so that they can share the same scenes of mixed reality.

- **Content Storage & Distribution over Cloud**

Through the MeshExpert Cloud, your apps and creative contents can be easily managed, and distributed to multiple ME-Live! deployments across regions. Thus ideas and innovations in your enterprise can flow fluently across offices and departments.

- **Multi-language Voice Interaction**

ME-Live! adds multi-language voice recognition to HoloLens apps. You can customize your own voice commands to enable a more powerful and friendly human-machine interactions.

- **Social Networking and Sharing**

By connecting to our social cloud services, you can share your photos and videos of the captured mixed-reality shows to a wide range of social networks such as Facebook, Twitter, Wechat, Weibo, etc., either to promote your brand or to amaze your friends.

- **Developer Support**

With the aid of the free opensource METoolkit and SDKs, anyone who wants to create his/her apps can easily make it work and enjoy the powerful features of ME-Live!. All developers can access our technical guidance materials, seek help from our forums, and gain our technical support.

## Quick Installation

---

### Install the RIG

It's recommended to use RIG kit offered by DataMesh to gain access to the best experience and convenience. The suite can be easily disassembled and assembled, but it's required that we should fix the complete set of device firmly so as to reduce unstable factors , such as shake, when we use it.

RIG kit offered by DataMesh has been equipped with all necessary software in advance.

The assembly process of RIG kit is demonstrated in the "Rig Assembly Diagram" and steps are as follows:



*Rig Assembly Diagram*

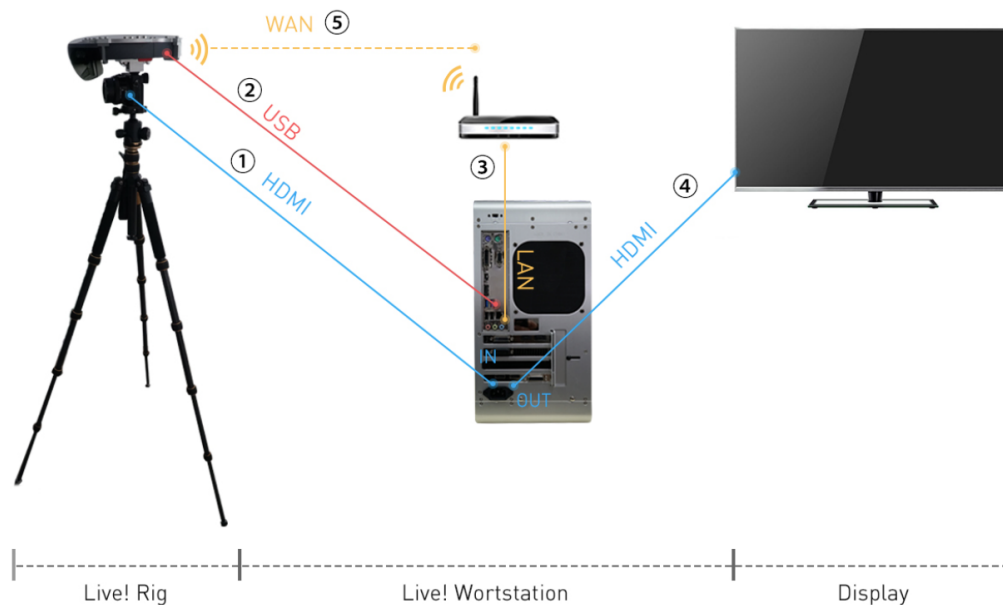
1. Fix HoloLens on the dedicated fixed mount.
2. Install fixed module of hot shoe of HoloLens's fixed mount on the bottom of the fixed mount.
3. Place tripod and fix digital camera on the head of tripod.
4. Fix hot shoe connector on the hot shoe interface of the camera.
5. Connect fixed module of hot shoe of HoloLens's fixed mount to the connector and screw it up.

## **Install the Workstation**

It's recommended to use the work station device offered by DataMesh to gain access to the best experience.

The work station device offered by DataMesh has been equipped with all necessary software in advance.

Steps of access to work station are as follows(see in Picture "ME Live! Workstation Connection Diagram"):



*Workstation Connection Diagram*

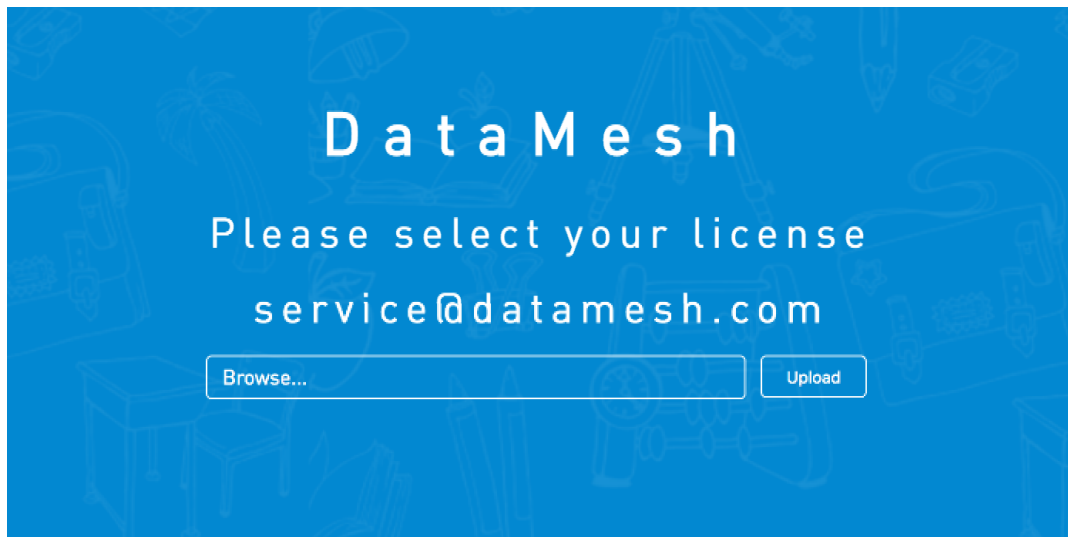
1. Connect output interface of HDMI of the camera to input interface of HDMI of work station's video card by using the HDMI connecting wire.(Micro HDMI - HDMI).
2. Connect Micro USB interface of HoloLens to USB3.0 interface of work station(optional for the convenience of USB debugging and charging) by using USB cable (Micro USB - USB) .
3. Connect Lan interface of work station to that of Router by using cable.
4. Connect output interface of HDMI of work station's video card to screen on which pictures are required to be displayed by using HDMI connecting wire. (HDMI - HDMI)
5. Add Router's Wi-Fi to HoloLens network settings.

## Add License

You need to add a license to activate full corresponding functionalities of ME-Live! before use.

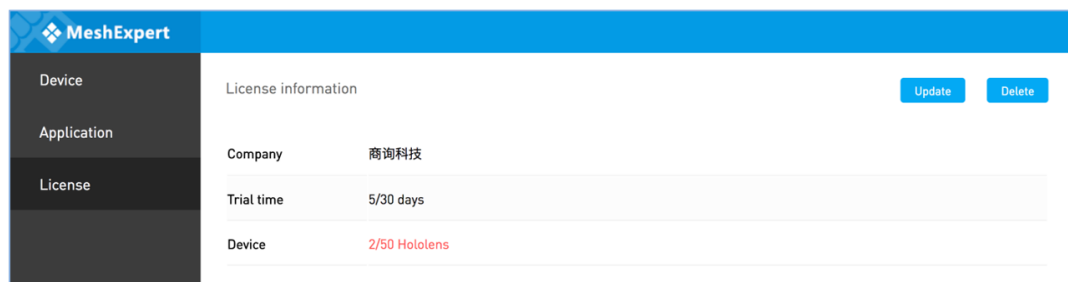
Open the browser on the ME-Live! workstation (Edge and Chrome are preferable) to visit <http://localhost/admin> . Note that you need to install MeshExpert supporting software, the **MeshExpert Suite**, before adding a license if the workstation is assembled by yourself. As for installation of MeshExpert Suite, please refer to [User Guide](#) for ME Live!

Once you opened <http://localhost/admin> , you can upload your license file via the "Adding License" page as shown below. If you haven't obtain a license yet, please contact [service@datamesh.com](mailto:service@datamesh.com) for a trial or commercial license.



*Adding License*

Upon finished, you will see your license information in the "**License**" tab as demonstrated below, which reveals the detailed information about your licensing.



*License Information*

## Experience Mixed-Reality

---

Now everything is ready, you can begin enjoy the amazing mixed-reality shows with ME-Live!

Start the built-in app **Solar System Explorer**, and you shall see the whole solar system in front of your naked eyes, which is so vividly that you can almost touch it with your fingers.



Use your finger to tap a planet to zoom in, and you can observe it with great details.



Moreover, you can interact with virtual planets with simple gestures: rotate planets with horizontal drag and zoom planets in and out with vertical drag.



NOTE: ME-Live! makes it easy to install, manage, start and stop apps on HoloLens. For detailed instructions, please refer to [App Management](#) in User Guide.