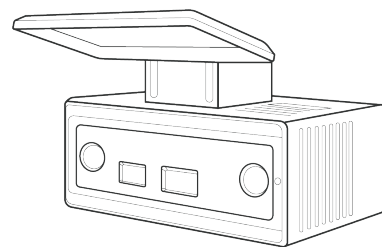




## 1 Product Introduction

ViEye intelligent welding dedicated camera is an active binocular stereo vision 3D camera designed for intelligent welding applications. It can quickly generate point cloud data models, depth maps, grayscale images, and other result data information. It is also adaptable to various complex environments, supporting high-precision modeling even in scenarios such as strong light, reflections, and black objects with light absorption. As a visual input for welding systems, it can work with software to achieve functions such as workpiece scanning, weld seam extraction, weld seam planning, and weld seam tracking, integrating both dynamic and static functions.

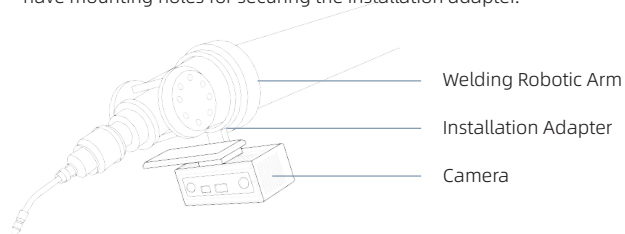


## 2 Bill of Materials

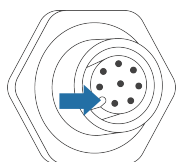
- Camera × 1
- Power Cable and Adapter × 1
- Gigabit Ethernet Cable × 1

## 3 Hardware Installation

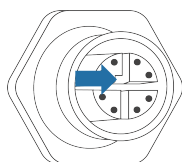
1. Use the installation adapter to mount the camera onto the robotic arm, as shown in the diagram below. The bottom and back of the camera have mounting holes for securing the installation adapter.



2. Install the power cable and network cable, ensuring the connectors align with the notches on the sockets, as shown in the image below. Do not use excessive force when plugging or unplugging cables to avoid damaging the pins.



Power Cable Interface



Ethernet Cable Interface

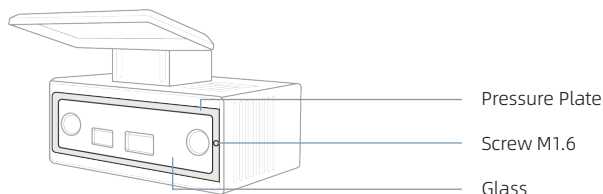
3. (Optional) Connect external signals to the camera's trigger cable to enable "level enable" control. For more information, please refer to the *Camera User Guide*.

- Purple Cable (Trigger \_ Input Signal 2)
- Blue Cable (Trigger Input \_ Signal 2 - Ground)

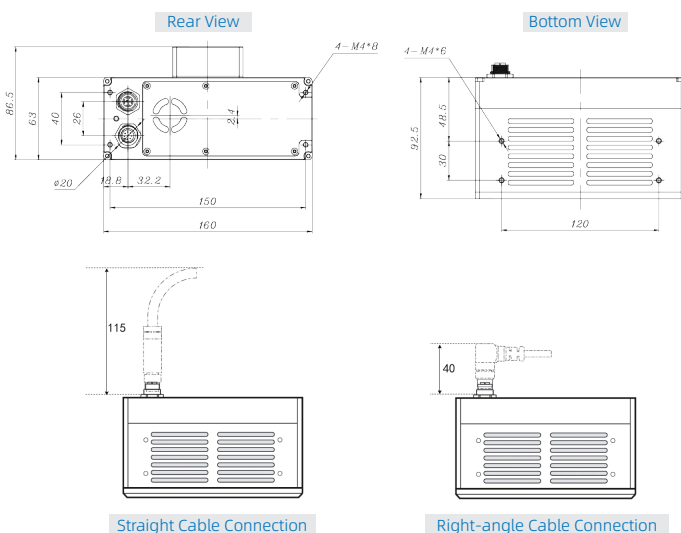
## 4 Replace the Protective Cover (Optional)

If you need to clean or replace the camera's protective cover, follow these steps:

1. Use a screwdriver to unscrew the right screw of the camera pressure plate. Slide the plate horizontally rightward until it disengages from the slot, then remove it.
2. Take out the old glass, clean it or replace it with a new one.
3. Slide the plate horizontally leftward to fit into the slot properly, then tighten the right fixing screw with the screwdriver.



## 5 Dimensions and Mounting Hole Locations



## 6 Precautions

**Caution** This device is a high-precision equipment. Please read and follow the requirements below:

Category	Item	Requirements
Camera Mounting Plate	Material	Aluminum Alloy 6061-T6.
	Thickness	10mm or greater. (Note: If the onsite environment is harsh with high vibration or long mounting plate cantilevers, reinforcement ribs must be added to the back of the plate.)
	Surface Flatness	≤0.1mm.
	Installation	The bottom surface of the camera must be fully flush with the mounting plate after installation, ensuring no warping or deformation.
Power	Power Input	• Camera power input: 24V ± 4V, current ≥ 2A, complies with grounding regulations. • 220V AC must meet national standards.
	Power On	When installing the power cable, first connect the device side, then connect the power supply side.
	Power Off	When installing or removing the device, the power supply must be disconnected first.
Equipment	Stability	Ensure that the device is securely installed and the cables are not loose. Make sure the device does not shake during operation to avoid affecting accuracy.
	Structure	Please handle the device with care to avoid strong impacts or vibrations.
	Electromagnetic	Never place the device near strong magnetic objects. Ensure proper electrostatic protection and keep the device away from electromagnetic radiation.
	Cleaning	Please continuously keep the device's glass window clean.
	Completeness	Never disassemble the device without authorization, and ensure that all accessories are complete.
Personal Safety	Safety	Handle with care during installation to avoid scratches, impacts, or dropping.
	Protection	Never look directly at the laser, and avoid laser exposure to the skin.

### Note

- Due to product upgrades or other reasons, the content of this document may be updated periodically. Unless otherwise agreed, all content in this document does not constitute any express or implied warranty.
- For more information about the product, please visit the company's website.

