

OMRON

Model FZD-CBS

3D Camera Base Plate for Model FZD
Visual Inspection System

INSTRUCTION SHEET

Thank you for selecting OMRON product. This sheet primarily describes precautions required in installing and operating the product.

Before operating the product, read the sheet thoroughly to acquire sufficient knowledge of the product. For your convenience, keep the sheet at your disposal.

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PRECAUTIONS ON SAFETY

● Meaning of Signal Words

⚠ WARNING

Indicates a potentially hazardous situation which, if not avoided, will result in minor or moderate injury, or may result in serious injury or death. Additionally there may be significant property damage.

⚠ CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or in property damage.

● Alert Statements

⚠ WARNING

This product is not designed or rated for ensuring safety of persons. Do not use it for such purposes.

⚠ CAUTION

Read the instruction sheet thoroughly and install the base plate correctly. Improper installation may cause the base plate to fall, resulting in personal injury or damage to equipment.

PRECAUTIONS FOR SAFE USE

Be sure to respect following items for safety.

1. Installation Site

Do not install the product in locations subjected to the following conditions

- Ambient temperature outside the rating
- Rapid temperature fluctuations (causing condensation)
- Relative humidity outside the range of 35 to 85%RH
- Presence of corrosive or flammable gases
- Presence of dust, salt, or metallic particles
- Direct vibration or shock
- Reflection of intense light (such as other laser beams or electric arc-welding machines)
- Direct sunlight or near heaters
- Water, oil, or chemical fumes or spray
- Strong magnetic or electric field
- Near high-voltage equipment or power equipment

2. Handling the FZD-CBS

- Make sure to tighten all installation screws.
- Please follow the proper procedures when you install a camera in the model FZD-CBS.
- If you drop or break the body, please consult our any branch offices.

3. Other

- Do not use this product for anything but measuring platform of 3D camera.
- Do not install any other cameras except the dedicated one.
- Dispose of FZD-CBS components as industrial waste.

PRECAUTIONS FOR CORRECT USE

Please observe the following precautions to prevent failure to operate, malfunction, or undesirable effect.

- Please use the screws provided in kit.
- Do not use thinner, benzene, acetone, or kerosene to clean the model FZD-CBS.

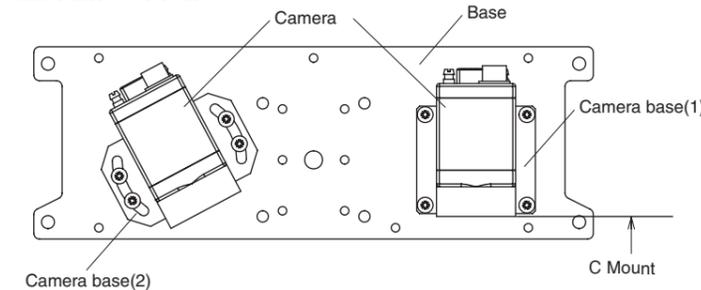
Specifications

Item	Model	FZD-CBS
Dimensions		198×68×3 mm(Base)
		42×38×3.5 mm(Camera base(1))
		52×32×3.5 mm(Camera base(2))
Base length for camera		105mm
Setting distance		300mm
Storage temperature / humidity		-25 to 65°C / 35 to 80%RH(with no condensation)
Material		Aluminum alloy
Weight		Base:Approx.200g (1):Approx.15g (2):Approx.15g

Character

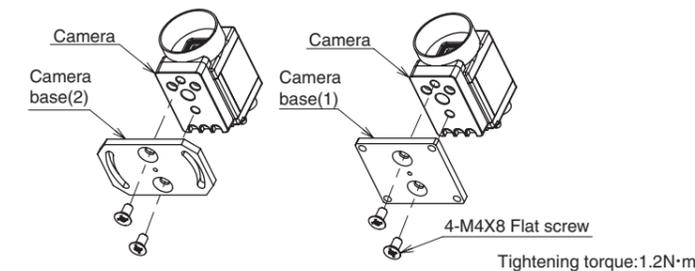
This product used as a 3D vision camera for FZD controller with two special cameras.

Name of Part

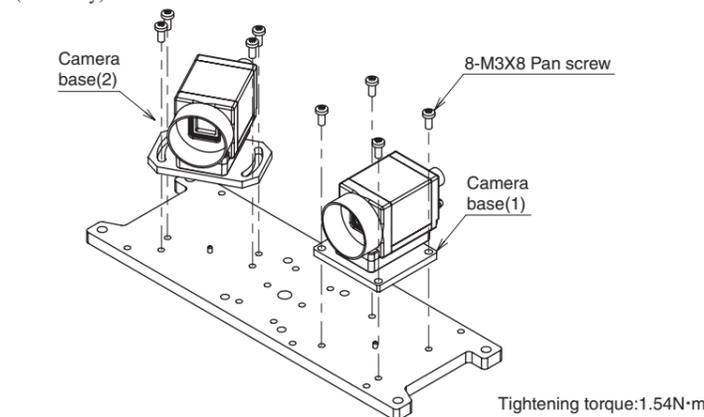


Mounting of Camera

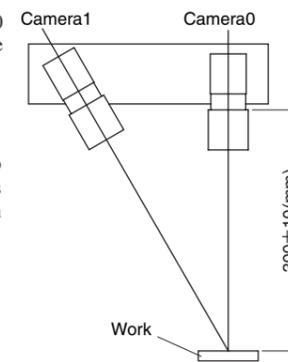
① Put two cameras on the own camera bases with flat screws M4X8 (accessory).



② Set up the camera bases on the each predefined position with pan screws M3X8 (accessory).



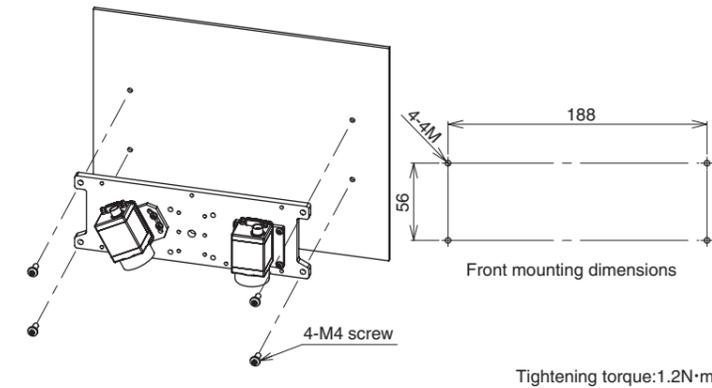
③ Keep the camera setting distance within 300 ±10mm from C mount area of camera 0 to the measurement object.



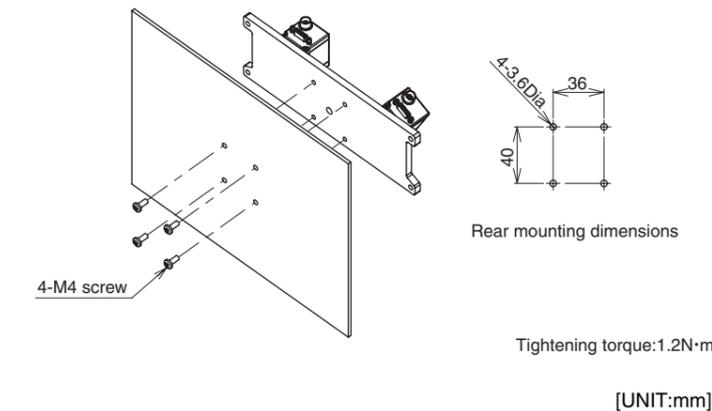
④ Adjust the angle of the camera 1 so as to conform the center position of the two camera's image to that of the target of 3D calibration tool model FZD-CAL(sell separately).

Setting

● Front Mounting



● Rear Mounting



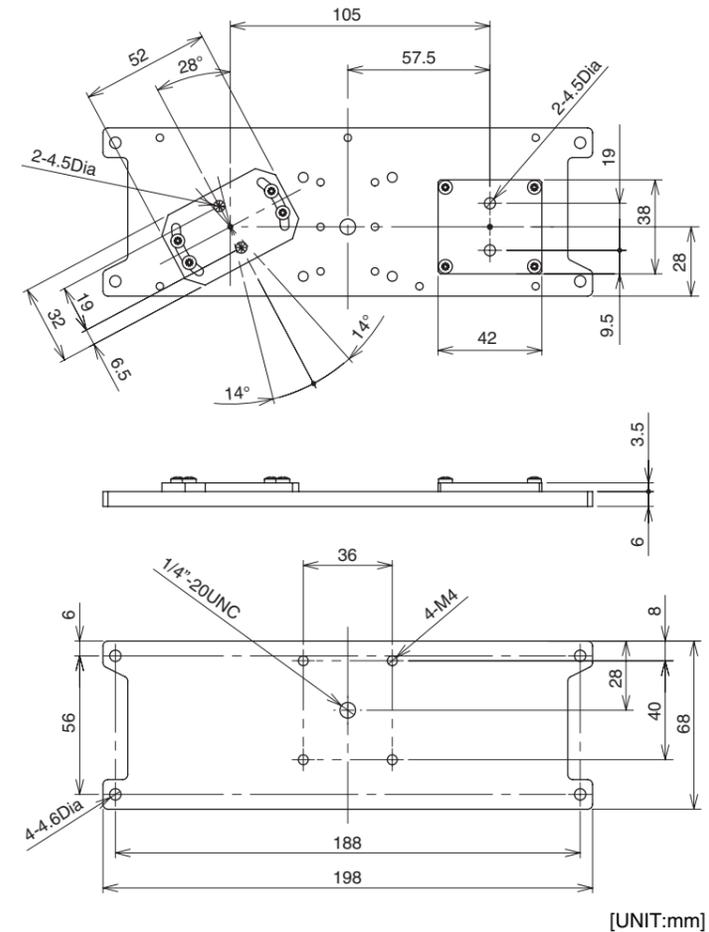
Compliant Camera

Model	Specification
FZ-S	0.3 mega pixel digital monochrome camera
FZ-SC	0.3 mega pixel digital color camera
FZ-S2M	2 mega pixel digital monochrome camera
FZ-SC2M	2 mega pixel digital color camera

Accessories

- Base ··· 1
- Camera base(1) ··· 1
- Camera base(2) ··· 1
- Plate connect screw(M3X8 Pan head ··· 8pic / M4X8 Flat head ··· 4pic)
- Instruction sheet(this sheet) ··· 1

Dimensions



Suitability for Use

THE PRODUCTS CONTAINED IN THIS SHEET ARE NOT SAFETY RATED. THEY ARE NOT DESIGNED OR RATED FOR ENSURING SAFETY OF PERSONS, AND SHOULD NOT BE RELIED UPON AS A SAFETY COMPONENT OR PROTECTIVE DEVICE FOR SUCH PURPOSES. Please refer to separate catalogs for OMRON's safety rated products.

OMRON shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of the products in the customer's application or use of the product.

Take all necessary steps to determine the suitability of the product for the systems, machines, and equipment with which it will be used. Know and observe all prohibitions of use applicable to this product.

NEVER USE THE PRODUCTS FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

See also Product catalog for Warranty and Limitation of Liability.

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