WARNING
To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personal only.

IMPORTANT
This camera should be used only for its intended purpose and should be kept away from all static fields.

The camera is located in the bottom.

Power Supply
For customers in U.S.A. and Canada (SNC-ZM550/ZM551)
Use a power supply rated at 200-240 V AC, 50/60 Hz. Use a power supply other than the one specified may cause a fire or electric shock. Always match the power supply to the voltage of your local power system.

For customers in Europe, Australia, and New Zealand
The camera is for use with 230 V AC (50 Hz) rated power supplies. It is also intended for use with 12 V DC power supplies. If you are unsure of your local power system, please consult your Sony dealer.

For customers in the U.K.
The camera is approved for use in the U.K. only. (UK 1-B+1 N.O.S.)

For customers in China
The camera is approved for use in China.

All interface cables used in this equipment should comply with the relevant safety requirements of IEC 60950-1, IEC 60825-1 and the other national and local standards, and the device should not be used if any maintenance or modification is carried out on the camera.

WARNING
Use the supplied or optional 12 V DC power supply. Using any other power supply may result in fire or electric shock.

For customers in the U.S.A.
This camera is for use with the SNC-EM521 provided with a power plug and receptacle. (SNC-EM521)

For the customers in Europe
The customers in Europe (SNC-DH120/DH220/DH120T/DH220T)

For the customers in Australia
The customer in Australia (SNC-DH120/DH220/DH120T/DH220T)

For the customers in New Zealand
The customer in New Zealand (SNC-DH120/DH220/DH120T/DH220T)

For the customers in China
This camera is for use with 220 V AC (50 Hz) rated power supplies. It is also intended for use with 12 V DC power supplies. If you are unsure of your local power system, please consult your Sony dealer.

For the customers in Canada
This camera is for use with 230 V AC (50 Hz) rated power supplies. It is also intended for use with 12 V DC power supplies. If you are unsure of your local power system, please consult your Sony dealer.

For the customers in the U.K.
This camera is for use with 230 V AC (50 Hz) rated power supplies. It is also intended for use with 12 V DC power supplies. If you are unsure of your local power system, please consult your Sony dealer.

For the customers in Europe, Australia, and New Zealand
This camera is for use with 230 V AC (50 Hz) rated power supplies. It is also intended for use with 12 V DC power supplies. If you are unsure of your local power system, please consult your Sony dealer.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Adjust or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

For the customers in Canada
This Class B digital apparatus complies with Canadian ICES-003.

For the customers in the U.K.
This camera is for use with 230 V AC (50 Hz) rated power supplies. It is also intended for use with 12 V DC power supplies. If you are unsure of your local power system, please consult your Sony dealer.

For the customers in Australia
This camera is for use with 230 V AC (50 Hz) rated power supplies. It is also intended for use with 12 V DC power supplies. If you are unsure of your local power system, please consult your Sony dealer.

For the customers in New Zealand
This camera is for use with 230 V AC (50 Hz) rated power supplies. It is also intended for use with 12 V DC power supplies. If you are unsure of your local power system, please consult your Sony dealer.

WARNING
This camera is neither designed nor intended to be used or to be capable of being used by authorizing personnel. In other words, the user is not an authorizing personnel. The camera is intended only for use by users who are not authorized to access or control the camera.

ATTENTION Please avoid any damage that may occur during maintenance or handling. This may result in fire, electric shock, or equipment failure. If you experience any problems with your camera, please contact your nearest Sony dealer.

The camera is equipped with a Lens that is detached from it in order to comply with the worldwide safety regulations. Do not attempt to remove any other parts of the camera.

The camera is for use with 230 V AC (50 Hz) rated power supplies. It is also intended for use with 12 V DC power supplies. If you are unsure of your local power system, please consult your Sony dealer.

For the customers in Canada
This Class B digital apparatus complies with Canadian ICES-003.

For the customers in the U.K.
This camera is for use with 230 V AC (50 Hz) rated power supplies. It is also intended for use with 12 V DC power supplies. If you are unsure of your local power system, please consult your Sony dealer.

WARNING
Do not modify the camera. Also, do not remove the lens attached to the camera to use it as a single-lens reflex or similar device.

ATTENTION Please avoid any damage that may occur during maintenance or handling. This may result in fire, electric shock, or equipment failure. If you experience any problems with your camera, please contact your nearest Sony dealer.

The camera is equipped with a Lens that is detached from it in order to comply with the worldwide safety regulations. Do not attempt to remove any other parts of the camera.

The camera is for use with 230 V AC (50 Hz) rated power supplies. It is also intended for use with 12 V DC power supplies. If you are unsure of your local power system, please consult your Sony dealer.
### Preparations

**Connecting the Cables to the Camera**
- Before installation, connect the supplied cables to the camera as required for your camera model. Refer to the instruction manual of the connecting SLOC or network cable device.

**Connecting to 12 V DC or 24 V AC source**
- When connecting the network connection device, set to a SLOC+ or network cable device (not supplied) and connect to the LAN port of the network connection device.
- When connecting to a computer, use a network cable (not supplied) and connect to this unit's LAN port to connect to the network connection device.

### Installation

**Mounting screws**
- The supplied bracket is provided with 8 mm (0.31") mounting holes. Install the bracket to a ceiling or wall surface through these holes. When installing screws, consult with an expert to ensure the structure of the ceiling or wall is strong enough to support the weight of the camera.

**Guide**
- By using the Flexi Cover (SNC-FVC100), you can change the location of the camera as needed. For details, refer to the instruction manual of the connecting SLOC or network cable device.

**Connecting the I/O Cable**
- Connect the camera's I/O cable to the external device's interface.

### Wiring Diagrams

#### Wiring diagram for sensor input

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**Mechanical switch (open collector output device)**

- Connect the mechanical switch to the open collector output device.

**Wiring diagram for alarm output**

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### Specifications

#### Compression
- JPEG/MPEG4/H.264

#### Camera
- Image device: 1/3" CMOS
- Effective picture elements: 1280 × 1024
- Pixel pitch: 1.34 μm × 1.34 μm
- Minimum illumination: 0.01 lx (15IRE, F1.2, slow shutter)
- Minimum brightness: 0.01lx (15IRE, F1.2, slow shutter)

#### Lens
- Focal length: 3.1 mm to 8.9 mm
- F-number: f/1.4 to f/12.6
- View angle: Vertical: 65.2° to 24.2° Horizontal: 88.5° to 32.3°

#### Interface
- LAN (PoE): 10BASE-T/100BASE-TX, auto negotiation (RJ-45)
- Power input: DC 5 V (SNC-ZM550/ZM551), 12 V DC or 24 V AC
- Power consumption: 2.7 W (SNC-ZM550/ZM551), 7.5 W (SNC-EM520/EM521)
- Power consumption (Standby Mode): 0.5 W (SNC-ZM550/ZM551), 1 W (SNC-EM520/EM521)

#### Others
- Power: Input: 5 V DC (SNC-ZM550/ZM551), 12 V DC or 24 V AC
- Power consumption: 2.7 W (SNC-ZM550/ZM551), 7.5 W (SNC-EM520/EM521)
- Power consumption (Standby Mode): 0.5 W (SNC-ZM550/ZM551), 1 W (SNC-EM520/EM521)

### Connecting to the Network

**Secure the camera and hub connection**
- For details, refer to the instruction manual of the connecting SLOC or network cable device.

**Recommended cable**
- Use a network cable (crossover, not supplied) to connect this unit's LAN port to connect to the network connection device.

**Connecting to 24 V AC source**
- When the network connection device is not used, use a network cable (crossover, not supplied) and connect to this unit's LAN port to connect to the network connection device.

### Connecting the I/O Cable

**Wiring diagram for sensor input**

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**Wiring diagram for alarm output**

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### Connecting to the Network

**Secure the camera and hub connection**
- For details, refer to the instruction manual of the connecting SLOC or network cable device.

**Recommended cable**
- Use a network cable (crossover, not supplied) to connect this unit's LAN port to connect to the network connection device.

### Connecting to 24 V AC source

**When the network connection device is not used**
- Use a network cable (crossover, not supplied) and connect to this unit's LAN port to connect to the network connection device.