

# DHI-VTO4202F-X Series

## Modular Outdoor Station



### Technical Specification

|                               |                                                           |
|-------------------------------|-----------------------------------------------------------|
| Model                         | DHI-VTO4202F-P                                            |
| System                        |                                                           |
| Main Processor                | SoC processor                                             |
| Operating System              | Embedded Linux operation system                           |
| Network Protocol              | IPv4, RTSP, RTP, TCP, UDP, SIP, P2P                       |
| Basic                         |                                                           |
| Camera                        | CMOS Low illumination 2MP HD colorful 160° fisheye camera |
| Angle of View                 | H:160°, V:82°, D:180°                                     |
| Focal Length                  | 1.95 mm                                                   |
| WDR                           | WDR                                                       |
| Noise Reduction               | Noise suppression and echo cancellation                   |
| Video Encoding                | H.264                                                     |
| Frame Rate                    | PAL: 25 fps; NTSC: 30 fps                                 |
| Video Bit Rate                | 256K to 2M                                                |
| Light Compensation            | IR light                                                  |
| Day/Night Switch              | Yes                                                       |
| Audio Encoding                | PCM G.711 A G.711 U                                       |
| Audio Input                   | Built-in omnidirectional microphone                       |
| Audio Output                  | Built-in loudspeaker                                      |
| Audio Bit Rate                | 16 KHz 16bit                                              |
| Function                      |                                                           |
| Communication Methods         | Digital communication                                     |
| Unlock Mode                   | Remote unlocking                                          |
| Auto Snapshot                 | Yes                                                       |
| Leave Videos or Text Messages | Yes                                                       |
| Web Configuration             | Yes                                                       |

- Modules make the device with great expansibility
- Anodized front aluminum panel; IK07
- Supports voice and video communication
- 2MP high definition fisheye camera with 160° view range
- Access control function; controls two locks
- Compatible with 2-wire interface and RJ45 interface
- Surface mount and flush mount
- IP65 (Apply silica gel to gaps between the device and the wall. Liquid sodium silicate is recommended. For details, see the quick start guide)



### Performance

|                       |                                           |
|-----------------------|-------------------------------------------|
| Housing Material      | Aluminum                                  |
| Port                  |                                           |
| RS-485 Port           | 1 RS-485 half-duplex port                 |
| Alarm Output Port     | 1                                         |
| Power Output Port     | 1-ch DC 12V output 100mA                  |
| Unlock Button         | Exit button for opening the door          |
| Door Status Detection | Detects door magnetic status              |
| Door Lock Control     | NC/COM/NO                                 |
| Ethernet Port         | 10/100 Mbps self-adaptive Ethernet/2-wire |

### Alarm

|              |              |
|--------------|--------------|
| Tamper Alarm | Tamper alarm |
|--------------|--------------|

### Regular

|                     |                                                                                                                                                      |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ingress Protection  | IP65 (Apply silica gel to gaps between the device and the wall. Liquid sodium silicate is recommended. For details, see the quick start guide.)      |
| Appearance Color    | Silver                                                                                                                                               |
| Housing Material    | Aluminum                                                                                                                                             |
| Power Supply Mode   | DC 12V/2-Wire IP Interface/PoE                                                                                                                       |
| Installation Method | Surface mount and flush mount                                                                                                                        |
| Accessory           | Mounting box                                                                                                                                         |
| Dimensions          | 100 mm × 100 mm × 49.30 mm (3.94" × 3.94" × 1.94")                                                                                                   |
| Protection Grade    | IK07, IP65 (Apply silica gel to gaps between the device and the wall. Liquid sodium silicate is recommended. For details, see the quick start guide) |
| Working Temperature | -20 °C to +60 °C (-4 °F to +140 °F)                                                                                                                  |
| Working Humidity    | 10%-90% (RH)                                                                                                                                         |
| Power Consumption   | ≤ 12 W                                                                                                                                               |
| Net Weight          | 0.35 kg (0.77 lb)                                                                                                                                    |
| Gross Weight        | 0.4 kg (0.88 lb)                                                                                                                                     |

| Model | DHI-VTO4202F-MB1<br>DHI-VTO4202F-MB2 | DHI-VTO4202F-MB5 | DHI-VTO4202F-MF |
|-------|--------------------------------------|------------------|-----------------|
|-------|--------------------------------------|------------------|-----------------|

## System

|                |                        |
|----------------|------------------------|
| Main Processor | Embedded MCU processor |
|----------------|------------------------|

## Capacity

|             |   |      |
|-------------|---|------|
| Fingerprint | - | 3000 |
|-------------|---|------|

## Button

|             |                   |   |
|-------------|-------------------|---|
| Button Type | Mechanical button | - |
|-------------|-------------------|---|

## Port

|                   |                                         |
|-------------------|-----------------------------------------|
| Power Output Port | DC 5V (Provide power for other modules) |
|-------------------|-----------------------------------------|

## Regular

|                       |                                                                                                                                                       |                                                    |                                                       |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|
| Power Supply Mode     | DC 5V (Provided with power by other modules)                                                                                                          |                                                    |                                                       |
| Color                 | Silver                                                                                                                                                |                                                    |                                                       |
| Dimensions            | 100 mm × 49.90 mm × 30.50 mm<br>(3.94" × 1.96" × 1.20")                                                                                               | 100 mm × 100 mm × 31 mm<br>(3.94" × 3.94" × 1.22") | 100 mm × 100 mm × 38.50 mm<br>(3.94" × 3.94" × 1.52") |
| Protection Grade      | IK07; IP65 (Apply silica gel to gaps between the device and the wall. Liquid sodium silicate is recommended. For details, see the quick start guide.) |                                                    |                                                       |
| Operating Temperature | -20 °C to +60 °C (-4 °F to +140 °F)                                                                                                                   |                                                    |                                                       |
| Operating Humidity    | 10%–90% (RH)                                                                                                                                          |                                                    |                                                       |
| Power Consumption     | 1 W                                                                                                                                                   |                                                    |                                                       |
| Gross Weight          | 0.18 kg (0.40 lb)                                                                                                                                     | 0.31 kg (0.68 lb)                                  | 0.33 kg (0.73 lb)                                     |
| Appearance Color      | Silver                                                                                                                                                |                                                    |                                                       |

## System

|                |                        |
|----------------|------------------------|
| Main Processor | Embedded MCU processor |
|----------------|------------------------|

## Button

|             |                                      |   |
|-------------|--------------------------------------|---|
| Button Type | Metal backlight keyboard (0–9, *, #) | - |
|-------------|--------------------------------------|---|

## Indicator

|                  |   |   |
|------------------|---|---|
| Indicator Lights | - | 3 |
|------------------|---|---|

## Port

|                   |                                         |
|-------------------|-----------------------------------------|
| Power Output Port | DC 5V (Provide power for other modules) |
|-------------------|-----------------------------------------|

## Regular

|                       |                                                                                                                                                       |                                                        |  |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--|
| Power Supply Mode     | DC 5V (Provided with power by other modules)                                                                                                          |                                                        |  |
| Color                 | Silver                                                                                                                                                |                                                        |  |
| Dimensions            | 100 mm × 100 mm × 31 mm<br>(3.94" × 3.94" × 1.22")                                                                                                    | 100mm × 49.90 mm × 28.50 mm<br>(3.94" × 1.96" × 1.12") |  |
| Protection Grade      | IK07; IP65 (Apply silica gel to gaps between the device and the wall. Liquid sodium silicate is recommended. For details, see the quick start guide.) |                                                        |  |
| Operating Temperature | −20 °C to +60 °C (−4 °F to +140 °F )                                                                                                                  |                                                        |  |
| Operating Humidity    | 10%–90% (RH)                                                                                                                                          |                                                        |  |

|                   |                   |                   |
|-------------------|-------------------|-------------------|
| Power Consumption | 1 W               |                   |
| Gross Weight      | 0.32 kg (0.71 lb) | 0.19 kg (0.42 lb) |
| Model             | DHI-VTO4202F-MR   | DHI-VTO4202F-MS   |

## System

|                |                        |
|----------------|------------------------|
| Main Processor | Embedded MCU processor |
|----------------|------------------------|

## Capacity

|      |       |   |
|------|-------|---|
| Card | 10000 | - |
|------|-------|---|

## Display

|         |   |                      |
|---------|---|----------------------|
| Display | - | 3.0 inch STN display |
|---------|---|----------------------|

## Port

|                   |                                         |
|-------------------|-----------------------------------------|
| Power Output Port | DC 5V (Provide power for other modules) |
|-------------------|-----------------------------------------|

## Regular

|                       |                                                                                                                                                       |                                                       |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| Power Supply Mode     | DC 5V (Provided with power by other modules)                                                                                                          |                                                       |
| Color                 | Silver                                                                                                                                                |                                                       |
| Dimensions            | 100 mm × 49.90 mm × 28.50 mm<br>(3.94" × 1.96" × 1.12")                                                                                               | 100 mm × 100 mm × 28.50 mm<br>(3.94" × 3.94" × 1.12") |
| Protection Grade      | IK07; IP65 (Apply silica gel to gaps between the device and the wall. Liquid sodium silicate is recommended. For details, see the quick start guide.) |                                                       |
| Operating Temperature | -20 °C to +60 °C (-4 °F to +140 °F)                                                                                                                   |                                                       |
| Operating Humidity    | 10%–90% (RH)                                                                                                                                          |                                                       |
| Power Consumption     | 1 W                                                                                                                                                   |                                                       |
| Gross Weight          | 0.17 kg (0.37 lb)                                                                                                                                     |                                                       |

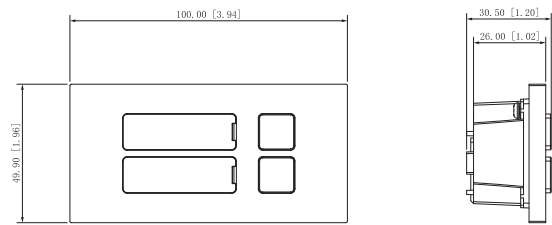
|       |                 |
|-------|-----------------|
| Model | DHI-VTO4202F-MN |
|-------|-----------------|

## Regular

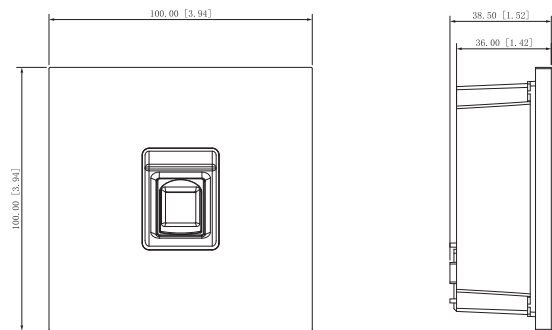
|                  |                                                                                                                                                       |                   |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Appearance color | Silver                                                                                                                                                |                   |
| Dimensions       | 100 mm × 49.90 mm × 28.50 mm (3.94" × 1.96" × 1.12")                                                                                                  |                   |
| Protection grade | IK07; IP65 (Apply silica gel to gaps between the device and the wall. Liquid sodium silicate is recommended. For details, see the quick start guide.) |                   |
| Gross Weight     | 0.16 kg (0.32 lb)                                                                                                                                     | 0.34 kg (0.75 lb) |

## Ordering Information

| Type        | Part Number      | Description                  |
|-------------|------------------|------------------------------|
| Modules     | DHI-VTO4202F-P   | Camera module                |
|             | DHI-VTO4202F-MB1 | One-button module            |
|             | DHI-VTO4202F-MB2 | Two-button module            |
|             | DHI-VTO4202F-MB5 | Five-button module           |
|             | DHI-VTO4202F-MS  | Display module               |
|             | DHI-VTO4202F-ML  | Indicator module             |
|             | DHI-VTO4202F-MK  | Keyboard module              |
|             | DHI-VTO4202F-MF  | Fingerprint module           |
|             | DHI-VTO4202F-MR  | Card swiping module          |
|             | DHI-VTO4202F-MN  | Blank Module                 |
| Accessories | VTM125           | Two-modular mounting plate   |
|             | VTM126           | Three-modular mounting plate |
|             | VTM127           | Two-modular mounting box     |
|             | VTM128           | Three-modular mounting box   |

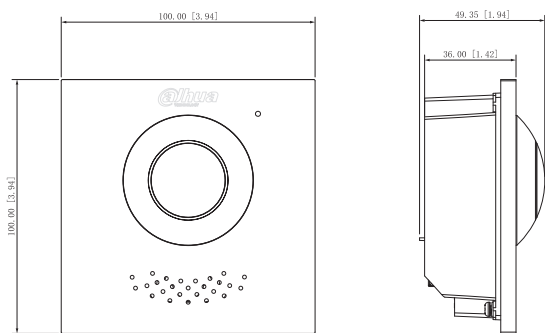


DHI-VTO4202F-MB2

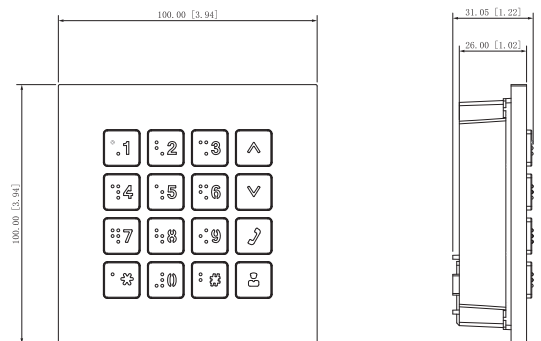


DHI-VTO4202F-MF

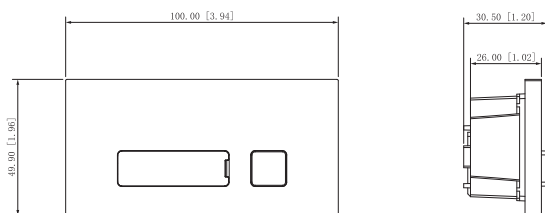
## Dimensions (mm[inch])



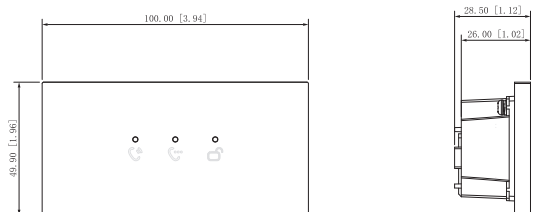
DHI-VTO4202F-P



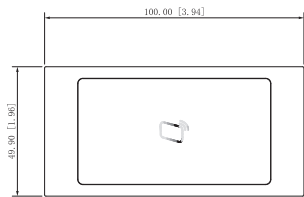
DHI-VTO4202F-MK



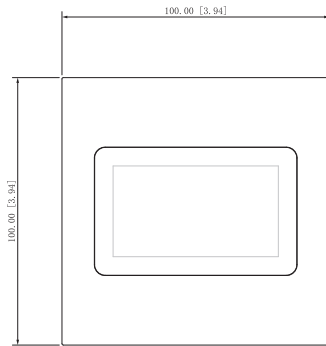
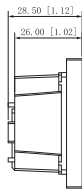
DHI-VTO4202F-MB1



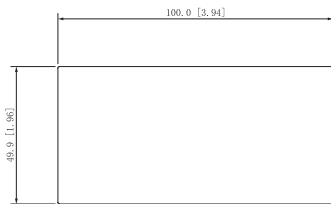
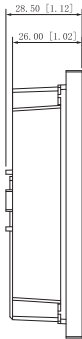
DHI-VTO4202F-ML



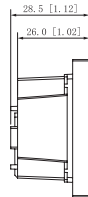
DHI-VTO4202F-MR



DHI-VTO4202F-MS



DHI-VTO4202F-MN



## Application

