

# GDM-3250 Installation Guide

The installation guide is for users who install/maintain GDM-3250. Configuring GDM-3250 requires knowledge of wired/wireless LAN, expertise on network settings for communication devices and computers, and skills to use a Web browser.

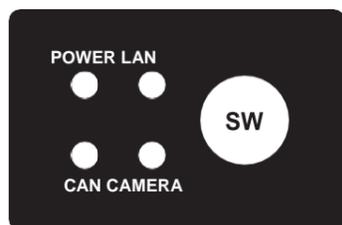
## GDM-3250 and Accessory

### GDM-3250 and its Accessory



- One GDM-3250
- One installation guide
- One GPL inquiring sheet
- Two antennas
- One gurantee

## Push Switch and LED



■ LED  
The green light is on in a normal state. See **LED Display** in the Instruction Manual for more details.

- POWER Shows the state of power
- LAN Shows the state of wired/wireless LAN
- CAN Shows the state of CAN
- CAMERA Shows the state of camera operation

■SW (Push Switch)  
Press the button or hold down the button to select the smart wireless setting mode or the setting values initialization mode. See **Push Switch** in the Instruction Manual for more details.

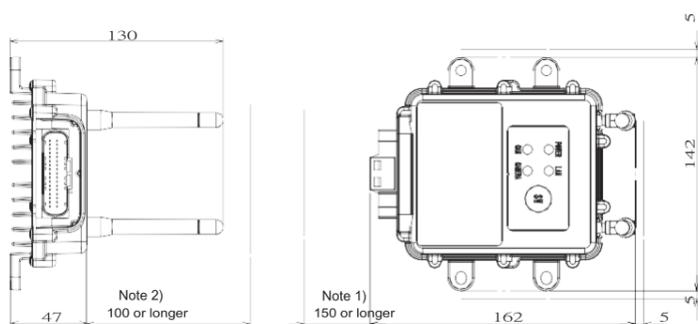
## Places to Install GDM-3250

- ⚠ **Warning**  
Do not place containers with water or liquid, metals including metallic pieces or metal clips, or oils. When the inside of GDM-3250 is exposed to liquid such as water and metals, it may cause fire, electric shocks, or breakdown. If it happens, unplug the connector right away.
- ⚠ Do not install GDM-3250 by flammable solvent such as alcohol and thinner. When flammable solver contacts the electric parts of GDM-3250, it may cause fire or electric shocks.
- ⚠ **Caution**  
Do not place something heavy on GDM-3250. It may fall down because of off-the balance, and hurt the user.
- ⚠ Install GDM-3250 considering safety when it is installed in places with a lot of vibration, on unstable foundation and on inclined plane.
- ⚠ Do not place GDM-3250 on the following places. It may cause fire, electric shocks or breakdown.
  - Near fire
  - Places where acid gasses, alkaline gasses, or water vapor are generated.
  - Near magnetic devices.
  - Do not install GDM-3250 in places where it is exposed to drastic temperature changes.

### Notes

This Installation Guide is created based on regular usage. GDM-3250 works properly under stipulated anti-dust, waterproof, operation temperature, vibration conditions. Please ask a place of purchase for more details about environments and conditions.

## Installation Space



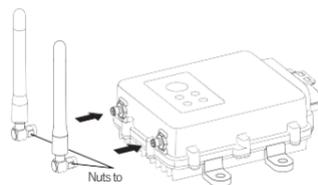
Note 1) Recommended space to plug/unplug the connector.  
Note 2) Recommended space to check LED and press the switch.

## Installation Steps

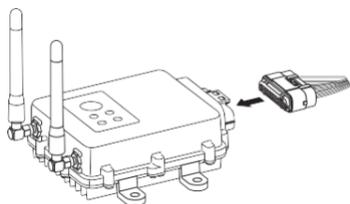
### Notes

Do not touch the wireless LAN antenna connection terminal. GDM-3250's wireless function may be damaged due to static electricity. Connect the wireless LAN antenna to protect the wireless LAN antenna connection terminal even when the wireless LAN antenna is not used.

- 1 Attach two antennas (accessary) to the antenna connectors. Fasten/Fix the antennas with a torque wrench.
  - Coupling tightening torque: 0.6 to 1.0 [N.m]
  - Attach the antenna vertically as the picture shows below and rotates only the nut to fix. DO not rotate the antenna to avoid breaking of wire.



- 2 Plug the cable to the connector of GDM-3250



## Connection

GDM-3250 has two ways of connection: wireless and wired LAN.

Use the web browser to configure GDM-3250 or monitor the video.  
\*See the back of the installation guide to use the wired LAN to connect.

## Wireless LAN Connection

When the wireless LAN is used to connect with GDM-3250, there are two ways of connection. One is to use the smart wireless setting and the other is to specify SSID. Configure wireless LAN devices through DHCP to establish connection. Turn the power of GDM-3250 on, and check that the LEDs of POWER and CAMERA light green before wireless LAN connection.



When the wireless connection is done successfully, the LAN LED lights green, and then turns off. After that the state of LAN will be shown.

## Dafault Values

The following default values are for SSID, the pre-shared key and IP address of the wireless LAN.

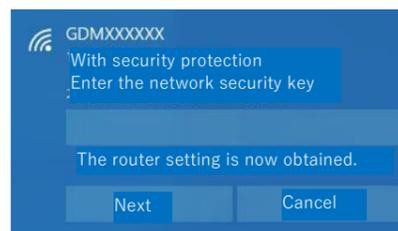
- SSID: GDM + the last 6 digits of MAC address
- Pre-shared key: PreSharedKey
- IP address: 192.168.2.10

The following steps are for Windows 10 and Android 6.0. See OS help for other OS.

- For Windows 10 (connection with the smart wireless setting)
  - 1 Click the network icon on the task tray.
  2. Select SSID of GDM-3250 from the network list and click [Connect].
  - 3 When the following window appears, press the push switch of GDM-3250 for five to ten seconds, and then release the switch.
    - When the POWER LED lights orange, release the push switch.
    - The LAN LED flashes in green and orange alternately when the smart wireless

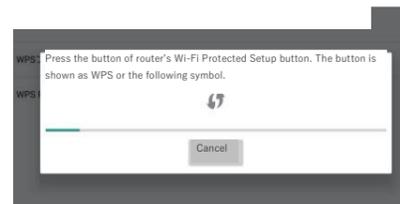


- 4 The following window appears and the connection starts.



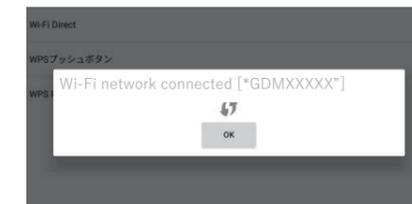
Some computers cannot connect to GDM-3250 even though the user presses the push switch. In that case, enter **PreSharedKey** in the input key box manually to connect with GDM-3250.

- For Android 6.0 (connection with smart wireless settings)
  - 1 Tap [Menu]
  - 2 Tap [Setting].
  - 3 Tap [Wi-Fi].
  - 4 Tap on the right menu.
  - 5 Tap [Detailed Setting].
  - 6 Tap [WPS Push Button]
  - 7 When the following window appears, press the push switch for five to ten seconds, and then release the switch.



- When the POWER LED lights orange, release the push switch.
- The LAN LED lights green and orange alternately while the smart wireless setting is activated.

- 8 Tap [OK] when the connection is successfully established.



When the wireless connection is established successfully, the LAN LED lights green, and then turns off. After that the status of LAN will be shown.

- For Windows 10 (SSID is specified to connect).

- 1 Click the network icon on the task tray.
- 2 Select SSID of GDM-3250 from the network list and click [Connect].
- 3 Enter PreSharedKey in the network security key box and click Next.



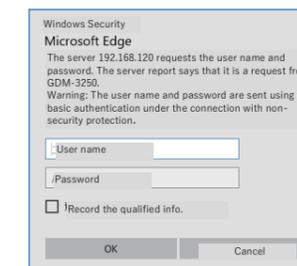
- 4 When the setting is completed, [Connected] is shown.

- For Android 6.0 (SSID is specified to connect)
  - 1 Tap [Menu]
  - 2 Tap [Setting].
  - 3 Tap [Wi-Fi].
  - 4 Tap the SSID of GDM-3250.
  - 5 Enter PreSharedKey in the password box and tap [Connect].
  - 6 When the setting is completed, [Connected] is shown along with SSID.

## How to Access GDM-3250

- Use a web browser to access GDM-3250
- 1 Start the web browser and access the following URL.  
<http://192.168.2.10>
  - 2 The camera image page is shown. (No image is shown when a camera is not connected.)
  - 3 Besides the camera image and the status, the authentication window is shown. Enter the following user name. No need to enter the password.

User name: root  
Password: None



## Wired LAN Connection

Connection over wired LAN requires the following items.

Prepare them beforehand.

- A computer to use for configuration
- Network cables
- Ethernet hub

### Info.

When there is an Ethernet hub with vacant LAN ports under the network environment, GDM-3250 can be connected with the vacant LAN port. In that case, an Ethernet hub is not needed to be newly prepared.

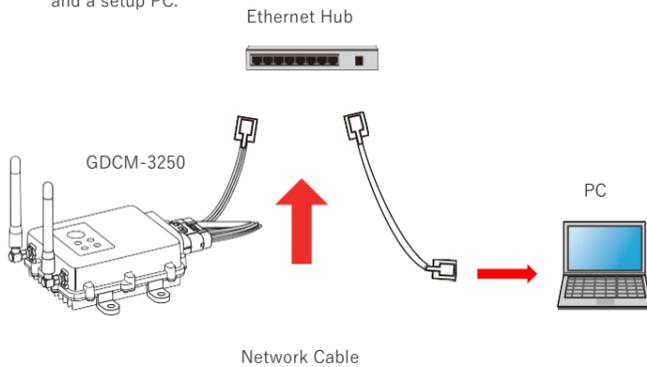
## Default Values

The following value are the default value of IP address for the wired LAN.

IP address: 192.168.1.10

### ■ Use a network cable to connect GDM-3250

1. Plug the network cable in the Ethernet hub to connect GDM-3250 and a setup PC.



2. Power on GDM-3250 and the PC.
3. Update the PC's network settings to communicate with GDM-3250.

E.g. PC network settings example

IP address: 192.168.1.1

Subnet mask: 255.255.255.0

## How to Access GDM-3250

Use a web browser to access GDM-3250

- 1 Start the web browser and access the following URL.

<http://192.168.1.10>

- 2 The camera image page is shown. (No image is shown when a camera is not connected.)

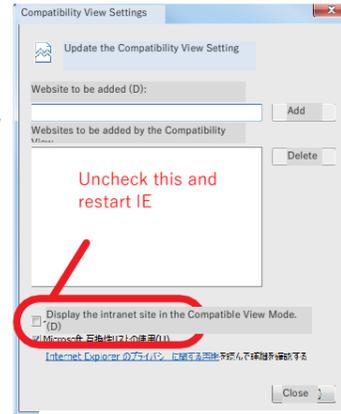
- 3 Besides the camera image and the status, the authentication window is shown. Enter the following user name. No need to enter the password.

User name: root

Password: None

## For Microsoft Internet Explorer

When the camera image is not shown with Microsoft Internet Explorer (hereafter IE), select **Compatibility view settings** from the tool bar. Uncheck the box of **Display the intranet site in the compatibility view mode**, and then restart IE.



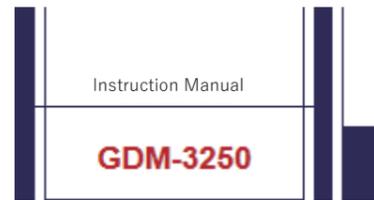
### Info.

The video format: avi (MotionJPEG) cannot be displayed with IE.

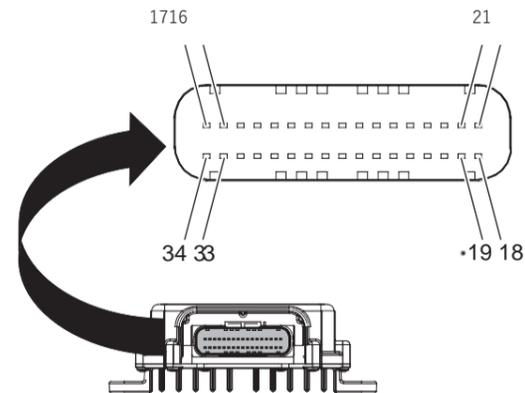
## How to Open the Instruction Manual

GDM-3250 is equipped with the Instruction Manual. Click the link of **Instruction Manual** after accessing GDM-3250.

The Instruction Manual is saved in the PDF file format. Adobe Reader must be installed in the user's computer to monitor/print the PDF. Adobe Reader can be downloaded from Adobe's website.



## Connector PIN Assingment



## Sfety Use of GDM-3250

### ■ Notations for Safety

The following tables show the level of harm and damage coming from wrong operations

⚠ Warning	This notation shows that the user may be dead or get injured when he/she ignores this notation.
Caution	This notation shows that the user may be injured or property damage may occur when this notation is ignored.
Note	Important/restricted matters which need to be observed are stated to avoid troubles due to wrong operations.

The following table shows the meaning of marks.

⊘ Prohibited actions	e.g. ⊘ Prohibited	⊘ Prohibit Disassembling
	⊘ Prohibit touching with wet hands	
● Imperative actions and instructions	e.g. ! Instruction	

### ■ To use GDM-3250 safely

Read through **Safety Usage** to use GDM-3250 safely before use.

#### ■ Ventilation

##### ⚠ Caution

- ! Use GDM-3250 in well-ventilated places. New electric devices are likely to emit volatile substances in a room, ventilate the room well especially for the several days after GDM-3250 is installed.

#### ■ Power and Cables

##### ⚠ Warning

- ! Use specified power voltage. If not, it may cause fire or electric shocks.

- ⊘ Do not plug or unplug the power of GDM-3250 with wet hands. It may cause electric shocks.

- ⊘ Do not harm or damage the cable. Do not put something heavy on the cable, tuck, forcefully bend, twist or pull the cable. It may damage the cable, and cause fire or electric shocks. When the cable gets damaged, (e.g. exposure of the core lines or disconnection) make sure of exchanging the cable. If the cable remains using, it may cause fire or electric shocks.

- ⊘ Do not band or tie the cable. It may cause fire or electric shocks.

- ⊘ Do not place the cable near thermal appliances. The coating of cable may be melt and the cable causes fire or electric shocks.

##### ⚠ Caution

- ! Unplug the cable while holding the connector. If the cable is pulled, it may cause damage the cable, fire or electric shocks.

- ! Do not put anything around the cable. Do not put anything around the connector, so that the cable can be easily unplugged. If not, the connector plug cannot be out of the socket in case of emergency.

### ■ Product Handling

#### ⚠ Warning

- ⊘ Do not drop metal pieces or insert foreign materials in GDM-3250. Do not pour liquid such as water. If it happens, unplug the power cable of GDM-3250 immediately.

- ! When liquid such as liquid detergents is used to clean the floor or wall, make sure that water does not drop on the connection code or the power cable. If it happens, wipe out with a dry cloth. If not, it may cause fire or electric shocks.

#### ⚠ 注意

- ⊘ Do not operate GDM-3250 under non-stated conditions. It may cause unexpected accidents or breakdown.

Do not drop GDM-3250 or give big impact. It may be browken.

- ⊘ Do not touch GDM-3250 for many hours. When the user touches heated parts of GDM-3250 directly, it may cause low temperature burn.

#### ■ Prohibited disassembling or remodeling

##### ⚠ Warning

- ⚠ 警告
- ⊘ Do not disassemble or remodel GDM-3250.

##### ⊘

Non-technical experts are not allowed to disassemble or fix GDM-3250, because it may cause fire or electric shocks. Disassembling or remodeling is prohibited under the law. If GDM-3250 is reassembled, it will not be covered under warranty.

#### ■ In Warning

##### ⚠ 警告

- ! Unplug the connector when the following abnormal operation occurs.

- GDM-3250 is in flames.
- The enclosure is extremely hot.
- Abnormal sounds come from GDM-3250.
- Bad smell comes from GDM-3250.

- ! If GDM-3250 is damaged, unplug the connector. If the user continues to use, it may cause fire or electric shocks.

#### Notes

##### ■ Others

- ! This model is an approved device for Japan. silx technology does not provide maintenance or technical support services except for Japan.

- ! GDM-3250 includes parts, technology or software which are the subject of Japan and US export regulation laws. GDM-3250 or some of GDM-3250 is not allowed to be exported to countries, people or institutions which are the subject of restrictions based on both countries export's regulation law.

- ! The enclosure and specifications are subject to change without notice.

- ! Data guarantee

When data in GDM-3250 is lost or damaged, the data restoring is not guaranteed. Make sure of making a backup in a regular basis just in case of breakdown or an emergency.

- ! Antenna installment

Hold the antenna and rotate the nut parts of the antenna to install it.

- ! Antenna connection terminal

Do not touch the antenna connection terminal of GDM-3250. Static electricity may damage the wireless function of GDM-3250.

- ! GDM-3250 is categorized as a class A device. If this device is used in housing environments, it may cause radio interference. In that case, the user is required to take appropriate measures.

Pin	Signal name	Remark	Pin	Signal name	Remark
1	GND	CMR1	18	RJ_RXP	LAN
2	RJ_TXM	LAN	19	RJ_RXM	LAN
3	RJ_TXP	LAN	20	GND	CMR2
4	ACC	POWER	21	GND	CMR3
5	CAMPWR	CMR1	22	GND	CMR4
6	CAMERA_1	CMR1	23	CAMERA_3	CMR3
7	CAMERA_2	CMR2	24	CAMERA_4	CMR4
8	CAMPWR	CMR2	25	CAMPWR	CMR3
9	DOUT1	IO	26	CAMPWR	CMR4
10	GND	IO	27	GND	SERIAL
11	232_RXD	SERIAL	28	DIN2	IO
12	DIN1	IO	29	485_RXD +	SERIAL
13	232_TXD	SERIAL	30	485_RXD -	SERIAL
14	CAN_H_1	CAN	31	485_TXD +	SERIAL
15	CAN_R_1	CAN	32	485_TXD -	SERIAL
16	CAN_L_1	CAN	33	GND	POWER
17	GND	CAN	34	B/U	POWER



silex technology, Inc  
 Webpage: <http://www.silex.jp/>

■ For product inquiries

Enter the following address in a web browser to access the inquiry page.

<https://www.silextechnology.com/support>