

# Install the Common Trigger Box (option: WV-TW37003)

## Preface

- If a Common Trigger Box installed in the trunk, for example, and a BWC are connected via Bluetooth communication, it is possible to activate the BWC controlling from the external devices or transfer BWC's operating information to the external devices.
- By connecting the Common Trigger Box and Pairing Dock (option: WV-TW37004) using an Ethernet cable, Bluetooth peer-to-peer wireless communication can be performed.
- If the Common Trigger Box is connected with SA366 (existing model BWC) equipped with wireless function, it is possible to activate the SA366 automatically controlling from the external devices or transfer SA366's operating information to the external devices.

## WARNING

- To prevent fire or electric shock hazard, do not expose this apparatus to rain or moisture.

## Standard accessories

Operating instructions .....	1 pc.
Warranty card .....	1 pc.
Common Trigger Box fixing screws.....	5 pcs.
	(of them, 1 for spare)
Fixing plate .....	1 pc.

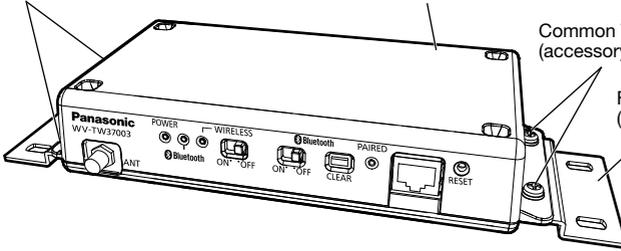
# Part names

Common Trigger Box fixing screws (2 pcs.)  
(accessory: WV-TW37003)

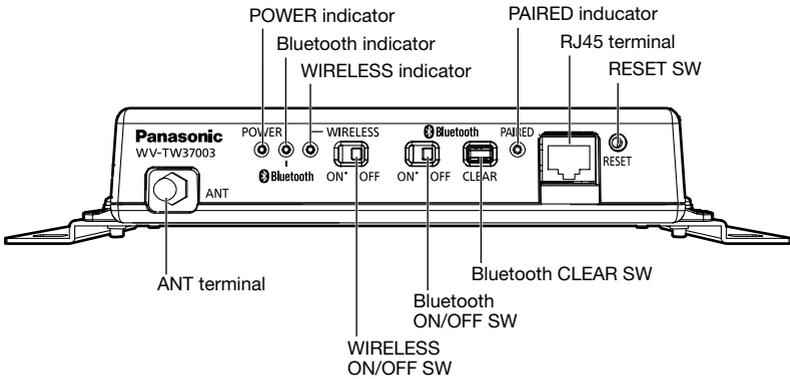
Common Trigger Box  
(option: WV-TW37003)

Common Trigger Box fixing screws (2 pcs.)  
(accessory: WV-TW37003)

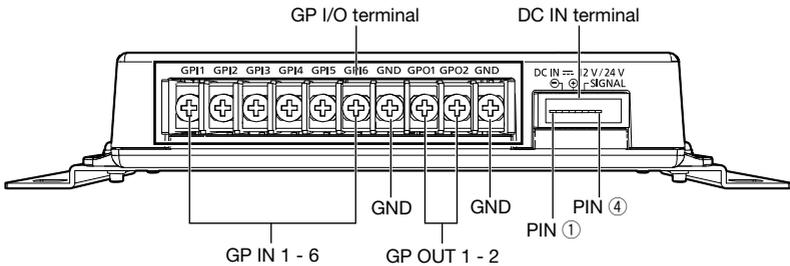
Fixing plate  
(accessory: WV-TW37003)



## <Front View>



## <Rear View>



## ■ Indicator

POWER indicator	Lights up in green when power is supplied to the Common Trigger Box.
Bluetooth indicator	Lights up in green when Bluetooth ON/OFF SW sets to ON. Blinking in green(0.5 sec./0.5 sec.) when pairing between the Common Trigger Box and BWC (at least 1 unit) is complete. Up to 10 BWCs can be connected.
WIRELESS indicator	Lights up in green when WIRELESS ON/OFF SW sets to ON. Blinking in green(0.5 sec./0.5 sec.) when linking between the Common Trigger Box and SA366 (at least 1 unit) is complete. For SA366 (existing model), up to two units can be linked. Fast blinking in green (0.25 sec./0.25 sec.) when authentication error is occurred.
PAIRED indicator	Lights up in green when connecting between Common Trigger Box and BWC through the ethernet cable.

## ■ SW

WIRELESS ON/OFF SW	Determines whether to operate the Common Trigger Box via wireless LAN mode.
Bluetooth ON/OFF SW	Determines whether to operate the Common Trigger Box via Bluetooth mode.
Bluetooth CLEAR SW	Clear the pairing information between the Common Trigger Box and the BWC.
RESET SW	Restart the Common Trigger Box.

## ■ Front Terminal

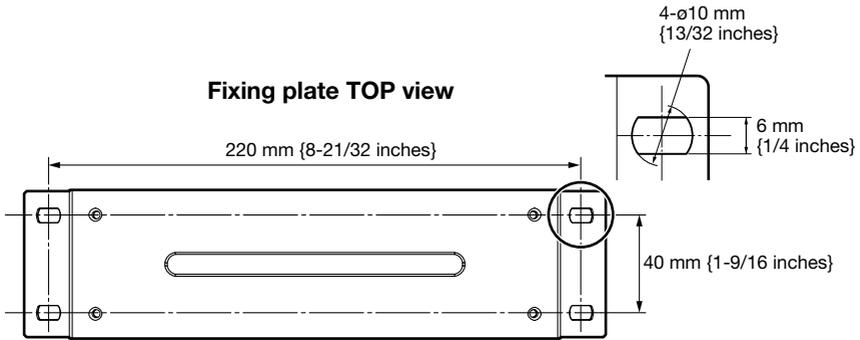
RJ45 terminal	Connects with the Pairing Dock using an Ethernet cable, and enables pairing operation. RJ45 terminal is a dedicated connecting terminal for a Pairing Dock. It cannot be used for connecting a regular LAN cable.
ANT terminal	Connects an external antenna.

## ■ Rear Terminal

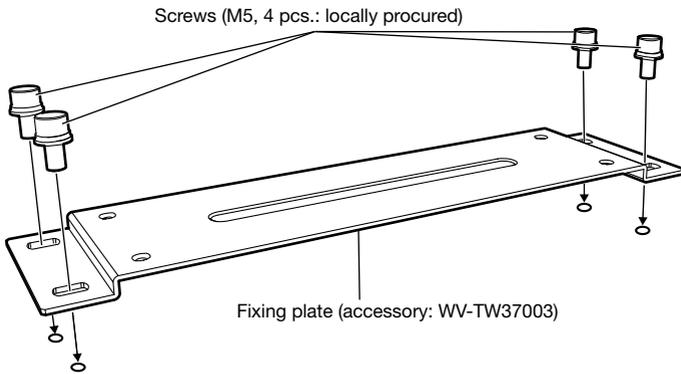
GP I/O terminal	Connects signal lines from the external devices. Input: 6 lines, Output: 2 lines <b>Input specification:</b> No-voltage make contact input (4 V - 5 V DC, internally pulled up) OFF: Open or 4 V - 5 V DC ON: Make contact with GND (required drive current: 1 mA or more) <b>Output specification:</b> Open collector output (maximum applied voltage: 20 V DC) ON: 4 V - 5 V DC by internal pull-up OFF: Output voltage 1 V DC or less (maximum drive current: 50 mA)
DC IN terminal	Pin ① GND (Black) Pin ② DC IN (Red) Supplies power from the power source of 12 V DC/24 V DC) Pin ③ ACC (White: Detects ACC signal on by car key operation.) Pin ④ NC

## How to install

- ① Referring to the illustration below, drill the fixing holes on the flat mounting surface.  
(For the hole diameter and depth of the screws (locally procured), refer to the specification of each screw to be used.)



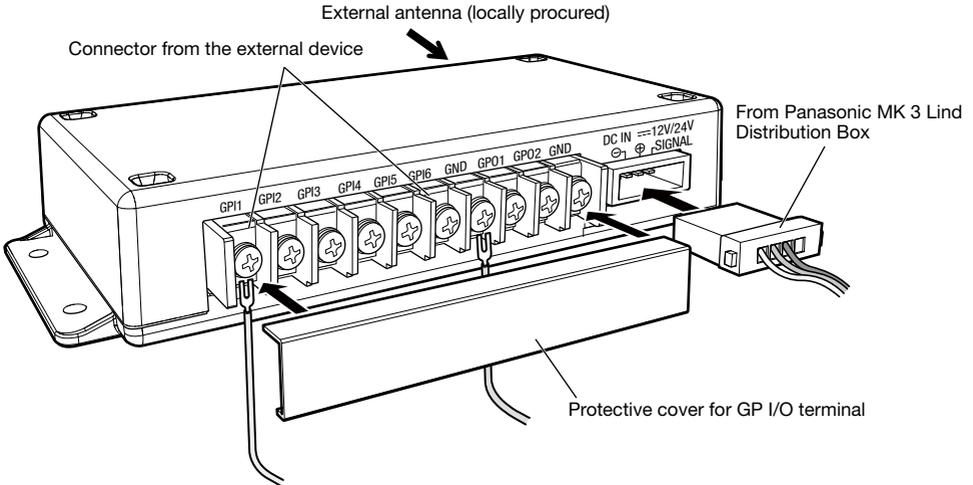
- ② Fix the fixing plate (accessory: WV-TW37003) on the installation surface using fixing screws (locally procured).  
The minimum required pull-out capacity of a single screw is 196 N {44 lbf} or more.



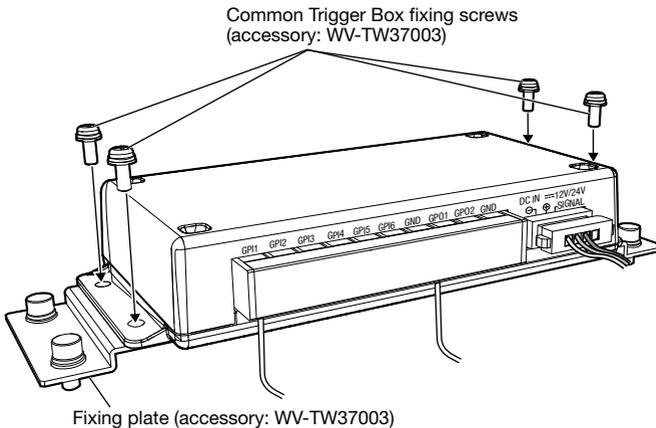
- ③ Connect a 4P power cable to the back of the Common Trigger Box. Also after removing the protective cover, connect signal lines for external devices, GND line to the GP I/O terminal, and external antenna to the ANT terminal.

**Note:**

- Attach the protective cover to the GP I/O terminal after fixing the connectors to the terminal with screws.



- ④ Fix the Common Trigger Box to the fixing plate using Common Trigger Box fixing screws (accessory: WV-TW37003). (Recommended tightening torque: 0.78 N·m {0.58 lbf·ft})



## How to use

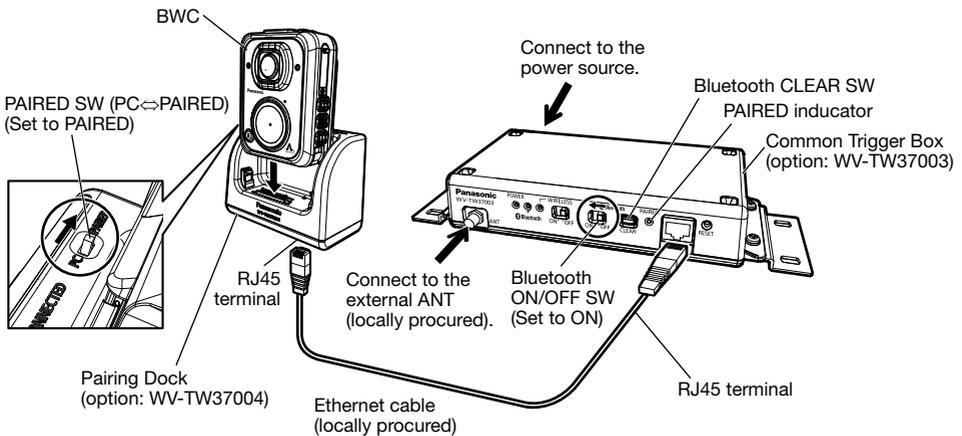
### <Using with Pairing Dock (option: WV-TW37004)>

1. After setting the BWC to the Pairing Dock, connect the Pairing Dock with the Common Trigger Box using an Ethernet cable.
2. Select PAIRED for the PAIRED SW of the Pairing Dock, and select ON for Bluetooth ON/OFF SW of the Common Trigger Box. (☞ Page 28)
3. When power is supplied to the Common Trigger Box, pairing will be started automatically and Bluetooth connection between the BWC and Common Trigger Box are enabled. (The PAIRED indicator will be lit in green.)
4. Press Bluetooth CLEAR SW to cancel the Bluetooth connection with the BWC.

---

**Note:**

- The BWC can be charged from the Common Trigger Box as it is set on the Pairing Dock.
- 



---

**Note:**

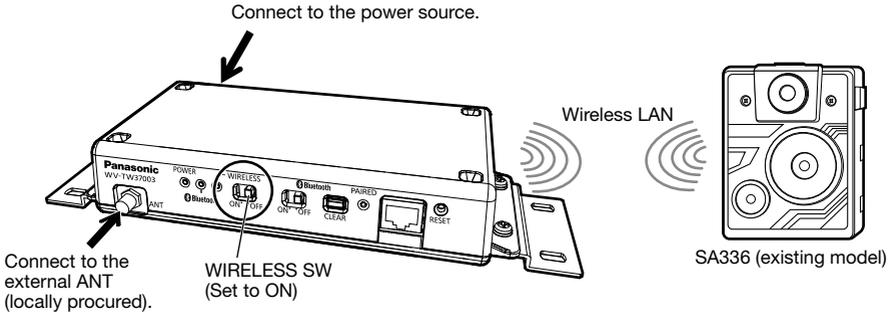
- Once pairing is activated, the PAIRED information will be recorded to the BWC for 12 hours. After 12 hours, recorded information will be deleted. (This function is disable as default, you need to configure the BWC to delete after 12 hours. and the duration (12 hours) can be configurable.)
  - If pairing with a different Common Trigger Box is activated within 12 hours, the old data will be overwritten with the new PAIRED information.
  - Approximately 10 seconds is required for pairing.
-

## <Using Common Trigger Box with the existing model SA366>

Set the WIRELESS SW of the Common Trigger Box to ON, and supply power to the Common Trigger Box.

Set "ST1" for the Wireless LAN SW of SA366.

The Common Trigger Box and SA366 will be automatically connected via Wireless LAN.



## <Initializing the Common Trigger Box>

To restart the Common Trigger Box, press the RESET SW using a nib of a pen or the like with the power on condition for more than 10 seconds.

