

Panasonic[®]

Operating Instructions <Installation Guide>

Installation Instructions provided

Center Module

Model No. **WX-CC411BP**
WX-CC412BP

English

Français



Before attempting to connect or operate this product,
please read these instructions carefully and save this manual for future use.
No model number suffix is shown in this Operating Instructions.



PUQX1028ZA

ENGLISH VERSION

Safety precautions

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

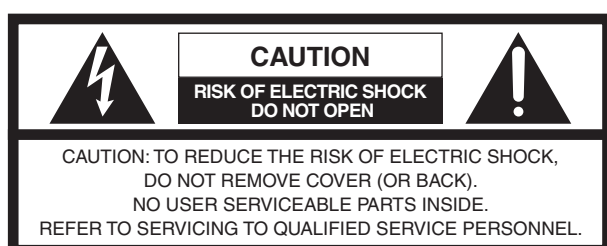
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

This equipment complies with FCC/ISED radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the ISED radio frequency (RF) Exposure rules. This equipment should be installed and operated keeping the radiator at least 20 cm or more away from person's body (excluding extremities: hands, wrists, feet and ankles).

This device complies with Part 15 of FCC Rules and ISED licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (service) instructions in the literature accompanying the appliance.

WARNING:

- This apparatus must be earthed.
- Apparatus shall be connected to a main socket outlet with a protective earthing connection.
- The mains plug or an appliance coupler shall remain readily operable.
- The apparatus should not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, should be placed on the apparatus.
- All work related to the installation of this product should be made by qualified service personnel or system installers.
- To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.
- The connections should comply with local electrical code.
- The risk of hearing impairment due to exposure to excessive sound levels may be reduced by listening at lower volumes and for shorter durations.
- Operating near 1.9 GHz electrical appliances may cause interference. Move away from the electrical appliances.
- This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.
- **MEDICAL:**
Consult the manufacturer of any personal medical devices, such as pacemakers, to determine if they are adequately shielded from external RF (radio frequency) energy. (The unit operates in the frequency range of 1.92 GHz to 1.93 GHz, and the power output level is 115 mW (max.).)
Do not use the unit in health care facilities if any regulations posted in the area instruct you not to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF (radio frequency) energy.
- The installation shall be carried out in accordance with all applicable installation rules.
- To prevent fire or electric shock hazard, do not expose this apparatus to rain or moisture.

Safety precautions

CAUTION:

- These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.
- Shielded (STP) LAN cables must be used with this unit to ensure compliance with EMC standards.



A lithium-ion battery that is recyclable powers the product you have purchased. Please call 1-800-8-BATTERY for information on how to recycle this battery.

Descriptions of Graphic Symbols



This symbol indicates alternating current (AC).



This symbol indicates a c-UL certification mark in the United States.

For U.S.A.

Supplier's Declaration of conformity

Trade Name: Panasonic

Model No.: WX-CC411BP

WX-CC412BP

Responsible Party:

Panasonic Corporation of North America

Two Riverfront Plaza, Newark, NJ 07102-5490

Support Contact: 1-800-491-9986

wirelessmicsupport@us.panasonic.com



For U.S.A.

The model number and serial number of this product may be found on the surface of the unit.

You should note the model number and serial number of this unit in the space provided and retain this book as a permanent record of your purchase to aid identification in the event of theft.

Model No. _____

Serial No. _____

For U.S.A.

CAUTION:

The FCC ID number for this radio equipment is listed below.

FCC ID: ACJ9TAWX-CC411BP

FCC ID: ACJ9TAWX-CC412BP

For U.S.A.

FCC Caution:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For U.S.A.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

For U.S.A.

This product contains a CR Coin Cell Lithium Battery which contains Perchlorate Material – special handling may apply. See

www.dtsc.ca.gov/hazardouswaste/perchlorate/

English

Safety precautions

For Canada

ICES-003

CAN ICES-003(A)/NMB-003(A)

For Canada

RSS-Gen

- This device contains licence-exempt transmitter(s)/ receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
 1. This device may not cause interference.
 2. This device must accept any interference, including interference that may cause undesired operation of the device.

IMPORTANT SAFETY INSTRUCTIONS

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 8) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 9) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 10) Only use attachments/accessories specified by the manufacturer.
- 11) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 12) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 13) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 14) To prevent it from falling, remove the product without leaving it at the end of use.

Contents

Safety precautions	2	Screen operations	33
Before use	6	Basic screen operations.....	33
Preface.....	6	Entering the settings	33
Features	6	Inputting characters	34
System diagram	6	Inputting the date and time	34
Operation	7	Adjusting the volume level.....	34
Concerning the extension in coverage area.....	8	Operating procedures	35
Concerning the audio frequency characteristics.....	10	Basic operations	35
Concerning the Operating Instructions	10	ID Registration	35
Standard accessories	10	Concerning Wireless Repeater ID registration.....	37
Trademarks and registered trademarks	10	Convenient Functions (Other Functions)	39
Abbreviations	11	Troubleshooting.....	43
Limitation of liability	11	Specifications	45
Disclaimer of warranty.....	11	Licenses	47
Network security	11		
Precautions	12		
Operating precautions.....	12		
Installation precautions	14		
Major operating controls and their functions	15		
Front panel	15		
Terminal block	16		
Side panel	17		
Screen.....	18		
Description of screens.....	19		
Basic screen	19		
Setting Information screen	20		
Password settings screen	22		
Password input screen	22		
Camera monitoring screen.....	23		
Quick Operation screen	23		
Related devices	24		
Installation procedures	25		
Deciding on where to install the Center Module	25		
Installation	25		
Connections.....	28		
Opening the connector cover	28		
Securing the power cord	28		
Wiring the Euroblock connector	29		
Attaching the connector cover.....	31		
Examples of connections	32		

Before use

Preface

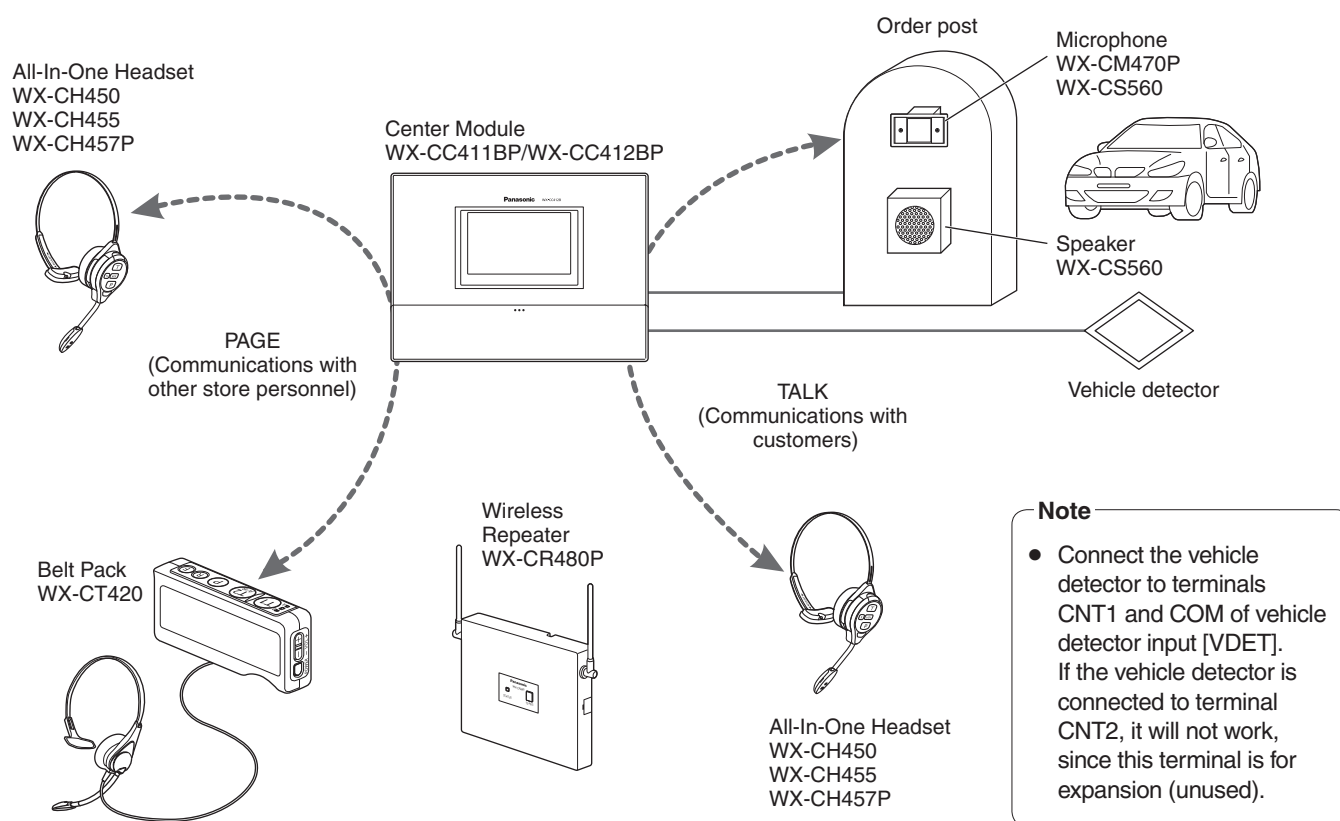
The WX-CC411BP and WX-CC412BP are Center Modules for the wireless intercom systems that are used in drive-thru outlets.

Features

- The WX-CC411BP is designed for single lane operation of drive-thru outlets; the WX-CC412BP is designed for dual lane and tandem lane operation.
- A system compliant with the 1.9 GHz band DECT* standard is used so the voices of the store personnel and customers are heard clearly and distinctly even in open areas, and interference is minimal, resulting in stable communication.
* Digital Enhanced Cordless Telecommunications
- Coverage area can be extended even further by installing a Wireless Repeater (WX-CR480P).
- By extending the audio frequency characteristics up to 7 kHz, conversations between All-In-One Headsets and with customers at the order posts can be made with a higher audio quality, making it easier to hear.
- A high degree of vocal clarity is ensured by a powerful echo canceller and digital noise reduction (DNR).
- The cabinet supports wall-mounting for easy installation.
- The total number of All-In-One Headsets and Belt Packs that can be registered is 32. Up to four operators can communicate at the same time per lane using All-In-One Headsets and Belt Packs.
- This unit has a 7-Type LCD display with a touch panel, and is easy to operate.
- This unit can be connected to an IP network using Ethernet to enable remote control operations to be performed.
- Using an SD card, it is possible to back up and restore the settings, and save messages unique to the outlet.
- The system contains a scheduler to enable the greeter message to be changed at designated times and reminder messages to be played back automatically.
- Up to four Network Cameras made by i-PRO can be registered, and their images can be monitored on this unit's LCD display.
- Alert signals that have been received can be sent to the All-In-One Headsets or Belt Packs, signals can be output to external devices, and alert emails can be sent to external destinations.

System diagram

By connecting the Center Module and All-In-One Headsets or Belt Packs wirelessly, it is possible to communicate between the All-In-One Headsets or Belt Packs or between the All-In-One Headsets or Belt Packs and the customers at the order post.

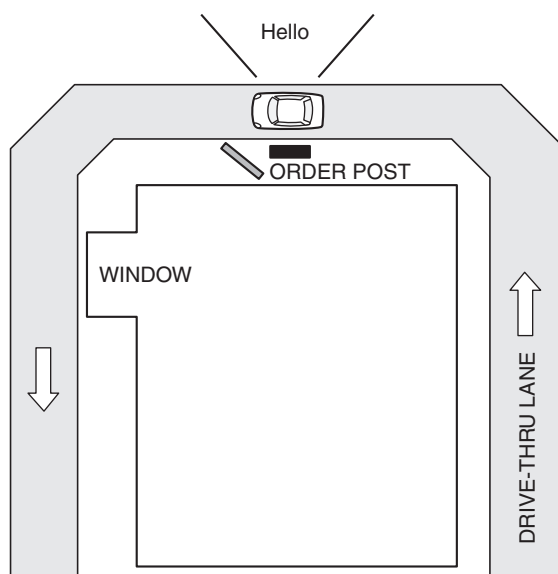


■ Operation

This system supports the following operations that are suited to drive-thru customers.

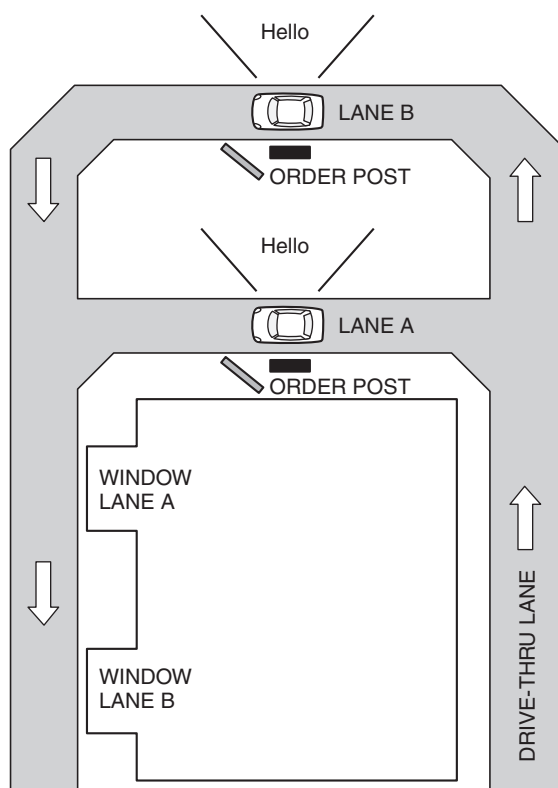
Single lane

Operations in an environment in which only one order post is installed are referred to as “single lane” operations. These lane operations are supported by the WX-CC411BP.



Dual lane

Operations in an environment in which the order posts are installed in parallel are referred to as “dual lane” operations. With dual lane operations, the vehicle detectors for lane A and lane B operate independently of each other, and when each of these vehicle detectors is set to ON, the greeter message for the lane concerned is played back. These lane operations are supported by the WX-CC412BP.

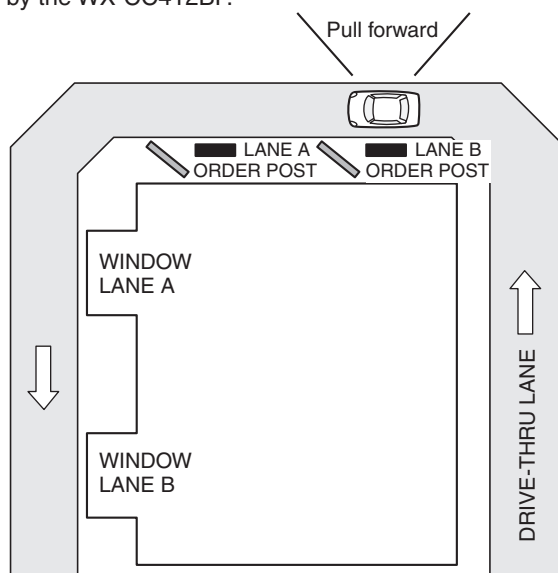


Before use

Tandem lane

Operations in an environment in which the order posts are installed in series are referred to as “tandem lane” operations. When the vehicle detector for lane A is OFF and the vehicle detector for lane B is set to ON, a tandem lane message urging the customer to move to lane A is played back.

These lane operations are supported by the WX-CC412BP.



■ Concerning the extension in coverage area

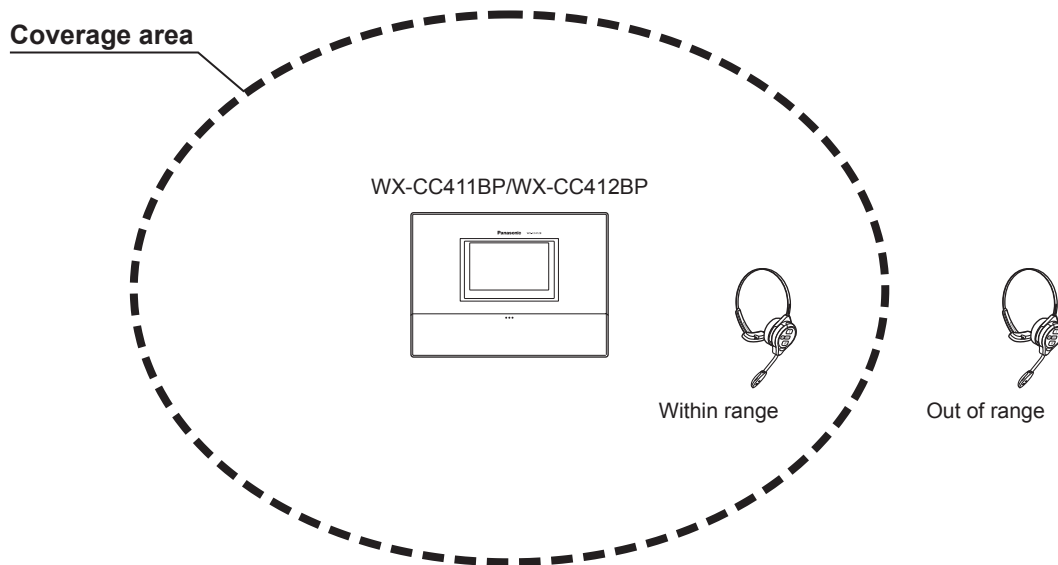
Coverage area can be extended by using a Wireless Repeater.

A maximum of 2 Wireless Repeaters can be registered per each Center Module.

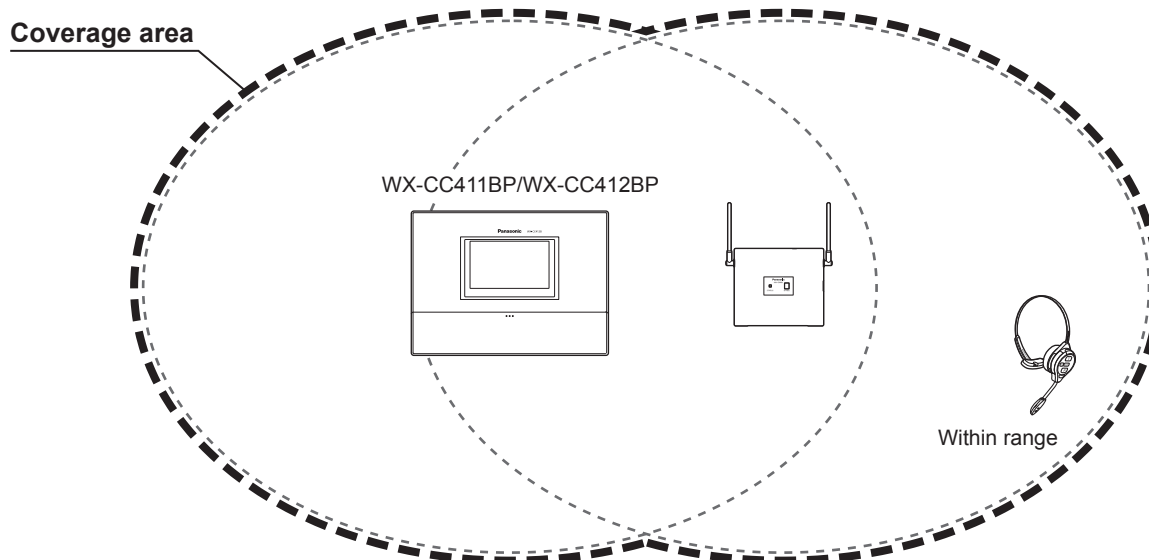
One Wireless Repeater can be registered each for lane A and lane B, or two Wireless Repeaters can be registered in either lane A or lane B. (only WX-CC412BP)

- When two Wireless Repeaters are registered in lane A, cannot be registered in lane B.
- When two Wireless Repeaters are registered in lane B, cannot be registered in lane A.

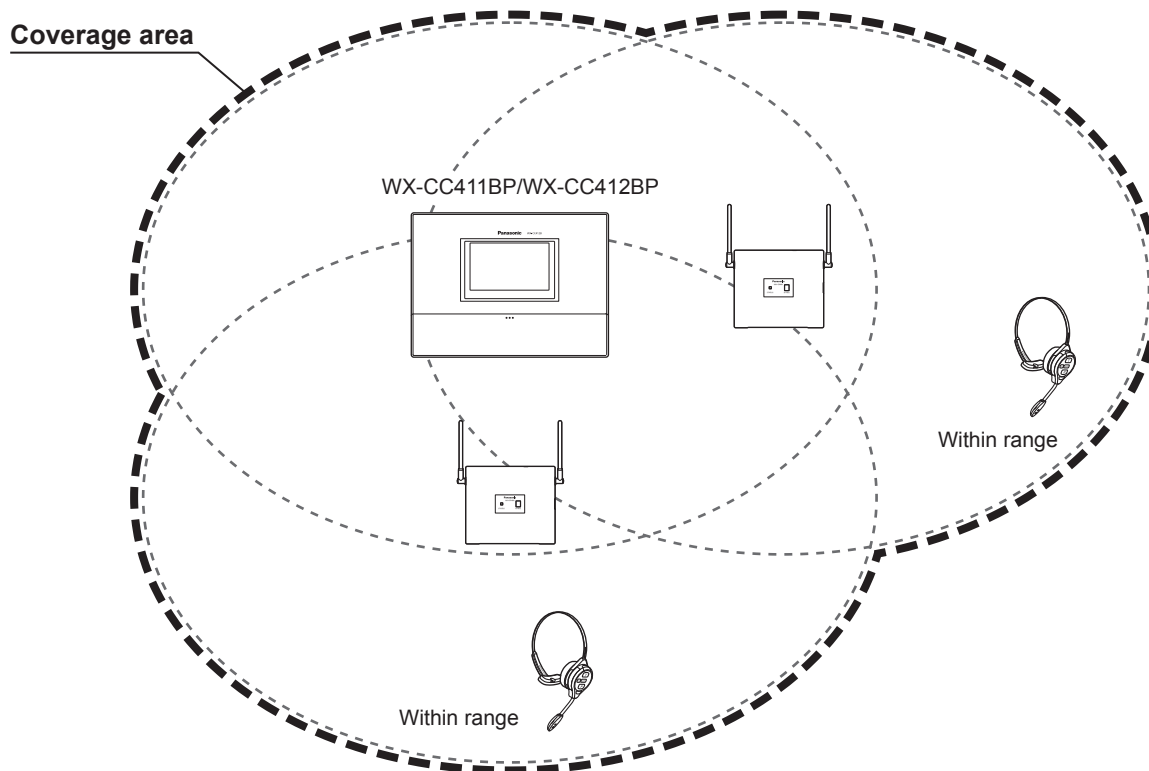
With just the Center Module



1 Wireless Repeater registered in lane A (lane B)



2 Wireless Repeaters registered in lane A (lane B)



Note

- When using with a Wireless Repeater registered to the Center Module, use software version 2.0 or later on the All-In-One Headset WX-CH457P.

Before use

■ Concerning the audio frequency characteristics

This unit supports audio frequency characteristics in the range between 100 Hz and 7 kHz (Wideband).

- WX-CH457P (software version 2.00 or later) is the only All-In-One Headset model that supports Wideband.
- The Belt Pack (WX-CT420) and All-In-One Headsets (WX-CH450, WX-CH455, and WX-CH457P (software version earlier than 2.0)) do not support Wideband. When using these units, set the [Sound Band] on the Center Module to "Narrowband".
- WX-CM470P is the only order post microphone model that supports Wideband.
Microphone WX-CS560 does not support Wideband. WX-CS560 can be used with a Center Module with the [Sound Band] set to "Wideband", but the frequency characteristics will be narrower.
- The following table shows the relationship between the [Sound Band] on the Center Module and whether an All-In-One Headset or Belt Pack can be used.

Model No.	WX-CH457P (software version 2.0 or later)	WX-CH457P (software version earlier than 2.0)	WX-CH455	WX-CH450	WX-CT420
Sound Band					
Wideband	◎	×	×	×	×
Narrowband	○	○	○	○	○

◎ : Audio quality will be 100 Hz to 7 kHz (Wideband).

○ : Audio quality will be 300 Hz to 3 kHz (Narrowband).

× : Not available. (When the power is turned on, an "Out of range" message is heard.)

■ Concerning the Operating Instructions

The Operating Instructions consist of the Operating Instructions <Installation Guide>, Operating Instructions <Setup Instructions> (PDF file) and Operating Instructions <Browser Guide> (PDF file).

- Operating Instructions <Installation Guide> (this manual):
These instructions describe how to connect the Center Module with the required devices, how to install them and how to perform settings (excerpted).
- Operating Instructions <Setup Instructions> (PDF file):
These instructions describe the settings that must be performed before this unit can be used.
- Operating Instructions <Browser Guide> (PDF file):
These instructions explain access from the browser.

To read PDF files, you will need Adobe® Reader® which is available from Adobe Systems. When Adobe® Reader® is not installed on the PC, download the latest Adobe® Reader® from the Adobe web site and install it.

Important

- Download the "Operating Instructions <Setup Instructions/Browser Guide>" from the home page given below.
<https://na.panasonic.com/us/food-service-systems/clearconnecttm-restaurant-technology/>

■ Standard accessories

Power cord	1 pc.	Clamp (for securing the power cord to the wall)	1 pc.
Wall mounting bracket	1 pc.	Operating Instructions (this manual)	1 pc.
Power cord clamp	1 pc.	Warranty Card	1 pc.

■ Trademarks and registered trademarks

- Adobe, Acrobat Reader, and Adobe Reader are either registered trademarks or trademarks of Adobe in the United States and/or other countries.
- SD, SDHC Logo is a trademark of SD-3C, LLC.
- Other names of companies and products contained in these operating instructions may be trademarks or registered trademarks of their respective owners.

■ Abbreviations

The following abbreviations are used in this document.
SDHC and SD memory cards are referred to as "SD cards".

■ Limitation of liability

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■ Disclaimer of warranty

IN NO EVENT SHALL Panasonic Connect Co., Ltd. BE LIABLE TO ANY PARTY OR ANY PERSON, EXCEPT FOR REPLACEMENT OR REASONABLE MAINTENANCE OF THE PRODUCT, FOR THE CASES, INCLUDING BUT NOT LIMITED TO BELOW:

- (1) ANY DAMAGE AND LOSS, INCLUDING WITHOUT LIMITATION, DIRECT OR INDIRECT, SPECIAL, CONSEQUENTIAL OR EXEMPLARY, ARISING OUT OF OR RELATING TO THE PRODUCT;
- (2) PERSONAL INJURY OR ANY DAMAGE CAUSED BY INAPPROPRIATE USE OR NEGLIGENT OPERATION OF THE USER;
- (3) UNAUTHORIZED DISASSEMBLE, REPAIR OR MODIFICATION OF THE PRODUCT BY THE USER;
- (4) ANY PROBLEM CAUSING FAILED SIGNAL TRANSMISSION RESULTING IN CONSEQUENTIAL INCONVENIENCE, LOSS OR DAMAGE, ARISING OUT OF CAUSES SUCH AS SYSTEM MALFUNCTION, FAULT, SET UP OR INSTALLATION.
- (5) ANY PROBLEM, CONSEQUENTIAL INCONVENIENCE, OR LOSS OR DAMAGE, ARISING OUT OF THE SYSTEM COMBINED BY THE DEVICES OF THIRD PARTY.
- (6) PERSONAL INJURY, ANY LOSS OR DAMAGE, ARISING OUT OF THE DROP CAUSED BY THE INCOMPLETE INSTALLATION.
- (7) ANY CLAIM OR ACTION FOR DAMAGES, BROUGHT BY ANY PERSON OR ORGANIZATION BEING PHOTOGENIC SUBJECT, DUE TO VIOLATION OF PRIVACY WITH THE RESULT OF THAT SURVEILLANCE-CAMERA'S PICTURE, INCLUDING SAVED DATA, FOR SOME REASON, BECOMES PUBLIC OR IS USED FOR ANY PURPOSE.
- (8) LOSS OF REGISTERED DATA CAUSED BY ANY FAILURE.

■ Network security

As you will use this product connected to a network, your attention is called to the following security risks.

- (1) Leakage or theft of information through this product
- (2) Use of this product for illegal operations by persons with malicious intent
- (3) Interference with or stoppage of this product by persons with malicious intent

It is your responsibility to take precautions such as those described below to protect yourself against the above network security risks.

- Use this product in a secured network not connected to the Internet.
- If this product is connected to a network that includes PCs, make sure that the system is not infected by computer viruses or other malicious entities (using a regularly updated anti-virus program, anti-spyware program, etc.).
- Setting the username and password is required when this unit is accessed from a web browser for the first time.
For details on how to set the username and password, refer to the "Operating Instructions <Browser Guide>" (PDF file).
- Protect your network against unauthorized access by restricting users to those who log in with an authorized user name and password.
- After this unit has been accessed by the administrator, all the web browsers must be closed without fail.
- The administrator's password must be changed at regular intervals.
- Apply measures such as user authentication for the servers and the connected devices to protect your network against leakage or theft of information, including image data, authentication information (user names and passwords), alarm mail information, FTP server information, etc.

Precautions

■ Operating precautions

- This unit is for indoor use only.
It cannot be used outdoors.
Avoid installation in a location where the unit will be exposed to direct sunlight for extended periods or near a cooling or heating appliance.
Otherwise, deformation, discoloration, malfunctioning and/or problems in operation may result. Operate the unit where it will not be splashed or sprayed by water.
- Handle the unit carefully. This product uses parts that may be damaged by improper handling or storage.
- Do not use this unit in an atmosphere where there are flammable gases. Otherwise, an explosion may occur, resulting in injuries.
- Do not install this unit in a location that is susceptible to salt damage or where corrosive gases are given off. Otherwise, the mounting parts will deteriorate, and this unit may fall, resulting in injury or accidents.
- Tighten the screws and bolts using the designated torque. Otherwise, this unit may fall, resulting in injury or accidents.
- Install this unit on a surface that can bear its weight. Otherwise, this unit may fall or topple over, resulting in injury or accidents. Installation work should be started only after sufficient reinforcement is completed.
- Insert the AC plug completely. If the plug is not inserted completely, fire due to overheating or electric shock may result. Do not use a damaged plug or loose AC outlet.
- Do not pull or insert the AC plug if your hands are wet. Electric shock may result.
- Do not place containers with water or other liquids on top of or around the device. If water or other liquids get inside this unit, a fire or electric shock may result. Immediately disconnect the power plug, and contact the store where you purchased this unit.
- Do not insert foreign objects. If water or metal objects get inside this unit, a fire or electric shock may result. Immediately disconnect the power plug, and contact the store where you purchased this unit.
- Do not disassemble this product. Otherwise, it may cause fire or electric shock.
- Do not do anything that may damage the AC cord or the AC plug. Do not damage or modify the cord, place it near hot tools, bend, twist, or pull it forcefully, place heavy objects on it, or bundle it tightly. Continuing to use a damaged cord may result in fire, short circuit, or electric shock. If the cord or plug needs to be repaired, consult the store where you purchased this unit.

- Do not attempt to install this unit or proceed with any connections during a thunderstorm. Otherwise, it may cause fire or electric shock.
- Stop operation immediately if the unit emits smoke, excessive heat or abnormal smell. These conditions can cause fire or electric shock. Immediately disconnect the power plug, and contact the store where you purchased this unit.
- Do not use this equipment close to an automatic control equipment like an automatic door fire alarm and so on. Radio waves from this equipment may cause the trouble by a malfunction for automatic equipment.
- Do not put this product close to a medical equipment. (Do not bring this product into operating room, intensive care units (ICU) and coronary care units (CCU).) Radio waves from this equipment may cause the trouble by a malfunction for medical equipment.
- Ask the store where you purchased this unit to do the installation work. Expertise and experience are required to install this unit. Otherwise, injuries or damage to this unit may result. Be sure to ask the store where you purchased this unit to perform this work.
- Do not put this product on a place with moisture or dirt. There is the risk of injury.

Touch panel

- Perform touch panel operations using only one finger. If two or more fingers come into contact with the panel at the same time, the touch panel may not operate properly.
- Do not use a ballpoint pen or other hard-tipped or sharp object, including fingernails, to perform touch panel operations.
- Do not press on the LCD display with too much force.
- Do not use any of the LCD protective films available on the market. (The touch panel may not operate properly.)
- The inside of the LCD display may become cloudy or condensation (droplets of water) may form and the display may not operate properly when the temperature changes suddenly, such as immediately after air-conditioning or heating has been turned on. If this occurs, leave this unit for about one to two hours before attempting to use it again.

To cut the power supply

This product has no power switch. To cut the power supply, unplug the power plug of the product from the AC outlet. If it is hard to unplug the power cord due to the installation conditions, connect the power cord of the product to the AC outlet via the circuit breaker of a distribution board or to the AC inlet socket of a power supply control unit.

Built-in backup battery

Do not expose the built-in backup battery to excessive heat, such as direct sunlight or fire.

Camera image update speed

The image update speed may be slower, depending on the network environment used, the number and setting of cameras, the subjects, and number of accesses.

SDHC/SD cards

- Before using an unformatted SDHC or SD card, format it first using the Center Module. When a card is formatted, whatever has been recorded on it will be erased. If an unformatted SDHC or SD card or an SDHC or SD card formatted on a unit other than the Center Module is used, it may not work properly or its performance may be compromised.
- When some SDHC or SD cards are used in this unit, they may not work properly or their performance may be compromised. Use of the recommended SDHC and SD cards is recommended.

Recommended SDHC and SD cards

Manufactured by Panasonic (sold separately)

SDHC cards: 4 GB, 8 GB, 16 GB, 32 GB

SD cards: 2 GB

(Excluding miniSD cards and microSD cards)

- In many cases when SD cards are formatted or their data is erased or deleted using the functions of the Center Module or a personal computer, the data on the cards may not be erased completely. Before handling a card over to another party, it is recommended that you use a commercially available PC software application for erasing data to erase the data on the card completely.
- When SD cards are to be disposed of, either break them physically or erase the data on them completely, separate them in the garbage and dispose of them following the regulations that are enforced in the locality concerned.

Cleaning the touch panel

- It is recommended that the touch panel be cleaned at regular intervals.
- If there is any noticeable dirt, dust, oil, grease, etc. on the touch panel, clean it immediately.
- Wipe off the dirt or dust gently using a soft dry cloth.
- You may damage the LCD display if you wipe or press the touch panel too forcefully or subject the display to impact or heavy loads.
- Do not use liquid or spray cleaners. The touch panel functions may be impaired as a result.
- Do not allow products made of rubber or PVC to remain in contact with the touch panel for prolonged periods of time. Doing so may cause discoloration or deterioration.
- Do not use benzene, paint thinners, adhesives, alkali- or alcohol-based cleaning agents, glass cleaners, waxes, abrasive cleansers, powdered cleaners, insecticides, etc. Doing so may cause colors and texture to be degraded. (When using a chemical cloth for cleaning, read the caution provided with the chemical cloth product.)

Precautions

■ Installation precautions

WARNING: In order to safeguard against injury, this device must be mounted on a wall, following the steps in the Operating Instructions.

Panasonic assumes no responsibility for injuries or property damage resulting from failures arising out of improper installation or operation inconsistent with this documentation.

Avoid installing in the following locations.

- Locations exposed to direct sunlight
- Locations subject to having strong vibration or impact
- Locations which are not level
- Locations under the air conditioner
- Locations near the fryer
- Locations near the grill
- Locations where a chemical agent is used such as a swimming pool
- Locations near magnetic field sources such as a television or speakers
- Locations where condensation forms easily, where temperature changes greatly, humid places
- Locations subject to dust
- Locations subject to water splash or spray
- Locations where radiation or x-ray emissions are produced

The accessory power cord is to be used only with this unit.

Do not use it for any other devices. Similarly, do not use the power cords of other devices with this unit.

Grounding

Confirm that the wire is connected from the SIGNAL GND terminal to earth ground. A grounding connection must be made before connecting the power plug or this product to the main power supply. When disconnecting the grounding wire, make sure that the power plug of this product is disconnected from the main power supply.

Power supply used

The supply voltage of this unit is AC 100 V to 120 V (50 Hz/60 Hz). Connect this unit to a power supply with a sufficiently high capacity.

To cut the power supply

This product has no power switch. To cut the power supply, unplug the power plug of the product from the AC outlet. If it is hard to unplug the power cord due to the installation conditions, connect the power cord of the product to the AC outlet via the circuit breaker of a distribution board or to the AC inlet socket of a power supply control unit.

Be sure to connect the power cord via any of the following breaking devices:

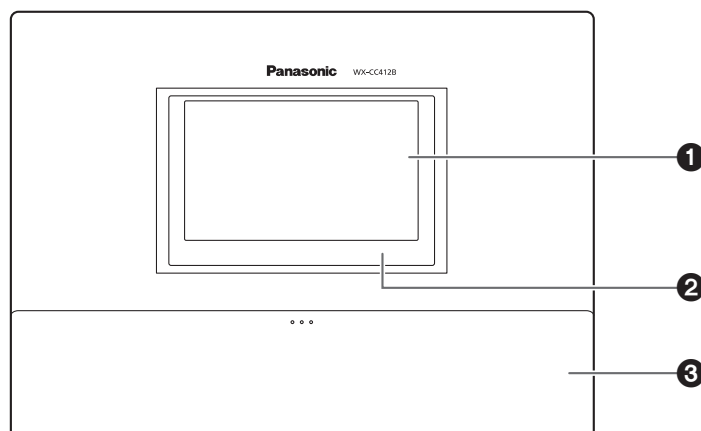
- Connect the power cord via a power supply control unit.
- Install the product near a power outlet, and connect the power cord via the power plug.
- Connect the power cord to the breaker with contact gap of 3.0 mm or more of a distribution board. The breaker shall be able to shut down all the poles of the main power supply except the ground protective conductor.

Setting the time

Before operating this unit, you must set the time. For how to set the time, refer to the Operating Instructions <Setup Instructions>.

Major operating controls and their functions

■ Front panel



① LCD display

This is a 7-Type color LCD display. It indicates this unit's operational status and details of its operations and settings.

② Touch panel

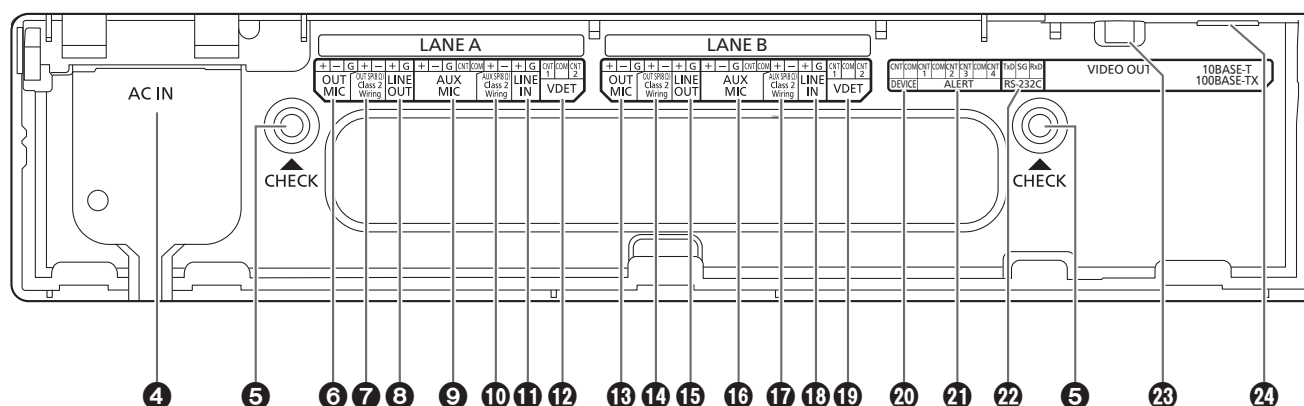
This is a 7.8-Type touch panel. It is used to operate this unit.

③ Terminal cover

This is where the "Euroblock" (a European-style terminal block) for the audio input/output signals and control input/output signals is housed.

Major operating controls and their functions

Terminal block



4 Power input terminal [AC IN]

Connect the accessory power cord to this terminal. After connecting it, secure the cord using the power cord clamp. (Refer to p.28 "Securing the power cord".)

5 Confirmation window [CHECK]

This window is used for confirmation purposes when this unit is installed.

6 Lane A mic input [OUT MIC]

This is connected to the microphone for the order post installed in lane A.

7 Lane A speaker output [OUT SP (8 Ω) Class2 Wiring]

This is connected to the speaker for the order post installed in lane A.

8 Lane A line output [LINE OUT]

The same communication that is output from OUT SP of lane A is output.

9 Lane A kitchen mic input [AUX MIC]

This is connected to the gooseneck microphone installed in the lane A kitchen. It is used to speak with the customer who has arrived at the order post for lane A.

10 Lane A kitchen speaker output [AUX SP (8 Ω) Class2 Wiring]

This is connected to the speaker installed in the lane A kitchen. It is used to speak with the customer who has arrived at the order post for lane A.

11 Lane A line input [LINE IN]

External communications can be broadcast simultaneously to all the All-In-One Headsets or Belt Packs and to the lane A kitchen speaker.

12 Lane A vehicle detector input [VDET]

This is connected to the vehicle detector installed in lane A. Or it is connected to the external button for calling store personnel from customers at the order post (VDET 1 only).

13 Lane B mic input [OUT MIC]

This is connected to the microphone for the order post installed in lane B.

14 Lane B speaker output [OUT SP (8 Ω) Class2 Wiring]

This is connected to the speaker for the order post installed in lane B.

15 Lane B line output [LINE OUT]

The same communication that is output from OUT SP of lane B is output.

16 Lane B kitchen mic input [AUX MIC]

This is connected to the gooseneck microphone installed in the lane B kitchen. It is used to speak with the customer who has arrived at the order post for lane B.

17 Lane B kitchen speaker output [AUX SP (8 Ω) Class2 Wiring]

This is connected to the speaker installed in the lane B kitchen. It is used to speak with the customer who has arrived at the order post for lane B.

18 Lane B line input [LINE IN]

External communications can be broadcast simultaneously to all the All-In-One Headsets or Belt Packs and to the lane B kitchen speaker.

19 Lane B vehicle detector input [VDET]

This is connected to the vehicle detector installed in lane B.

Or it is connected to the external button for calling store personnel from customers at the order post (VDET 1 only).

20 External control output [DEVICE]

This external control output is used for alerts.

Using this unit's settings, this connector is controlled in response to the reception of alert signals from the All-In-One Headsets or Belt Packs and to the signals from the alert input.

21 Alert input [ALERT]

This external input connector is used for alerts. It is connected to a sensor or other external device.

Or it is connected to the external button for switching Speed Team ON/OFF (ALERT 4 only).

22 Serial port [RS-232C]

This port is for controlling the system from a personal computer.

For details, contact the store where you purchased this unit.

23 Video output [VIDEO OUT]

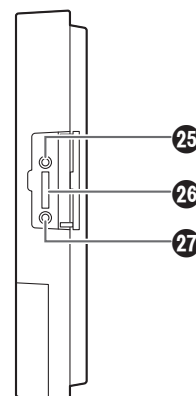
This NTSC type of composite connector is for outputting camera images.

For details, contact the store where you purchased this unit.

24 Network port [10BASE-T/100BASE-TX]

This is connected to a 10BASE-T or 100BASE-TX network, and it connects the Network Camera with the Center Module.

Side panel



25 Reset button

Press this button using a fine-tipped object when this unit is not operating properly to restart this unit.

26 SD card slot

This is where an SD card is inserted.

27 SD card access LED

This indicates the status of the SD card access. While the SD card is being accessed, it blinks in green.

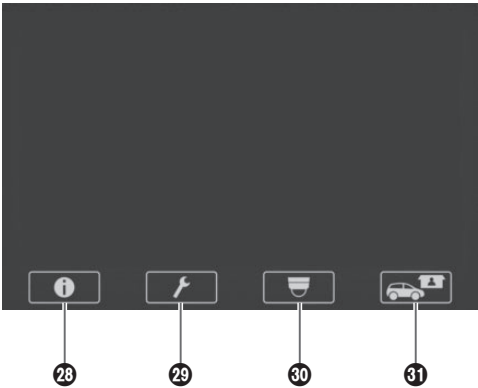
Important

- While the SD card access LED is blinking, do not eject the SD card, disconnect the power plug or press the reset button. Performing any of these actions may destroy the data on the card.

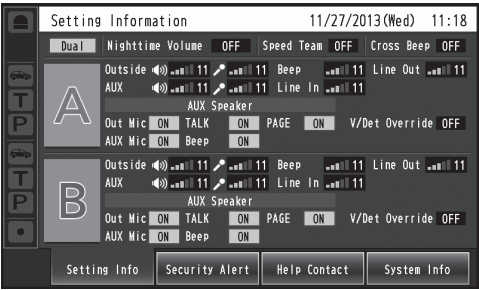
Major operating controls and their functions

Screen

The following four buttons, which are separate from the LCD display buttons, are permanently displayed on the touch panel.



28 Setting Information button
This button is used to display the settings and statuses. (Refer to p.20 “Setting Information screen”.)



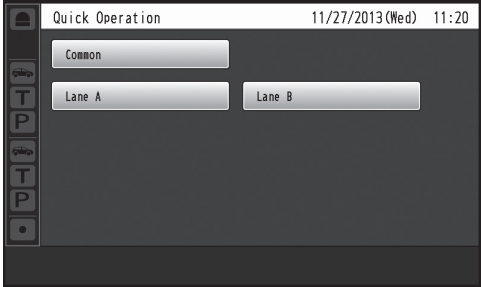
30 Camera display button
This button is used to display the images of the Network Cameras that have been registered. (Refer to p.23 “Camera monitoring screen”.)



29 Setting button
This button is used to display the password input screen. After the password has been confirmed, the setting list screen is displayed. (Refer to p.22 “Password input screen”.)



31 Quick Operation button
This button is used to display the Quick Operation screen that is used with drive-thru operations. (Refer to p.23 “Quick Operation screen”.)

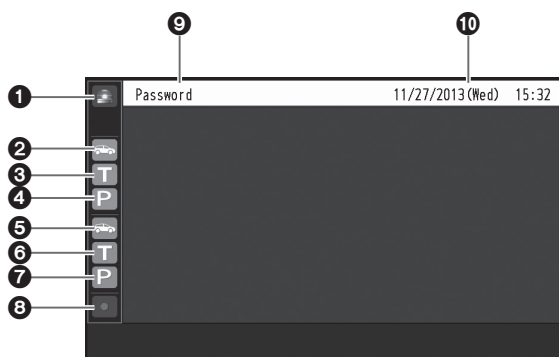


A password settings screen is displayed when you start the Center Module for the first time. Set a password. (Refer to p.22 “Password settings screen”.)

Description of screens

Basic screen

The basic screen that appears on the LCD display is described below.



1 Security Alert display



When an alert signal has been received from an external device or an All-In-One Headset or Belt Pack, this is displayed in red.

2 Vehicle detection display (lane A)



When a vehicle has arrived at the order post for lane A, this is displayed in orange.

3 Talk display (lane A)



While the store personnel are talking to the customer in lane A, this is displayed in orange.

4 Paging display (lane A)



While the store personnel at lane A are talking to one another, this is displayed in orange.

5 Vehicle detection display (lane B)



When a vehicle has arrived at the order post for lane B, this is displayed in green.

6 Talk display (lane B)



While the store personnel are talking to the customer in lane B, this is displayed in green.

7 Paging display (lane B)



While the store personnel at lane B are talking to one another, this is displayed in green.

8 REC button



When a communication is being recorded after a security alert has occurred, this is displayed in red.

9 Title display

The title of the screen currently displayed appears.

10 Date & time display

The current date and time are displayed.

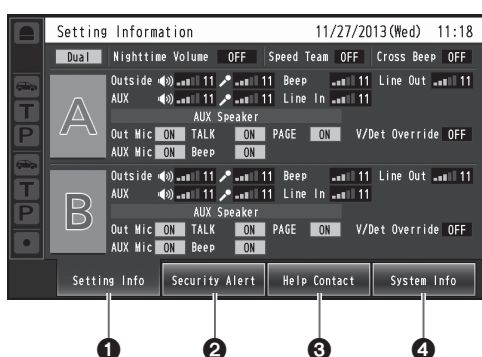
"*" appears in front of the time display during daylight savings time (summer time).

- The date and time on this unit is set with the following order: month / day / year hour:minute
- The time is displayed as a 24-hour clock.

Description of screens

■ Setting Information screen

The Setting Information screen appears when  (Setting Information button) on the touch panel is touched. This unit's settings and statuses can be confirmed on this screen.



1 Setting Info [Setting Info]

When the Setting Info button is touched, the display on the LCD display switches to the setting list screen.

2 Security Alert [Security Alert]

When the Security Alert button is touched, the display on the LCD display switches to the Security Alert screen. (P.21)

3 Help Contact [Help Contact]

When the Help Contact button is touched, the display on the LCD display switches to the Help Contact screen. (P.22)

4 System Information [System Info]

When the System Info button is touched, the screen on the LCD display switches to the System Info screen. (P.22)

1 Lane name display [A] ([B])

The lane name is displayed. The lane setting statuses are displayed to the right of the lane name display. When the WX-CC412BP is used, lane B is also displayed underneath lane A.

2 Lane mode display [Single/Dual/Tandem]

Lane mode that has been set is displayed.

WX-CC411BP: [Single] is displayed.

WX-CC412BP: [Dual] is displayed when the tandem lane setting is OFF, and [Tandem] is displayed when it is ON.

3 Nighttime Volume display [Nighttime Volume ON/OFF/AUTO]

The setting status of the volume of the order post speaker at night is displayed.

Note

- The "Nighttime Volume" is a function that is used to adjust the volume level of the voice output from the order post speaker.

4 Speed Team display [Speed Team ON/OFF]

The status of the speed team operation is displayed.

Note

- "Speed Team operation" refers to a mode of operation in which, at busy times when there are more vehicles than the lanes can accommodate, normal operation is suspended, the vehicle detectors are shut off, and the store personnel go directly to the customers in their vehicles to take their orders.

5 Cross Beep display [Cross Beep ON/OFF]

The Cross Beep status is displayed.

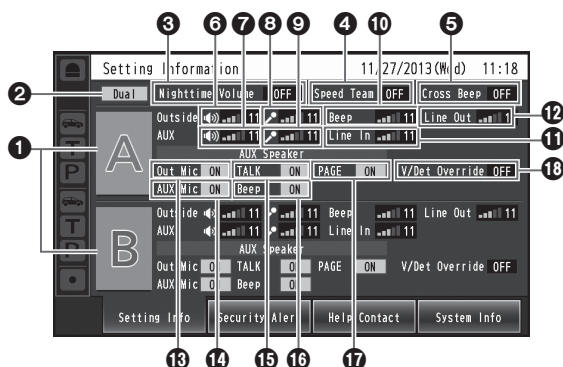
This appears only when the WX-CC412BP is used.

Note

- "Cross Beep" is a function that sends the beep tone announcing the arrival of customers across the two lanes.

Setting list screen

The setting list screen is displayed when the unit's power is turned on or when the [Setting Info] button is touched.



6 Lane A order post speaker volume display [Outside]

The volume level of the lane A order post speaker is displayed.

7 Lane A kitchen speaker volume display [AUX]

The volume level of the lane A kitchen speaker is displayed.

8 Lane A order post microphone volume display [Outside]

The volume level of the lane A order post microphone is displayed.

9 Lane A kitchen microphone volume display [AUX]

The volume level of the lane A kitchen microphone is displayed.

10 Lane A beep tone volume display [Beep]

The volume level of the lane A beep tone is displayed.

11 Lane A line input volume display [Line In]

The volume level of the lane A line input is displayed.

12 Lane A line output volume display [Line Out]

The volume level of the lane A line output is displayed.

13 Lane A order post microphone ON/OFF display [Out Mic ON/OFF]

The setting that determines whether to output the voice of the lane A order post microphone to the lane A kitchen speaker is displayed.

14 Lane A kitchen microphone ON/OFF display [AUX Mic ON/OFF]

The setting that determines whether to output the voice of the lane A kitchen microphone to the lane A kitchen speaker is displayed.

15 Lane A talk ON/OFF display [TALK ON/OFF]

The setting that determines whether to output the talk voice to the lane A kitchen speaker is displayed.

Note

- “Talk” refers to communications between the customers and store personnel.

16 Lane A beep tone ON/OFF display [Beep ON/OFF]

The setting that determines whether to output the beep tone to the lane A kitchen speaker is displayed.

17 Lane A paging ON/OFF display [PAGE ON/OFF]

The lane A paging setting is displayed.

Note

- “Paging” refers to communications among store personnel.

18 Lane A V/Det Override ON/OFF display [V/Det Override ON/OFF]

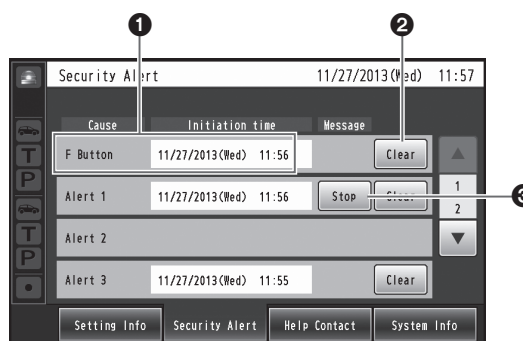
The status of the lane A V/Det Override is displayed.

Note

- “V/Det Override” is a function that sets the vehicle detectors virtually to ON and keeps both the order post microphone and speaker in the ON setting.

Security Alert screen

The Security Alert screen appears when the [Security Alert] button on the Setting Information screen is touched.



1 Cause and Initiation time

The cause of a security alert that has occurred and the initiation time are displayed.

[F Button] : Sent from the store personnel who have All-In-One Headsets or Belt Packs.

[Alert 1 to 4] : Sent from alert input 1 to 4.

2 Clear button [Clear]

This is touched to forcibly clear the Security Alert.

3 Stop button [Stop]

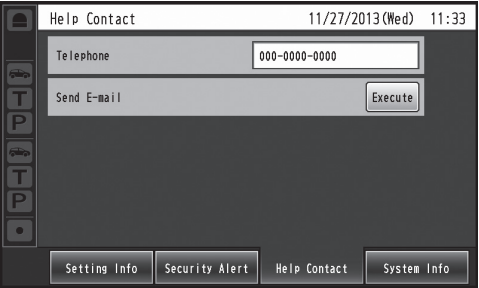
This is touched when the Alert Message for the Security Alert is to be stopped.

This appears when “Alert message playback” has been set for operations to be performed when a Security Alert has occurred.

Description of screens

Help Contact screen

The Help Contact screen appears when the [Help Contact] button on the LCD display is touched.



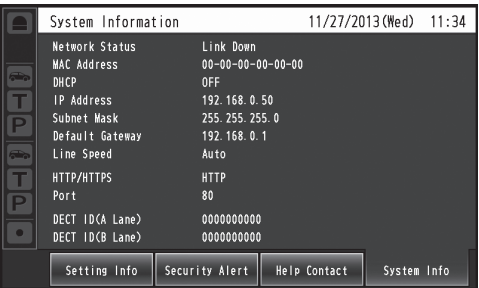
The emergency help contact is displayed on this screen. It can be set on the setting screen. If an email has been set using the browser ahead of time, an email can be sent from this screen.

Note

- It is not possible to display the email send result even when, for instance, an email failed to be sent because the server was down or the wrong email was set. When installing this unit, check that emails can be correctly sent ahead of time.

System Info screen

The System Info screen appears when the [System Info] button on the LCD display is touched.

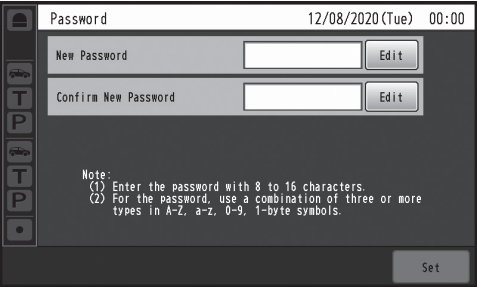


Network statuses are shown on this screen.

Password settings screen

Set the password after starting the Center Module for the first time.

The password setting screen appears when  (setting button) on the touch panel is touched. (Refer to p.34 "Inputting characters".)



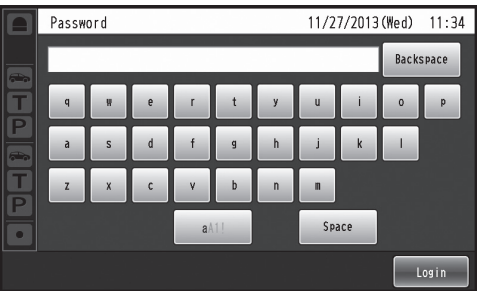
Note

- Input a password of between 8 and 16 characters.
- Of the four types of characters, lower-case, upper-case, numerals, and symbols, use at least three types of characters in the password.

Password input screen

The password must be input for verification before operation moves to the setting screen.

The password input screen appears when  (setting button) on the touch panel is touched. (Refer to p.34 "Inputting characters".)

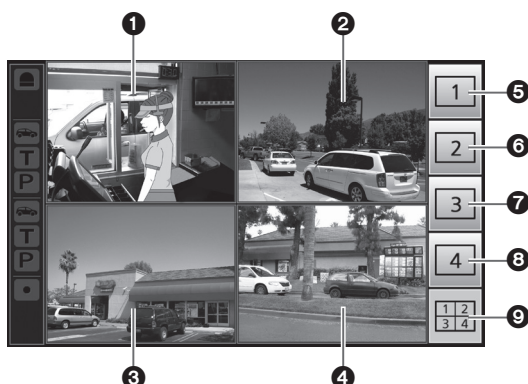


Important

- Change the password at regular intervals for security purposes.

■ Camera monitoring screen

The camera monitoring screen appears on the LCD display when  (camera display button) on the touch panel is touched.



① Camera 1 screen

Images from Network Camera 1 appear on this part of the screen.

② Camera 2 screen

Images from Network Camera 2 appear on this part of the screen.

③ Camera 3 screen

Images from Network Camera 3 appear on this part of the screen.

④ Camera 4 screen

Images from Network Camera 4 appear on this part of the screen.

⑤ Camera 1 full-screen display button

When this button is touched, images from Network Camera 1 are displayed in full-screen mode.

⑥ Camera 2 full-screen display button

When this button is touched, images from Network Camera 2 are displayed in full-screen mode.

⑦ Camera 3 full-screen display button

When this button is touched, images from Network Camera 3 are displayed in full-screen mode.

⑧ Camera 4 full-screen display button

When this button is touched, images from Network Camera 4 are displayed in full-screen mode.

⑨ 4-screen simultaneous display button

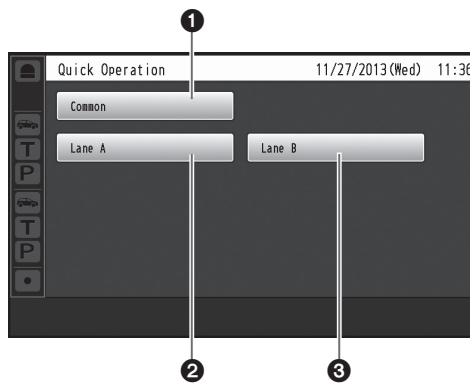
When this button is touched, the screen is split into four parts, and the images from Network Cameras 1, 2, 3 and 4 are displayed simultaneously.

Note

- When a camera image is touched while the screen is split into four parts and images are displayed simultaneously, the touched image is displayed in full-screen mode.

■ Quick Operation screen

The Quick Operation screen appears on the LCD display when  (Quick Operation button) on the touch panel is touched.



① Common button

This button is used to display the Quick Operation screen that is common to both lanes.

② Lane A button

This button is used to display the Quick Operation screen for lane A.

③ Lane B button

This button is used to display the Quick Operation screen for lane B.

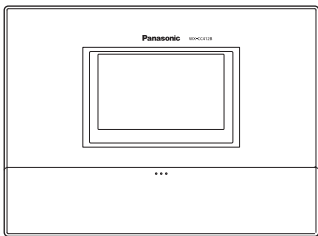
Note

- The lane B button is displayed only when the WX-CC412BP is used.

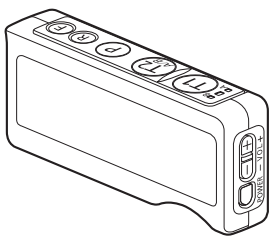
Related devices

Devices related to the wireless intercom system are listed below.

◆Center Module
WX-CC411BP/WX-CC412BP



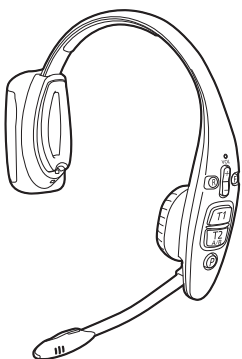
◆Belt Pack
WX-CT420



◆Headset
WX-CH427



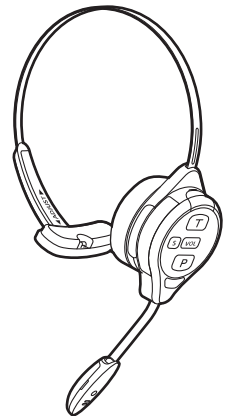
◆All-In-One Headset
WX-CH450



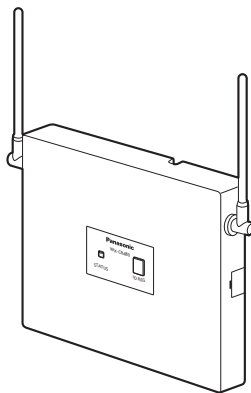
WX-CH455



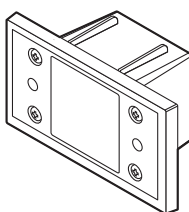
WX-CH457P



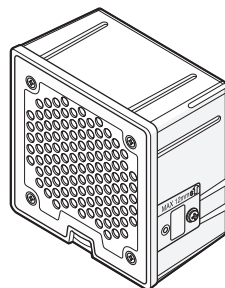
◆Wireless Repeater
WX-CR480P



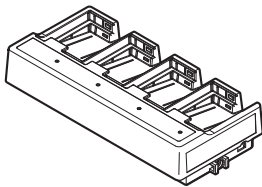
◆Microphone
WX-CM470P



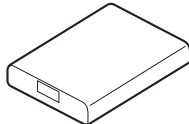
◆Speaker Microphone
WX-CS560



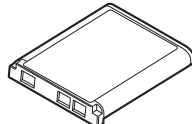
◆Battery Charger
WX-Z3040A



◆Battery
WX-B3030



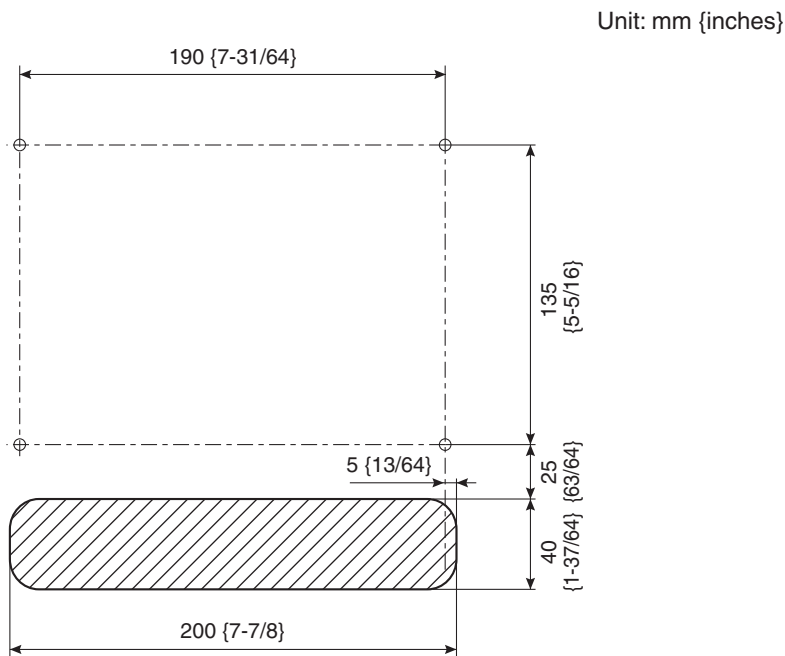
WX-SB100



Installation procedures

Deciding on where to install the Center Module

Select a wall on which to mount this unit, drill a hole in it to pass the wires through, and decide where the four screws are to be positioned, as shown below.

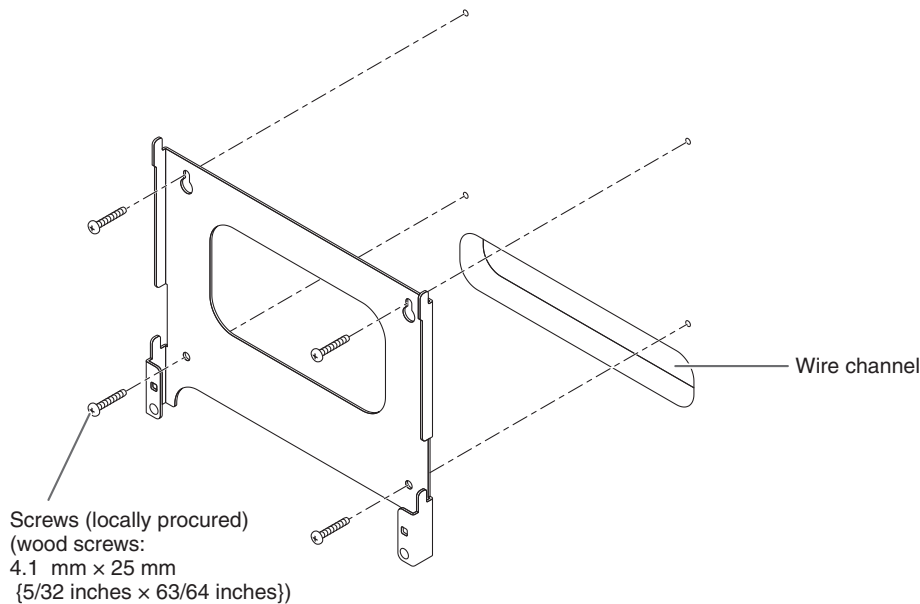


Important

- Ensure that the installation surface has the pull-out strength below.

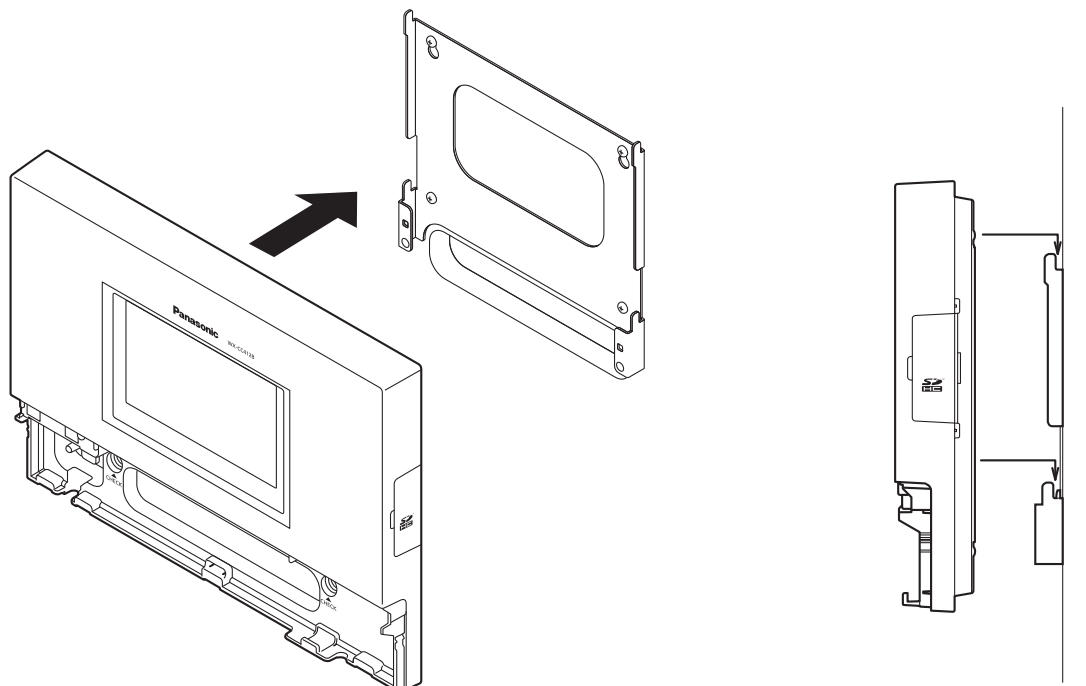
Installation

- 1 Mount this unit using the accessory wall mounting bracket and 4 screws (4.1 mm × 25 mm {5/32 inches × 63/64 inches}).
[Minimum pull-out strength: 780 N {80 kgf}]

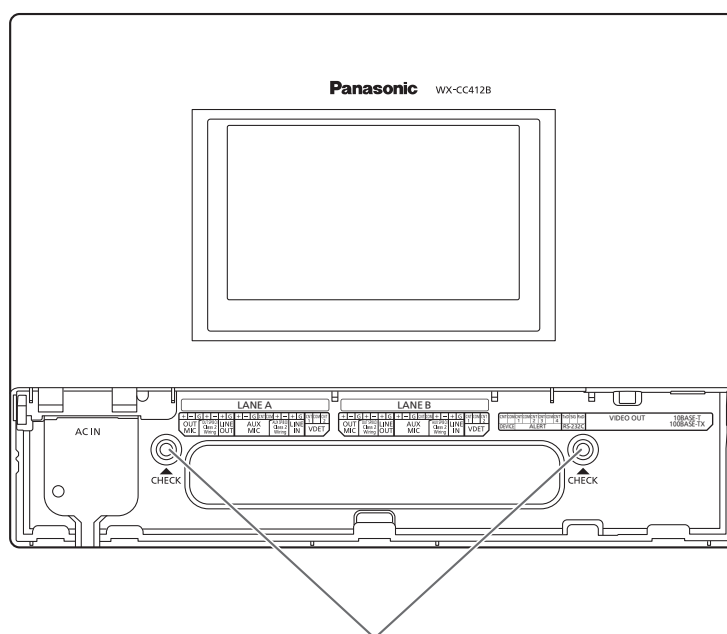


Installation procedures

- 2 Mount this unit onto the four hooks of the wall mounting bracket.

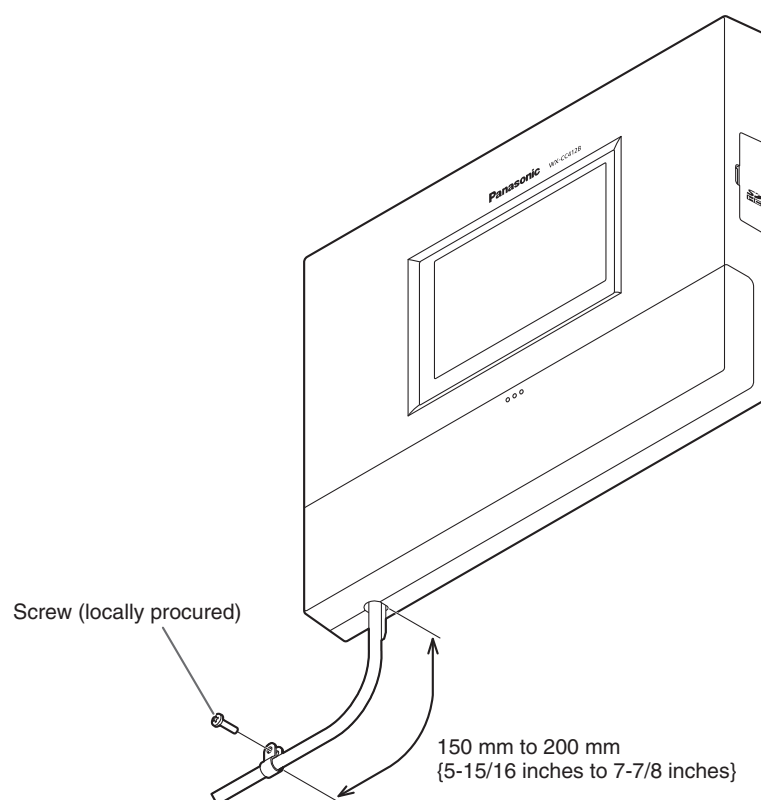


- 3 Look at the confirmation window (which is marked “CHECK”), and confirm that this unit fits properly into place.



Check that the “O” marks of the wall mounting bracket are visible.
If they are not visible, this means that this unit has not been installed properly.

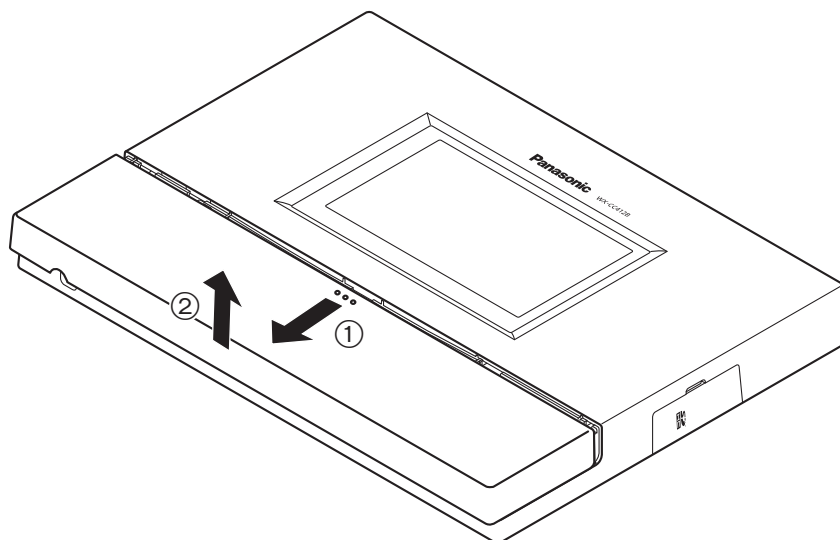
-
- 4** Use the accessory clamp to secure the power cord to the wall and attach the clamp using a screw (4.1 mm × 25 mm {5/32 inches × 63/64 inches}).
[Minimum pull-out strength: 780 N {80 kgf}]



Connections

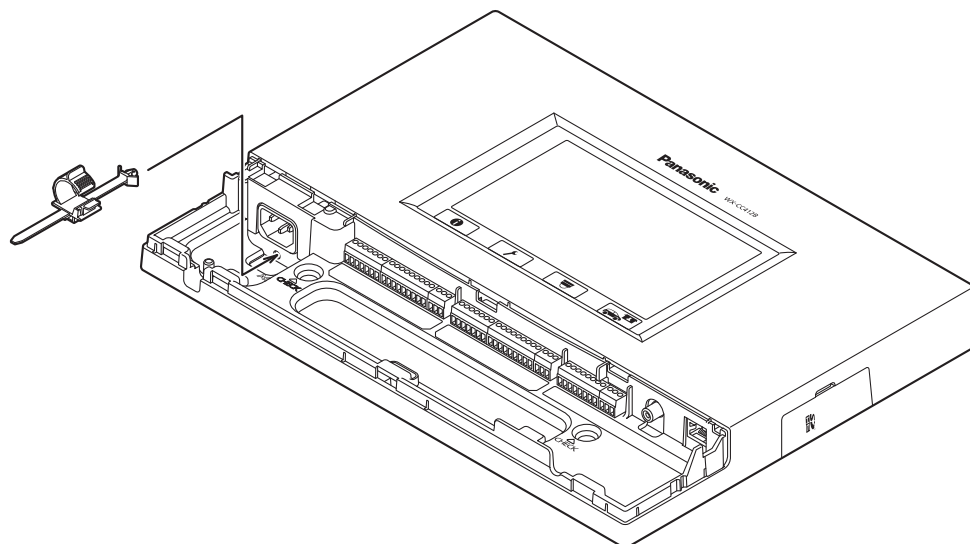
■ Opening the connector cover

Press on the area indicated by ① and slide the connector cover down, and pull the bottom part of the cover toward you as indicated by ②.

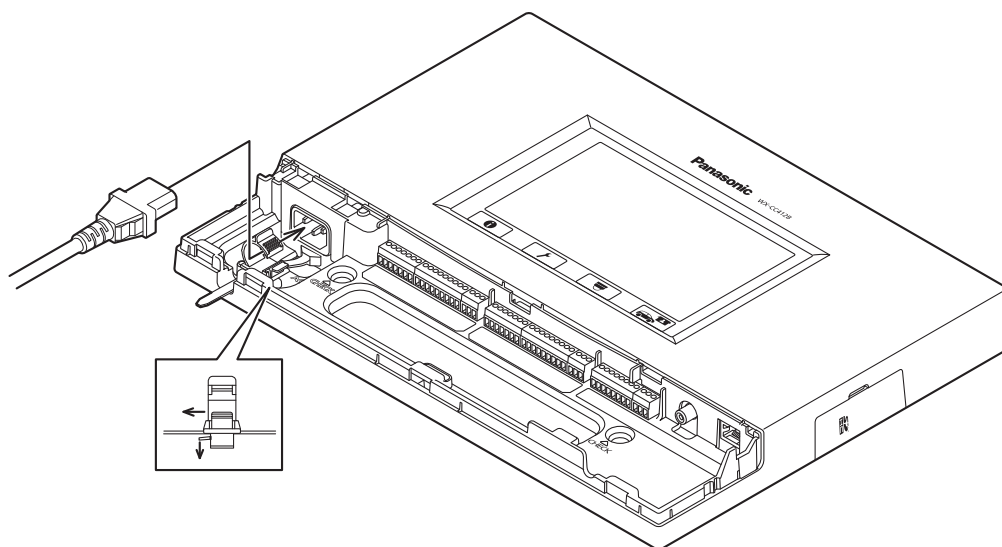


■ Securing the power cord

- 1 Insert the accessory power cord clamp into this unit.

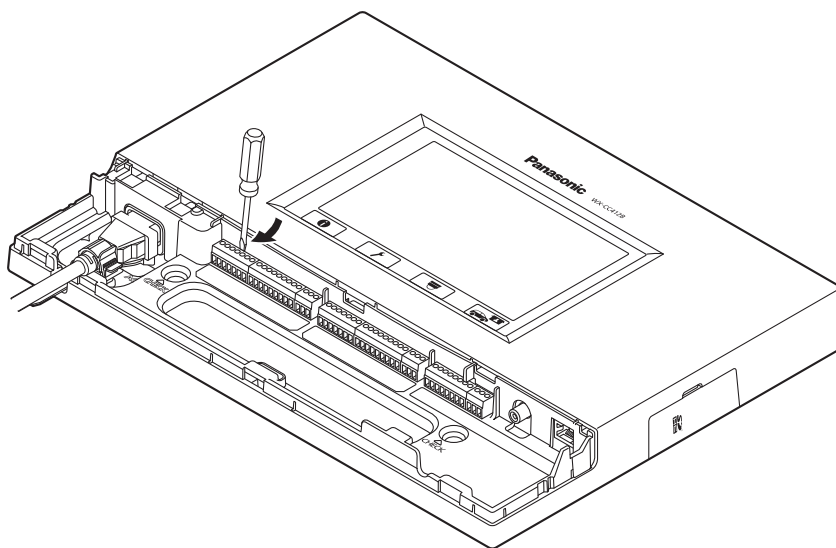


- 2** Before proceeding any further, push down the position of the power cord clamp inserted into this unit, as shown in the figure below. Insert the power cord plug into the power socket of this unit, adjust the position of the power cord clamp, and secure the power cord.



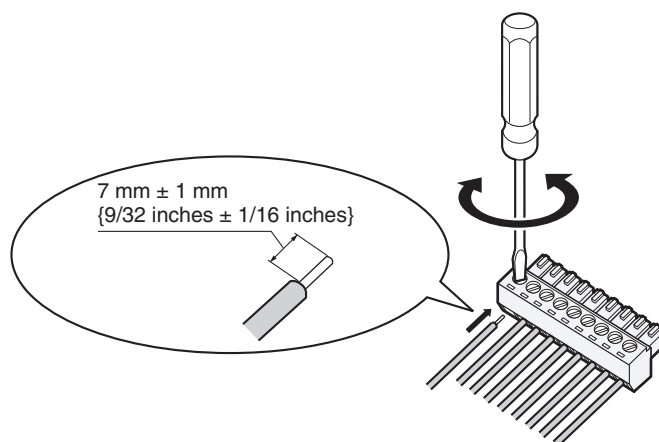
■ Wiring the Euroblock connector

- 1** A detachable Euroblock connector is provided for this unit's connectors. As shown in the figure below, insert a slot-head screwdriver into the gap, and remove the Euroblock connector from this unit.



Connections

- 2 Connect the wires to the Euroblock connector. Using a slot-head screwdriver, loosen the Euroblock connector screws in turn, peel off the insulating material around each of the wires, twist the conductors firmly, insert the ends of the conductors into the Euroblock connector, and tighten the Euroblock connector screws.



Note

Shaping the cables

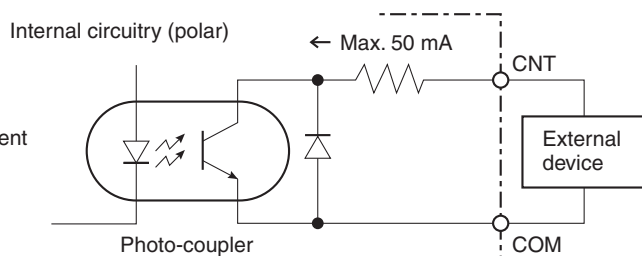
- Recommended wires: AWG28 to 16 (Do not use soldered wires.)
- Length of insulating material to be peeled off: 7 mm ± 1 mm {9/32 inches ± 1/16 inches}
- Screw diameter: $\varnothing$ 2 mm {3/32 inches}
- Check that the wires have been connected securely.

Electrical specifications of connectors

- DEVICE CNT and DEVICE COM connectors

Connect an external device between the CNT and COM connectors. These connectors are isolated from the internal circuitry using a photo-coupler.

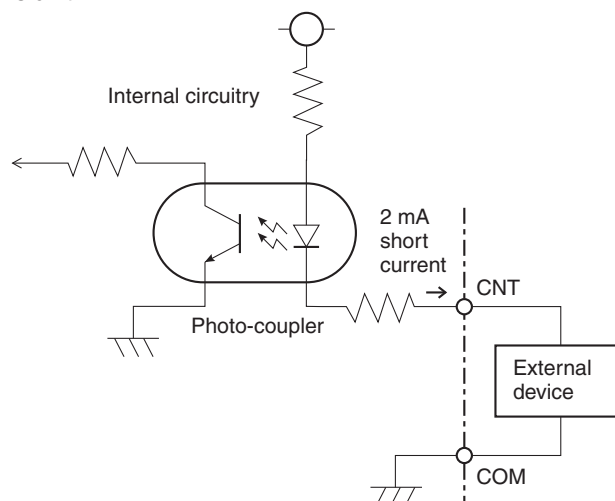
Electrical specifications:
30 V control voltage, 50 mA control current



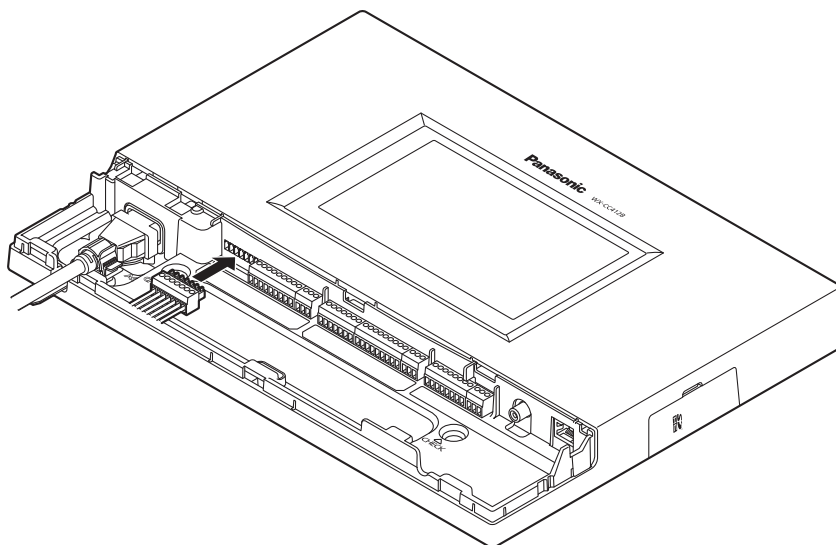
- ALERT CNT and ALERT COM connectors

Connect an external device between the CNT and COM connectors. These connectors operate by a “make” action. The COM connector is connected to the GND inside this unit.

Electrical specifications:
DC 5 V open voltage, 2 mA short current



3 Install the Euroblock connector, to which the wires have been connected, in this unit.

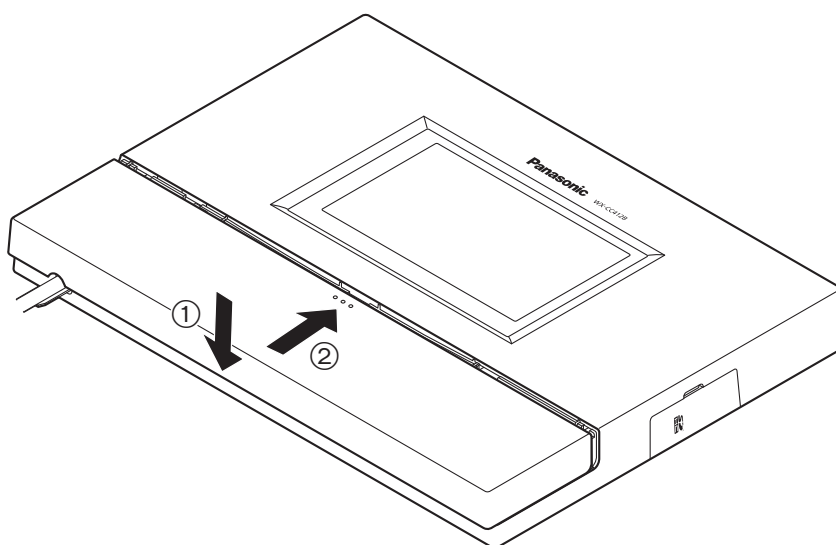


Note

- Insert the Euroblock connector firmly into this unit.

■ Attaching the connector cover

Slide the connector cover from below, and attach it to this unit.

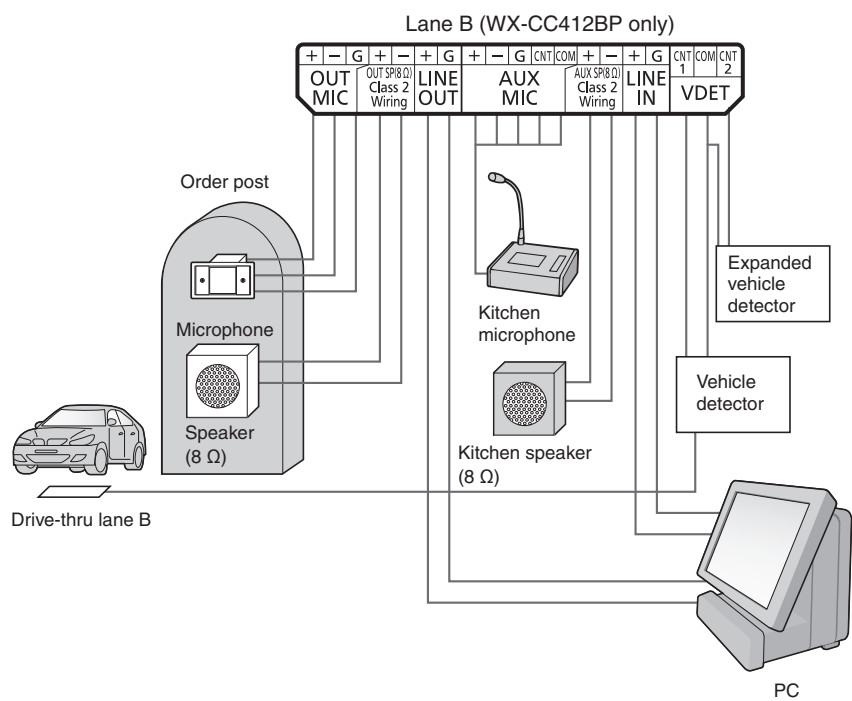
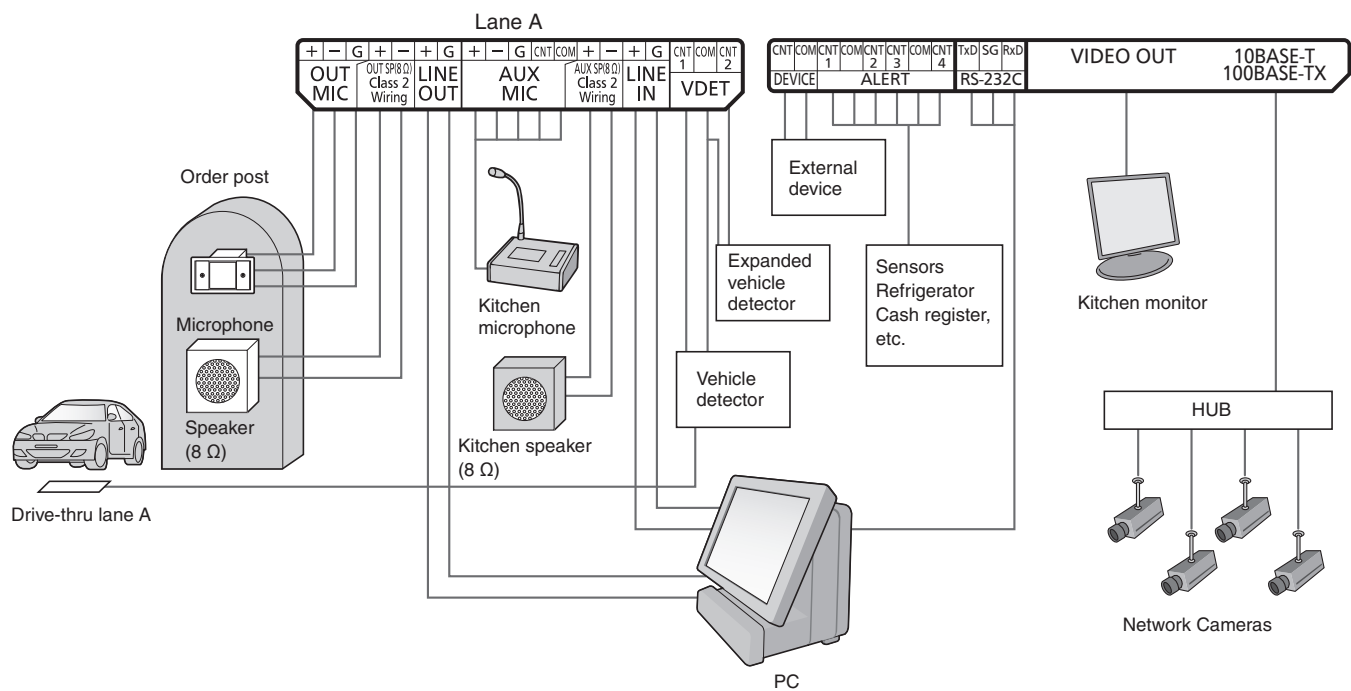


Note

- Attach the connector cover securely to this unit.

Connections

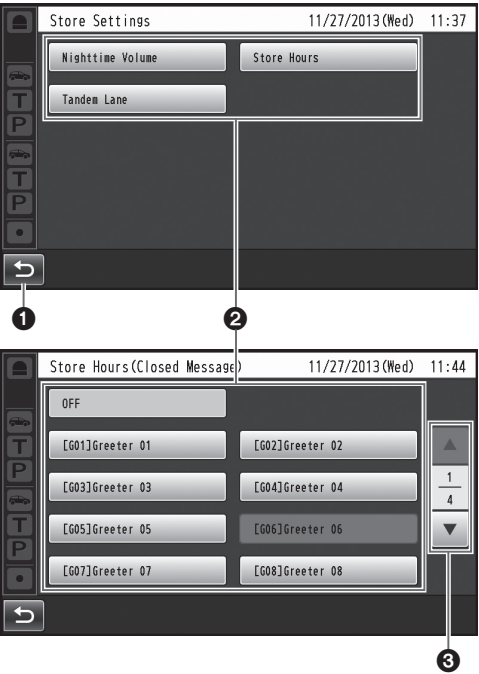
Examples of connections



Screen operations

Basic screen operations

This section describes basic screen operations. For details on how to operate the unit and select its settings, refer to the “Operating Instructions <Setup Instructions>” (PDF file).



1 Return button

This button is used to return to the previous screen.

2 Item selector buttons

Operation moves to the screen corresponding to the button that has been touched. On the setting screen, one of the buttons is selected (indicated in orange). The buttons have different names, depending on the situation.

3 Page selector buttons

These buttons are used to select the page when the screen extends over a multiple number of pages. When the ▼ button is touched, the next page screen is displayed, and when the ▲ button is touched, the previous page screen is displayed.

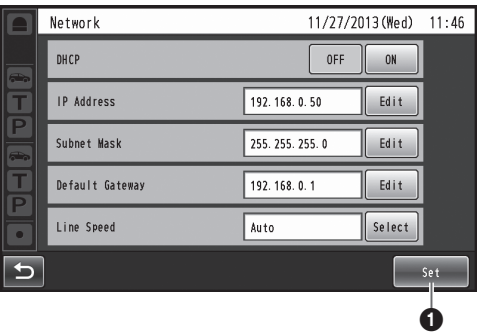
Note

- The LCD display is easily scratched, so always perform the operations involving this display using one finger.
- Do not use a ballpoint pen or other hard-tipped or sharp object, including fingernails, to perform touch panel operations.
- Do not press on the LCD display with too much force.
- Do not use any of the LCD protective films available on the market. (The touch panel may not operate properly.)
- The inside of the LCD display may become cloudy or condensation (droplets of water) may form and the display may not operate properly when the temperature changes suddenly, such as immediately after air-conditioning or heating has been turned on. If this occurs, leave this unit for about one to two hours before attempting to use it again.

English

Entering the settings

On a screen with multiple setting items, touch the [Set] button to confirm a setting.



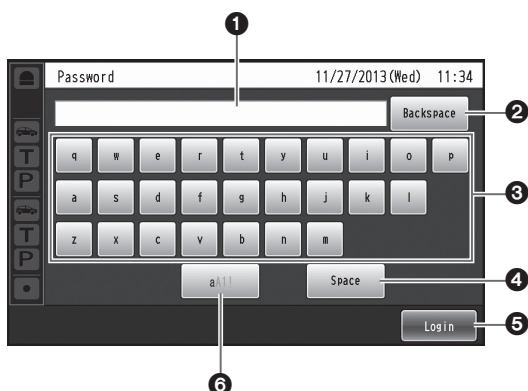
1 Set button

This button confirms all multiple settings displayed on the screen together.

Screen operations

Inputting characters

Use the keys on the keyboard to input the characters when a password or an address is to be input.



1 Input character display area

The characters that have been input are displayed.

2 Backspace button

Touch this button to delete the last character of the characters shown in the input character display area.

3 Character input buttons

The character on the button that is touched is input.

4 Space button

Touch this button to input a space.

5 Set/Enter button [Enter/Login]

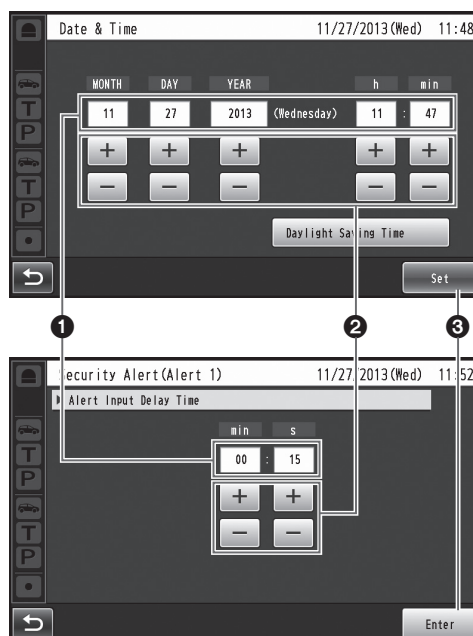
Touch this button to enter the character string that has been input.

6 Character type selector button

Touch this button to change the type of characters that are to be input.

Inputting the date and time

Input the date and time by using the [+] and [-] buttons.



1 Setting value display area

The current setting values are displayed.

2 + and - buttons

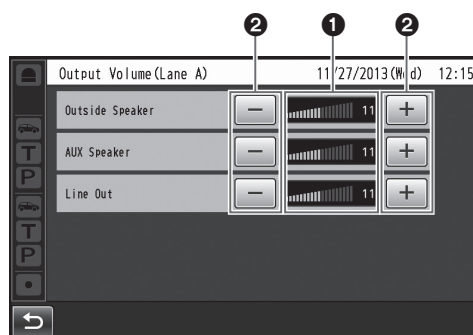
Adjust the settings by touching the + and - buttons.

3 Set/Enter button [Set/Enter]

Touch this button to enter the date and time that has been set.

Adjusting the volume level

Adjust the volume level.



1 Volume level display area

The current volume levels are displayed.

2 + and - buttons

Adjust the levels by touching the + and - buttons. Changes in the volume level take place in real time.

Operating procedures

■ Basic operations

TALK: Talking with the customers

This function enables two-way conversations between the store personnel who are wearing All-In-One Headsets or Belt Packs and the customer at the order post. For further details on conversation methods, refer to the Operating Instructions for the Belt Pack (WX-CT420) or All-In-One Headset (WX-CH450/WX-CH455/WX-CH457P).

PAGE: Talking with other store personnel

Store personnel who are wearing All-In-One Headsets or Belt Packs can talk to one another without being heard by customers. For further details on paging methods, refer to the Operating Instructions for the Belt Pack (WX-CT420) or All-In-One Headset (WX-CH450/WX-CH455/WX-CH457P).

Dual drive-thru lane changeover (WX-CC412BP only)

In the case of a dual drive-thru, it is possible to talk or page by selecting lane A or lane B. For details on how to perform lane changeover operation, refer to the Operating Instructions for the Belt Pack (WX-CT420) or All-In-One Headset (WX-CH450/WX-CH455/WX-CH457P).

■ ID Registration

- To talk or page using an All-In-One Headset or Belt Pack, its ID must be registered.
- For ID registration, set the Center Module to ID registration mode, and proceed with the registration by operating the All-In-One Headset or Belt Pack concerned.

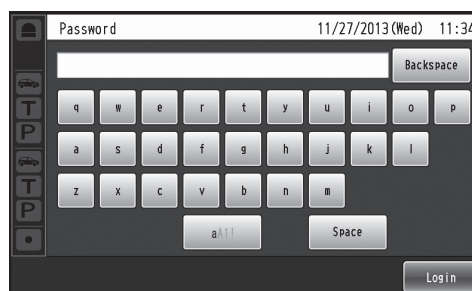
The ID registration procedure is described below based on an example involving an All-In-One Headset or Belt Pack operation.

Note

- When registering the Belt Pack (WX-CT420) or All-In-One Headset (WX-CH450/WX-CH455/WX-CH457P (software version earlier than 2.0)), set the [Sound Band] on the Center Module to "Narrowband".

1 Touch (setting button) on the touch panel.

- The password input screen appears.

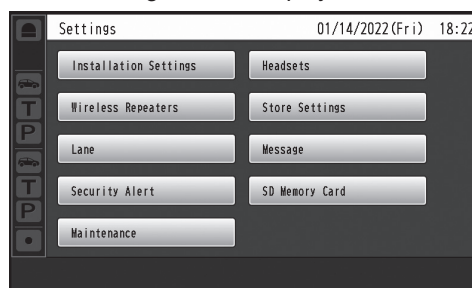


2 Input the password, and touch the [Login] button.

Important

- Change the password at regular intervals for security purposes.

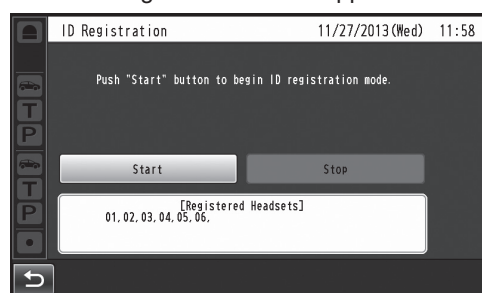
- The setting menu is displayed.



Operating procedures

3 Touch [Headsets] button, and then the [ID Registration] button.

- The ID registration screen appears.

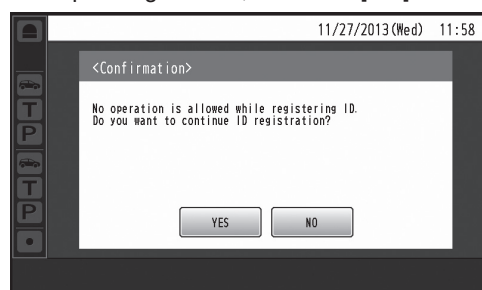


Note

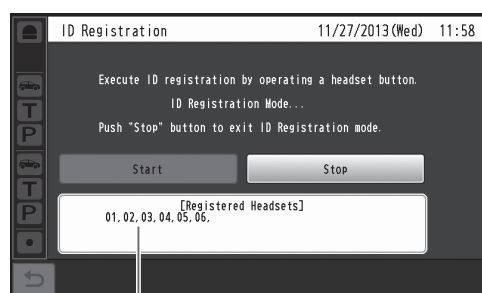
- The registered All-In-One Headset or Belt Pack numbers are displayed in the [Registered Headsets] area. When ID registration is completed successfully, the ID of the newly registered All-In-One Headset or Belt Pack is added.

4 Touch the [Start] button.

- The following pop-up screen is displayed. You cannot perform other operations during ID registration. To continue ID registration, touch the [YES] button. To stop ID registration, touch the [NO] button.



- Touch the [YES] button to start ID registration mode.



The number of the All-In-One Headset or Belt Pack that has been registered is displayed.

5 <For WX-CH450 and WX-CT420> Press the [POWER] button while holding down the [T1] button and [T2] button. <For WX-CH455 and WX-CH457P> Rotate the microphone boom while holding down the [T] button and [P] button to turn on the power.

- The All-In-One Headset or Belt Pack starts up in ID registration mode. The "Registration Mode" voice prompt will be heard from the earphone, and the power indicator will blink orange. In ID registration mode, the buttons and indicators have different functions from those at normal startup.

6 <For WX-CH450 and WX-CT420> Press the [T1] button. <For WX-CH455 and WX-CH457P> Press the [T] button.

- The All-In-One Headset or Belt Pack searches for a Center Module that is in ID registration mode. The "Connecting center module A" voice prompt will be heard from the earphone, and the lane indicator will blink orange. In the case of the WX-CC412BP, after lane A registration, the "Connecting center module B" voice prompt will be heard, and the lane indicator will blink green.
- When ID registration has been completed successfully, the "Registration complete" voice prompt will be heard from the earphone, and then a voice prompt for the number of the registered All-In-One Headset or Belt Pack will be heard. The power indicator and the lane indicator now stop blinking, and light up.

After registering all of the headset IDs, touch the [Stop] button on the ID registration screen.

ID registration mode for the Center Module is exited. The power indicator of the All-In-One Headset or Belt Pack changes from orange to green.

Important

- When registering the IDs of a multiple number of All-In-One Headsets or Belt Packs, register the ID of each unit in sequence. If an attempt is made to register the IDs of multiple units at the same time, the IDs may not be registered correctly.
- During the ID registration process, do not turn off the power of the All-In-One Headsets or Belt Packs or remove their batteries. Otherwise, their IDs may not be registered correctly. If the registration is not proceeding smoothly, touch the [Stop] button on the Center Module, exit ID registration mode, and then try again.
- When ID registration fails, a “BUU-UU-UU” warning sounds in the All-In-One Headset or Belt Pack concerned, and then the “Failed” voice prompt is heard. If an ID registration has failed, the ID of the All-In-One Headset or Belt Pack will not be registered in the Center Module, and the power indicator of the All-In-One Headset or Belt Pack concerned will blink in red.
- The IDs of up to 32 All-In-One Headsets or Belt Packs can be registered in one Center Module. If an attempt is made to register IDs for more than 32 units, the IDs of the headsets not used for the longest time will be automatically deleted, and then the IDs of the new units will be registered.
- It is not possible to register the ID of a Wireless Repeater while ID registration mode of the All-In-One Headsets or Belt Packs is active.

■ Concerning Wireless Repeater ID registration

- ID registration of the Wireless Repeater is required when extending the coverage area.
- For ID registration, set the Center Module to ID registration mode, and proceed with the registration by operating the Wireless Repeater.

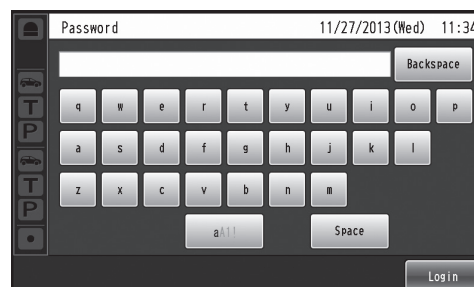
1 Connect the USB power adaptor to the Wireless Repeater and confirm that [STATUS] indicator lights red or blinks red.

Note

- The [STATUS] indicator lights red if the ID registration information for the Center Module is not in the Wireless Repeater.
- If ID registration information for the Center Module remains in the Wireless Repeater, the indicator blinks orange (or green) for about 3 seconds before starting to blink red.

2 Touch (setting button) on the touch panel.

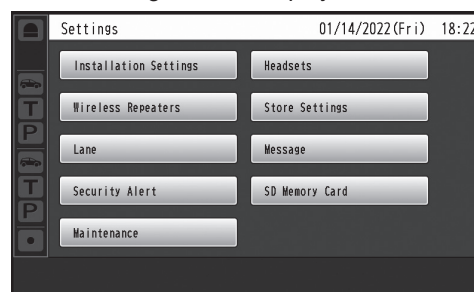
- The password input screen appears.



3 Input the password, and touch the [Login] button.

Important

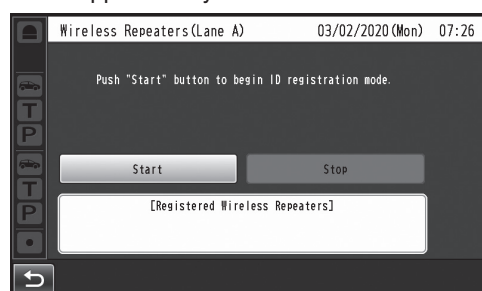
- Change the password at regular intervals for security purposes.
- The setting menu is displayed.



Operating procedures

- 4** On the Settings screen, touch the [Wireless Repeater] button, ([Lane A/B] button,)* and then the [ID Registration] button.

* This appears only when the WX-CC412BP is used.

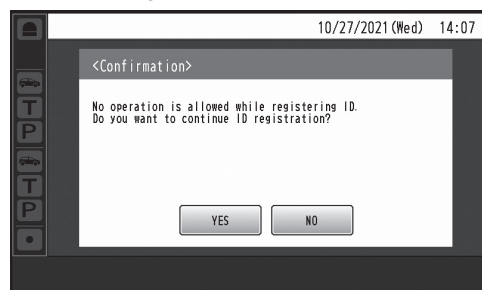


Note

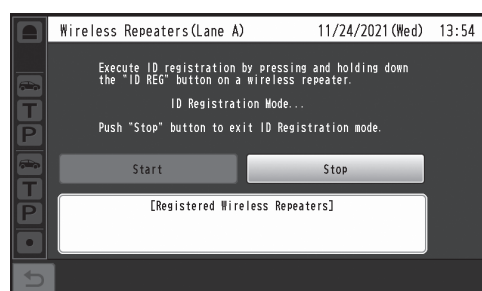
- If 2 Wireless Repeaters have already been registered in the Center Module, the [ID Registration] button cannot be touched. First delete the ID of a Wireless Repeater, then do the ID registration procedure again.

- 5** Touch the [Start] button.

- The following pop-up screen is displayed. You cannot perform other operations during ID registration. To continue ID registration, touch the [YES] button. To stop ID registration, touch the [NO] button.

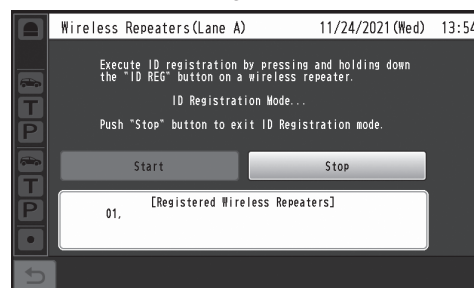


- Touch the [YES] button to start Wireless Repeater ID registration mode.



- 6** Press and hold the Wireless Repeater [ID REG] button for 3 or more seconds.

- The Wireless Repeater starts in ID registration mode and the [STATUS] indicator blinks orange. The Wireless Repeater searches for the Center Module in the repeater ID registration mode.

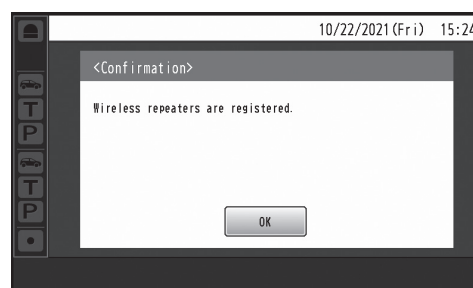


- The numbers of any registered Wireless Repeaters are shown in the [Registered Wireless Repeaters] field during registration. If ID registration succeeds, the ID of the registered repeater is added.
- If ID registration succeeds, the [STATUS] indicator on the Wireless Repeater lights orange (or blinks orange slowly) when registering to lane A. It lights green (or blinks green slowly) when registering to lane B.

Note

- You can continue to register until 2 Wireless Repeaters are registered in the Center Module. Touch the [Stop] button to exit the ID registration mode.
- To continue and register a 2nd Wireless Repeater, perform step 6 on the other Wireless Repeater.

When registration of the 2nd unit for a single Center Module is successfully completed, the following pop-up confirmation screen is displayed, and the repeater ID registration mode on the Center Module is automatically exited.



Important

- When registering multiple Wireless Repeaters, do the ID registration procedure one at a time in order. ID registration may not be successful if you try to do the ID registration procedure for multiple units at the same time.
- Do not unplug the USB cable or USB power adaptor from the Wireless Repeater during ID registration. ID registration may not be completed successfully. If ID registration does not go well, touch the [Stop] button on the Center Module to exit the ID registration mode, then try it again.
- If ID registration fails, the ID of the Wireless Repeater is not registered to the Center Module, and the [STATUS] indicator on the Wireless Repeater lights red or blinks red.
- The IDs of up to 2 Wireless Repeater units can be registered in each single Center Module.
 - When WX-CC411BP is used, 2 can be registered in 1 lane.
 - When WX-CC412BP is used, you can register 1 Wireless Repeater per lane or 2 in 1 lane.

Note

- Do not re-register the same Wireless Repeater to one Center Module.
 - ID registration will fail if you try to register an already registered Wireless Repeater to the same lane.
 - When using WX-CC412BP, you can register an already registered Wireless Repeater to a different lane; however, it can then only be used in the lane where it is newly registered. The previous ID registration of the Wireless Repeater must be deleted.
- When using with a Wireless Repeater registered to the Center Module, use software version 2.0 or later on the All-In-One Headset WX-CH457P.

■ Convenient Functions (Other Functions)

Auto-TALK-Lock

This function enables the All-In-One Headset or Belt Pack of pre-determined store personnel to automatically enter talk mode when a customer approaches the order post. (Talk-Lock mode)

For details on how to set Auto-Talk-Lock mode, refer to the Operating Instructions for the Belt Pack (WX-CT420) or All-In-One Headset (WX-CH450/WX-CH455/WX-CH457P).

Manager mode

One of all the All-In-One Headsets or Belt Packs in a lane can be set to manager mode.

The All-In-One Headset or Belt Pack in manager mode has a higher priority than the other All-In-One Headsets or Belt Packs, and can monopolize one of the four communication channels.

This means that the manager can talk or page at any time. For details on how to set manager mode, refer to the Operating Instructions for the Belt Pack (WX-CT420) or All-In-One Headset (WX-CH450/WX-CH455/WX-CH457P).

Screen saver

When no operations are performed for 3 minutes on the LCD display, the back light of the LCD display automatically turns off to enable power consumption to be reduced. The screen turns off when the back light is turned off.

Refer to the Operating Instructions <Setup Instructions> (PDF file) for information about how to set the screen saver.

Call button connection

Customers at the order post can call store personnel by pressing the external button.

When using a touch panel type order post, it is possible to install a call button which enables calls to the store personnel when the button is pressed.

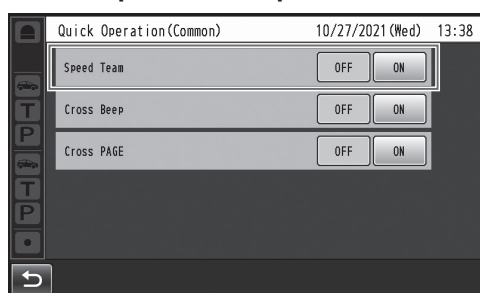
Operating procedures

Speed Team

“Speed Team operation” refers to a mode of operation in which, at busy times when there are more vehicles than the lanes can accommodate, normal operation is suspended, the vehicle detectors are shut off, and the store personnel go directly to the customers in their vehicles to take their orders.

1 Touch  (Quick Operation button) on the touch panel, and then the [Common] button.

2 Touch the [ON] button for [Speed Team] to enable Speed Team operation.



- In the All-In-One Headsets or Belt Packs, the “SPEED TEAM ON” voice prompt is heard from the earphones.

Note

- In Speed Team mode, the “SPEED TEAM ON” voice prompt will be heard every 5 minutes from the earphone of the All-In-One Headsets or Belt Packs.

3 When the [P] button of the All-In-One Headset or Belt Pack is pressed, conversation becomes possible in page lock mode.

- Even if the [P] button is set to Press-to-Page, the button will still operate in page lock.
- For further details on paging methods, refer to the Operating Instructions for the Belt Pack (WX-CT420) or All-In-One Headset (WX-CH450/WX-CH455/WX-CH457P).

4 To release Speed Team operation, touch the [OFF] button for [Speed Team] on the screen in step 2.

- In the All-In-One Headsets or Belt Packs, the “SPEED TEAM OFF” voice prompt is heard from the earphones, and normal operation is restored.

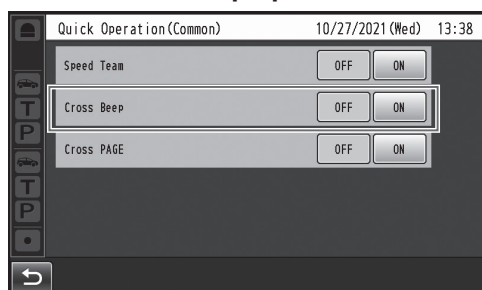
Note

- In Speed Team mode, it is not possible to talk with customers at the order posts.
- When talking is attempted from an All-In-One Headset or Belt Pack, the “Operation not allowed” voice prompt is heard from the earphone.
- Along with the operation on the touch panel that enables or disables Speed Team operation, it is also possible to turn it on or off with a button connected to the Center Module. Use an alternate type button for the external button.
Refer to the Operating Instructions <Setup Instructions> (PDF file) for information about how to use the external button to make settings.

Cross Beep (WX-CC412BP only)

“Cross Beep” is a function that enables a beep tone to be heard from the All-In-One Headsets or Belt Packs when a customer approaches the order post of the other lane.

- 1 Touch  (Quick Operation button) on the touch panel, and then touch the [Common] button.
- 2 Touch the [ON] button for [Cross Beep] to enable Cross Beep operation.



- To release Cross Beep, touch the [OFF] button.

OFF:

If lane A has been selected, beep tone A will be heard when a vehicle in lane A is detected.

However, beep tone B will not be heard even when a vehicle in lane B has been detected.

ON:

If lane A has been selected, beep tone A will be heard when a vehicle in lane A is detected.

Furthermore, beep tone B is heard at a low volume level even when a vehicle in lane B has been detected.

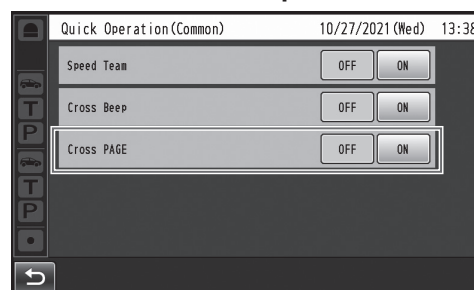
When vehicles have been detected in both lanes, beep tone A and beep tone B, which are heard at a low volume level, will be heard alternately.

Cross Beep	Vehicle detector		All-In-One Headset or Belt Pack	
	Lane A is ON	Lane B is ON	A	B
OFF	○	—	Beep A	—
	—	○	—	Beep B
	○	○	Beep A	Beep B
ON	○	—	Beep A	Low level Beep A
	—	○	Low level Beep B	Beep B
	○	○	Beep A + Low level Beep B	Beep B + Low level Beep A

Cross PAGE (WX-CC412BP only)

“Cross PAGE” is a function that enables talking (PAGE) between all store personnel in both lane A and lane B.

- 1 Touch  (Quick Operation button) on the touch panel, and then touch the [Common] button.
- 2 Touch the [ON] button for [Cross PAGE] to enable Cross PAGE operation.



OFF:

PAGE is possible with the All-In-One Headsets and Belt Packs in each of lane A and lane B.

ON:

PAGE is possible with all of the All-In-One Headsets and Belt Packs in both lane A and lane B.

Operating procedures

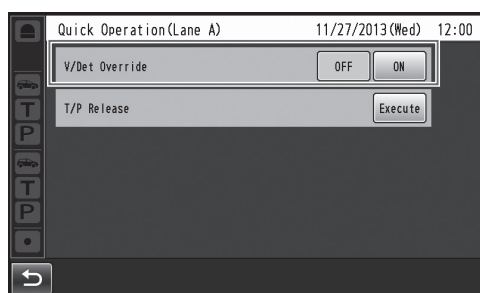
V/Det Override

“V/Det Override” is a function that sets the vehicle detectors virtually to ON and keeps both the order post microphone and speaker in the ON setting.

- 1 Touch  (Quick Operation button) on the touch panel, and then touch the [Lane A/B] button*.

* [Lane B] button appears only when the WX-CC412BP is used.

- 2 Touch the [ON] button for [V/Det Override] to enable this function.



- To release V/Det Override, touch the [OFF] button.

OFF:

When the vehicle detector detects a vehicle at the order post, a beep tone is heard from the earphone. When the Talk button on an All-In-One Headset or Belt Pack is pressed, the order post's speaker and microphone are turned on.

When the vehicle drives off, vehicle detection is turned off. The OFF setting and Auto-Talk-Lock mode can now be established.

ON:

When [V/Det Override] is set to ON, the order post's microphone is turned on permanently and talking is enabled even when the vehicle detector is not ON. (Sound from the order post's microphone can be forcibly heard.)

Note

- When Speed Team is enabled, the setting for V/Det Override is automatically turned OFF.
- In Speed Team mode, you cannot change the setting for V/Det Override.

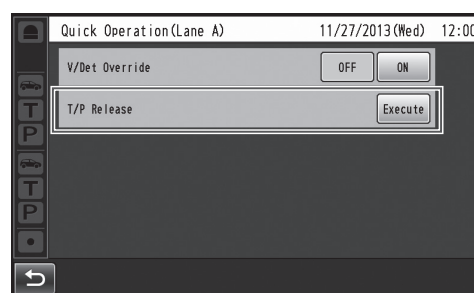
Talk/page release

The talk (or page) status of an All-In-One Headset or Belt Pack is forcibly released.

- 1 Touch  (Quick Operation button) on the touch panel, and then touch the [Lane A/B] button*.

* [Lane B] button appears only when the WX-CC412BP is used.

- 2 Touch the [Execute] button for [T/P Release].



- Communication is forcibly terminated.

Note

- The talk (or page) status of the All-In-One Headset or Belt Pack in manager mode is not released.

Troubleshooting

Check the following before requesting repair.

Consult your sales shop if these measures do not resolve a problem, if symptoms not listed here occur, or if you have a question related to engineering.

Symptom	Cause/solution	Reference pages
No communication between the order post, Belt Packs and All-In-One Headsets is possible.	Is the power cord connected securely to the AC input terminal of this unit and to the power outlet? → Check whether it is connected.	P.28
Paging between the store personnel is possible, but talking with the customers using the order post is not possible.	Have the microphone input and speaker output of the order post been connected properly? → Check whether it is connected properly.	P.29
An echo is heard from the earphone of the headset when an individual is talking into the headset microphone.	The speaker and microphone for the order post may not have been installed correctly. → Check that the speaker and microphone are placed at a sufficient distance from each other, and anchor them securely so that any vibrations are absorbed.	WX-CS560 Operating Instructions WX-CM470P Operating Instructions
	The input and output audio levels may have been set too high. → Lower the audio input and output levels (OUT MIC/OUT SP) for the order post to the appropriate level. (Feedback noise can be prevented by selecting a setting that lowers the audio input level.)	Operating Instructions <Setup Instructions>
	The echo canceller is off or its level is low. → Set the echo canceller to the appropriate level. (The default setting is "MID".)	Operating Instructions <Setup Instructions>
A lot of noise is heard from order post.	DNR is OFF or its level may be low. → Set the DNR to the appropriate level. (The default setting is "MID".)	Operating Instructions <Setup Instructions>
A lot of noise is heard from the order post speaker when communicating between an All-In-One Headset and the order post.	Outbound DNR is OFF or its level may be low. → Set the Outbound DNR to the appropriate level. (The default setting is "OFF".)	Operating Instructions <Setup Instructions>
There is no reaction even when the buttons on the touch panel are touched.	Is the touch panel dirty? → Clean the touch panel. If there is no improvement even after it has been cleaned, adjust the touch panel.	P.13
When one of the buttons on the touch panel has been touched, another button reacts instead.	The touch panel must be adjusted. → Adjust the touch panel.	Operating Instructions <Setup Instructions>
Communication breaks up or it is hardly possible to hear what is being said.	Are the All-In-One Headsets or Belt Packs too far away from the Center Module, or are there any obstructions such as concrete walls or metal devices between the Center Module and the All-In-One Headsets or Belt Packs? → Contact the store where you purchased this unit, and move this unit to a location where there are no obstructions around it.	—

Troubleshooting

Symptom	Cause/solution	Reference pages
No communication with the cameras is possible.	• Have the cameras been registered in the Center Module? → No communication with the cameras is possible if the cameras have not been registered. Register the cameras that are to be connected.	Operating Instructions <Browser Guide>
Nothing happens even when operations are performed correctly; or the operations are performing incorrectly.	• This unit may not be working properly. → Press the reset button on the side panel of this unit using a fine-tipped object. (The settings, etc. will not be cleared.)	P.17
Even when an All-In-One Headset or belt pack is registered to a Center Module, they remain out of range.	• Is the [Sound Band] set to “Wideband”? → Set to “Narrowband” when using WX-CT420, WX-CH450, WX-CH455, or WX-CH457P (software version earlier than 2.0). (The default setting is “Wideband”).	Operating Instructions <Setup Instructions>

Specifications

General

Operating frequency		1921.536 MHz to 1928.448 MHz
POWER	Power source	AC 100 V to 120 V 50 Hz/60 Hz
	Connector	Universal Type with an 3 pins AC Inlet
	Power consumption	17 W (WX-CC412BP) 12 W (WX-CC411BP)
Operating temperature range		0 °C to +40 °C {32 °F to 104 °F}
Operating humidity range		20 % to 90 % (no condensation)
Dimensions		375 mm (W) × 275 mm (H) × 50 mm (D) {14-49/64 inches (W) × 10-53/64 inches (H) × 1-31/32 inches (D)}
Mass		Approx 1.9 kg {4.2 lbs.} (Excluding the wall mounting bracket)

User Interface

LCD display	Type	7 Type
	Effective pixels	WVGA: 800 (H) × 480 (V)
	Back light	LED
Touch panel	Type	7.8 Type
	Technology	Resistive type

Audio & Video Interface

General	Number of channels		1 (WX-CC411BP) 2 (WX-CC412BP)
	Frequency characteristic		100 Hz to 7 kHz
OUT MIC	Technology		Electric balanced
	Connector		Euroblock connector (HOT/COLD/GND)
	WX-CS560 Interface	Input impedance	1.5 kΩ
		Rated input	−70 dBV
		Maximum input	−38 dBV
	WX-CM470 Interface	Input impedance	1.5 kΩ
		Rated input	−30 dBV
		Maximum input	−14 dBV
OUT SP	Technology		Balanced
	Connector		Euroblock connector
	Rated output for amplifier		2 W
	Conformed load impedance		8 Ω
AUX MIC	Technology		Electric balanced
	Connector		Euroblock connector (HOT/COLD/GND/PTT/COM)
	Input impedance		3 kΩ
	Rated input		−67 dBV
	Maximum input		−44 dBV
	Control signal		PTT, Make (No voltage) when talking
AUX SP	Technology		Balanced
	Connector		Euroblock connector
	Rated output for amplifier		2 W
	Conformed load impedance		8 Ω

Specifications

LINE IN	Technology	Unbalanced, Mono
	Connector	Euroblock connector
	Rated input	−10 dBV
	Maximum input	+6 dBV
LINE OUT	Technology	Unbalanced, Mono
	Connector	Euroblock connector
	Rated output	−14 dBV
	Maximum output	+6 dBV

Device Interface

AUX MIC CNT, COM (INPUT)	Number of channels	1 (WX-CC411BP) 2 (WX-CC412BP)
	Technology	Photo-coupler
	Open voltage	5 V
	Short current	2 mA
	Connector	Euroblock connector
VDET CNT, COM (INPUT)	Number of channels	2 (WX-CC411BP) 4 (WX-CC412BP)
	Technology	Photo-coupler
	Open voltage	5 V
	Short current	2 mA
	Connector	Euroblock connector
ALERT CNT, COM (INPUT)	Number of channels	4
	Technology	Photo-coupler
	Open voltage	5 V
	Short current	2 mA
	Connector	Euroblock connector
DEVICE CNT, COM (OUTPUT)	Number of channels	1
	Technology	Photo-coupler
	Control voltage	DC 30 V
	Control current	MAX 50 mA
	Connector	Euroblock connector
RS-232C TxD, RxD, SG	Communication system	Asynchronous (full duplex)
	Baud rate	19200 bps
SD card	Corresponding card	SD card, SDHC card Note: miniSD card and MicroSD card are not applicable.
10BASE-T, 100BASE-TX (Network)	Type	10/100BASE-TX (Full/Half, Auto/Man)
	Connector	RJ-45
Supported protocols		IPv4: TCP/IP, HTTP, HTTPS, DHCP, DNS, SMTP, NTP, UPnP, POP
VIDEO OUT	Type	NTSC
	Output signals	Composite
	Connector	RCA pin jack

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<isys_fcntl.h>

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@(#)fcntl.h 8.3 (Berkeley) 1/21/94

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< isys_pl_stdio.c >

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<isys_getopt.c>

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<isys_pl_crypt.c>

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<isys_vsscanf.c>

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<ncc_util_strtol.c>

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<md5_locl.h>

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