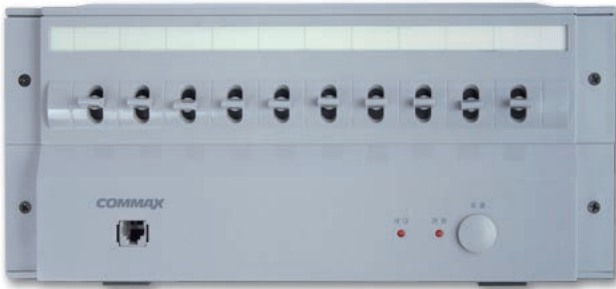


*Since 1968*

**COMMAX**  
SmartHome & Security

# User Manual

INTERPHONE EXCHANGE CLS-10



[www.commax.com](http://www.commax.com)

**COMMAX Co.,Ltd.**



- Thank you for purchasing COMMAX products.
- Please carefully read this User's Guide (in particular, precautions for safety) before using a product and follow instructions to use a product exactly.
- The company is not responsible for any safety accidents caused by abnormal operation of the product.

# TABLE OF CONTENTS

1. Warnings and Precautions for Safety .....	3
2. Features .....	5
3. The Unit and Functions .....	5
1) The Unit .....	5
2) Function .....	6
4. Operation .....	7
4.1 Call to slave telephone .....	7
4.2 Call from slave telephone .....	7
4.3 Call between slave telephones .....	7
4.4 Emergency Calls .....	7
5. Assembly .....	8
1) Assembly Drawing .....	8
2) Assembly Method .....	9
6. Wiring .....	10
7. Precautions .....	10
8. Others .....	11
9. Specifications and Features .....	11
1) Configuration	
2) Specifications and Features	

# 1. Warnings and Precautions for Safety

The following are the warnings and precautions to prevent dangers or property damage due to incorrect use of the product. Please make sure to follow the instructions exactly.



## Warning

Any danger that may result in serious injuries or death if the user fails to observe the instructions.



## Caution

Any danger that may result in minor injuries or damage or if the user fails to observe the instructions.



Indicates general prohibitions.



Indicates assembly prohibited.



Indicates contact prohibited.



Indicates instructions to be observed.



Indicates that the power plug should be removed from the receptacle.



Indicates warning or caution of electric shock.



Indicates warning or caution of fire.

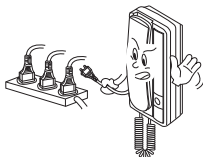


## Warning

### Power Source and Installation

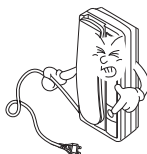
Do not use several products at one receptacle at the same time.

- This may be a reason of fire due to abnormal heating.



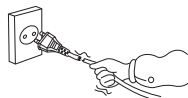
Do not bend the power cord excessively nor place heavy objects on it.

- Damage to the cord may cause fire or electric shock.



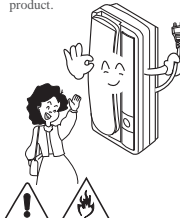
Do not plug or unplug with wet hands.

- This may be a reason of electric shock.



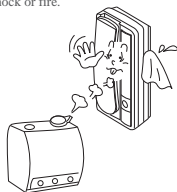
Unplug from the outlet when you are not using the unit for long periods of time.

- This may be a reason of fire or may shorten the lifetime of your product.



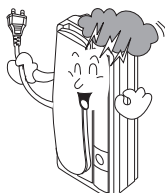
Do not install the product at a place too oily, smoky or humid.

- This may be a reason of electric shock or fire.



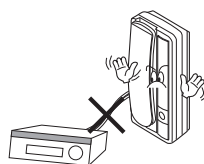
Do not install the product during lightening.

- This may be a reason of electric shock or fire.



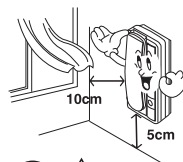
Do not connect with products of other makers of different rating voltage.

- This may be a reason of failure or fire.



Install a heat-radiating product at a wellventilating place with specified spacing (10cm) from the wall.

- This may be a reason of fire due to internal temperature rise.

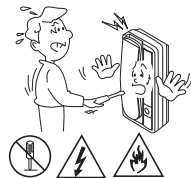


## ! Warning

### Cleaning and Usage

Do not disassemble, repair or revise the product. (Contact the service center if you need it repaired.)

- This may be a reason of electric shock or fire.



If there is strange sound or burning smell delivered from the product, immediately unplug and contact the service center.

- This may be a reason of electric shock or fire.



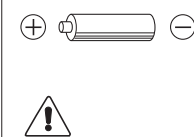
Do not insert metal objects such as chopsticks, wire, gimlet, etc. and flammables like paper, matches, etc. into the ventilating hole of the product.

- This may be a reason of electric shock or fire.



In case of a DC product, do not use batteries of rating other than the specified.

- This may be a reason of electric shock or fire.

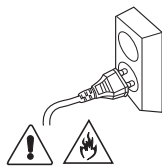


## ! Caution

### Power Source and Installation

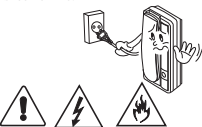
Exactly insert the power plug to avoid movement.

- Unstable connection may be a reason of fire.



Remove the power cord by holding the power plug (Pulling out the cord may result in damage to the core cable.)

- This may be a reason of electric shock or fire.



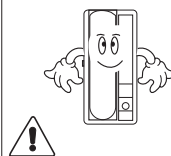
Connection of disconnected power cord may cause electric shock. Make sure to install the product after power off.

- This may be a reason of electric shock or fire.

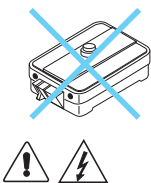


Fix the product firmly when it is installed using the specified wall mount or screw.

- When it drops, it may hurt people.

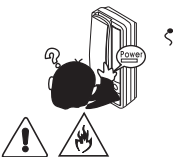


AC switch may cause electric shock. Install it carefully if used.



In case of a DC product, check the voltage and current and use a suitable rectifier.

- This may be a reason of fire.

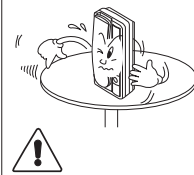


Do not install the product at a place where heat is radiated by heating equipment or directly exposed to sunlight.

- This may be a reason of fire.



Do not install the product at an unstable place or on a plate smaller than it.



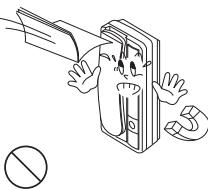
### Cleaning and Usage

Disconnect the power cord and wipe the product with soft and dry cloth (Do not use chemicals such as wax, benzene, thinner, detergent, etc.)



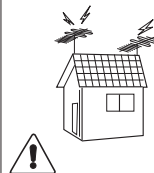
Do not drop the product or exert impact on it.

- This may cause a trouble.



Use the specified cable within the maximum call distance.

- It may degrade performance of the product.

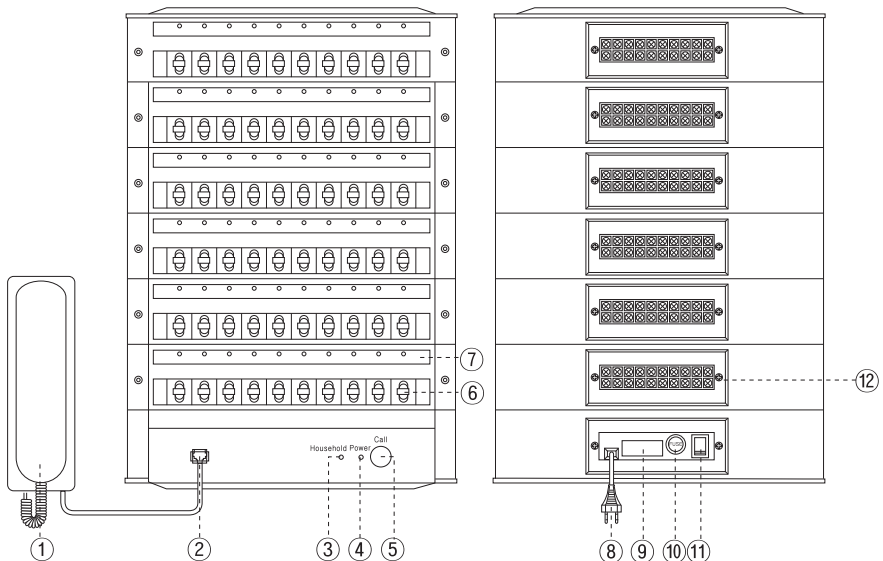


## 2. Features

- The exchange is based on 10 circuits and can be extended up to 240 circuits by adding circuits required for the user.
- The exchange is used being connected to telephones manufactured by the company. It may also be connected to general telephones.
- You can use DC 24V/1A power supply when AC220V is not available.

## 3. The Unit and Functions

### 1) The Unit



No	Description	No	Description
1	Telephone manufactured by the company (TP-K or TP-S)	7	Master calling lamp, name card (Address indication)
2	Telephone connector jack	8	Power cord
3	Household lamp	9	DC input port
4	Power lamp	10	FUSE
5	Calling button	11	Power switch
6	Call connection key	12	Slave connection port

## 2) Function

- ① Telephone set (TP-K): Telephone set is used when call is received from a slave telephone or when the master telephone calls a slave telephone (General phones may be used)
- ② Telephone connector jack: Used to connect an TP-K common telephone set (General phones may be used)
- ③ Household lamp: Lighted in case of call between slave telephones (incoming call)
- ④ Power lamp
- ⑤ Calling button: Use to call a slave telephone
- ⑥ Call connection key: Used for outgoing call (call between master telephone and slave telephone) or incoming call. (between slave telephones) Additionally, the center position is waiting mode.
- ⑦ Master calling lamp, name card: Indicates the slave telephone, which calls the master telephone. Name card shows household IDs.
- ⑧ Power cord
- ⑨ DC input port: DC24V/1A may be used.
- ⑩ Fuse: Fuse 250V/1A 6.3#
- ⑪ Power switch
- ⑫ Slave connection port: Two lines are connected from the master to every slave.

## 4. Operation

### 4.1 Call to slave telephone

- Lift the telephone set, position the call connection key of the slave telephone to be called to outgoing call and press the calling button. Melody is played and the slave telephone is called (calling time:  $15 \pm 5$ sec)
- Speak to the slave telephone when it answers.
- Position the call connection key to waiting mode after call is completed.

### 4.2 Call from slave telephone

- When call is received from a slave telephone, the affected master-calling lamp is lighted and melody is played.
- Call is established when the call connection key is set to outgoing call after lifting the telephone set.
- Position the call connection key to the waiting mode after call is completed.

### 4.3 Call between slave telephones

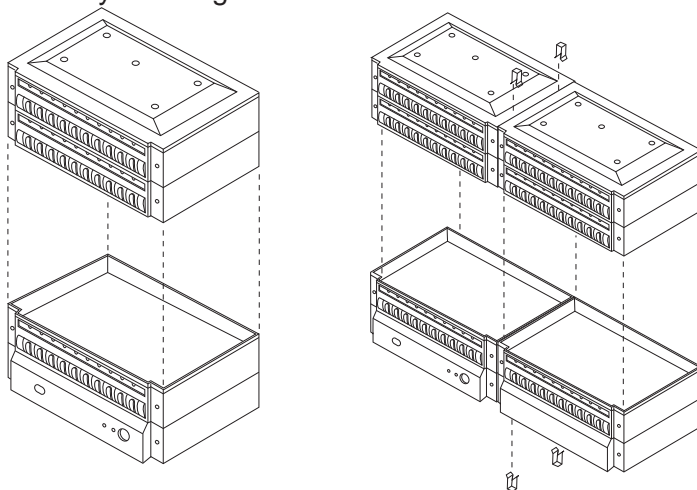
- A slave telephone calls the master telephone and requests connection with another slave telephone.
- Position the call connection key for the slave telephone to incoming call (Household lamp is lighted)
- Position the call connection key for the other slave telephone to outgoing call and press the calling button. Melody is played and the slave telephone is called.
- If the slave telephone answers and call is established, position the call connection key to incoming call to connect with the first slave telephone and put down the telephone set.
- The household lamps are lighted while the two slave telephones are connected and go off when call is completed. At this time, position the call connection keys for the two slave telephones to waiting mode.

### 4.4 Emergency Calls

- If warning tone is played when the telephone set is lifted to respond to call from a slave telephone, it corresponds to an emergency such as burglar, fire, gas leakage, etc.

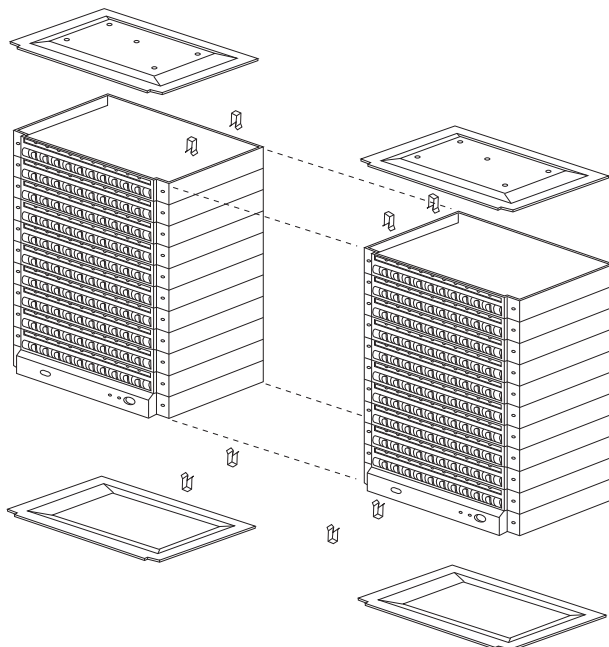
## 5. Assembly

### 1) Assembly Drawing



1) Several layers assembled into one line

2) Several layer assembled into two lines



3) Several layers assembled into several lines

4) Unit types: CLS-10T (R), CLS-10T (L), CLS-10W



## 2) Assembly Method

### 1) Several layers assembled into one line

- ① Release the screw at the top of CLS-10 to open the upper cover.
- ② Connect the 6P connector coming from CLS-10 to CN 101 6P WAFER of CLS-10T (L), place CLS-10T (L) on CLS-10 and fix them with screws.
- ③ Connect the 6P connector of CLS-10T (L) to CN 101 6P WAFER of CLS-10T (R), place CLS-10T (R) on CLS-10T(L) and fix them with screws.
- ④ For expansion, repeat Steps 2 and 3 to assemble CLS-10T (L) and CLS-10T (R).
- ⑤ Close the cover when assembly of the last layer is completed.

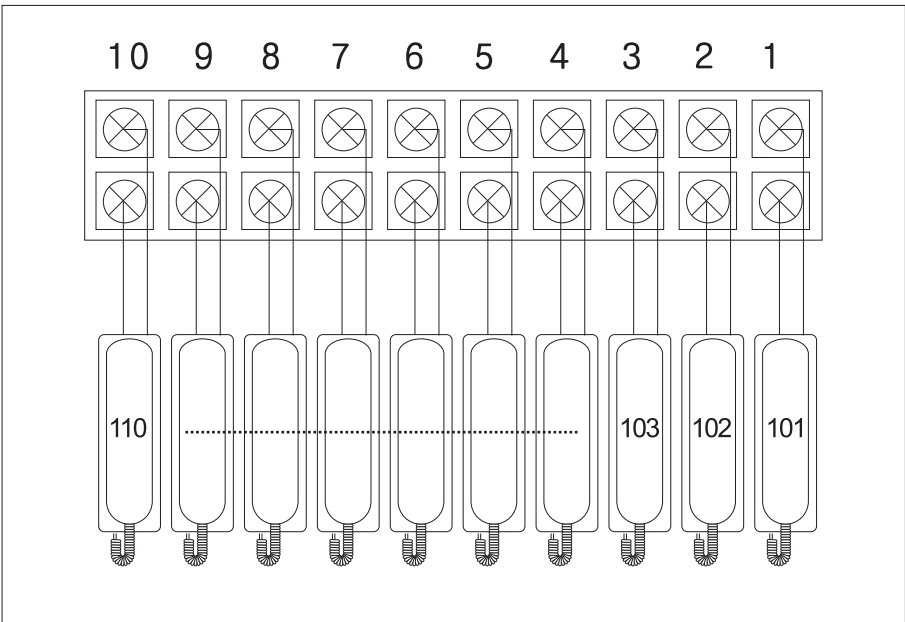
### 2) Several layer assembled into two lines

- ① Release the screws at the top and bottom of CLS-10 to open the upper and lower covers.
- ② Open the upper and lower covers of CLS-10W.
- ③ Position CLS-10 and CLS-10W side by side and fix the three points on the surfaces facing each other with the clips included in the accessories.
- ④ Cut off the ventilating hole on the lateral surface of CLS-10T (R) to be placed on CLS-10W of CLS-10 for expansion.
- ⑤ Insert the 6P connector to 6P WAFER (CN208) of CLS-10 (K) of CLS-10 and connect it to CLS-10T (R) to be expanded using the ventilation hole cut off.
- ⑥ Connect the 6P connector of CLS-10 to CN 101 WAFER of CLS-10T (R), place CLS-10T (R) on CLS-10 W and fix them with screws.
- ⑦ For expansion, repeat Steps 2 and 3 of “(1) Several layers assembled into one line” for the two lines.
- ⑧ When assembly of the last layer is completed, fix the surfaces facing each other of the last layer with the clips included in the accessories and close the upper and lower covers.

### 3) Several layers assembled into several lines

For expansion in several layers assembled into several lines, repeat (1) Several layers assembled into a line and (2) Several layer assembled into two lines.

## 6. Wiring



## 7. Precautions

- Turn on the power switch of the product.
- When damage or defects are found in the product, immediately contact the customer support team of the head office.
- Do not place flowerpot or water bottle on the product.
- Use circuit breakers suitable for internal wiring of the building (Both phases have to be disconnected.). The circuit breakers should work immediately when fire or other dangers are detected in the product.
- Perform installation or repairing of the product after power off.
- Pay attention not to let the call signal ring for a long time as it may adversely affect the internal circuit of the interphone exchange.

## 8. Others

- Read this User's Guide carefully before you report defects.
- The following do not correspond to troubles. Check the product and contact your local representative or the service team of the head office.
- We will do our best for satisfactory service.

## 9. Specifications and Features

### 1) Configuration

- ① CLS-10
- ② Expansion Units: CLS-10T(L)  
CLS-10T(R)  
CLS-10W

### 2) Specifications and Features

- . Rated voltage: 200V~, 60Hz, DC24V 1A
- . Used lines: Two lines a circuit
- . Call distance: 2km (0.65 cable)
- . Dimension (mm): 290(W) x 138(H) x 275(D)

MEMO

MEMO

# **COMMAX**

**COMMAX Co.,Ltd.**

513-11, Sangdaewon-dong, Jungwon-gu, Seongnam-si, Gyeonggi-do, Korea

Int'l Business Dept. Tel. : +82-31-7393-540~550 Fax. : +82-31-745-2133

Web site : [www.commax.com](http://www.commax.com)

PM401000010

Printed In Korea / 2011.06.104