

# User Manual

Single Master with Multiple Remotes INTERPHONE SYSTEM  
TP-12RM



- 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.



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## 1. Greetings

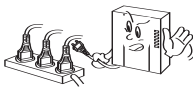


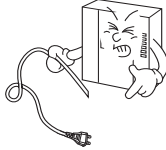



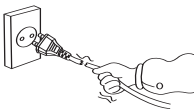





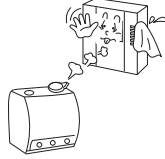



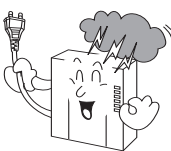



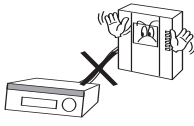


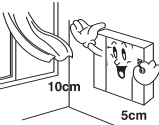


- Thank you very much for choosing COMMAX.
- Please read this manual carefully before you use the product.

## 2. Warnings and caution

Please follow the things described below in order to prevent any danger or property damage.

 <p><b>Warning</b> It may cause a serious damage or injury if violated.</p>  <p><b>Caution</b> It may cause a minor damage or injury if violated.</p>	<ul style="list-style-type: none"> <li> Prohibition.</li> <li> No disassembly</li> <li> No touch</li> <li> Must follow strictly.</li> <li> Shows plugging out the power cord without an exception</li> <li> Shows the warning and caution for an electric shock.</li> <li> Shows the warning and caution for a fire.</li> </ul>
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### Warning

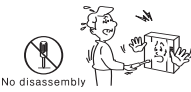
<b>Power &amp; Installation</b>	<p>Please don't use several products at the same time on one power socket. · It may cause a fire due to an abnormal overheating.</p>  <p> </p> <p>Prohibition Fire</p>	<p>Please don't bend the power cable excessively or it may cause an electric shock. · fire when using a damaged power cable.</p>  <p>  </p> <p>Prohibition Electric shock Fire</p>	<p>Please don't handle the power cable with a wet hand. · It may cause an electric shock.</p>  <p> </p> <p>Prohibition Fire</p>	<p>Please plug out the power cable from the socket when not using it for a long period of time. · It may shorten the product lifespan or cause a fire.</p>  <p> </p> <p>Request Fire</p>
	<p>Please don't install the product in the place where there is much oil, smoke or humidity. · It may cause an electric shock or fire.</p>  <p>  </p> <p>Prohibition Electric shock Fire</p>	<p>Please don't install the product with the lightning and thunder. · It may cause an electric shock or fire.</p>  <p>  </p> <p>Prohibition Electric shock Fire</p>	<p>Please don't use and connect this product with other products with different rated voltage · It may cause a disorder or fire.</p>  <p> </p> <p>Prohibition Fire</p>	<p>When installing the product that generates heat, please install the product away from the wall (10cm) for the ventilation. · It may cause a fire due to the increased internal temperature.</p>  <p> </p> <p>Prohibition Fire</p>

## ! Warning

### Cleaning & Use

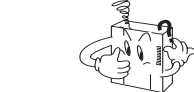
Please don't disassemble, repair or rebuild this product arbitrarily (please contact the service center if a repair is needed).

- It may cause an electric shock or fire.



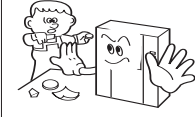
If an abnormal sound, burning smell or smoke is coming out of the product, please plug out the power cable and contact a service center.

- It may cause an electric shock or fire.



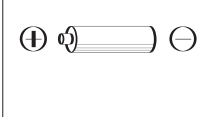
Please don't insert any metallic or burnable materials into the ventilation hole.

- It may cause an electric shock or fire.



Please use only the designated batteries for the products of using DC power.

- It may cause an electric shock or fire.



## ! Caution

### Power & Installation

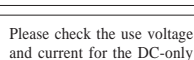
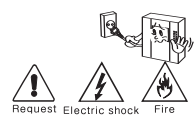
Please plug the power cable firmly into the inner end

- It may cause a fire.



Please hold the plug tightly when unplugging the power cable (a part of the copper wire may be disconnected if the grabbing is only made on the cord when pulling out the cable).

- It may cause an electric shock or fire



When connecting the power cables after cutting the product with power off

- It may cause an electric shock or fire

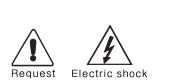
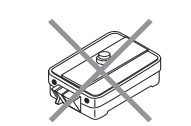


When installing the product, please fix it firmly while using the wall-mounting unit and screws.

- It may cause an injury from the falling object.



Please be careful when using an AC circuit breaker since there is a possibility of an electric shock.



Please check the use voltage and current for the DC-only products and use the appropriate rectifier.

- It may cause a fire.



Please avoid direct rays of the sun or heating devices at a time of installation.

- It may cause a fire.



Please don't install the product on an unstable place or small support board.

- It may cause an injury if it falls down while in use.



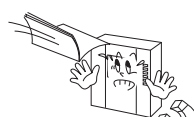
### Cleaning & Use

When cleaning the product, please rub it with a soft and dry cloth after plugging out the power cable. (Please don't use any chemical products such as wax, benzene, alcohol or cleanser.)



Please don't drop the product on the ground and don't apply a shock.

- It may cause a failure.



Please use the designated connection cable within the maximum calling distance designated for the product

- It may reduce the product performance.





### 3. Installation

The junction box supplied may be mounted to a wall or single-gang outlet box. The screw terminal designations are as follows:

1, 2, .....11, 12	Station Number
L :	Call line terminal
	Audio ground
+	24V DC(+) connection
- :	24V DC(-) connection

Lay the system out before beginning installation. Decide on the most efficient cable runs and assign station numbers. Future service or expansion of the system will be facilitated if you draw a diagram of the system. System wiring diagram is shown in Figure 2.



### 4. Wiring

Use multi-conductor cable. Do not use twisted pair or shielded cable. The number of conductors required equals 3, plus the total number of Stations. Single Master/Remote system wiring consists of 2-conductor cable from each remote to the master. Begin wiring with station number 1. Write the color code of each wire on your diagram. Be sure to connect the proper wire to the L terminal at each station. Be sure to observe correct polarity when connecting the power supply.

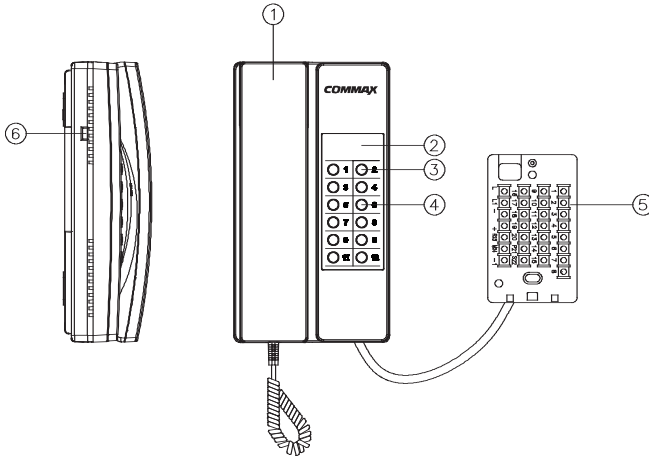


### 5. Power Supply

Use only the model RF-2AS power supply. **BE SURE TO OBSERVE CORRECT POLARITY WHEN CONNECTING THE POWER SUPPLY TO THE JUNCTION BOX.**

Connect power supply after system wiring is complete.

## 6. Operation Instruction



- ① Handset
- ② Button Plate
- ③ Call Button
- ④ LED Lamp
- ⑤ Conductor
- ⑥ Volume Switch

## 7. Call Another Station

### 1. Master to Remote

Raise the handset and press the desired call button. A call signal will be heard at the selected station.

Place the handset on the hook switch to end a call.

### 2. Remote to Master

Just lift up the handset, a call signal will be heard from the Master.

When finish talking, place the handset for stand-by.

## 8. Wiring Diagrams

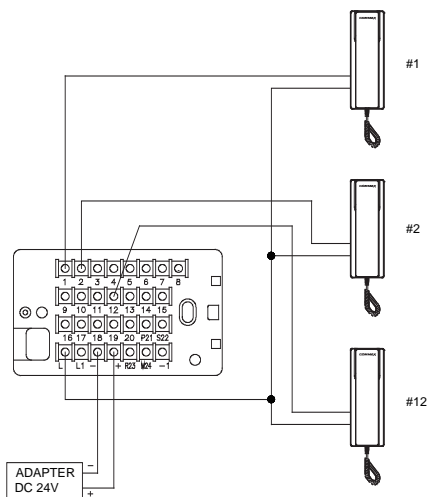


Figure 1. System Wiring Diagram

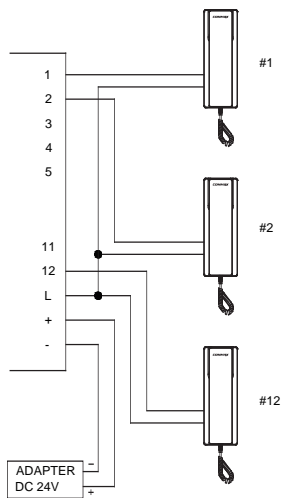


Figure 2. TP-12RM master with TP-S remotes



## 9. Important Safety Instructions

- Do not connect the power supply until system wiring is complete.
- Except for the power supply AC power cord plug, do not connect wires directly to AC power.
- Do not expose any equipment to rain or moisture
- Do not hammer on or staple through cables.
- Route cables away from excessive heat and high-voltage cables.
- Do not alter component wiring.



## 10. Specifications

- No. of stations : Single master and up to 12 remotes.
- Operating Voltage : 24VDC
- Power Supply : Model RF-2AS
- Supply Current : 30mA minimum (idle), 170mA maximum
- Output Impedance : 6 ohms
- Station Operation : Master – Push button station selection:  
full duplex handset communication  
Remote – lift up handset only.
- Call Signal : Master to remote - electric call tone.  
Remote to master - Melody sound.
- Distance : 1km with Ø0.65 cable
- Wiring required : Multi conductor cable.
- Mounting : Wall or desk-top. Junction boxes supplied.
- Temperature : 0°C~40°C (32°F~104°F)
- Dimensions: 116 X 208 X 67mm





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)

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