

Operation Manual

MULTI MEDIA CONVERTER

MMC-1000



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Product Configuration

Before unpacking the product package, please find out a flat, moisture-less place for Unpacking. After unpacking the package, please check whether there are following components.



Main Body



Power Adaptor



Mini XLR Connector

Before Using ..

Before using this device, please read this manual carefully from the beginning to the end to fully exercise its performance and ensure longer service life through the correct use of products.

About Warranty ..

- The product warranty is included in the rear part of this users manual. We carry out free warranty repair system for one year from the date of purchase of the product based on our warranty policy. However, even during the warranty period, if there is no confirmation of our agent (or our company), or any failures/damages of the product were caused by the customers negligence, the actual cost of repair shall be charged. Therefore, please be sure to get a confirmation on the warranty from our agent (or our company) where you have purchased our product.
- Please keep the box etc used for packaging well so you can be eligible for the after-sale service.
- The period of keeping parts for after service of this device is 8 years. For more information, please contact our company.

※ Note : The parts for after service mean the circuits ·functional parts except the exterior.
(In accordance with our company regulation).

Notice Warning

- This product is an electronic products, especially the internal circuitry is very sensitive to shock and static electricity.
- Please avoid hot and humid place for storage.
- Optimum operating temperature is -10°C ~ +40°C.
- Failures resulted by the customers negligence shall not be warranted by the manufacturer.
- Please be noted that falling apart of the sticker or label from the product or damaged parts may be the direct cause of failure.
- Please do not remove the connecting cable or turn the power OFF while the system is operating.

Before starting ..

This manual is a guidebook with regard to the method of use and composition of the **Multi Media Converter** (Hereinafter "Device"). Before using this device, please be sure to read this manual thoroughly. After unpacking the package, please check various components and, if you have any questions or inquiries, please contact our agent from whom you have purchased the device or our company.

Safety Cautions (Please check without fail)

1. Cautions before installation of the product.

- Please pay special attention not to install the device in the following places to avoid potential failure of the device.
 - A place directly exposed to sunlight or close to heating elements such as steam, heater, stoves etc.
 - Bad ventilation, humid and dusty area.
 - ※ When using assembled on the system rack, please use a rack designed to be well ventilated as possible.
 - A place near to magnetizing equipments.
 - An unstable place where is vibrating or sloping.
 - A place near to strongly flammable substances such as alcohols, aerosol insecticide.
 - ※ When cleaning this device, please lightly wipe out with a dry soft cloth applied with poly-wax and then wipe out again with a dry cotton flannel for preservation.
- Before connecting power cord, please check the voltage for sure.
- After unpacking the package, please discard the vinyl pack. (Please keep it out of children's reach as it will be very dangerous if the child puts it on the head).

2. Cautions on product usage

- If products are dismantled for repair by an unauthorized person, you may not be eligible for the maintenance and repair service. Hence, in case of failure of the products, please contact the dealer from whom you have purchased the product or our company.
- Please read carefully the users manual before using the product.
- When inevitably dismantle or repair the defects, please perform the work very carefully as the parts or components are very sensitive.
- Please do not touch receptacles or power lines with wet hand for safety.
- Please be noted that the power line must be accurately plugged into the receptacles.
- Please do not wipe the products with substances containing alcohol such as thinner and benzene etc.
- Please do not touch the terminal exposed to the outside as possible.
- Please operate the device in a well air-ventilating place.
- Please do not dismantle or repair device randomly.
- Please do not place heavy objects on the main body of the device.
- Please do not move the device during operation.
- Before unplugging the power cord, please pull out the power cord after shutting off the power switch. In case of frequent unplugging and plugging the power during operation of the device under the state that power switch is not shut off, abnormalities may be caused to the device.
- If smoke arises or strange odor smells from the main body during the operation of the device, immediately lower the power switch and contact the dealer or our company for necessary technical supports and maintenance.

Release History

| Edit | Date | Approved by | Description |
|------|---------------|-------------|---------------|
| 0 | Jan 10, 2013 | | First Version |
| 1 | June 13, 2014 | | Revised |
| | | | |

Free Maintenance

In case any problems occur with this product, you are eligible to receive services for the replacement of the parts or exchange of the product. The period of maintenance may be extended by a separate contract. For more information in this regard, please contact your dealer from whom you have purchased the product or our company.

Maintenance Condition

In case any abnormalities occur with this product within one year, replacement of the parts or exchange of the product shall be available free of charge.

(However, please be noted that failures due to the user's negligence or natural disasters are not subject to free replacement of the parts or product).

Free maintenance, replacement of parts or product is not applicable on following cases.

- Failures resulted by the user's negligence.
 - Random use of the product, not following the instructions specified in this users manual.
 - In case the rated voltage or frequency specified in this users manual is not used.
 - In case failure occurs while dismantling and repairing the device by an unauthorized person who are not qualified through a professional education.
- ※ Replacement of supplies and cleaning of the device are excluded from the maintenance.

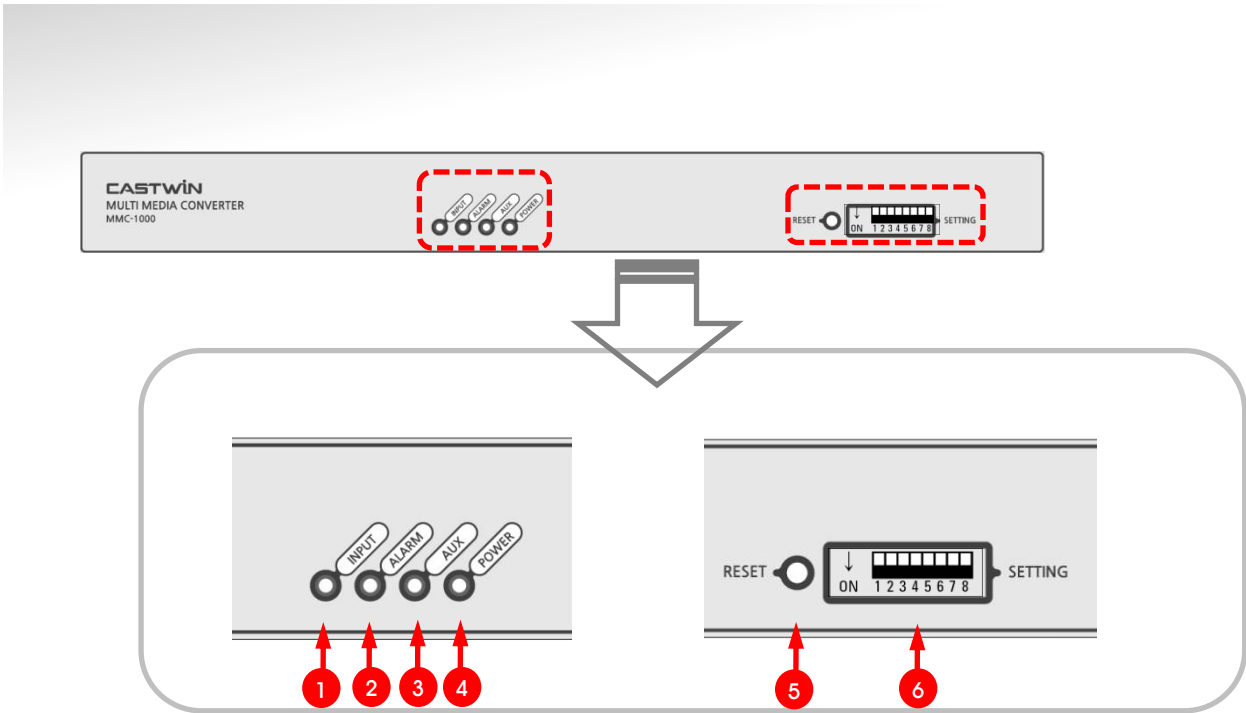
Product up-grade and replacement & repair of the device after the free maintenance period shall be available at minimum cost. Please contact your dealer or our company for further information in this regard.

| Product | | Multi Media Converter |
|--------------------------------------|---------|-----------------------|
| Model No | | MMC-1000 |
| Where purchased/ Telephone number | | |
| Date of purchase | | |
| Free maintenance period | | |
| Customer Information | Name | |
| | Address | |
| | Tel No. | |

- ◇ Contents related to the product purchasing information shall not be reissued.
- ◇ Must be fully informed about the contents and conditions at the time of purchasing the product.
- ◇ This information must be presented when taking maintenance service for the product.

Names and Features of Each Part on the Front Panel

MMC-1000

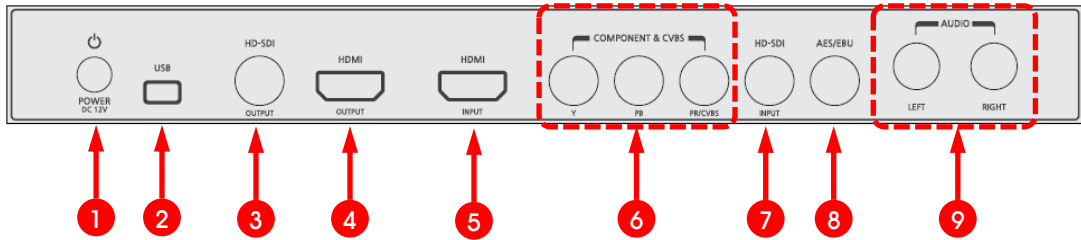


- ① **INPUT**
You will see the green light when input signal is running well.
- ② **ALARM**
You will see the red light when the device is fail.
- ③ **AUX**
- ④ **POWER**
Use power DC12V / 2.5A
You will see the red light when Converter is power ON.
- ⑤ **RESET**
If you press the reset port using by pen, the Converter will be restarted.
- ⑥ **Setting Switch**
Setting of Video Input and Audio Input. (DIP S/W)
You are able to set with a pen "Video Input and Audio Input"
*Note: Switch 1~4 are used. 5~8 are not in use.

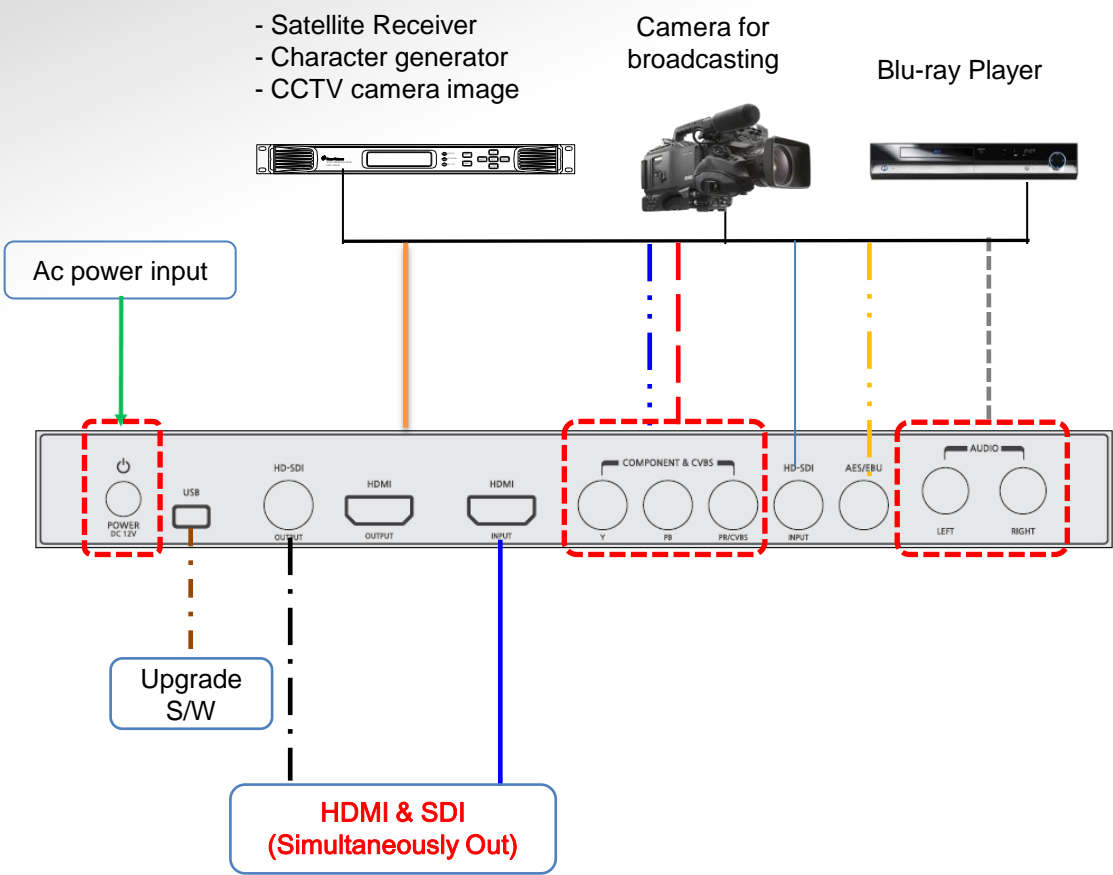
| MMC-1000 | | ↓ ON ☐ OFF | |
|------------------------------------|--|--------------------------------------|--|
| Video Input | | Audio Input | |
| 1 2 | | 3 4 | |
| <input type="checkbox"/> SD-SDI | | <input type="checkbox"/> SD-SDI | |
| <input type="checkbox"/> HDMI | | <input type="checkbox"/> HDMI | |
| <input type="checkbox"/> COMPONENT | | <input type="checkbox"/> Audio L / R | |
| <input type="checkbox"/> CVBS | | <input type="checkbox"/> AES / EBU | |

Names and Features of Each Part on the Rear Panel

MMC-1000



- ① Power Input Terminal
Use power DC12V / 2.5A
- ② USB Port
All of media scaler can be updated via USB port.
- ③ HD-SDI Signal Output Terminal (HD-SDI Output)
A terminal connecting HD-SDI or SD-SDI signal Output
- ④ HDMI Signal Input Terminal (HDMI Input)
A terminal connecting HDMI signal Input.
- ⑤ HDMI Signal Output Terminal (HDMI Output)
A terminal connecting HDMI signal Output
- ⑥ Component/Composite Signal Input Terminal
A terminal connecting analog video signal input of component method.
- ⑦ HD-SDI or SD-SDI Signal input Terminal (HD-SDI Input)
A terminal connecting HD-SDI or SD-SDI signal Input.
- ⑧ AES/EBU Digital Audio Signal Input Terminal
A terminal connecting digital audio signal input of AES/EBU method.
- ⑨ Stereo Audio Signal Input Terminal (Audio In, Left/Right)
A terminal connecting stereo audio signal input of analog method.




| ITEM | Symbol | Use cable | Connection | Note |
|----------------|--------|---------------------------------------|------------|------|
| AC power input | | Power cable use of separate way offer | | |
| USB | | USB cable | | |
| HD-SDI OUTPUT | | HD-SDI or SD-SDI exclusive use cable | BNC type | 75Ω |
| HDMI INPUT | | HDMI exclusive use cable | | |
| HDMI OUTPUT | | HDMI exclusive use cable | | |
| COMPONENT | | Component cable | | |
| COMPOSITE | | Composite cable | | |
| AES/EBU input | | Coaxial cable (RG-59) | BNC type | 75Ω |
| HD-SDI INPUT | | HD-SDI or SD-SDI exclusive use cable | BNC type | 75Ω |
| Stereo input | | Audio cable | | |

Make sure before reporting troubles


| Troubles | Points to be checked |
|---|---|
| Power does not IN Red light does not light up | <ul style="list-style-type: none">• Check whether the power plug is accurately connected. |
| Power IN but device does not work | <ul style="list-style-type: none">• Check if there is any magnetic objects near around the product.• Please unplug the power plug and reconnect it. |
| Can not see the screen and hear the voice. Picture quality is bad and sway | <ul style="list-style-type: none">• Check the connection status of the input signal cable.• Check the setting status of the input signal.• Check the connection status of the output cable.• Check if the connecting cable is not damaged. |
| The TV in short distance works but the one in long distance does not work | <ul style="list-style-type: none">• Check the status of the line amplifier setting. |

Instruction Manual for Mini XLR connection

Complete product

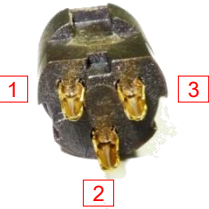


Front view

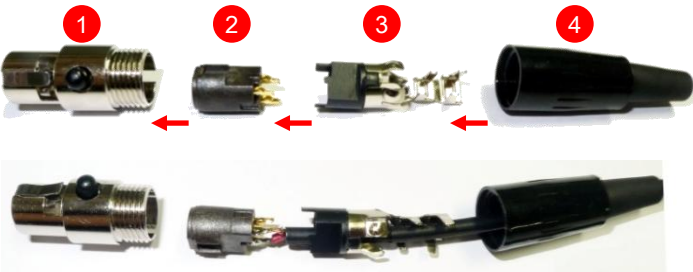


Rear view

1 : Signal
2 : GND
3 : Signal



Assembly diagram











Assembly method

1. Put cable into ④ -> ③ -> ②.
2. Connect the cable core wire by soldering on the connecting pin of ②.
3. Put ③ into ②, after that fix the cable by pressing iron part of ③.
4. Insert ②+③ into ①.
5. Insert ①+②+③ into ④, after that turn it.

Unbalance type and Balance type cable Connecting method

- * Please do not change position of 1 Signal cable and 3 Signal cable when you connect it.
- * Please note this that the line color is an example of helping your understanding.
It is different from actual color.

| | Correct | Incorrect |
|-------------------------|--|--|
| Unbalance type (2 line) | <div>Left </div> <div>Right </div> | <div>Left </div> <div>Right </div> |
| Balance type (3 line) | <div>Left </div> <div>Right </div> | <div>Left </div> <div>Right </div> |

Product : _____ Model : _____

Date of Purchase : _____

Customer : _____

Tel. _____ Addr. _____

Sales Agent : _____

Tel. _____ Addr. _____

Warranty
1 year

- **Free Service** – Within warranty period
- **Paid Service** –
 1. After the warranty period
 2. In case within warranty period
 - Failures by the mishandling in use.
 - Repair, modification by other than service engineer
 - Failures by the fault during transportation
 - Failure, damage by the natural disasters such as fire, flooding etc.
 - Failures by the power abnormalities.
 - No presentation of product warranty.
 - When consuming parts are worn.

- ◆ This product is manufactured through the strict quality control and inspection processes.
- ◆ Any failures of the product resulted by the manufacturing defects shall be repaired free of charge during the warranty period from the date of purchase of the product.
- ◆ Any failures of the product occurred after the warranty period shall be repaired at the actual cost.
- ◆ In case all the columns prepared in the warranty are not completely filled up or warranty is lost, free repair service shall not be available. Therefore, please keep this warranty well after obtaining due confirmation from the dealer.

◆ In case failure occurs, please ask repair to your dealer from whom you have purchased the product or to our company.

◆ Matters not specified in this warranty are subject to the consumer damage compensation regulation.

| Location | Repair detail and explanation for usage | Coverage | Tel No | FAX |
|----------|---|----------|--------|-----|
| | | | | |
| | | | | |

| Y/M/D | Repair detail and Explanation for usage | Free or Paid Service | Where repaired | Engineer | Signature |
|-------|---|----------------------|----------------|----------|-----------|
| | | | | | |
| | | | | | |

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