



HD-ANALOG MULTI FORMAT UTP SOLUTION

SC-MUCP0801E

User's manual



Safety Warnings and Cautions

This is to protect user safety and prevent property damage.

Please read carefully and use it correctly.

Warning (If not followed, the user may die or be seriously injured.)

■ **Before installation, be sure to disconnect the power cord from the device before installation.**

Also, do not use multiple power plugs at the same time.

- There is a risk of overheating, fire and electric shock.

■ **Do not expose the device to dripping or splashing water, and do not place anything filled with water, such as a vase, on top of the device.**

- If liquid spills into the product, it may cause malfunction or fire.

■ **Since there is a high voltage part inside this device, do not open the lid arbitrarily and never disassemble, repair, or modify it.**

- There is a risk of fire, electric shock, or injury due to abnormal operation.

■ **Do not install in a place with a lot of moisture, dust or soot.**

- It may cause electric shock or fire.

■ **During and after installing the device, always keep the place where the device is located clean and free of dust. In particular, when cleaning the device, be sure to wipe it with a dry towel, and do not use water, thinner, or organic solvents.**

- There is a possibility of damaging the surface of the device, and there is a risk of breakdown and electric shock.

■ **Place the product in a cool place out of direct sunlight, maintain an appropriate temperature, and avoid sources of heat such as candles and heaters. Also, keep equipment and tools away from places where people come and go.**

- There is a risk of fire.

■ **Pay close attention to possible hazards in the work area, such as damp floors, ungrounded power extension cables, worn power cords, and lack of safety grounding. In case of problems, contact the place of purchase or an expert.**

- There is a risk of fire and electric shock.

■ **Various external input/output ports such as the power cord protrude from the back of the device, so if installed too close to the wall, the cable may be bent or pressed forcibly, resulting in breakage or breakage. Keep the back of the product at least 15 cm away from the wall and the side at least 5 cm away.**

- It may cause fire, electric shock or injury.

■ **The voltage fluctuation range for the input voltage for the operation of this device is within 10% of the specified voltage. Also, do not use electric heaters such as hair dryers, irons, and refrigerators together with the outlet to which the power connector is connected.**

- It may cause abnormal heat, fire or electric shock.

■ **When there is thunder or lightning, pay attention to safety and unplug the power plug.**

■ **Use a power source that satisfies the Limited Power Supply Test (LPS).**

Caution (If not observed, it may result in personal injury or property damage)

- **Avoid installation in a place with strong magnetism or electric waves, or in a place close to wireless devices such as radios or TVs.**
 - Install in a place where there are no magnets, radio waves, or severe vibration.
- **A place with appropriate ambient temperature and humidity is recommended.**
 - Avoid places with extremely high temperatures (above 50°C), low temperatures (less than -10°C), or places with high humidity.
- **Do not place heavy objects on the product or allow foreign substances to enter the product.**
 - It may cause malfunction.
- **Install in a well-ventilated place and avoid direct sunlight or heat sources.**
- **Strong impact or vibration can cause device failure, so be careful when using it.**
 - Install it where there is no severe vibration.
- **If there is a strange noise or smell, unplug the power plug immediately and contact the place of purchase or service center.**
 - There is a risk of fire and electric shock.
- **Properly circulate the air in the system operation room, and securely fix the cover of the main body.**
 - It can cause failure due to environmental factors.
- **In order to maintain the performance of the system, ask a service center for regular inspection.**
 - We are not responsible for any breakdowns caused by the user's negligence.
- **Be sure to connect the power cord to a grounded outlet.**
 - Electrical shock (electric shock) and injury may occur.
- **Place the power plug where it is easy to operate.**
 - If a problem occurs with the product, you must unplug the power plug to completely cut off the power. The main unit's power button alone does not completely shut off the power.
- **If this device is used adjacent to equipment that generates strong radio waves such as walkie-talkies (TRANCEIVER, walkie-talkie, etc.), repeaters, etc., the video signal may be affected, and abnormalities such as noise or screen cracking may occur. . Do not use in this way as it may cause equipment failure.**
- **Transmission medium (CABLE) must use UTP (CAT.5e) cable.**
- **UTP (Unshielded Twisted Pair) cable is for indoor use only, so use STP (Shield Twisted Pair) cable for outdoor use.**
- **Depending on the type of UTP cable, the transmission distance may vary.**
- **For problems or questions that occur other than the above, refer to the user manual, and if you need help from a professional technician, contact our A/S center.**

1. Product Introduction







1-1. Summary

SC-MUCP0801E is a 1-channel UTP video transmission kit that supports various HD-Analog signals. AHD, TVI, and CVI are supported, and existing SD analog signals can be also used. SC-MUCP0801E is an excellent product for field application as it is made up of a slim size aluminum case.

1-2. Product Features

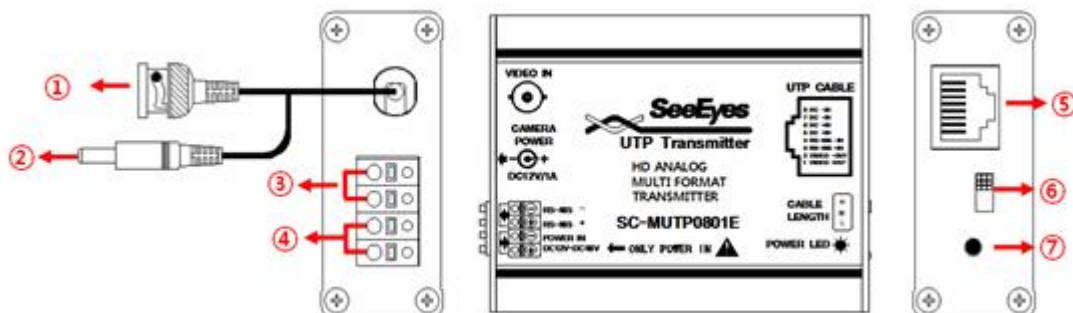
- HD-Analog signal can be transmitted through UTP cable
- Supports 3-step signal level adjustment switch for signal compensation (transmitter)
- Various video signals available (AHD, CVI, TVI, CVBS)
- When DC 48V power is input, maximum DC 12V/1A power can be supplied for powering the camera.
- Level adjustable according to cable length (receiver)
- Built-in surge protection circuit

2. Product composition

SC-MUTP0801E(TX)	Load resistor	User manual
		
SC-MURP0801E(RX)	DC 48V adapter, power code	Lead-in wire
		

3. Product appearance and setting method

1) SC-MUTP0801E (TX)



① VIDEO INPUT: video input terminal

② **CAMERA POWER:** DC12V output terminal

※ If CAMERA power is not supplied or DC12V output terminal is not used, be sure to connect a load resistor.

③ **RS-485:** RS-485 DATA connection terminal (+/- polarity caution)

④ **POWER IN:** DC12V and DC48V input terminals (+/- polarity caution) (DC)

※ Please do not connect an adapter to this terminal when power is supplied from the receiver or junction box.

⑤ **UTP CABLE:** Video output/power input terminal for RJ-45 connector

⑥ **CABLE LENGTH:** Top/Middle/Bottom selection terminal according to UTP CABLE length

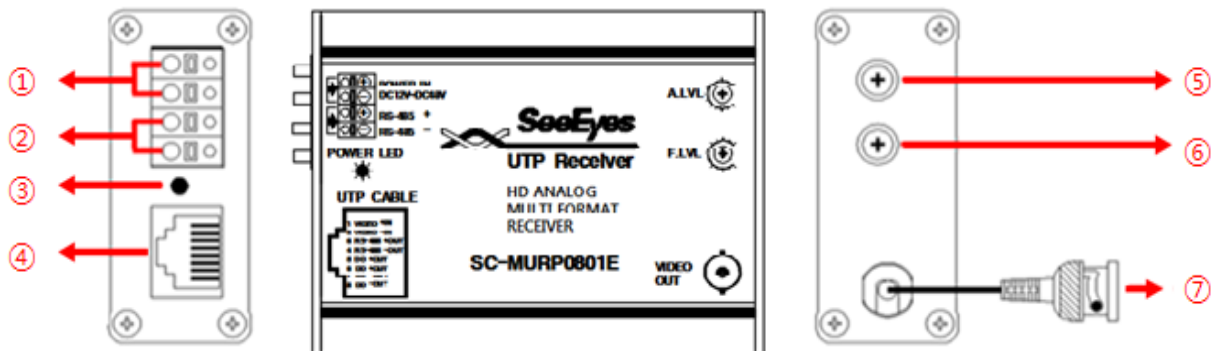
Switch	100 ~ 300m	300 ~ 400m	400m ~ 600m
Bottom	●	●	
Middle	●	●	●
Top		●	●

※ The above configuration table is based on AHD.

※ There may be differences depending on camera, DVR, and cable specifications.

⑦ **POWER LED:** RED LED turns on when power is applied

2) SC-MURP0801E (RX)



① **POWER IN:** DC12V and DC48V input terminals (caution: +/- polarity)

② **RS-485:** RS-485 DATA connection terminal (caution: +/- polarity)

③ **POWER LED:** RED LED lights up when power is applied

④ **UTP CABLE:** Video input/power supply terminal using RJ-45 connector

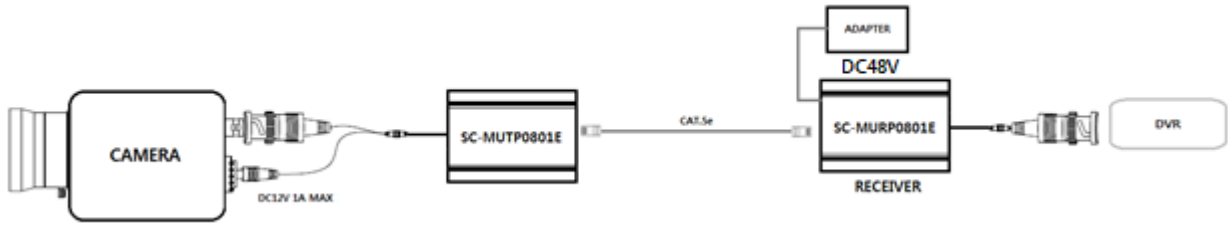
⑤ **A.LVL:** Variable switch for adjusting the brightness of the video (amplitude adjustment switch)

⑥ **F.LVL:** Video color control variable switch (color control switch)

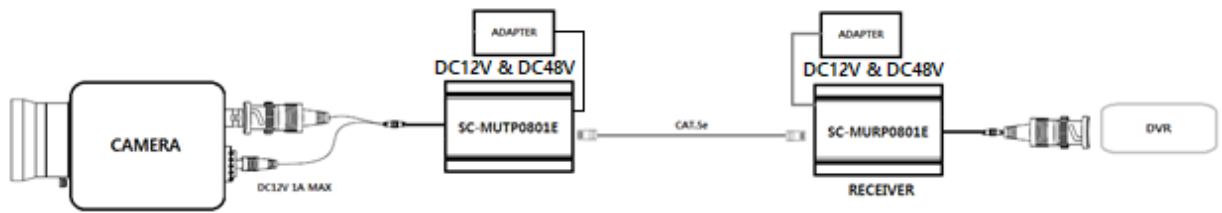
⑦ **VIDEO OUT:** Video output terminal

4. Installation guide

4-1. When DC 48V is supplied from the receiver.



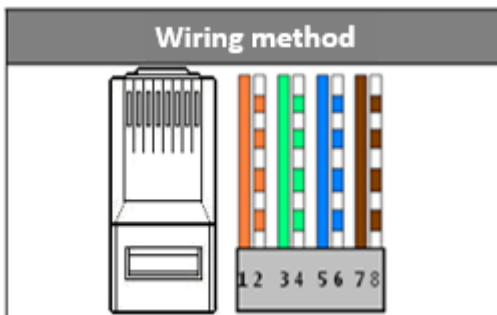
4-2. When supplying with DC12V/DC48V respectively.



- SC-MUTP0801E converts the power input through UTP line or terminal block into DC 12V and outputs it. (EX. When DC 48V is input to RX, DC 12V is output to the power output terminal of TX)

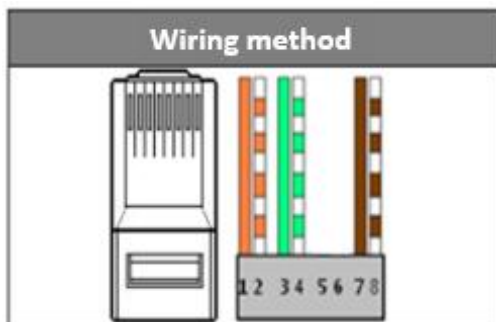
5. UTP cable wiring

5-1. In case DC 48V power is supplied from Receiver



Number	Color	Function
1	Orange	Video +
2	Orange+ White	Video -
3	Green	Data +
4	Green+ White	Data -
5	Blue	Power +
6	Blue+ White	Power +
7	Brown	Power -
8	Brown+ White	Power -

5-2. When connecting DC12V/DC48V respectively



Number	Color	Function
1	Orange	Video +
2	Orange+ White	Video -
3	Green	Data +
4	Green+ White	Data -
5		
6		
7	Brown	Power -
8	Brown+ White	Power -

※ Precautions for wiring work

- When supplying power using a separate adapter, cut off No. 5 and 6 (power line) of the UTP CABLE



as shown in the above figure (5-2).

(When the line is connected, power may flow backwards and cause a malfunction)

- When using the TX adapter to supply power, use a DC 12V/1A or higher adapter.

(DC 48V is recommended when using a high load.)

6. Specifications

MODEL		SC-MUTP0801E(TX)	SC-MURP0801E(RX)
Video input signal		AHD, CVI, TVI, CVBS	
Video output signal		Same as input signal	
Input power		DC 48V  Over CAT.5e	DC48V 
Output power		DC 12V / 1A	
Current consumption		DC 48V 20mA	
Video signal compensation		3-level control switch (select Top/Middle/Bottom)	VR adjustment (A.Level, F.Level)
Connection port	RJ-45	Video: 1,2, DATA: 3,4, +Power: 5,6, -Power: 7,8	
	video input	51Ω 1Vp-p (BNC-M Harness)	51Ω 1Vp-p (BNC-M Harness)
	Terminal Block	4P Terminal Block: 2P Power, 2P Data	
	Power OUT	DC-F type	
operating temperature / operating humidity		-10°C ~ +50°C / 0 ~ 80%	
Material / Weight		Aluminum / 120g	Aluminum / 120g
External dimension		77(W) X 60(H) X 25(D)mm	

* Transmission distance for each signal (in case of RX DC 48V input)

Load \ Signal	DC12V						
	6W(0.5A)	7W(0.58A)	8W(0.67A)	9W(0.77A)	10W(0.84A)	11W(0.92A)	12W(1A)
AHD	600m	500m	400m	400m	300m	200m	100m
TVI	300m	300m	300m	300m	300m	200m	100m
CVI	300m	300m	300m	300m	300m	200m	100m
CVBS	600m	500m	400m	400m	300m	200m	100m

※ Transmission distance may vary depending on camera, DVR, and cable specifications and signals. {CAT.5e (based on 300m/28.6Ω)}

7. Product Warranty

Product name		
Model name		
Date of purchase		
Place of purchase		
Buyer	Name	
	Address and contact	
Seller	Name	
	Address and contact	
Warranty	2 years after purchase	

Damages that occur during normal handling for 2 years after purchase will be repaired free of charge. For repair inquiries, please call the phone number listed on the back of the user manual. When reporting a malfunction, accurately inform the model name and malfunction status of the product, and contact the person in charge. It is convenient to know the affiliation and name. Before reporting a problem, please take a good look at this user's manual once again. The shape and circuit of the product may be changed without notice for performance improvement.

Failures according to the following will be charged

- Malfunction due to careless user handling
- When connecting power other than the rated power
- In case the user arbitrarily disassembles or repairs
- When replacing consumables
- Failures due to natural disasters (lightning, fire, flood, tidal wave, etc.)

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