

SC-UT/UR0115C *Active UTP transmitter & receiver*

User's Manual



1 Introduction

1.1 Overview

The compact size SC-UT0115C and SC-UR0115C are active type UTP video transmission solutions with excellent interference immunity. As they are compatible with various applications, they can be linked with any type of camera and/or DVR. The UT0115C transmits video signals to long distance up to 1.5km in color without degradation.

1.2 Features

- Video transmission up to Max 1.5km (color) in high mode
- Active operation
- Excellent interference immunity
- Distance level switch (Low: under 600m, High: 600m~1.5km)
- Optimum video quality setting by the sync & burst adjustment (A.Level / F. Level)
- Possible to use the camera power adapter when connect the adapters in parallel (with power consumption under 30mA)
- Easy to install to the camera and/or the DVR
- Red LED indicator when operating
- Terminal block connector for easy installation
- Non polarity

1.3 Components

Please find the below components in your package.

SC-UT0115C and/or SC-UR0115C	User's Manual
	

2 Product Parts and Peripheral Device Connection

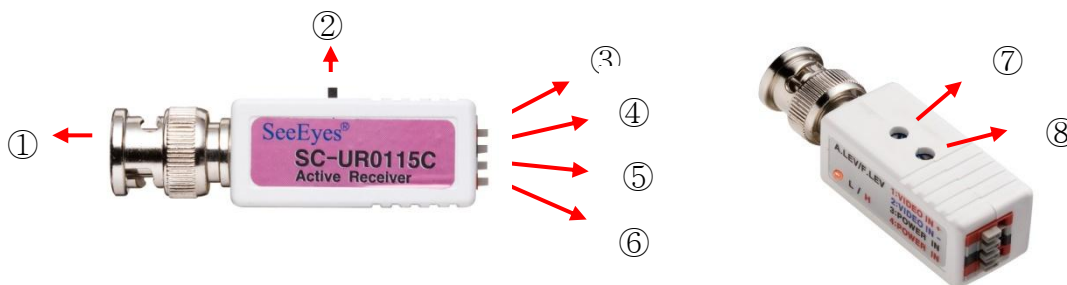
2.1 Part Names and Functions

2.1.1 SC-UT0115C (Transmitter)



- ① VIDEO IN: Connect to the video output of the camera (BNC-F)
- ② Distance Level: Adjust the distance level switch according to the cable distance. L (Low): under 600m / H (High): 600m ~1.5Km
- ③ POWER IN: Connect to the power adapter (non polarity)
- ④ POWER IN: Connect to the power adapter (non polarity)
- ⑤ VIDEO OUT (-): Connect the UTP cable to transmit the video.
- ⑥ VIDEO OUT (+): Connect the UTP cable to transmit the video.

2.1.2 SC-UR0115C(Receiver)



- ① VIDEO OUT: Connect to the Video input port (BNC-F) of the DVR or the Monitor.
- ② Distance Level: Adjust the distance level switch according to the cable distance. L (Low): under 600m / H (High): 600m ~1.5Km
- ③ POWER IN: Connect to the power adapter (non polarity)
- ④ POWER IN: Connect to the power adapter (non polarity)
- ⑤ VIDEO OUT (-): Connect the UTP cable to receive the video.
- ⑥ VIDEO OUT (+): Connect the UTP cable to receive the video.
- ⑦ A. Level: Adjust the brightness
- ⑧ F. Level: Adjust the color

How to control the A/F Level:

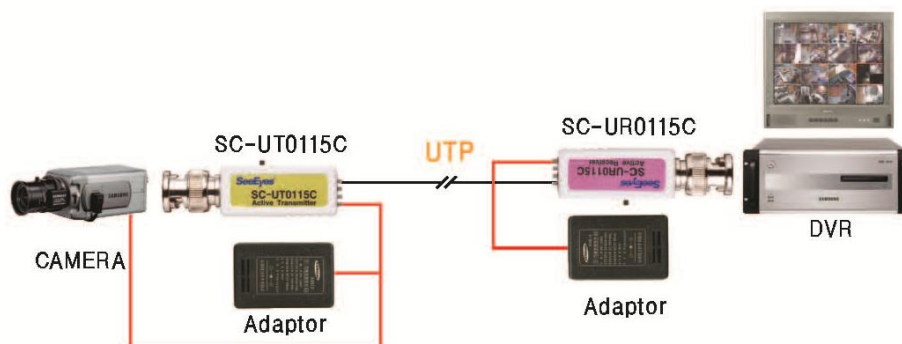
Please follow the order below to adjust the gain control of A/F level.

1. Adjust minutely the A. Level.
2. Then, adjust minutely the F. Level.
3. Adjust the A. Level and then the F. Level until you get the optimum video you want.

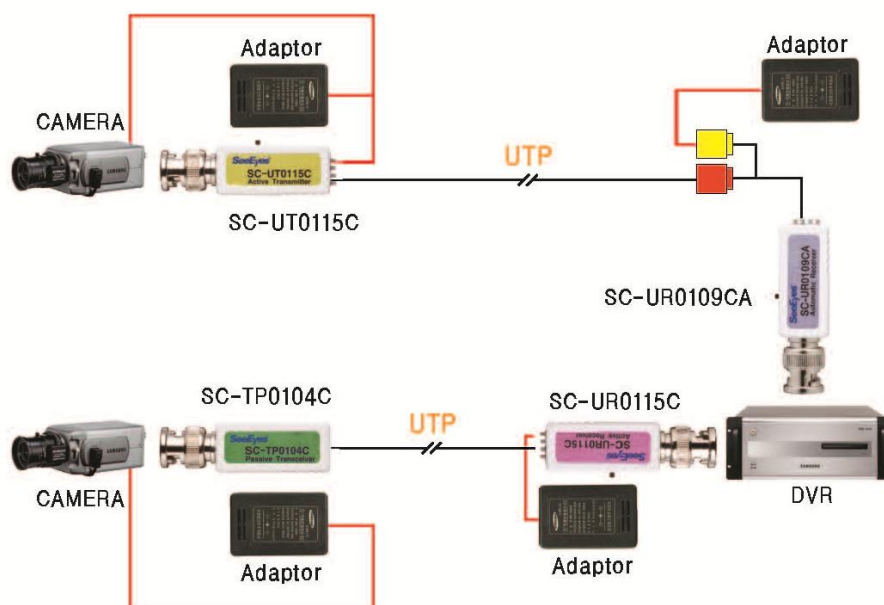
Please note that if the A/F levels are in excessively high level, it may find cross-talk in the video depending on the DVR quality. In this case, please turn down the A/F level.

2.2 Peripheral Device Connection

2.2.1 Configuration Example 1- Standard type

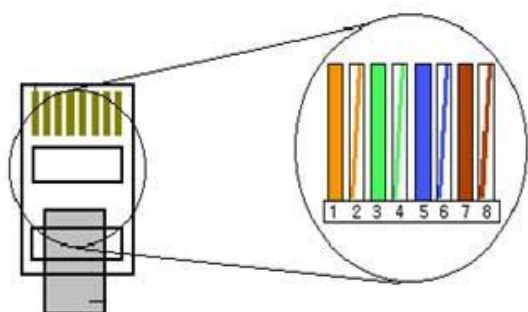


2.2.2 Configuration Example 2 – Complex type



2.3 How to connect the UTP cable

Please connect the UTP cable according to the below table.



No.	Color	Function
1	Orange	VIDEO +
2	Orange + White	VIDEO -
3	Green	
4	Green + White	
5	Blue	POWER +
6	Blue + White	POWER +
7	Brown	POWER -
8	Brown + White	POWER -

3 Precautions

- Make sure to turn the product off prior to installation.
- Do not install or use the device in a humid, hot or hazardous explosive environment.
- The operating temperature of this product is between $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$. Do not expose the product to higher or lower temperatures.
- Do not expose the device to magnetic materials, high frequency radio waves.
- Avoid exposing the device to direct sunlight or into an unstable environment.
- Do not drop the product or subject it to shock.
- Do not modify or disassemble the product.
- When installing the product, make sure to wire the product and peripheral devices properly. Do not switch the lines.
- The installation should be made by a qualified service person and should conform to all local codes.
- Please note that the transmission distance may vary depending on the loop resistance and the signal diminution of the cable.
- If there is any malfunction in the device, please contact your distributor immediately.

4 Specifications

MODEL		SC-UT0115C(Tx.)	SC-UR0115C(Tx.)
Video IN		CVBS 1.0Vp-p,75 Ω	51 Ω 1Vp-p $\sim$ 2.5Vp-p
Video OUT		51 Ω 1Vp-p $\sim$ 2.5Vp-p	CVBS 1.0Vp-p, 75 Ω
Power Consumption		Under 25mA	Under 25mA
Power INPUT		Power for Camera (AC 24V / DC 12V)	With Adapter: DC12V 500mA, AC24V300mA
Bandwidth		1.5Km:6MHz	1.5Km:6MHz
Max. Distance (CAT. 5)		Low: under 600m, High: 600 $\sim$ 1.5Km	Low: under 600m, High: 600 $\sim$ 1.5Km
Video Level Control			VR(A. Level/F. Level) Selectable between H/L
Connect Port	Video IN	BNC-M	4P Terminal Block (1,2: VIDEO / 3,4: POWER)
	Video OUT	4P Terminal Block (1,2: VIDEO / 3,4: POWER)	BNC-M
Temperature / Humidity		$-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$ / 0 $\sim$ 80%	$-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$ / 0 $\sim$ 80%
Case body / Weight		ABS/ 20g	ABS/ 20g
Dimension (mm)		56(W) $\times$ 17(H) $\times$ 17(D)	56(W) $\times$ 17(H) $\times$ 17(D)



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