

SV2000 Hardware Manual

**Version 1.2
June. 2008**

Content

Content 2

SV2000 Package Contents..... 3

Installation Step 4

Cabling Configuration 9

SV2000 Package Contents

1. SV2000 Monitor Camera
2. Mounting Kit
3. Screw Sets
4. SV2000 Warranty Card
5. DVR Side Cable



Other Items Required for Installation

1. Small TV
2. Notebook or tabletop PC
3. Installation Kit
4. SV2000 Installation Software
5. DVR system
6. CATE 5E Cable
7. Power Line Cable

Installation Step

Step 1. Mounting and wiring

Thread the signal and power supply cables through the head of mounting kit to the bottom, and install the mounting kit at desired location. Adjust the camera to desired direction, and fasten the screw at the bottom of the mounting kit.

Step 2. Fixing the cable

Take off the lens of telescopic camera, and fasten the cable glands. Fix the cable on lower housing with ring buckles. Reinstall the lens.

Step 3. Connect the wires on the terminal block

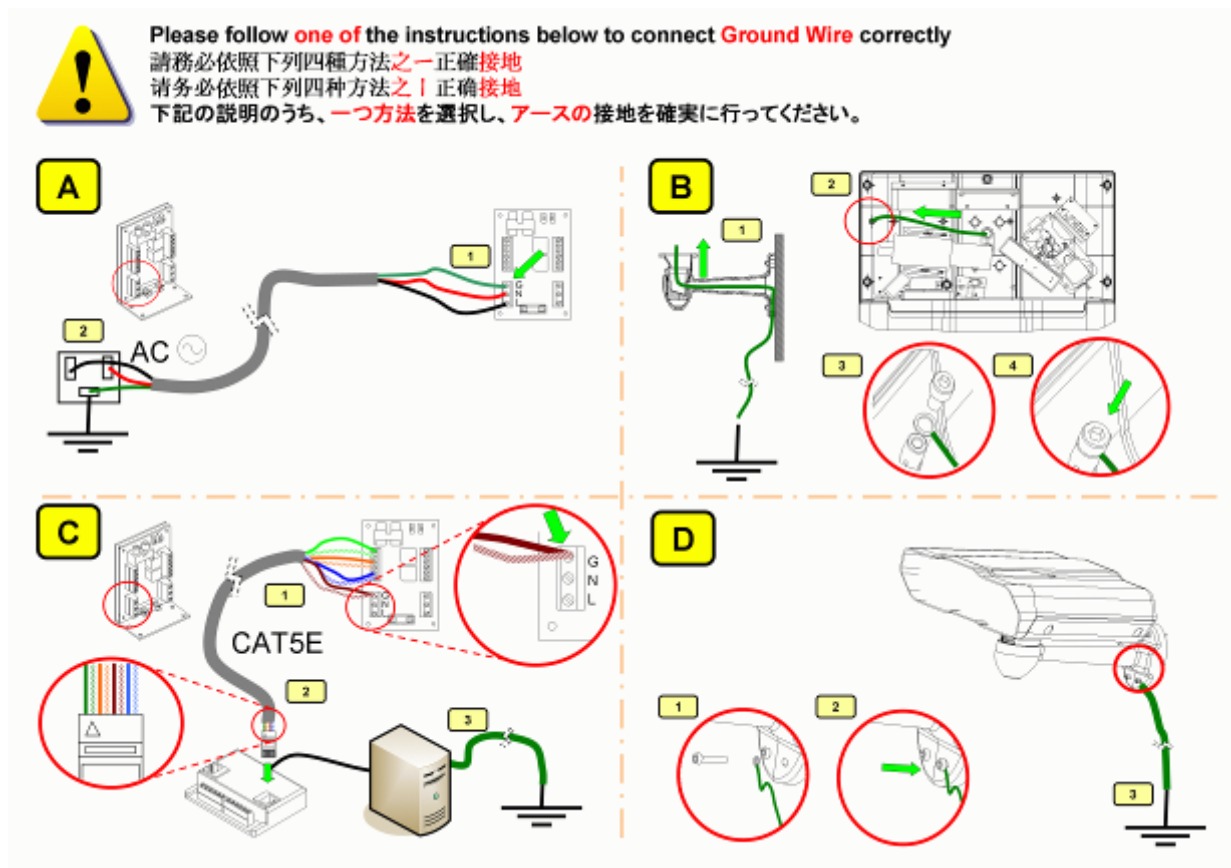
Outside video output and RS485 control input terminal

Outside AC input terminal

1.) CAT 5e cable
 Green CH1
 Green/White .. GND 1
 Orange CH2
 Orange/White .. GND 2
 Blue RS485 +
 Blue/White .. RS485 -
 Brown GND
 Brown/White .. GND

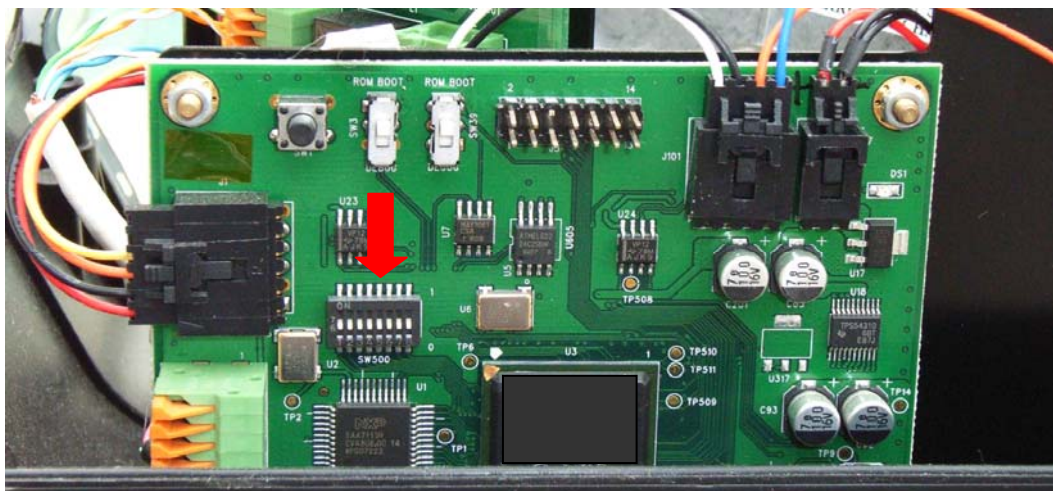
2.) Power supply cable
 Green ... Ground
 Black Neutral
 Red Hot Wire

Step 4. Grounding



Step 5. Set Camera ID

Camera ID can be set by the 8 bits dip switch (SW500), in the back of camera on the DSP control card. The ID can be set from 1 to 254 in binary.



ID=1



ID=6

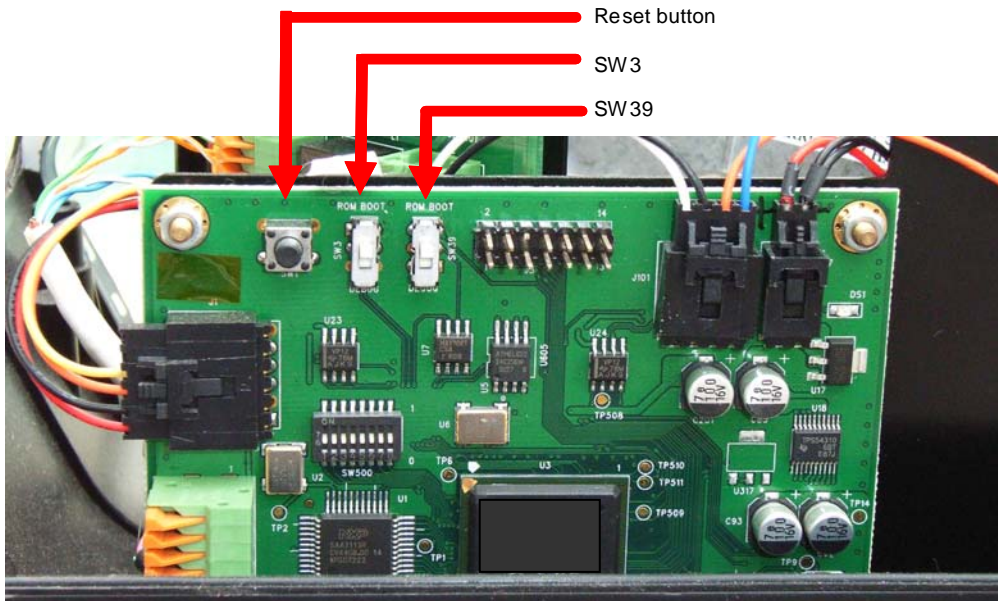


ID=128

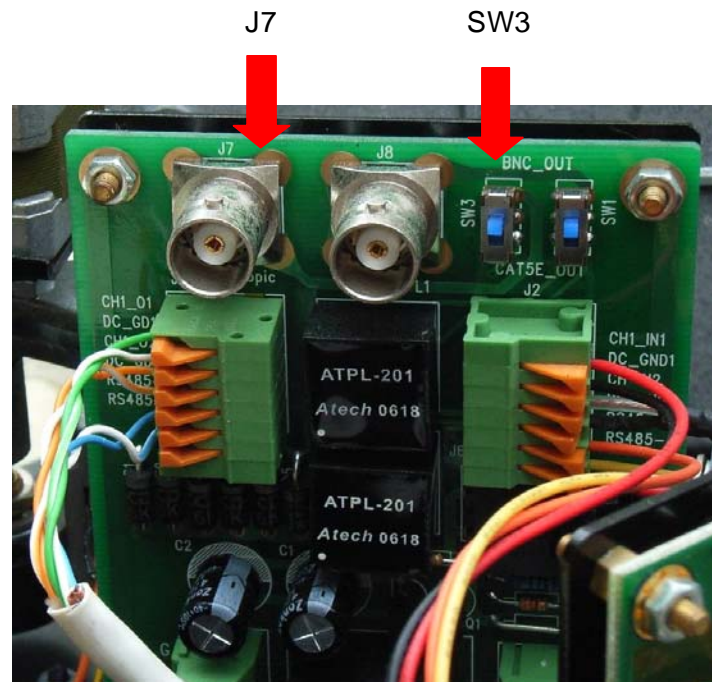
Note: Do not set ID 0 & 255, the ID are reserved for DVR or keyboard controller.

Step 6. Stop Tracking

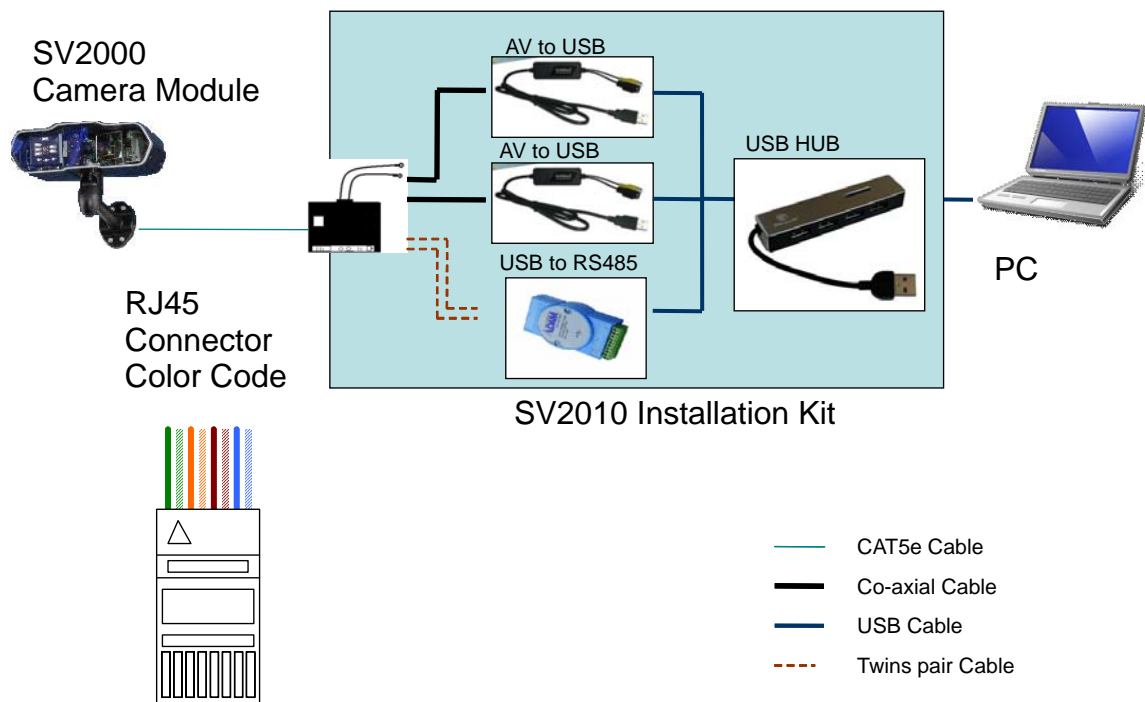
Switch down the SW3 & SW39 then push the reset button. The mirror mechanism tracking can be stopped.

**Step 7. Fine tune lens focus & zoom ratio**

Before adjusting the video, please prepare one small LCD monitor (TV) with AV input. Connect AV terminal to BNC terminal, switch SW3 and the telescopic video appear in the TV screen. The aperture, zoom ratio, and focus are adjustable. After fine-tuning, switch SW3 back to CAT5E terminal output.

**Step 8. Switch to auto tracking**

Switch up the SW3 & SW39 then push the reset button.

Step 9. Connect installation kit & notebook PC

Step 10. Install Drivers & SV2000 Installation Software

Please refer SV2000 software manual

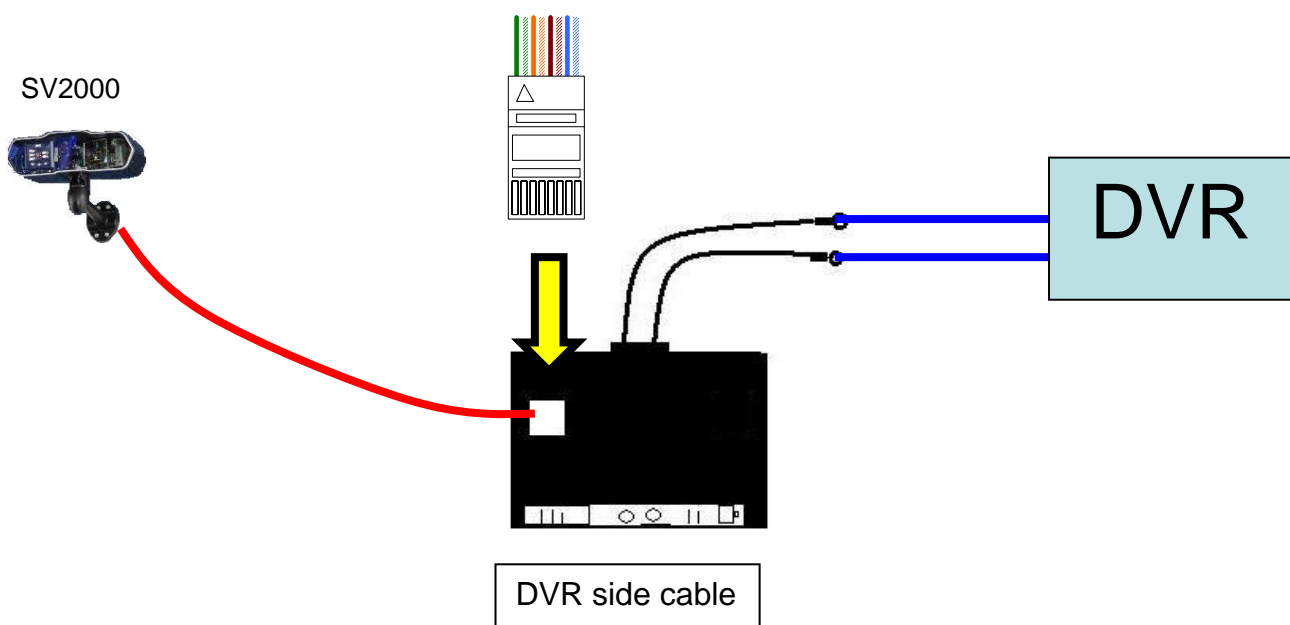
- a. Calibration Camera & test
- b. Choose the Calibration Point On Wide Angle Camera
- c. Aim the Telescopic Camera at the Calibration Point
- d. Complete all 9 Calibration Points
- e. For testing, click on the Wide Angle Camera View randomly to see if targets are in sight.
- f. Save Settings

Step 11. Set up mask & advance parameters

- a. Mask out un-wanted and/or noisy areas
- b. Setting important areas, it could be a counter area, or the entrance area.
- c. Setting the priority of each selected area
- d. Setting default telescopic camera position
- e. Fine tune horizontal, vertical offset, and motion prediction setting.

Step 12. Return to auto tracking

Exit the SV2000 Software tool, the camera is on automatic tracking mode.

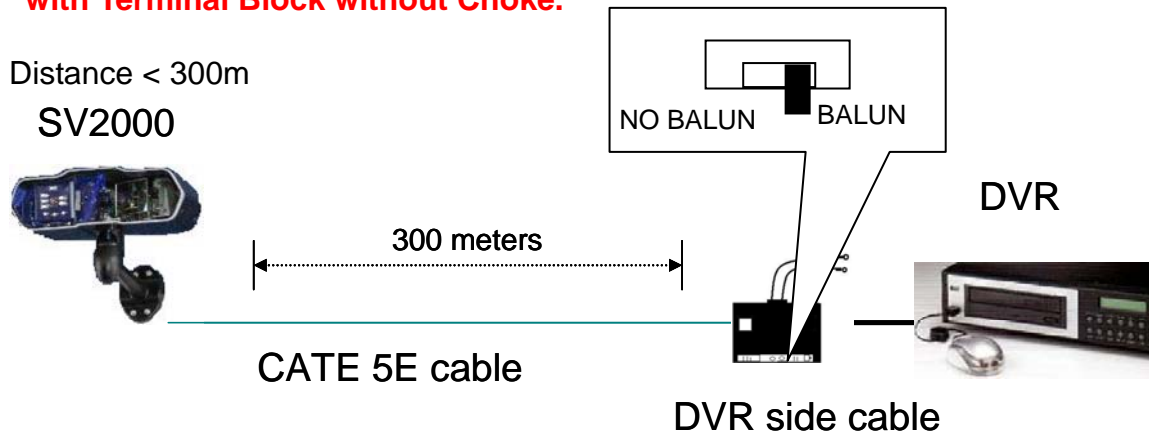
Step 13. Connect to DVR recording system to complete the installation by DVR side cable.

Cabling Configuration

Note: For application with distance longer than 600 meters please order IGUANA with Terminal Block without Choke.

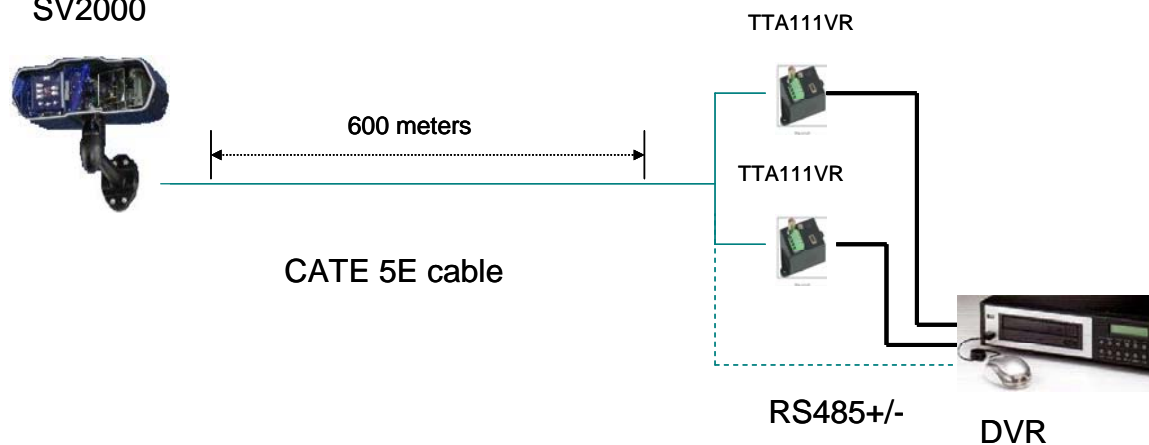
Distance < 300m

SV2000



300m < Distance < 600m

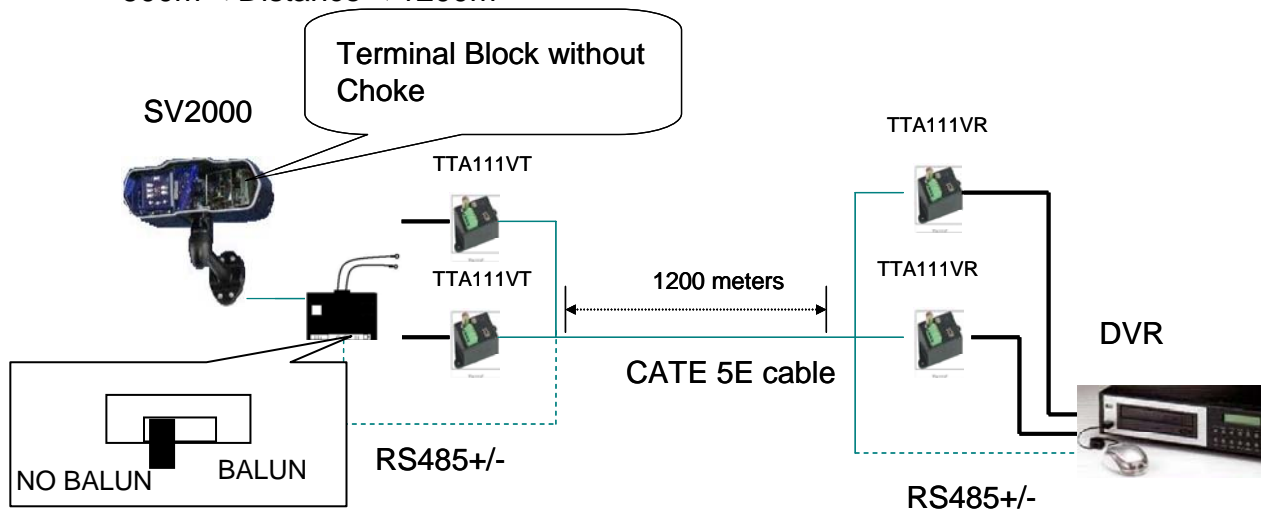
SV2000



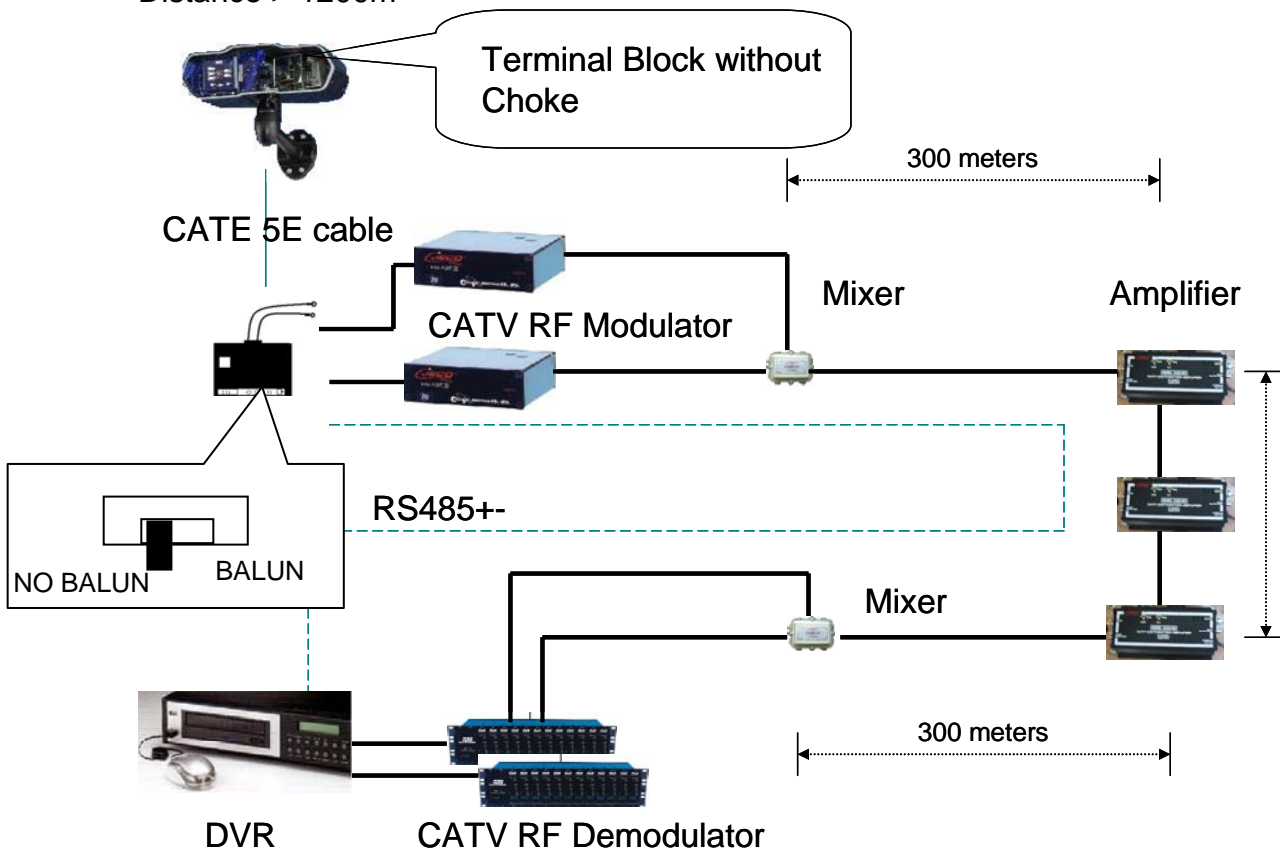
600m < Distance < 1200m

SV2000

Terminal Block without Choke



Distance > 1200m

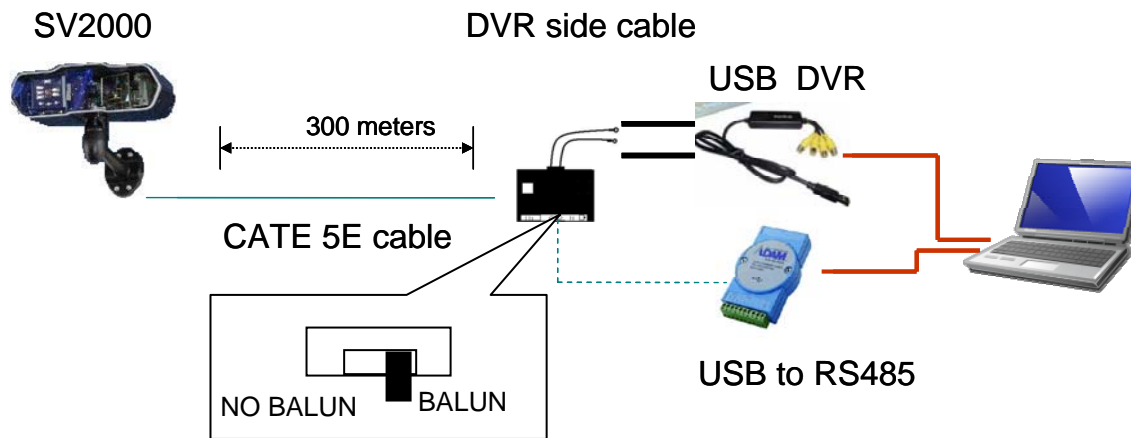


Distance = 1200meters

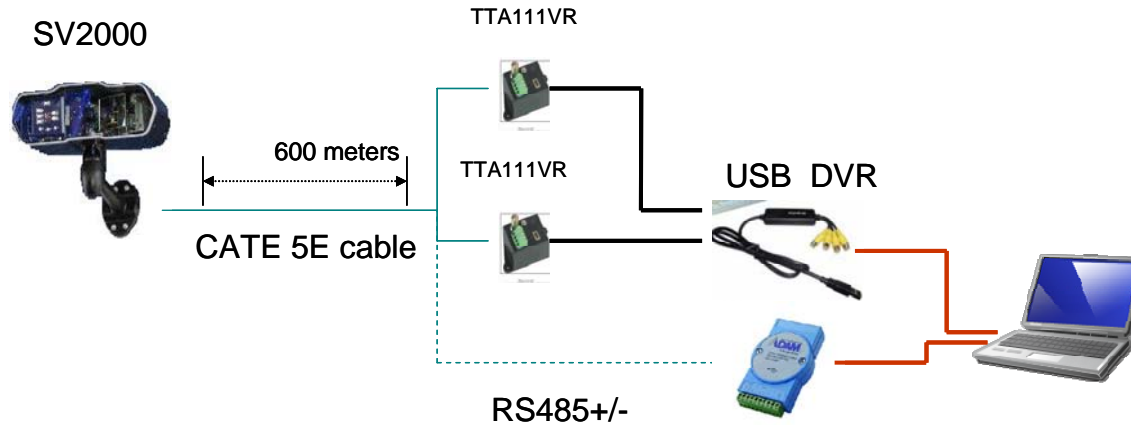
Note: TTA111VT is an active video twisted pair transmitter, and TTA111VR is a receiver.
 The two devices can be found in
<http://www.sct.com.tw/Product-2006428141343.html>.

Cabling Configuration during Installation

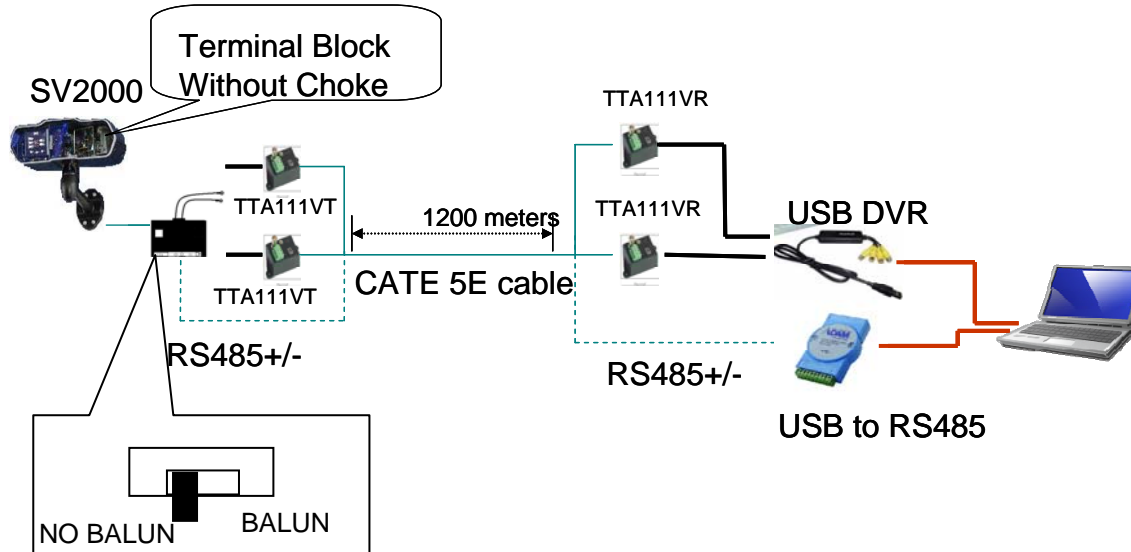
Distance < 300m



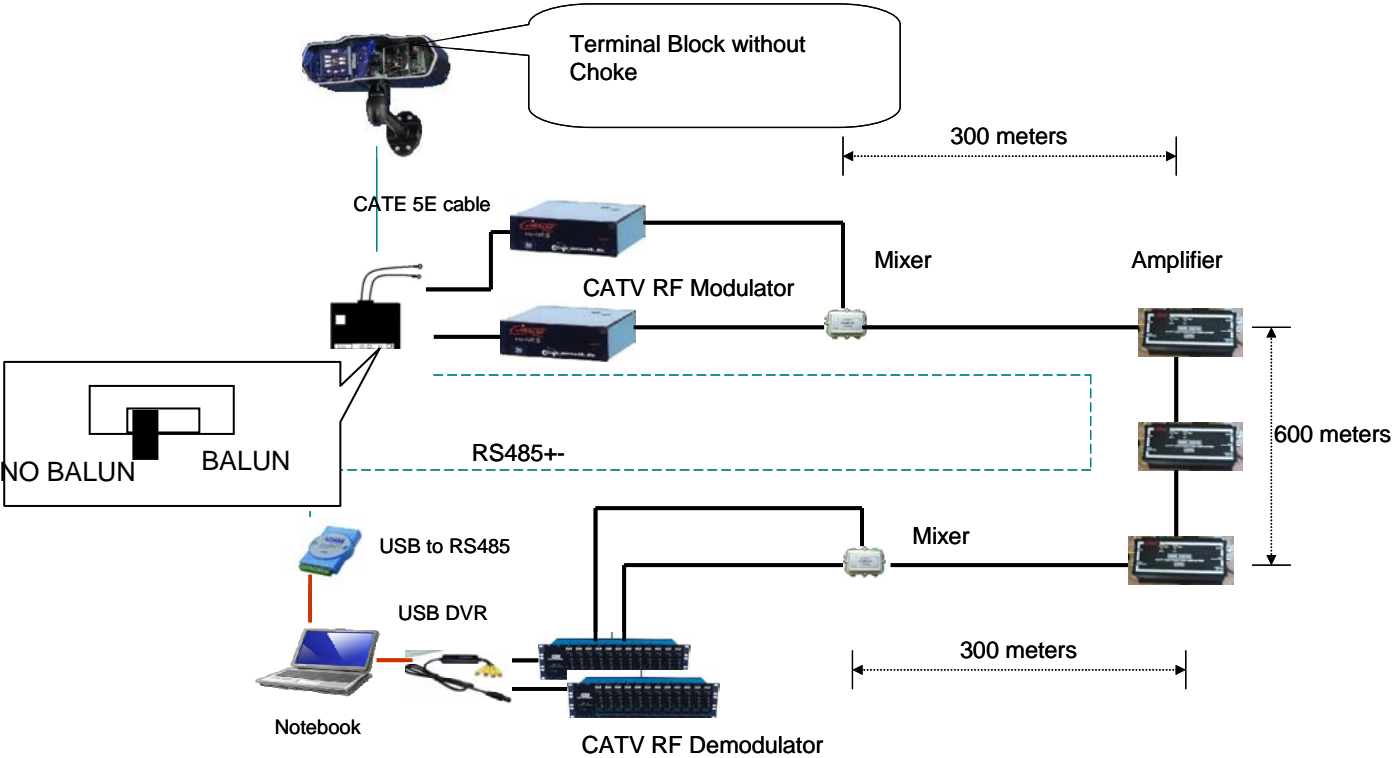
300m < Distance < 600m



600m < Distance < 1200m



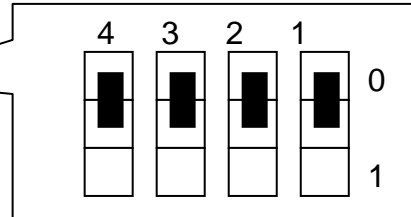
Distance>1200m



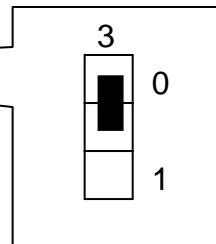
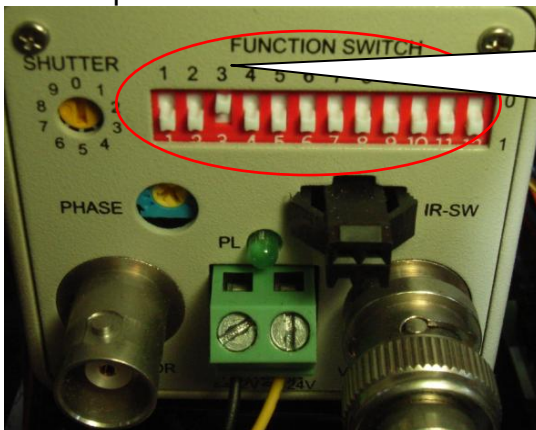
Distance =1200meters

System Default Setting

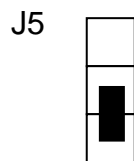
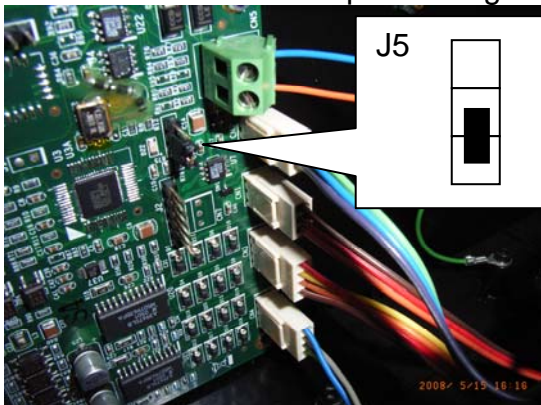
Camera Switch Setting Wide Angle Camera



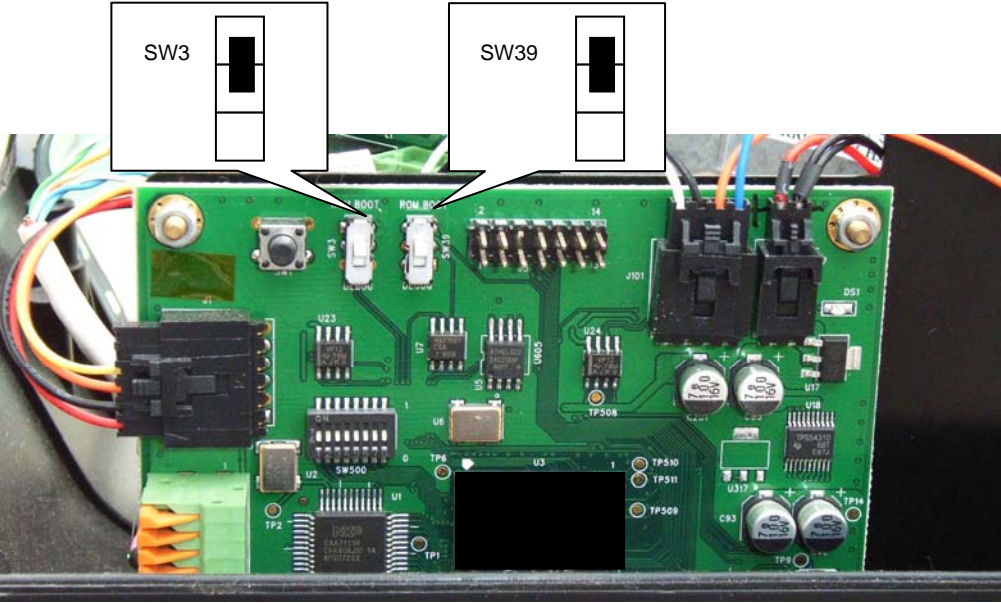
Telescopic Camera



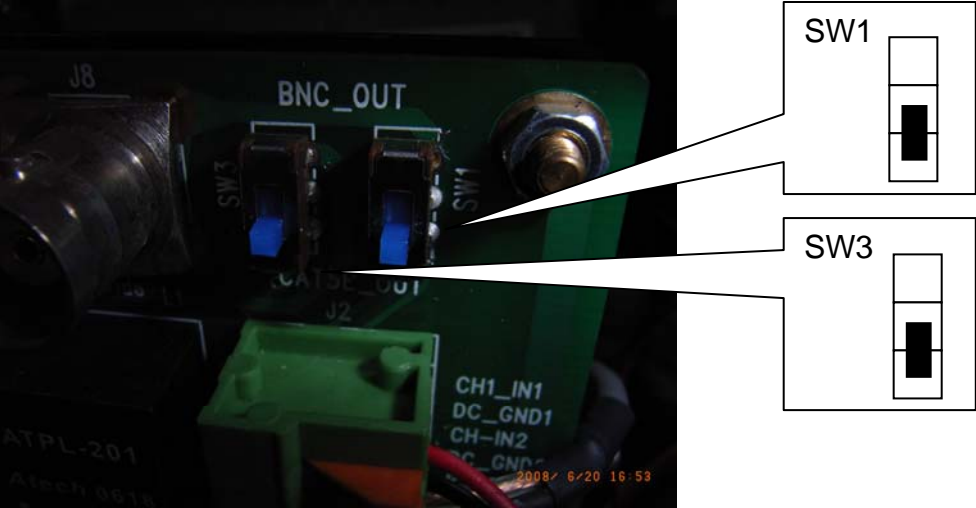
Motor Control Card Jumper Setting



DSP Control Board Jumper Setting



Terminal Block Jumper Setting



DVR Side Cable Switch Setting

