

SAMCEN

Keyboard Controller

User s manual



WARNING!

Do not use such solvent as gasoline or thinner to wipe the appearance to avoid damage; use a piece of soft cloth dipped with alcohol or water to wipe it.



WARNING!

1. Do not contact the keyboard with water or other liquids and keep the appearance clean.
2. The keyboard is only for indoor use. Never expose it in rain or moisture.
3. The LCD might not perform normally below -10 C
4. Use the power adapter supply with the keyboard. If a substitute is required, ensure the power supply is within 9-15V/1000ma.
5. Keep away from the fire.
6. Avoid collision or friction with hard objects.



IMPORTANT

This product is manufactured to comply with requirements of following directives:

89/336/EEC, 92/31/EEC, 93/68/EEC



Product Overview:

Sony VISCA RS-422/RS485 communication, high speed, long distance communication control.

2 RS422/485 communication interface, longer distance, Max 2000m.

Preset 6-16 camera, like pan control, lens position, white balance, image, pause.

SCS-KB500 Keyboard controller can be connected:

SCS-690 High Speed Dome Camera

SCS-690HD High Definition Video Conference Camera

BRC-H700/Z700 3CCD Color Video Camera

BRC-300/300P 3CCD Color Video Camera

EVI-D100/D100P/S Color Video Camera

EVI-D30/D30P Color Video Camera

SONY EVI-HD1 Camera

EVI-HD3V Communication color camera

SONY EVI-HD7V Video meeting camera

BRC-Z330 CMOS Color video camera

Sony DXC-390/390P:1/3 DSP 3-CCD color video camera

Sony DXC-990/990P:1/2 inch DSP 3CCD color video camera

Joystick: 6-axis, zoom function, shuttle, jog in the knob, auto returning

Buttons: 28, multifunction, silicon + key stroke

Display: LCD, 2 lines of 20 characters, backlight

Specification:

Dimensions: 355(L) × 150(W) × 155(H)mm

Weight: 1.47kg (w/o Power supply)

1.89 kg (with Power supply)

2.4kg (prepared for shipping)

Operating Temperature: -10°C - 70°C

Humidity: 30% - 90% (w/o condensation)

Adapter: DC12V / 1000mA

ELECTRICAL SPECIFICATION

Power source: 12 VDC

Power consumption: 2.7 W (not loaded line)

Recommended adapter: AC100-240V-12VDC/1000mA

Connectors:

1 x RJ-45 (RS-485) (for digital video recorders)

RS485(COM1)RS485 power output, 2000M(for camera)

RS485(COM2)RS485 two-way communication, standard 485 main line,
1200M(for camera)

USB-D:USB2.0(for computer)

Accessory:

1. 1 Power adaptor
2. 1 RJ45 signal cable
3. 1 junction box
4. 3pcs 1/4W resistance

SONY VISCA usage method (SCS-690TECH)

Guard position	Press Home
Set preset	number(1-6)+Set
Clean preset	number(1-6)+Del
Transfer prest	number(1-6)+Preset
Open:	ON
Close:	OFF
Backlight compensation	[●]
Picture pause	[▶]
Picture image	[▶]
LCD information open:	99+ON
LCD information close:	99+OFF

White balance

Press [TOUR] Switch mode

6 white balance

Press TOUR, as below 6:

Auto

Indoor

Outdoor

One Push WB

ATW

Manual

Manual white balance:

Press “SEQ” with 3 manual adjust-parameter

R Gain、B Gain、RB Stop

(1)Manual white balance R Gain adjustment

(1)Under Manual white balance, press SEQ, display “R Gain”

(2) “shuttle” : clock wise +, anticlockwise-

(2) Manual white balance R Gain adjustment

(1)Under Manual white balance, press SEQ, display “R Gain”

(2) “shuttle” : clock wise +, anticlockwise-

(3) Manual white balance R Gain stop

(1) Under Manual white balance, press SEQ, display “Gain Stop”

ONE PUSH

underONE PUSH WB, Press “SEQ”

Joystick:

6 Axis non-contact, high resolution, long lifetime



Cursor control (2axis)

KX KY axis

KX、KY axis:

Used for “Cursor” control or user-defined function; 16 level angle values;

Z axis:

Used for zooming control, rotation angle ± 36 , Max.64 level angle values;

B axis:

(shuttle jog), used for video recorder frame control, user-defined function.

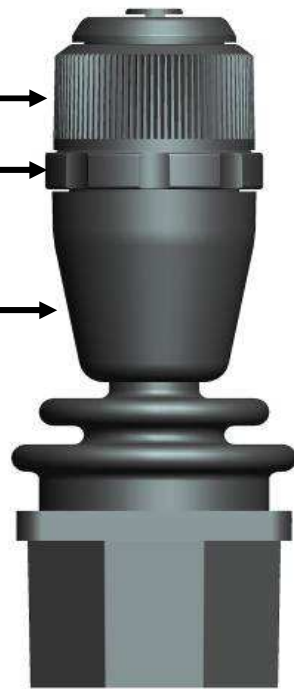
Main Joystick X、Y axis:

Pan control, rotation angle ± 36 , 0-100 level speed values;

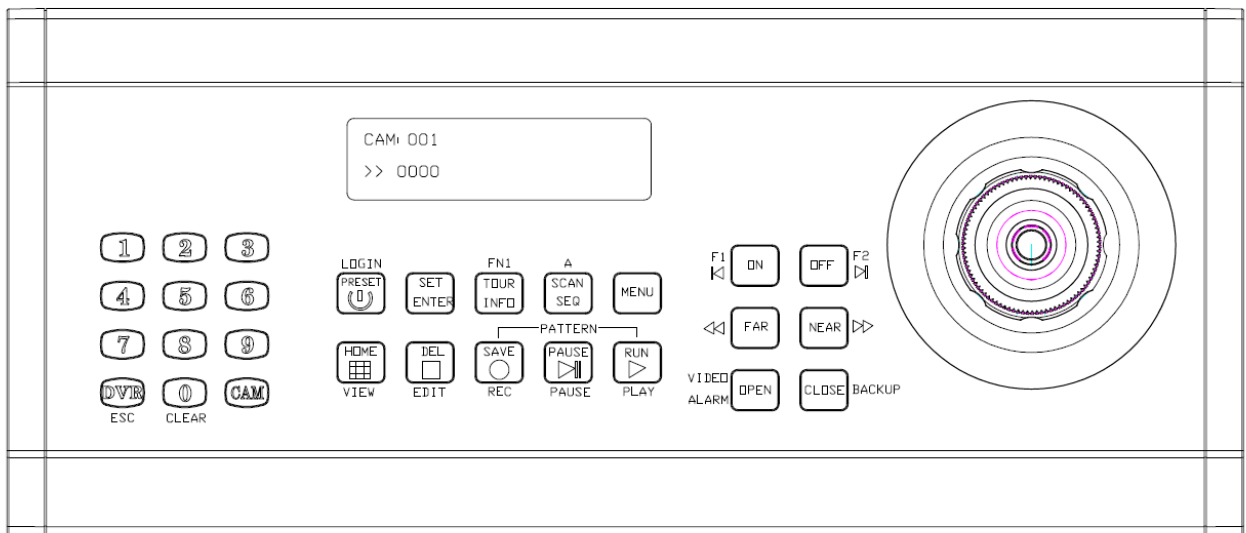
Z axis: ZOOM control

B axis: shuttle

main X Y (2 axis)



Front view:



Keystroke Backlight:

Two lights below each keystroke, blue、red, blue is for backlight, red is for function indication.

Press the keystroke, the blue light will blink for 1 second, red light for 2 seconds.

Press DVR and CAM, blue light will blink 2 times, red light will be constant on to indicate the current status.

Brief Instructions











Definition:

CAM:	CAMERA
DVR:	Digital Video Recorder
PRESET:	Call Preset
SET:	Set Preset
DEL:	Delete Preset
HOME:	Home place
TOUR:	Tours、 white balance switching
SCAN:	Scans
MENU:	Menu
SAVE:	Save (video)、 back light compensation
PAUSE:	Pause frame
RUN:	Run
ON:	Auxiliary on 、 99+ON
OFF:	Auxiliary off、 99+OFF
FAR:	Zoom out
NEAR:	Zoom in
OPEN:	Iris on
CLOSE:	Iris off
PATTERN:	Patterns

Brief Instructions:

Clear LCD:	Press “0” for 2 seconds
Shift Camera:	Number +CAM
Shift DVR:	Number +DVR
Shift DV R to CAM:	CAM or “number + CAM”
Shift CAM to DVR:	DVR or “number + DVR”
Call preset:	number + PRESE
Set preset:	number + SET
Delete Preset:	number +DEL
LCD information On:	99+ON
LCD information off:	99+OFF
ON:	ON
OF:	OFF
Backlight compensation:	[●]
Image:	[▶]
Pause:	[▶]
White balance:	[TOUR] , 6 modes.
Manual set:	refer to SCAN keyboard and B axis (shuttle) adjustment

Symbol Explanation:

 POWER 、  Stop、  Record、  Pause/Frame  Play 、
 Multiscreen shift 、  Backward 、  Forward、  Fast Backward  Fast Forward

LCD Display

Camera Operation Mode

CAM: 001 >> 0000

Camera Operation Mode, Function(Call Presets)

CAM: 001 >> 0000	[MOVE] PRESET
---------------------	------------------

DVR Operation Mode

CAM: 001 >> 0000	DVR:001
---------------------	---------

DVR Operation Mode MENU

CAM: 001 [MENU→]	DVR: 001
---------------------	----------

CAM: 001	Control of “address 001 camera”
DVR: 001	Control of “address 001 camera”
>> 0000	Number input area Max. 4 digits
[MENU→]	Menu operation under DVR status.
[MOVE] PRESET	function display area, Indicate current keystroke function and disappear after 3 seconds .

Direction control:

Joystick, 8 direction control, 24 speed parameter.

Zoom Control:

Switch ZOOM: 8 grade zoom parameter.

Actual time control:

Joystick can control direction/zoom at the same time

Set Keyboard

B axis—shuttle wheel: shift N01-10

Z axis –lens control: change current parameter option

- Forward: shuttle wheel in a clockwise direction
- backward: shuttle wheel in a anticlockwise direction
- + : Rotate Z axis in a clockwise direction
- : Rotate Z axis in a anticlockwise direction

OSD Menu

LCD OSD

Main Menu (1-10)

1. Key Backlight =On (On/Off/Active)
2. LCD Backlight =On/Off
3. Camera Protocol
=PelcoP /PelcoD /AD /Samsung /Panasonic/ DaHuaDome/Sony Visca
4. Camera Baudrate =9600 /4800 /2400
5. DVR Protocol =/Dahua/Hikvision/Dali/Hanbang/Appro
6. Alarm In = RS485 /USB
7. Alarm Do =All Red /Led Blink
8. Keyboard ID =001
9. Password1 =****
Password2 =****
10. Exit

Keyboard-setting manual:

- 1) Press CAM, under CAM can be ignored.
- 2) Press MUNU
- 3) Input password: 9999

Go to setting manual, as below:

No1: Backlight

<p>No1: key Backlight [on] off</p>
--

Exit:

Two ways:

- 1) Press MENU
- 2) No10: Exit , turn Z axis

No1: Key Backlight

<p>No1: key Backlight [on] off</p>
--

Forward next menu: Rotate shuttle wheel in a clockwise direction

Backward menu: Rotate shuttle wheel in a anticlock direction

Change current option: Turn Z axis, clockwise +, anticlockwise -
Like [O N] is effective

No2: LCD Backlight

No2: LCD Backlight [on] off
--

No3: Camera Protocol

No3: Camera Protocol [Sony Visca]

As below:

Pelco-P、Pelco-D、AD、Samsung、Panasonic、DaHuA、
DH-PELCO-P (DaHua No.1camera,address 1) 、Sony Visca (tolerant)

Turn Z axis Zoom (+, -) choose Camera Protocol

Rotate shuttle wheel in a clockwise direction to enter sub-menu

(Back to previous menu :Rotate shuttle wheel in a anticlockwise direction)

No4: Camera Baudrate

No4: Camera Baudrate [9600]

Camera Baudrate: 2400、4800、9600

Turn Z axis Zoom (+, -) choose Camera Baudrate

Rotate shuttle wheel in a clockwise direction to enter sub-menu

(Back to previous menu :Rotate shuttle wheel in a anticlockwise direction)

No5: DVR Protocol

No5: DVR Protocol [Hikvision]

DVR Protocol: Baudrate: 9600

Dahua、Hikvision、Dali、Hanbang、Appro、HighEasy

Rotate Z Axis Zoom (clockwise+, anticlockwise-) select DVR Potocol

Rotate shuttle wheel in a clockwise direction to enter sub-menu

(Back to previous menu :Rotate shuttle wheel in a anticlockwise direction)

No6: Alarm In

No6: Alarm In [Usb] RS485
--

USB: USBport

RS485: DVR RS485; baudrate: 9600

Rotate Z axis Zoom (clockwise +, anticlockwise-)

Rotate shuttle wheel in a clockwise direction to enter sub-menu

(Back to previous menu :Rotate shuttle wheel in a anticlockwise direction)

No7: Alarm Do

No7: Alarm Do
[LED Blink]

Led Blink(LED)、RS485 (RS485output signal from DVR port)

Rotate Z axis Zoom (clockwise+, anticlockwise-)

Rotate shuttle wheel in a clockwise direction to enter sub-menu

(Back to previous menu :Rotate shuttle wheel in a anticlockwise direction)

No8: Keyboard ID

No8: Keyboard ID=[01]

Keyboard ID: 00 -99

Rotate Z axis Zoom (clockwise+, anticlockwise-)

Rotate shuttle wheel in a clockwise direction to enter sub-menu

(Back to previous menu :Rotate shuttle wheel in a anticlockwise direction)

No9: Password 1、 2

No9: Password1 [****]
Password2

Rotate shuttle wheel in a clockwise direction to enter sub-menu Password 2

No9: Password1
Password2 [****]

1) Input password

Rotate Z axis Zoom (clockwise+, anticlockwise-)

Rotate shuttle wheel in a clockwise direction to enter sub-menu

(Back to previous menu :Rotate shuttle wheel in a anticlockwise direction)

No10: Exit

No10: Exit

Rotate Z axis Zoom (clockwise+, anticlockwise-) Exit

Rotate shuttle wheel in a clockwise direction to enter sub-menu

(Back to previous menu :Rotate shuttle wheel in a anticlockwise direction)

Connection of SCS-KB500 and SCS-690



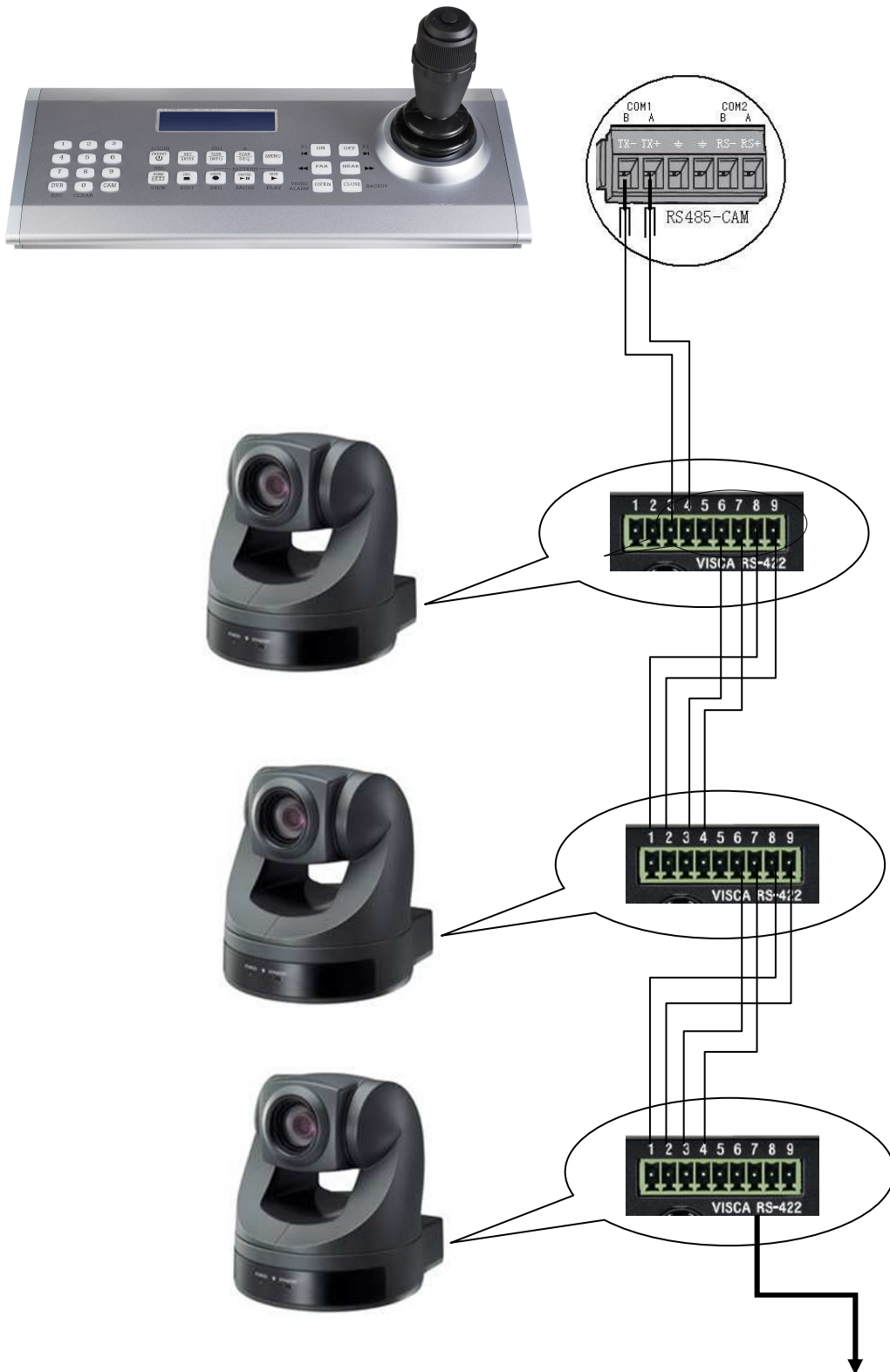
SCS-690 RS-422

- 1 (data sent input +) TXD IN+
- 2 (data sent input -) TXD IN-
- 3 (data received input+) RXD IN+
- 4 (data received input-) RXD IN-
- 5 (common port) GND
- 6 (data sent output +) TXD OUT+
- 7 (data sent output -) TXD OUT-
- 8 (data received output+) RXD OUT+
- 9 (data received output-) RXD OUT-

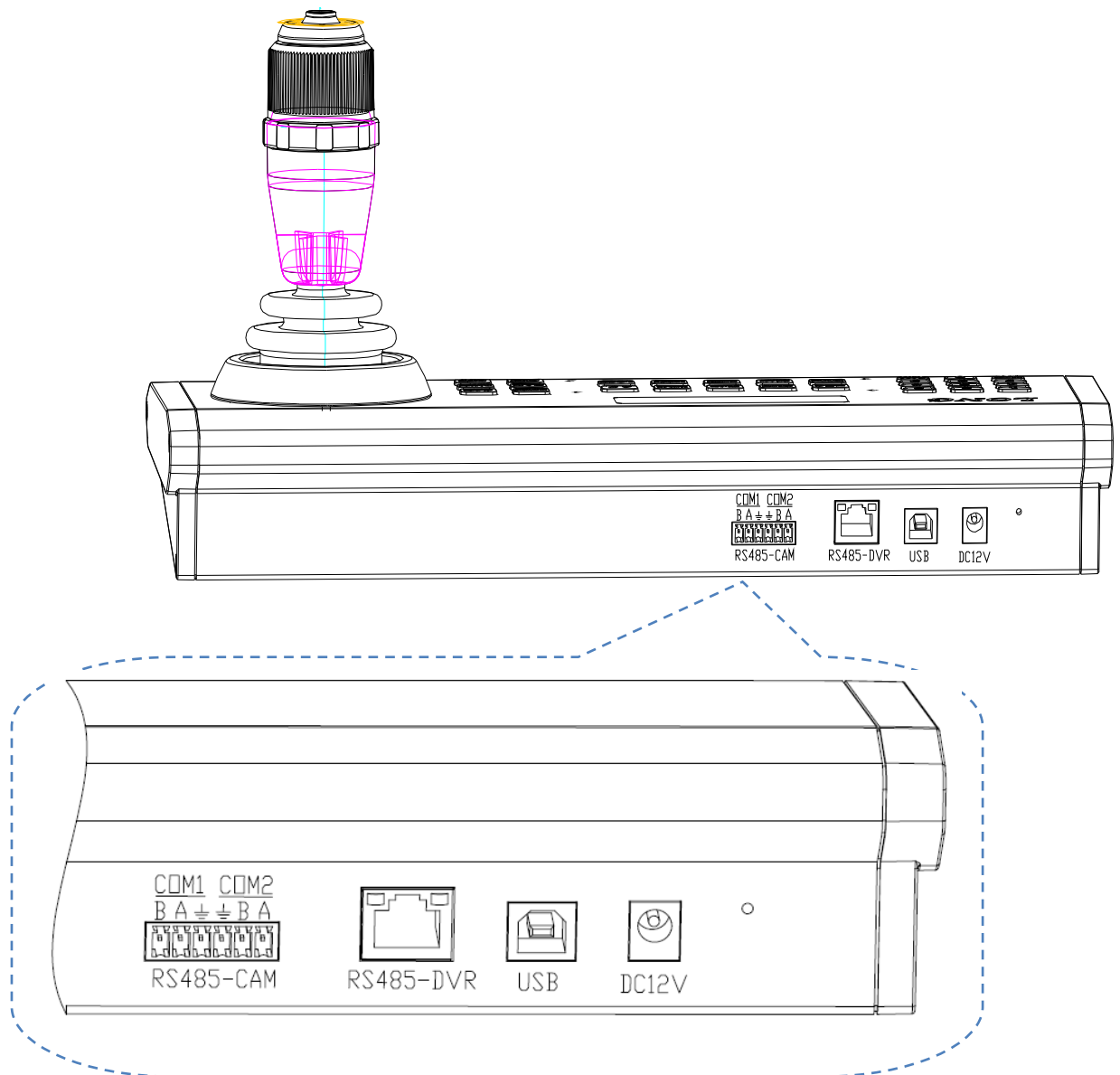


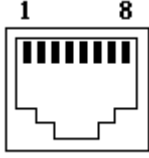
SCS-690 backward

Connection of RS-422 Visca SCS-KB500 and SCS-690



Back panel interfaces:



interface	Description	Remark
DC12V	Adapter interface	DC12V /1000 Ma +
USB	USB 端口	Connect to monitor PC's terminal
RS485-DVR	Control DVR RS485 interface	 <ul style="list-style-type: none"> 3. RS485+ / A / TX+ 4. RS485- / A / TX- 7. GND 8. DC12V+
RS485-CAM	Camera control 2 RS485 interfaces	COM1: RS485 one way interface MAX 2000M COM2: RS485 two way interface MAX 1200M parallel connection with other control equipments

RJ45 junction box (only for DVR)

