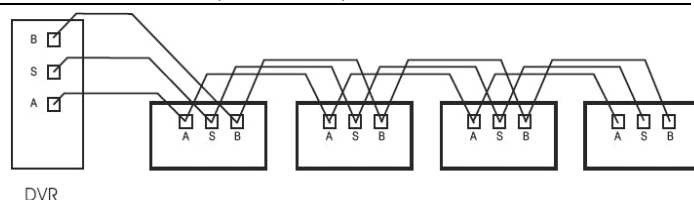


Multi-Protocol Receiver/Driver Module

Operating Manual

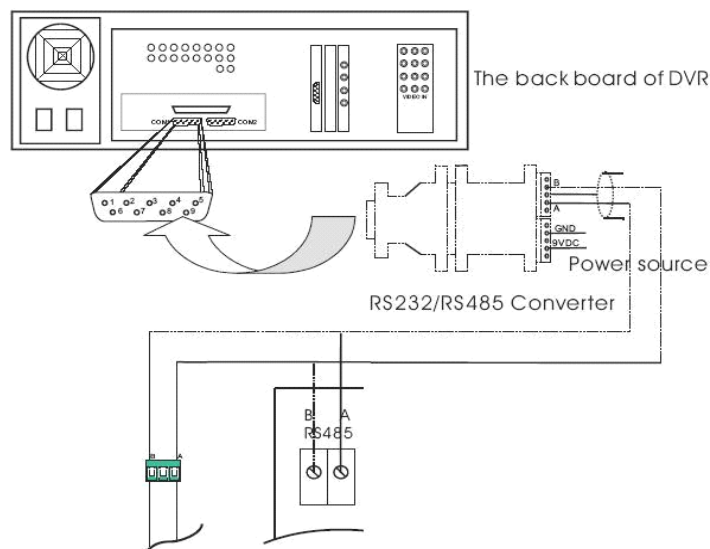
(Please read it carefully before using)



A、Equipment general states:

The module is used as a front control equipment with DVR. Operation is simple and easy, it has strong ability and steady performance, and is light, RS485 is used as communication because it has one strong capability of preventing from interfering.

The module has 3 groups of supplementary function control, brush, lamplight, camera power control.



B、Parameters & Performance:

Input voltage: 24VAC+10%

Output power: 20-35W

The voltage for Lens: 12VDC/300mA

The voltage for camera; 12VDC/800mA

Communication: RS-485

Address Range: 0-63

C、Notice:

- 1、 This module is unsuitable to install in inflammable place.
- 2、 Input voltage is 24V AC.
- 3、 If more than 10 exist in your system, we suggest using a RS-485 divider to obtain system stability.
- 4、 Baud Rate must be consistent with that of DVR.
- 5、 Set correct address according to your design.

D、Parts Name:

No.	Name	Explanation
1	Baud	You can set your expected baud rate for RS-485.
2	CAMERA	Address switch, by which you can set the address of this device
3	Jumper	RS-485com munication interface impedance option, factory setting is high (Open), most far one set up for 120 (Close)
4	RS-485	The socket for RS-485
5	Lens	The interface is between Lens and this module socket
6	DC12V	12V DC output, regulated maximum for 800 mA
7	AC24V	24V AC input

E、System connection:

In a system, the jumper of the most far decoder should be set to 120 ohm(close)

The maximum length of RS-485 line should not exceed 1200 meters. if more than 10 devices in a system , for improving systematic stability we suggest to use a control signal amplifier/ divider.

When setting up RS-485 shielded twinning line, please ensure that the RS-485 lines is far from high voltage power line and other possible interference as far as possible.

F、Setting Instructions:

The switch consist of 3 parts: Address switch, protocol switch, bound rate switch.

1、Protocol setting:

In system for communication with the different DVR, You must set Protocol Switch to ensure it and DVR use the same protocol.

System automatic select protocol

Automatic protocol list:

Protocol	DVR	Bits/S	Remark
PELCO-D	KODICOM	2400	
PELCO-P	Chengfeng	9600	
RM110	Sanle	9600	
KTD-312	PIC02000	9600	
CCR-20G ADR8060	IDRS	4800	

Intelligent Controller Multi-Protocol Receiver/driver (Version2.1)

KRE-301RX	KODICOM	9600	
KRE-301	KODICOM	9600	
ADT	ADT	9600	
YAAN	YAAN	4800	
HY	HY	9600	Address 0start

1200 meters?

D、The setting of Protocol Switch is same as DVR?

Fault 3: DVR can't control it when the distance is long

Analysis:

A、The driving capability of RS485 divider isn't enough.

B、The length of the twinning line for RS-485 exceeds 1200 meters? If yes, please add RS485 repeater.

2、Baud Rate setting: (switch No.7、 8)

Switch	2400bps	4800bps	9600bps
No.7	OFF	OFF	ON
No.8	OFF	ON	OFF

Remark: 1200 or 19200 bits/s is select automatically by CPU; ON:1, OFF:0.

3、Address setting:

Camera No.	Address Switch	Camera No.	Address Switch
	1 2 3 4 5 6		1 2 3 4 5 6
0/64/128/192	0 0 0 0 0 0	32	0 0 0 0 0 1
1/65/129/193	1 0 0 0 0 0	33	1 0 0 0 0 1
2	0 1 0 0 0 0	34	0 1 0 0 0 1
3	1 1 0 0 0 0	35	1 1 0 0 0 1
4	0 0 1 0 0 0	36	0 0 1 0 0 1
5	1 0 1 0 0 0	37	1 0 1 0 0 1
6	0 1 1 0 0 0	38	0 1 1 0 0 1
7	1 1 1 0 0 0	39	1 1 1 0 0 1
8	0 0 0 1 0 0	40	0 0 0 1 0 1
9	1 0 0 1 0 0	41	1 0 0 1 0 1
10	0 1 0 1 0 0	42	0 1 0 1 0 1
11	1 1 0 1 0 0	43	1 1 0 1 0 1
12	0 0 1 1 0 0	44	0 0 1 1 0 1
13	1 0 1 1 0 0	45	1 0 1 1 0 1
14	0 1 1 1 0 0	46	0 1 1 1 0 1
15	1 1 1 1 0 0	47	1 1 1 1 0 1
16	0 0 0 0 1 0	48	0 0 0 0 1 1
17	1 0 0 0 1 0	49	1 0 0 0 1 1
18	0 1 0 0 1 0	50	0 1 0 0 1 1
19	1 1 0 0 1 0	51	1 1 0 0 1 1
20	0 0 1 0 1 0	52	0 0 1 0 1 1
21	1 0 1 0 1 0	53	1 0 1 0 1 1
22	0 1 1 0 1 0	54	0 1 1 0 1 1
23	1 1 1 0 1 0	55	1 1 1 0 1 1
24	0 0 0 1 1 0	56	0 0 0 1 1 1
25	1 0 0 1 1 0	57	1 0 0 1 1 1
26	0 1 0 1 1 0	58	0 1 0 1 1 1
27	1 1 0 1 1 0	59	1 1 0 1 1 1
28	0 0 1 1 1 0	60	0 0 1 1 1 1
29	1 0 1 1 1 0	61	1 0 1 1 1 1
30	0 1 1 1 1 0	62	0 1 1 1 1 1
31	1 1 1 1 1 0		

G、FAQ:

Fault 1: LED does not light

Analysis:

A、The input power voltage is AC24V?

B、The connection is good?

Fault 2: DVR can not control the device

Analysis:

A、The connection of RS-485 line is good?

B、The setting of Address Switch is same as DVR?

C、The length of the twinning line for RS-485 exceeds