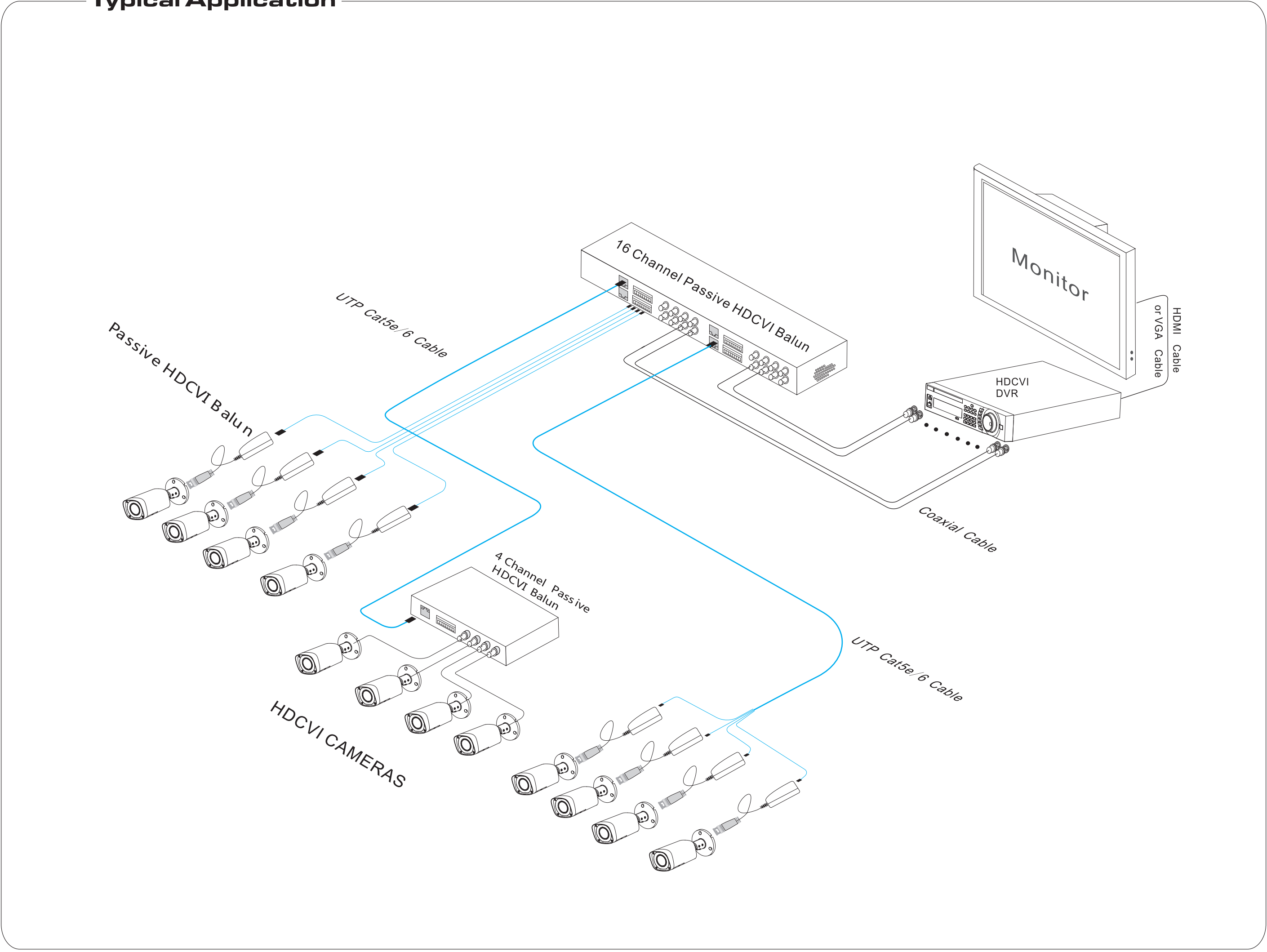


HDCVI Balun

The 16 channels passive (non-amplified) HDCVI balun allows transmission of real-time and high-performance color ormonochrome (B/W) CCTV HD video over UTP cable.It can be used as either transmitter or receiver. The device is 1U rack-mountable, perfect for multi-point surveillance.

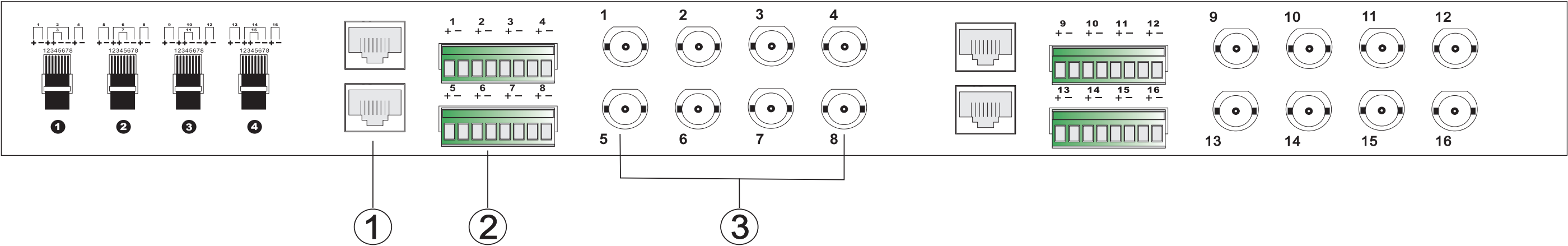
Typical Application



Features

- Passive,no need for power supply;
- Using CAT5E/6 UTP cable;
- RJ-45 or green terminal block to be chosen to connect UTP cable;
- Compact ID design;
- Plug and play,simple installation;
- Super surge protection&interference rejection.
- Real-time transmission,no delay;

Panel Diagram



NO.	Component	Description
①	RJ45	Please refer to “how to make RJ45 plug”
②	8 pin green terminal block	to connect UTP cable directly
③	BNC-F	for HD video input or output

Note: ① or ② to be choosed

Installation Procedure

Please follow the next installation steps:

- (1) Please switch off camera,PC, DVR and monitor which are to be used;
- (2) If it’s used as transmitter, connect cameras with it via BNC cable,
- (3) if it’s used as receiver, connect DVR with it via BNC cable;
- (4) Connect transmitter and receiver via UTP cable.
- (5) Power camera, DVR, monitor etc.

■ Specification

	Item	Description
Function	Transmission signal	16 channel passive HDCVI balun
	Transmission Distance	720P:400M(max) 1080P:250M(max) 4MP:200M(max)
	Category Type	UTP CAT 5E/6
Video Properties	Video Connector	BNC-F
	UTP Cable Connector	8 pin green terminal block,RJ45
	Compatible Format	HDCVI
	Signal Transmission Band	0-65MHz
	Interference Rejection	>60dB
Protection	Video Connector Protection	2KV(common mode) Per: IEC61000-4-5
	UTP Cable Connector Protection	2KV(different mode) 4KV(common mode) Per: IEC61000-4-5
	ESD Protection	Contact Discharge:6000V Air Discharge:8000V Per:IEC61000-4-2
Reliability	MTBF	>20000h
Physical Properties	Size (LWH)	430*100*45.5mm(1U)
	Outer Shell	Iron Metal
	Color	Black
	N.W.	1250g
Environmental	Operation Temperature	0°C-55°C
	Storage Temperature	-20°C-80°C
	Relative Humidity	0%-95%(non-condensing)

Specifications subject to change without notice.

■ Troubleshooting

If any trouble in installation, please follow these steps:

- Check if it's according to the manual;
- If choose RJ45,make sure both ends of UTP cable are same(both 568A or both 568B)
- If choose green terminal block,make sure cable of same color be in the same pin;
- Check all connection(like BNC,RJ45);
- Make sure the real distance not exceeds the allowed transmission distance;
- Make sure the cables are quality;
- Replace the device at question by a normal working device;
- Please contact your vendor if trouble still exists.

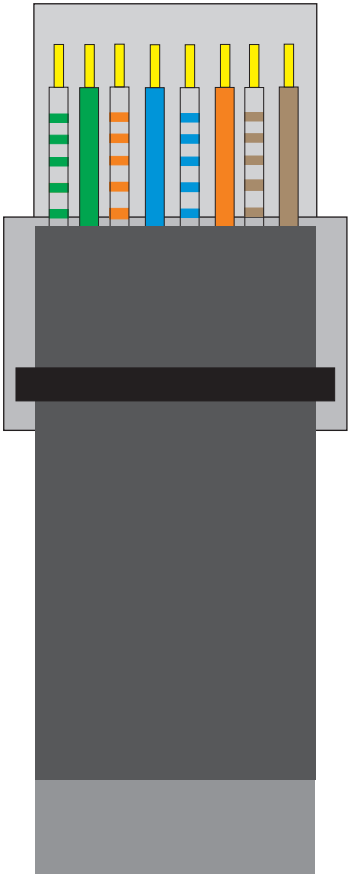
■ How to make RJ45 Plug

Instruments to be used: wire crimper, network tester.
Wire sequence of RJ45 plug should conform with EIA/TIA568A or 568B.

1. Shuck off about 2cm long the insulating layer, and bar the 4 pairs UTP cable.
2. Depart the 4 pairs UTP cable and straighten them.
3. Line up the 8 pieces of cables per EIA/TIA 568A or 568B.
4. Brunt cut the cables to leave 1.5cm bare wire.
5. Plug 8 cables into RJ45 plug, make sure each cable is in each pin.
6. Then use wire crimper to crimp it.
7. Repeat above 5 steps to make the another end.
8. Using network tester to test the cable whether is working.

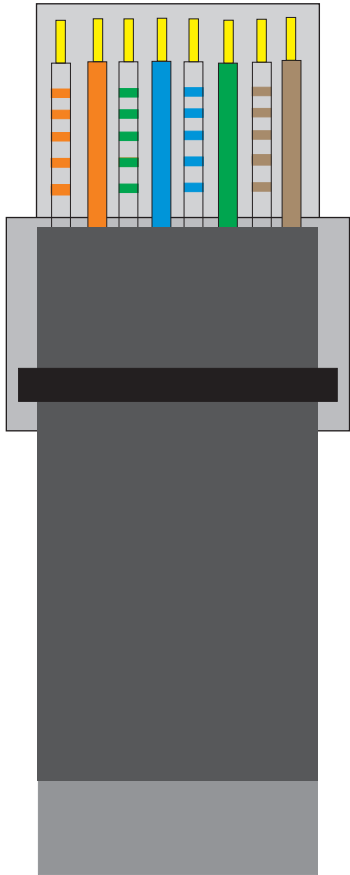
■ RJ 45 PIN Diagram

Pin Diagram	
1	(1) video +
2	(1) video -
3	(2) video +
4	(3) video +
5	(3) video -
6	(2) video -
7	(4) video +
8	(4) video -



EIA/TIA 568A

Pin Diagram	
1	(1) video +
2	(1) video -
3	(2) video +
4	(3) video +
5	(3) video -
6	(2) video -
7	(4) video +
8	(4) video -



EIA/TIA 568B



Attention :

- If choose green terminal block,cable of same color should be in the same pin.
- When choose RJ45,make sure if one end is EIA/TIA568A,the other end should also be EIA/TIA568A.
- or if one end is EIA/TIA568B,the other end should also be EIA/TIA568B.

■ Package Contents

- 16 Channel Passive HDCVI Balun (1 pcs)
- Application manual (1 pcs)
- Rack-mounting ear (2 pcs)
- Rack-mounting screws (8 pcs)
- Robber pad (4 pcs)