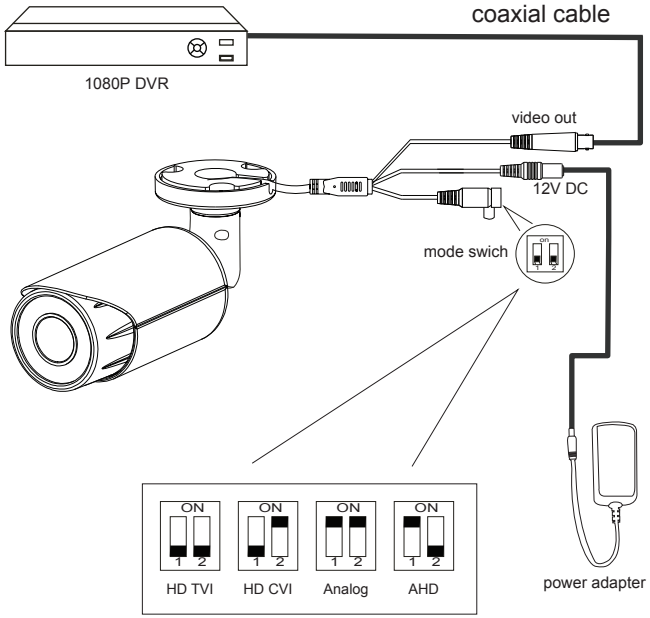
■ Connection diagram

Cautions:
Make sure the power supply is matched with the camera power input to avoid damage. Neither of the power adapter nor video cable should not be beyond the longest transportation limit.



1.Image black/white, roll over
1) check the camera rear mode switch cable, adjust it and make sure the video output is matched for your DVR.
2) go to the camera menu and change the PAL/NTSC mode.

2.Video signal shows horizontal ribbon disturbed area
1) check the power supply cable , it should not be too long, or change a high quality power adapter to replace.
2) Make sure the DVR BNC port connected stable and the DVR housing GND grounded.

3.Camera keep white/black , IR led not working or keep on, glass cover broken, etc.
1) Call the franchiser to repair. Please do not open or try repairing it without permission.

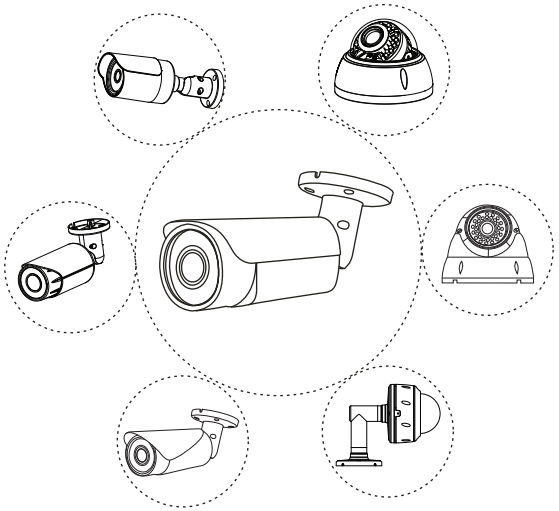
■ Specifications

Model	1080P 4-in-1 HD Camera
Camera	
Image Sensor	1/2.7" 2.1 Mega pixels CMOS
Chipset	AR0230+FH8536
Effective Pixels	1928(H)×1088 (V)
Lowest illumination	0.02Lux@（F1.2,AGC ON）, 0 Lux with IR
Electronic Shutter	1/50s~1/60,000s
Video System	PAL/NTSC
Video Frame Rate	25/30fps@1920×1080P
Video Output	1 channel, HDCVI / HDTVI/AHD/CVBS optional
Video Switch	2 bit switch
Smart IR Control	Support
Day/Night	Auto(ICR) / Color / B/W
WDR	D-WDR
OSD Menu	Support, coaxial cable control via DVR directly (UTC)
Other Function	AWB, AGC, BLC
General	
Power Supply	DC12V±10%
Power Consumption	< 5W
Working Environment	-30°C~+60°C / Less than 95%RH
IR LED	24/30/36/48/72 pcs selectable
IR Distance	10/15/20/30/50/80 meters selectable
Lens	3.6/6/8/12/16/25 mm selectable
Transmission Distance	Over 300m via 75-3 coaxial cable

4-in-1

1080P HD CCTV Camera

• AHD • CVBS • HDCVI • HDTVI



Note:
This manual may contain some incorrect places, even though it was published with our carefully proofreading. The news updates will be added to the next release without notice. Your valuable advice is really appreciated.

Thank you for purchasing our product. If there are any questions, please read this user manual at first, and do not hesitate to contact us.

Functions brief

* HD CMOS sensor
  Within high sensitivity CMOS image sensor, 1080P video output , very low illumination Prefect image quality emerge both on day and night environment

* 4-in-1 Multiply Video modes output
  Support 4 HD signals switch output, AHD/HDCVI/HDTVI/CVBS, easy to use switch cable

* OSD menu control up the coaxial cable(UTC)
  Camera parameters can be setup via built-in menu. All the configuration can be changed by back-end DVR directly up the coax. No need press the cable button

* Over 300 meters long distance video signal transportation

* Smart IR control, AGC, D-WDR, DNR

* Wide range voltage adaptation, Lightning protection

* Strong and pretty housing, installations angles can be adjusted

Caution :

Please install this device in appropriate temperature, -30 ℃- 60 ℃ or -22℉ - 140℉ , keep away from corrosive gas and liquid.

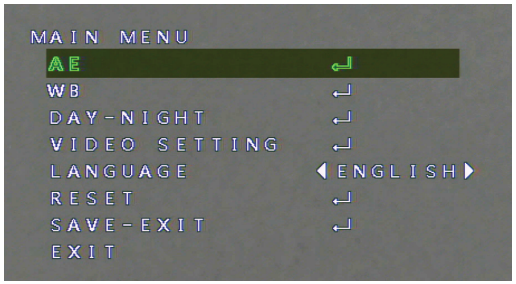
Don't put the camera direct to the sunlight, it is recommended installing it under a sun shade.

OSD Menu Control

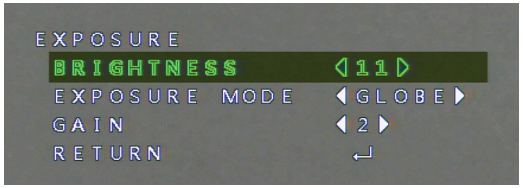
This series HD camera can support OSD menu coaxial control by reusing the video cable. It means user can configure, without menu button, the camera parameters via DVR directly. (the DVR also should support UTC) It's immensely convenient for site adjustment.

How to enter to the camera menu ?
In general, the DVR must have the coaxial control feature. Go to the PTZ control window and click the "+ iris -" to call out the camera menu.

The menu contents is listed as below:



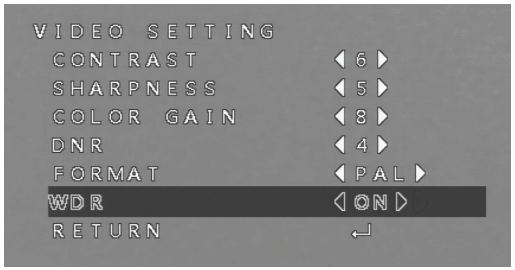
AE: auto image enhancement
WB: white and black balance mode
DAY-NIGHT: day and night switch mode
VIDEO SETTING: video basic parameters, PAL/NTSC, WDR, DNR adjustment
LANGUAGE: menu language select
RESET: reload factory default
SAVE-EXIT: save all settings and exit menu.



OSD Menu Control

ATW: auto tracking white balance -- default mode

Color: keep color
WB: keep white and black mode
Smart: auto change to color and WB



DNR: digital noise reduce -- reduce the image noise points in dark environment
WDR: wide dynamic range -- pick up a balance image when working in back-light environment