

## Specification:

| Model                 | CCD-DUAL170/FLUSH170/SQU170                                                                                                                 | CCD-HD17H                                                                                                                                       | AHD-SQU170H                                                                                                                            |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Sensor Size           | 1/4"                                                                                                                                        | 1/4"                                                                                                                                            | 1/3"                                                                                                                                   |
| Effective Pixels      | 733*493                                                                                                                                     | 1280*720                                                                                                                                        | 1920*1080                                                                                                                              |
| Resolution            | 600TVL                                                                                                                                      | 700TVL                                                                                                                                          | 1000TVL                                                                                                                                |
| View Angle            | 150°(H)/100°(V)/170°(D)                                                                                                                     | 150°(H)/85°(V)/170°(D)                                                                                                                          | 160°(H)/85°(V)/170°(D)                                                                                                                 |
| TV System             | NTSC/PAL                                                                                                                                    | NTSC                                                                                                                                            | NTSC/PAL                                                                                                                               |
| Minimum Illumination  | 0.1Lux                                                                                                                                      | 0.01Lux                                                                                                                                         | 0.001Lux                                                                                                                               |
| Working Current       | 80mA                                                                                                                                        | 130mA                                                                                                                                           | 130mA                                                                                                                                  |
| Scanning System       | 525lines, 60 field/sec                                                                                                                      |                                                                                                                                                 |                                                                                                                                        |
| Electric Shutter      | 1/60~1/100000 seconds                                                                                                                       |                                                                                                                                                 |                                                                                                                                        |
| Frame Frequency       | 25/30fps                                                                                                                                    |                                                                                                                                                 |                                                                                                                                        |
| Working Voltage       | DC 12V                                                                                                                                      |                                                                                                                                                 |                                                                                                                                        |
| Working Voltage Range | DC 9V~15V                                                                                                                                   |                                                                                                                                                 |                                                                                                                                        |
| Operating Temperature | -20°C~+70°C                                                                                                                                 |                                                                                                                                                 |                                                                                                                                        |
| Storage Temperature   | -40°C~+80°C                                                                                                                                 |                                                                                                                                                 |                                                                                                                                        |
| Waterproof Grade      | IP67(Lens only)                                                                                                                             |                                                                                                                                                 |                                                                                                                                        |
| Switch Function       | Default:<br>Mirror, Guidelines ON<br><br>Green wire: Mirror/normal view<br>White wire: Parking guideline ON/OFF<br>Orange wire: NTSC or PAL | Default:<br>CVBS, Mirror, Guidelines OFF<br><br>Green wire: AHD-CVBS signal<br>White wire: Mirror/normal view<br>Orange wire: Parking GL ON/OFF | Default:<br>AHD, Mirror, Guidelines ON<br><br>Green wire: Mirror/normal view<br>White wire: Parking GL ON/OFF<br>Orange wire: AHD/CVBS |

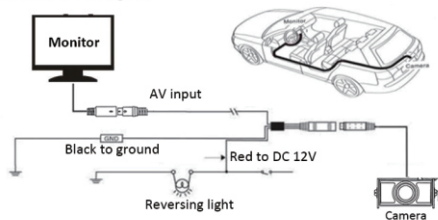
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## User/Install Manual

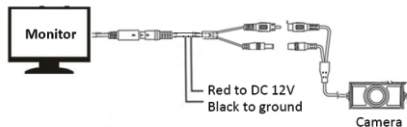
CCD-HD17H | CCD-DUAL170  
CCD-SQU170 | CCD-FLUSH170  
AHD-SQU170H

## Wiring Diagram:

4PIN DIN Cable diagram:



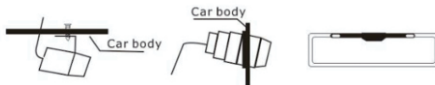
RCA Cable diagram:



- Find the appropriate position to install the camera.
- Connect the RED wire to the 12V positive, the BLACK wire to the ground.
- Put the yellow video cable through vehicle, up to video display.
- Connect the yellow video output cable to monitor or DVD video input

## Installation Type:

- Surface mount with screw
- Flush mount with hole drill
- License plate screw hole mount



Picture is for illustration purpose only;

Please refer to your actual vehicle for accurate installation location.

## Troubleshooting:

| Problem                                                                                                                   | Solution                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Display monitor/car radio does not show rear view when reversing                                                          | Check if the viewing mode is set to correct the rear view                                                                        |
| Display monitor/car radio does not show rear view even after connecting the view settings                                 | Restart the display monitor/car radio                                                                                            |
| Rear view does not show even after restarting the display monitor/car radio                                               | Check if the power supply of the reversing light or the rear car plate light is properly connected                               |
| Rear view does not show even though power supply of the reversing light or the rear car plate light is properly connected | Check power supply cable of the reversing light or the rear car plate light is damaged. Repair/replace if the cables are damaged |