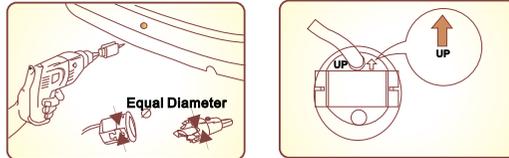


## Vehicle Rear (Front) View Camera

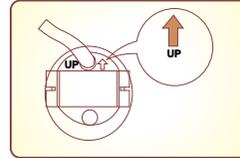
### A. Installation Guide for Flush-Mount Camera

### B. Installation Guide for Bracket-Mount Camera

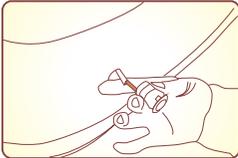
#### USER MANUAL & INSTALLATION GUIDE



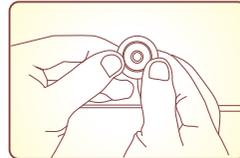
1. Check to be sure the hole saw used is with equal diameter to that of camera.



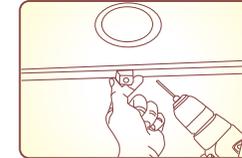
2. Adjust the camera to turn the UP arrow mark straight upwards.



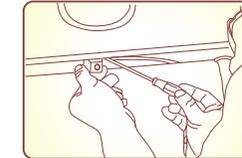
3. Put the harness through the hole made on bumper before fixing the camera.



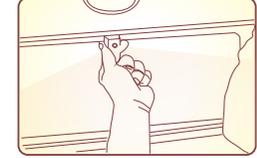
4. Put the camera into the hole and use your two thumbs to press it evenly to assure a tight and flat mounting.



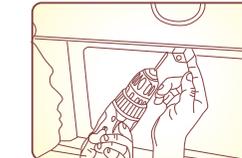
1. Choose a flat position near license plate light and make a small hole for the first screw with a drill.



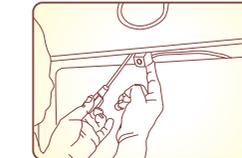
2. Use a screw driver to fix the first screw (but not tightly).



3. Get the power cables and video cables connected, and then adjust the camera properly to find the best position for the other screw according to the camera image in monitor.



4. Mark the position found for second screw and make a hole with a drill.



5. Fix the second screw with a screw driver.

**Remarks:** Beside flush and bracket mount cameras, we also have bolt mount camera series, which is mounted by following steps:

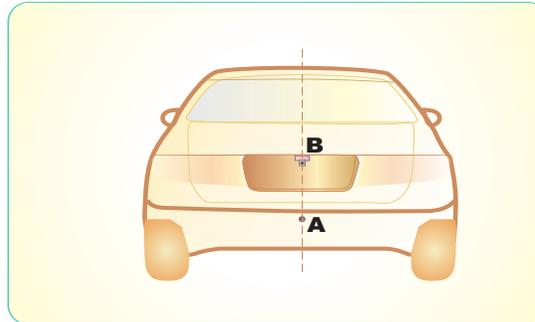
1. Select suitable flat position near the license plate light and mark it.
2. Drill a hole according to the bolt diameter.
3. Put the bolt vertically (against ground) into the hole and fix the bolt with the screw supplied from inside.
4. Some models come with up/down image switch option, and can be mounted with its bolt horizontal (against ground) and its lens downward.



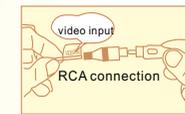
Rear view image for flush mount camera



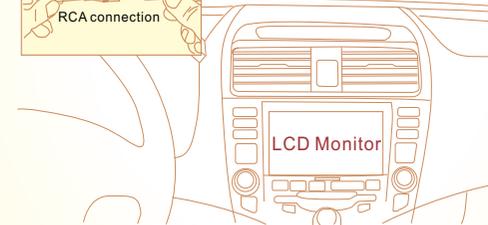
Rear view image for bracket mount camera



#### Connection to LCD Monitor



Please connect the camera output jack to the video input interface of the LCD monitor.



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#### User Manual for Rear (Front) View Camera

##### ● Rear view:

No-DVD-Player or DVD-Off Condition:

When reversing, the monitor is automatically switched on to display real-time backup images. After reversing, it is automatically switched off.

DVD-On Condition:

When reversing, the monitor is automatically switched to display real-time backup images. After reversing, it is automatically switched back to display DVD video.

##### ● Front View:

No-DVD-Player or DVD-Off Condition:

When the brake is put on, the monitor is automatically switched on to display real-time driving images in the front. After releasing the brake, it is automatically switched off.

DVD-On Condition:

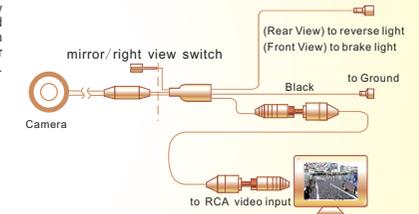
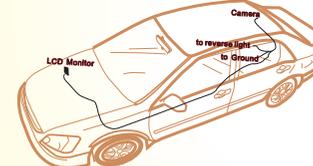
When the brake is put on, the monitor is automatically switched to display real-time driving images in the front. After releasing the brake, it is automatically switched back to display DVD video.

- The rear and front view cameras can work combinedly, and both cameras stop working when the engine is set off.

	1/3" CMD	1/4" CMD
Image sensor	1/3" CMD	1/4" CMD
Signal System	NTSC/PAL	NTSC/PAL
Effective Pixels	PAL:628x586, NTSC:656x492	648x488
Sensing Area	5.961mmx4.276mm	5.55mmx5.55mm
Sync System	Internal	Internal
Horizontal Resolution	420TVL	420TVL
Min Illumination	0.2Lux or 0.04Lux	0.04Lux/F1.2
Diagonal Angle	120°/170°	120°/170°
Video Output	RCA, 1.0Vp-p, 75ohm	RCA, 1.0Vp-p, 75ohm
SNR	Better than 48db	Better than 48db
Waterproof Grade	IP66-IP67	IP66-IP67
Current Consumption	max200MA	
Nominal Voltage	DC12V	DC12V
Working Environment	-30℃~65℃, RH95%MAX	-30℃~65℃, RH95%MAX
Night Vision	Optional	Optional
Image Switch	Optional	Optional
Guard Line	Optional	Optional
Other	Auto White Balance, AGC, Backlight Compensation	

#### Wiring Diagram

**Mirror/right image switch:** All cameras (except customized version) come with mirror image defaulted for rear view use, and partial models (not all) come with mirror/right view switch option. This option can be operated by inserting the 2-pin connector into the short circuiter (or connect the metal thread of the blue and white wire near camera harness, for bolt mount models), and then disconnect & reconnect power cable to see the image changed to right view for front use. To switch it back, simply detach the connector (or disconnect the metal threads).





## IMPORTANT NOTES

1. The rear (front) view camera functions technically as a driver assistance device, which cannot be taken as a substitute for driver's responsibility when operating the vehicle.
2. To keep the camera working properly, please clean the camera regularly to free it from dirt, waterdrops, snowdrops, etc.
3. Although the camera is designed to be waterproof, please do NOT use high-pressure water jet to wash the camera as this may break the glass lens.
4. Keep the cables of the camera away from high temperature objects such as engine or exhaust.
5. If the camera model you have comes without in-built LED lights, please turn on your license plate light for better vision at night or in dark areas.
6. The cameras are applicable to vehicles with DC12V power output (10% higher or lower allowed), please do NOT use it on vehicles with DC24V or other power output out of this range, otherwise it is very likely to get burned.
7. The specifications of the camera are subject to change without prior notice.

# USER MANUAL & INSTALLATION GUIDE



## Vehicle Rear/Front View Camera

- Parking Guard Line
- Mirror/Right Image Switch Option
- Up/Down Image Switch Option
- 170°     120°