

# Wireless Rear View Backup System

## **PKCOBU4 Tx & PKCORB Rx**

### I. Product functions

The product is mainly used for backing or parking a car. It is composed of a transmitter and a receiver, and is attached with a retaining bracket and the power core.

The transmitter adopts 2.4G Digital wireless backing and rear viewing approach, and the receiver adopts 3.5" LCD 2.4G Digital wireless backing and rear viewing approach. The transmitter shoots the image through CMOS image sensor and converts such image into digital signal before sending it out, then the receiver restores the received digital signal into image and displays it on the LCD screen, so that the accuracy and safety are ensured when the driver is backing or parking a car.

### II. Precautions in safety operation of the product

The receiver is installed on the console or windshield of the car. Please install it firmly and keep the LCD screen free from impacts. The transmitter is installed at the tail of the car and is fastened in a right position. Keep the CMOS camera clean to ensure that reliable information is provided to the driver.

### III. Component list

S/N	Name	Photo	Quality required
1	Receiver		1
2	Transmitter		1
3	Retaining bracket of the receiver		1
4.	Power core of the receiver		1

#### IV. Product Operation and Signal Instructions

##### 1. Receiver operation:

###### 1.1 Power supply:

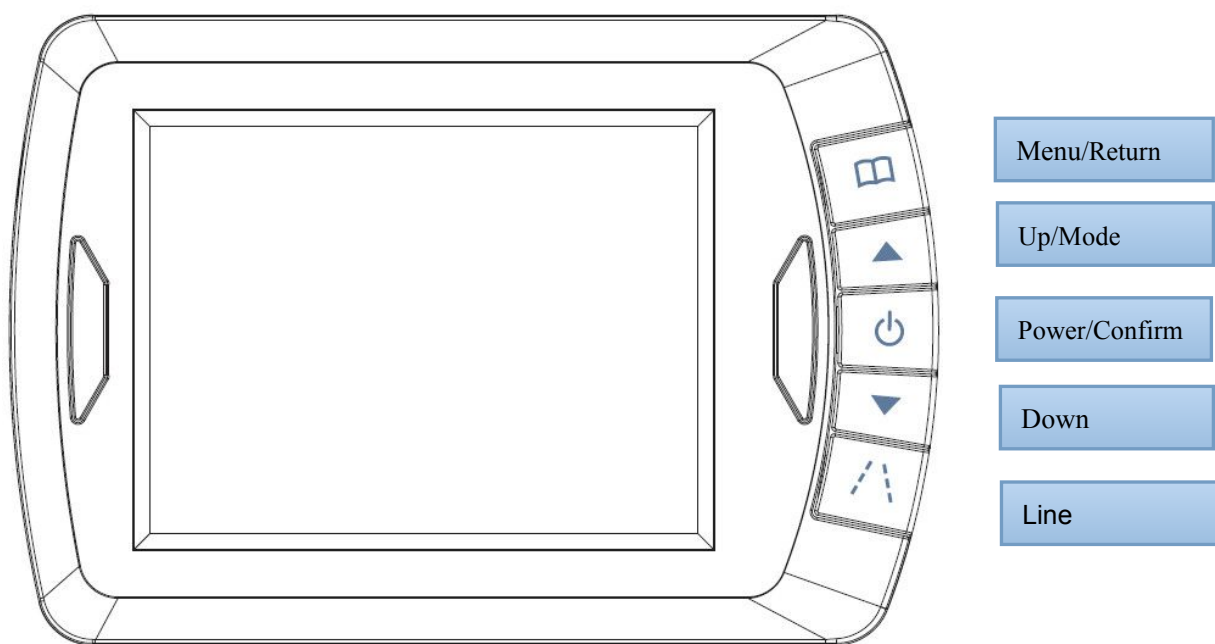
The receiver uses 12V or 24V DC power supply provided by the car cigar plug socket

###### 1.2 Indicator description

The blue indicator is lit when the receiver is powered, and automatically enters the working state. If there is no signal, the receiver automatically turns off LCD, and blue LED indicator flashes; when there is signal, the image is displayed, and the LED is lit.

###### 1.3 Receiver key description

The keys include Menu/Return, Up/Mode selection, Power/Confirm, Down, and Reversing line, as shown below:



Menu/Return	Press to show OSD or return to the previous menu
Up/Mode	Select forward in OSD operation, and select CAM1, CAM2 or switch camera automatically reversing screen
Power/Confirm	Confirm or enter in OSD operation, press and hold for 2S to turn off if there is no OSD, and press to turn on
Down	Select backward in OSD operation, press and hold for 5S to clear the pair code when there is no OSD
Line	Reversing line display selection

###### 1.4 OSD operation

###### 1.4.1 Pair code

After first work or the pair code is cleared, the camera image can be displayed after pairing the code. Each channel only pairs one camera, the camera information will be automatically saved after pairing code, and it will work automatically next time.

Press the MENU key to enter the main menu, press the Up or Down key to select SETUP, and press the Confirm key to enter the pair code interface



Select SETUP to enter pair code selection screen:



Press the Up or Down key, select PAIR 1 or PAIR 2, press the Confirm key to enter the pairing state, when



appears, the camera transmitter is switched on; press and hold the PAIR key for about 2 seconds, After pairing successfully



If there is no operation in 20S or pairing fails, it will resume the previous state.

#### 1.4.2 Master camera selection

Channels 1 and 2 can be defined into master camera. In automatic mode, the signal of single camera will be automatically displayed; when two cameras receive signal simultaneously, the master camera has the priority, and the screen will automatically switch to the master camera in 3S.

Master camera selection method:

Select MASTER in the SETUP menu



Icon, press the Confirm key to enter camera selection.



Press the Up key or Down key to select camera 1 or camera 2, and press the Confirm key to show



Indicate that Camera 2 has been defined to the master camera.

#### 1.4.3 Clear the code:

If only one camera is used, but two channels have been previously paired, the code can be cleared and re-pair a channel.

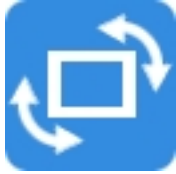
**Exit OSD state, press and hold the Down key for 5S to clear the pairing channel. Be careful to use this feature, the paired channels will be cleared and should be re-paired.**

#### 1.4.4 Mirror/Rotate

Mirror / Rotate is to mirror or rotate the display screen to adapt to installation direction of the camera; each channel allows individual Mirror/Rotate, select in the main menu



Icon, press the Confirm key to select the camera to Mirror/Rotate, select CAM1 or CAM2, press the Confirm key to enter the Mirror / Rotate state, and the screen shows



Icon, press the Confirm key to select the appropriate display direction.

#### 1.4.5 Image screen display settings

The display screen can be adjusted in too bright or too dark environment, and the camera of each channel can be adjusted independently,

Select PICTURE in the main OSD

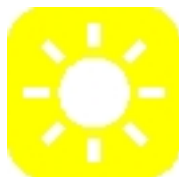


Icon, press the Confirm key to enter, and select the camera to adjust,



Press the Up or Down key to select CAM1 or CAM2, press the Confirm key to enter brightness, contrast and color selection.

A. Brightness settings, select brightness



Icon, press the Confirm key to enter, press the Up or Down key to select the appropriate display effect.

B. Contrast settings, select the contrast



Icon, press the Confirm key to enter, press the Up or Down key to select the appropriate display effect.

C. Color settings, select the color



Icon, press the Confirm key to enter, press the Up or Down key to select the appropriate display effect.

#### 1.4.6 VERSION software version query

Select in the main OSD




Icon, press the Confirm key to enter and view the software version information of the receiver and transmitter.

#### 1.4.7 Screen instructions

a. The blue letter "A" on top of the screen indicates the current state is the automatic mode, the master camera has the priority, and the secondary camera displays if there is no master camera.

b. The blue letter "C1" or "C2" on top of the screen indicates the currently displayed screen is CAM1 or CAM2.

c.  signal strength indication

d.  screen in Mirror / Rotate state

e. The screen shows the following icon, indicating that the current signal is too weak or 2.4G signal is disconnected.



2. Camera transmitter operation:

- 2.1 The camera transmitter is installed in the rear side of the car; when used for reversing, please connect to power supply of taillights; if installed in the car, the door can be connected to the power supply of interior lighting, or other 8V-30V DC power supply system. When connected to the power cord in parallel, the red wire is +, and the black wire is -. Prevent short circuit and take insulation measures, because electrical short circuit can cause fires and other serious consequences. Camera transmitter features reverse connection prevention, and the machine won't be damaged in the event of reverse connection.
- 2.2 When it is used for the first time, pair code with the receiver; select CAM1 or CAM2 channel for the receiver, press the Confirm key to enter the pairing mode, and then press the PAIR key within 20S, wait for the code pairing to complete, ensure that the wireless signal isn't interfered with in the pairing process, and the receiver will display PAIROK after pairing successfully



Icon, if the pairing isn't completed in time, it will return to previous state. For the installed machine, the pairing requires two persons for cooperation.

- 2.3 One camera transmitter only can be paired with one channel, the receiver has two channels, which can be paired with one camera transmitter individually or with two camera transmitters simultaneously to form dual channel and meet different monitoring requirements.
- 2.4 The paired camera transmitter can trigger the receiver working automatically after powered, and the screen display delay is less than 1 second.
- 2.5 The camera transmitter features infrared night vision; if the lighting is insufficient in the evening, the infrared LED automatically turns on infrared supplementary lighting.

V. Product Installation

- 1. Install the retaining bracket on the receiver, as shown in the following picture:



- 2. Install the receiver together with the retaining bracket on the console or windshield of the car.

3. Connect one end of the receiver power cord to the host and plug the other end directly into the cigar lighter power connector,.

4. Install the transmitter at the tail of the car, as shown in the following picture:



Note : Cet appareil est conforme à la Partie 15 des règlements de la FCC et aux normes RSS de l' Industrie du Canada. Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne doit pas causer des interférences nuisibles, et (2) cet appareil doit accepter toute interférence reçue, y compris les interférences qui peuvent provoquer un fonctionnement indésirable.

Le fabricant n'est pas responsable des toutes interférences radio ou télévision causées par des modifications non autorisées apportées à cet appareil. De telles modifications peuvent empêcher l'utilisateur d'utiliser l'appareil.

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES AND INDUSTRY CANADA LICENSE-EXEMPT RSS STANDARD(S). OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS OR CHANGE TO THIS EQUIPMENT. SUCH MODIFICATIONS OR CHANGE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

This radio transmitter (identify the device by certification number or model number if Category II) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio (identifier le dispositif par son numéro de certification ou son numéro de modèle s'il fait partie du matériel de catégorie II) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci dessous et ayant un gain admissible maximal. Les types d'antenne non inclus dans cette liste, et dont le gain est



supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

Antenna Type : internal permanent antenna

Max. Antenna Gain: 0dBi

To maintain compliance with FCC' s RF exposure guidelines, this equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.