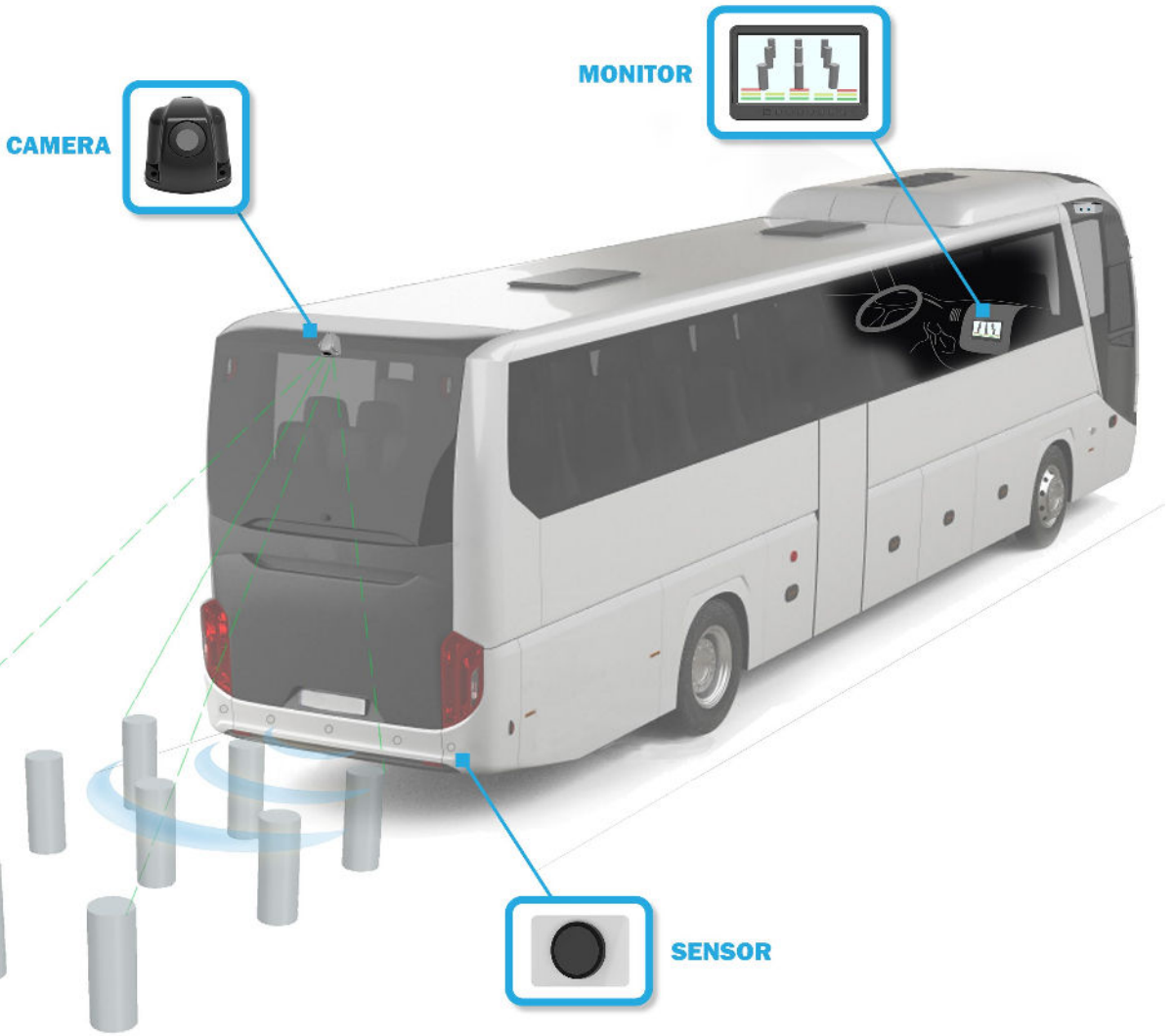


User Manual



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## Content

	Page
1. System	3
1.1. Reverse signal of system	3
1.2. Audible alert	3
2. Security System	3
2.1. Visual alert	3
2.2. Potential system failures	4
3. Maintenance	4
3.1. Camera	4
3.2. Sensors	4
3.3. Monitor	4
4. Change log	5

## 1. System

### 1.1. Reverse signal of system

R158 System will show image on monitor once reverse signal goes from 0 to 12/24V. In the same way, it will stop displaying image after a few seconds when signal changes to a value of, approximately, 0V.

### 1.2. Audible alert

Monitor get different buttons to configure image and sound. It's important to adjust with buttons "+" and "-" sound level to ensure sound value is more than 0 to have audible alert.

## 2. Security system

### 2.1. Visual alert

Monitor shows one line of each one of system sensors has. Lines show the distance, approximately, between obstacle and vehicle (see Figure 1). In case of system doesn't detect some sensor, it will show blue line on sensor position (see Figure 2).

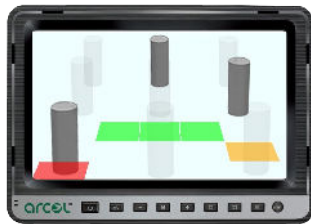


Figure 1.- System operation



Figure 2.- Sensor failure

In addition, it's important to know sensors are arranged in series. So, in case of failure of one of them, the ones positioned afterwards will stop working. To validate communication of the sensors is necessary to connect each one separately in the first position, restart the system and check if image showed on monitor is correct or blue line continues, indicating that sensor is not operational.

Figure 3 shows image on monitor when all the sensors or the first one is failing.



Figure 3.- Inactive sensor/s

## Security system

### 2.2. Potential System failures

Failure	Error Indication	Action
PowerLoss	Black screen	Check system cable. If problem persists, please contact with technical support.
No power		
Camera power failure		
Reverse signal failure		
Sensors communication failure	Blue lines on screen	Check the operation of each sensor. In case all sensors stop working, check system cable. So, if failure is not detected, please contact with technical support.
Communication failure between ECU and Camera		
Sensors malfunction	Constant audible alert and red line on screen showed w/o obstacle in front	Check sensor surface is clean and sensor installation is correct. If problem doesn't disappear, please contact with technical support.

## 3. Maintenance

### 3.1. Camera

Use a damp cloth or non-abrasive wipe to avoid scratching the lens.  
Don't clean with abrasive cleaning agents.

### 3.2. Sensors

Turn off the device before cleaning. Use a damp cloth or non-abrasive wipe to clean the sensors.  
Don't clean with abrasive cleaning agents.

### 3.3. Monitor

Turn off the device before cleaning. Use a damp cloth or non-abrasive wipe to avoid scratching the screen. Do not allow liquids to enter the unit.  
Don't clean with abrasive cleaning agents.

## 4. Change log

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