



**SMART PARK<sup>®</sup>**  
AUTOMOTIVE TECHNOLOGIES

# **CCS-562** **CCS-702**

## **Installation and Operating manual**

Version 562.2/702.2



## Introduction

Thank you for purchasing/installing a Smart Park™ commercial camera system. These instructions are intended for use by an authorized Smart Park™ installer. Modifications, manipulation or improper repairs to this product can affect the operability and safety. Modifying this product in any way or using this product for anything other than it's intended use may invalidate the product warranty.

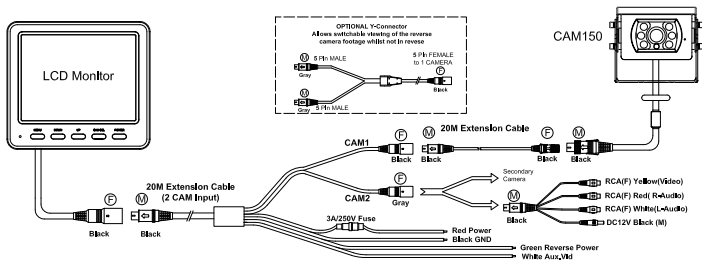
### 1. Parts Check Off List

- Camera
- LCD Monitor
- 3 Wire Power loom
- Extension Cable (Camera to controller)
- Extension Cable (Controller to LCD Monitor)
- Monitor Stand
- Installation Screws/Stickers

### 2. Required Tools

- Digital Multimeter
- Wire Cutters/Stripper
- Power Drill
- Socket Set
- Screwdrivers
- Tape Measure
- Marker Pen/Pencil
- Panel Removal Tool
- Safety Glasses

### 3. Wiring Diagram



### 4. Camera Installation

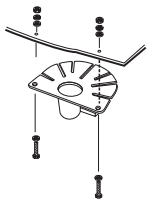
- 4.1 Attach the camera mounting bracket to the vehicle.
- 4.2 Mount the camera on the mounting bracket, adjust the angle to suit and fasten the screws firmly.
- 4.3 Install the wiring harness with accessory and reverse power as per the wiring diagram.
- 4.4 Run the extension cable from the camera to the wiring harness.
- 4.5 Run the connection from the wiring harness to the LCD monitor location.

NOTE: Protect all cabling by running the cable inside the vehicle or using conduit where this is not possible.

## 5. LCD Monitor Installation

- Install the monitor on a surface which will support more than 4 Kg (9Lbs) of weight
- Install the monitor away from a speaker mounted in the vehicle so the picture is not distorted by the speaker's magnetic field.
- Don't install the unit in an extremely hot or humid place (radiator, air duct, etc.) or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.

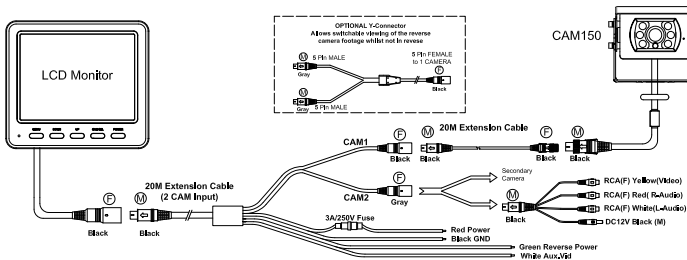
5.1 Attach the supplied mounting bracket to the ceiling or the floor, etc.



Tapping screw or Machine screw with nut.

5.2 Adjust the angle of the monitor and fasten the screws firmly.

## 6. System Connection



## 7. Attach the Smart Park sticker to the window.

Installation is now complete.

## **OPERATING INSTRUCTIONS**

- 1.** The reverse camera system will automatically activate whenever the vehicle is placed in reverse gear.
- 2.** The POWER button can be used to manually turn the monitor on or off at any time.  
NOTE: Your camera must have power or no image will be seen. Some vehicles will only have power to the camera when in reverse.
- 3.** To change between the 2 camera inputs (CAM1 / CAM2) press the CAM SEL button (Vehicle must be equipped with 2 cameras).
- 4.** Pressing the MENU button scrolls through the settings available including VOLUME, BRIGHTNESS, AUTO BRIGHTNESS, CONTRAST, HUE, SATURATION, MIRROR, RESET, LANGUAGE. Use the UP & DOWN buttons to adjust the settings.
- 5.** The MIRROR option will allow you to reverse the image from either camera as required.
- 6.** Pressing & Holding the POWER button for 2 seconds shuts the system down.

## SPECIFICATIONS

### MONITOR

<b>LCD Profile Wide-Screen Ratio<sup>o</sup></b>	5.6" Inch 4:3 7" Inch 16:9
<b>View Angle (U/D/L/R) (CR&gt;10)</b>	50/70/70/70
<b>Brightness (cd/m<sup>2</sup>)</b>	500
<b>Contrast Ratio</b>	500:1
<b>Response Time (ms) (at 25°)</b>	10
<b>Power Requirements</b>	DC 12v~24v
<b>Power Consumption</b>	5W
<b>Operating Temperature Range</b>	-30 ~ +85
<b>Storage Temperature Range</b>	-30 ~ +85
<b>Dimension</b>	5.6" Inch 165 (L) x 115 (W) x 29 (D) mm 7" Inch 200 (L) x 115 (W) x 29 (D) mm
<b>Weight Approx</b>	5.6" Inch 340g 7" Inch 400g

### CAMERA

<b>Image Type</b>	Color CCD
<b>Picture Elements</b>	0.44m pixels / 0.29m pixels
<b>Image Size</b>	1/3 Inch, 1/4 Inch
<b>Lens</b>	Focal length 2.8mm/2.5mm
<b>Synchronization</b>	Internal
<b>Horizontal Resolution</b>	420 TV Line
<b>Signal to Noise Ratio</b>	48dB
<b>Power Supply</b>	12V/24V DC
<b>Power Consumption</b>	1.5W
<b>Operating Temperature Range</b>	-30 ~ +85
<b>Storage Temperature Range</b>	-30 ~ +85
<b>Dimension</b>	82 (L) x 73 (W) x 58 (D) mm
<b>Weight Approx</b>	(Including Mounting Bracket) 380g

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