V E N T R A

RVM -1XC233 Rear View Camera Kit

Specification:

Camera	
Chipset	1/3" CMOS
Camera Lens	2.8mm
Resolution	600 TVL
Camera Angle	120 degrees (D) / 90 degrees (H)
Camera Rating	IP66 Outdoor Rated
IR LED	12 LED
Illumination	0 Lux – IR on
S/N ration	>54db
Electronic Shutter	1/60 ~ 100,000
Auto Gain Control	Auto
Back Light Compensation	Auto
White Balance	Auto
TV System	NTSC
Camera Power	DC 12V ~ 24V 160mA
Humidity	<90%
Temperature Range – Operating	-4F ~ 150F (-20C ~ +65C)
Monitor	
LCD Screen Size	7" TFT LCD
Resolution	800 x 480
Channels	2 – RCA Video Input
Brightness / Contrast	500cd/m2 / 500:1
OSD Control	Contrast, Sharpness, Brightness, NTSC
Viewing Mode	Normal, Mirror, Flip
Monitor Power	DC 12V ~ 24V 150mA
Cable	
Environment	Indoor
Pin	4 Pins (Video, Audio and Power)

Parts included:

- EX4-XC2 Outdoor Color Camera w/ IR x 1
- VLCD-7 7" LCD Screen x 1
- EX4-CBL33 33ft 4 pin DIN cable x 1
- RVC-PIG DIN to RCA / Power Cable x 1

Warning:

- Install equipment only when vehicle is safely parked, leveled and power Off
- View and access the monitor only when safe to do so
- Review surrounding before operating / moving vehicle
- Observe all electrical safety guideline and polarity to avoid injury
- Please consult with Vehicle Manufacturer for warranty and settings prior to installation
- Ventra is not responsible for any warranty pertaining to the vehicle

Installation Guide

1. Determine the location and mounting position of the camera prior to installation
2. Test the viewing angle by powering both the camera and monitor before permanently securing the camera
3. Once location is determined, securely affix mounting bracket of the camera to the vehicle
4. Connect the **EX4-XC camera** to **EX4-CBL** 4 pin DIN cable. Ensure the cable is securely connected
5. Connect the **EX4-CBL** cable to **RVC-PIG** DIN to RCA / Power cable
6. **RVC-PIG**:
    - 2 power pigtail wire (**Red** = 12V Positive, **Black** = Ground) to a power source (i.e. *tail light, reverse light, turn signal or vehicle fuse*)
    - DC power plug to EX4-XC camera
    - RCA connection to monitor via RCA cable
7. Secure RCA cable connection by applying heat shrink tube or electrical tape
8. Connect the RCA cable into Input 1 of the VLCD-7 screen
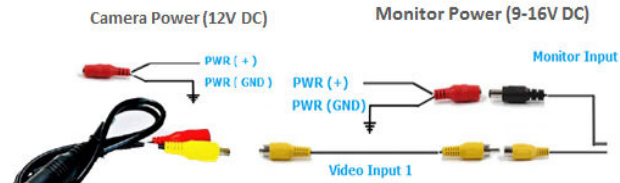
Installation layout

Camera 1 **EX4-CBL Cable** **RVC-PIG** **VLCD-7**

Camera Power (12V DC) Monitor Power (9-16V DC)

PWR (+) Monitor Input
PWR (GND) PWR (+)
PWR (GND)

Video Input 1

EX4-CBL cable is not waterproof and should not be exposed to direct sunlight, rain or element. Cable should be placed in weatherproof conduit or sleeve
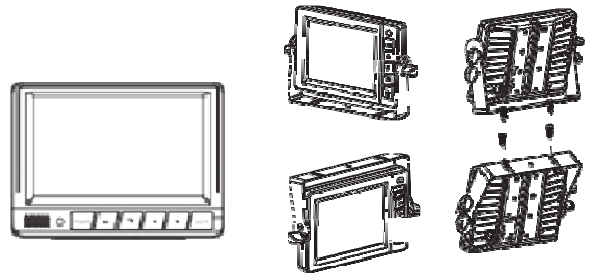
Secure cable connection by applying heat shrink tube or electrical tape to minimize movement from vehicle vibration

VLCD-7 equipped with U-shape bracket which may be flipped for either dash or ceiling mount.

Removable sunshade may be used as needed

VLCD-7 Operation:

1. Press SET key to Enter or Exit Menu
2. Press ↓ or ↑ to navigate menu. Press ← or → to change setting

Operation Guide:

1. VLCD-7 monitor supports dual video input. If only 1 camera is connected, that camera will be primary, regardless of which input it is connected to
2. If connecting 2 cameras,
   - **Input 2** = Primary Camera
   - **Input 1** = Secondary Camera

3. To switch camera view, Press ⇒ for momentary view of the second camera, *Or* if the secondary camera was powered on / triggered by a switch (i.e. turn signal). Monitor will auto revert back to the primary camera after approximately 5 seconds.