



Parts included:

- EX4-XC4 Outdoor Color Camera w/ IR x 1
- VLCD-7 7" LCD Screen x 1
- EX4-CBL60 60ft 4 pin DIN cable x 1
- RVC-PIG DIN to RCA / Power Cable x 1

Specification:

| | |
|------------------------------|---------------------------------------|
| Camera | |
| Chipset | 1/3" CMOS |
| Camera Lens | 2.8mm |
| Resolution | 650 TVL |
| Camera Angle | 120 degrees (D) / 90 degrees (H) |
| Camera Rating | IP66 Outdoor Rated |
| IR LED | 9 LED |
| Illumination | 0 Lux – IR on |
| S/N ration | >45db |
| 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 125mA |
| 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) |

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. (Refer to installation diagram). EX4-CBL cable is not waterproof and should NOT be exposed to direct sunlight, rain or element. Cable should be placed in conduit or outdoor rated sleeve
5. Connect the EX4-CBL cable to RVC-PIG DIN to RCA / Power cable
1. **RVC-PIG:**
 - 2 power pigtail wire (**Red** = 12V Positive, **Black** = Ground) to a power source (i.e. *tail light, reverse light 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. Constant vehicle vibration may loosen connection
8. Connect the RCA cable into Input 1 of the VLCD-7 screen

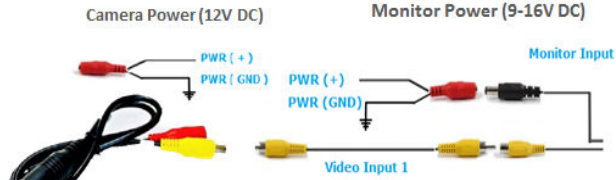
Installation layout

Camera 1

EX4-CBL Cable

RVC-PIG

VLCD-7

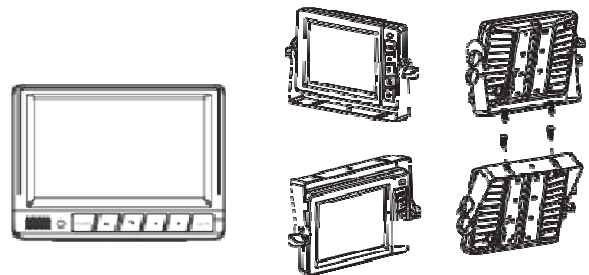


EX4-CBL cable is not waterproof and should not be exposed to direct sunlight, rain or element. Cable should be placed in weatherproof conduit or sleeve

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.

