Introduction

Please read this instruction before installation and operation.

Thank you for choosing our professional vehicular LCD monitor LED backlight series. It is designed specially for vehicle, ship and train. To ensure you using this monitor correctly, please do read this user manual carefully before installation. Also please take notice of the safety items, and keep this user manual for reference.

WARNING

To prevent injury, this apparatus must be securely attached to the ceiling in accordance with the installation instruction. Read, heed and follow all instructions to ensure correct and safe installation and interconnection of the apparatus.

The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

Notice:

We keep the rights of improving and changing the design of our products without notifying.

Contents

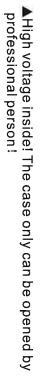
Safety Items

or other appliance! ▲Please do not prize or sway the LCD by hand

▲The operation power voltage is DC 24V, do not directly! connect to home use electric supply AC 220/110V



▲Do avoid being caught in or exposing in watery place!



support the monitor weight and suffer jolt! ▲The place for installation must be strong enough to



▲Avoid sun light and other heat source!



into the monitor, send to professional mechanic to repair! ▲Turn off the power first when something or liquid fall



▲Please do not scratch the screen of LCD!

▲When you want to clean the screen of LCD, please solvent to clean the screen! remember to turn off the power first, use soft cotton fabric to wipe it. Do not use any organic or inorganic



Features

- ♦ LED backlight
- ♦ Wide range of supply voltage, 16~32V DC
- Wide view angle, high brightness and resolution

 \diamondsuit Small size, light weight, low power consumption, easy installation.

 \diamondsuit Composite video signal input, PAL/NTSC auto (VGA Input optional)

15.6 inch: CM1561 CM1563 CM1568

- \diamondsuit Screen size: 359.8imes210mm , 15.6 inch
- ◇Display system: a-Si TFT active matrix
- ♦ LED backlight
- ♦ Display dot: 1366×768
- ♦ Respond speed: 8ms
- ♦ Panel brightness: 220cd/m²
- ♦ Contrast: 600: 1
- ♦ View angle: Left:45° Right:45° Up:15° Down:35°
- ♦ Power supply: DC 24V±20%
- ◇Power consumption: Normal: ≤ 30W
- ♦ Color system: PAL / NTSC Auto
- ♦ Operation temperature: -10°C-60°C
- ♦ Gross weight: ≤4 Kg
- \Diamond Dimensions: 389 \times 236.5 \times 41 (mm)

18.5 inch: CM1905 CM1915 CM1916

 \diamondsuit Screen size: 430.4imes254.6mm , 18.5 inch

♦ Display system: a-Si TFT active matrix

LED backlight

♦ Display dot: 1366×768

♦ Respond speed: 5ms

◇ Panel brightness: 250cd/m²

♦ Contrast: 1000: 1

♦ View angle: Left:85° Right:85° Up:80° Down:80°

♦ Power supply: DC 24V±20%

◇Power consumption: Normal: ≤ 30W

♦ Color system: PAL / NTSC Auto

♦ Operation temperature: -10°C-60°C

♦ Gross weight: ≤5 Kg

 \Diamond Dimensions: 463×283×46 (mm)

21.5 inch: CM2205 CM2215

♦ Screen size: 495.6×292.2mm, 21.5 inch

♦ Display system: a-Si TFT active matrix

LED backlight

♦ Display dot: 1920×1080

♦ Respond speed: 5ms

♦ Panel brightness: 250cd/m²

♦ View angle: Left:85° Right:85° Up:80° Down:80°

♦ Power supply: DC 24V±20%

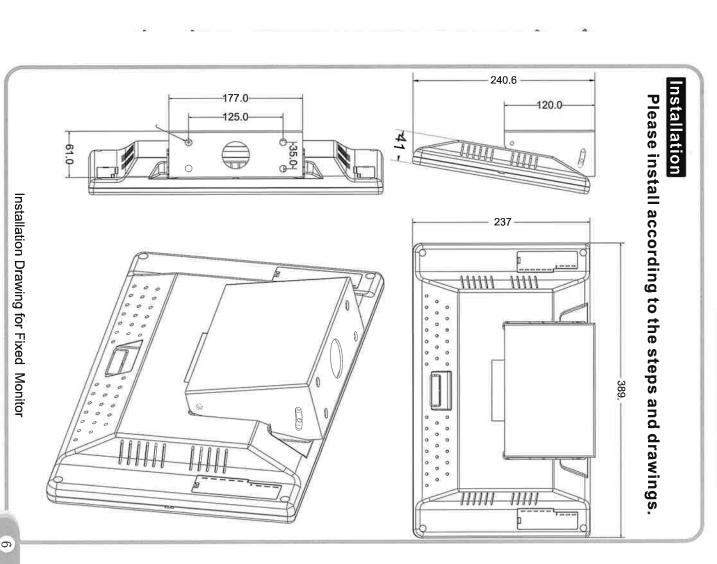
♦ Power consumption: Normal: ≤ 30W

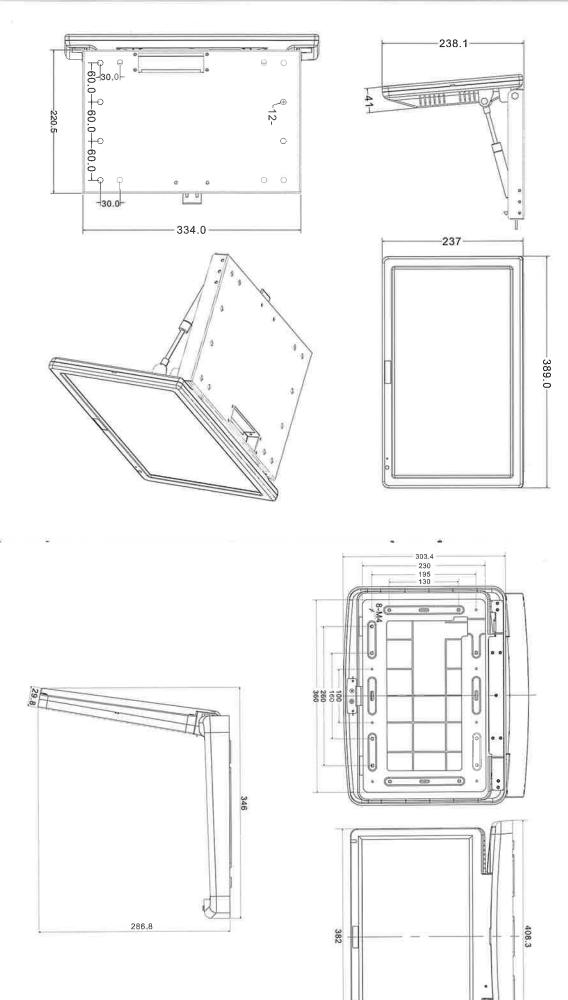
♦ Color system: PAL / NTSC Auto

♦ Operation temperature: -10°C-60°C

♦ Gross weight: ≤6 Kg

 \diamondsuit Dimensions: 530 \times 321 \times 47 (mm)



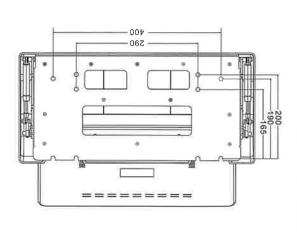


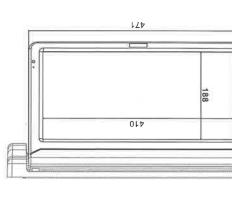
Make sure that the thickness of the screw head should be under 7mm.

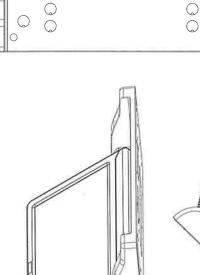
Installation Drawing for Manual LCD Monitor

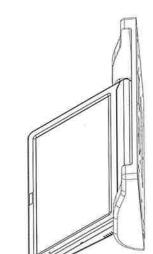
Make sure that the thickness of the screw head should be under 7mm.

Installation Drawing for Manual LCD Monitor









Installation Drawing for Manual LCD Monitor

Make sure that the thickness of the screw head should be under 7mm.

nstallation Steps:

- As shown in above drawing, broach 4 round holes in the roof steel
- Do not connect the mount to bus iron structure. That will influence 2.Insert the 4 screws (M5 \times 40) to the hole and mount the monitor on the roof by fastening the 4 screws on monitor bracket to vehicle roof.
- the picture quality since there are power separate units in monitor.

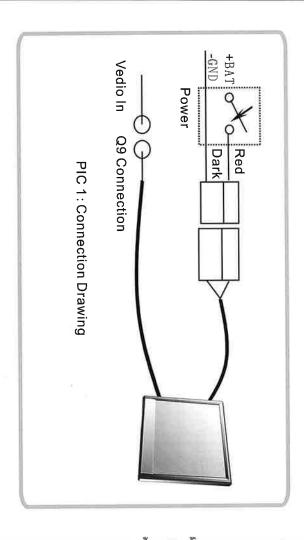
blue screen when no signal input. The power light is green. After turn on the monitor power, it will display the input video or

Remark:

The installation of 18.5 and 21.5 monitors are the same.

Installation Notice Items:

- Please do not damage the interconnection lines and plastic case or scratch LCD
- 2. The release length of interconnection line is better to be no less than 50mm, to avoid damaging when flip up and down frequently
- 3. Ensure the ceiling is flat for fixing the monitor, or otherwise the mount will be distorted after being fixed, this will influence on the monitor's normal flipping operation
- 4. Please do not sway the LCD strongly
- 5. Please make sure the monitor and the vehile roof reliable and good insulation. The connecting point of the singal plug must be wrapped with the insulation adhesive tape.



Connection Instruction:

Please look at the above connection drawing (See PIC 1)

1.Power connection: LED backlight monitor adopts auto DC24V

power supply. Red line is positive"+", and dark line isground"-". If the vehicle power is DC12V, please use power converter (12-24V) larger than 50W.

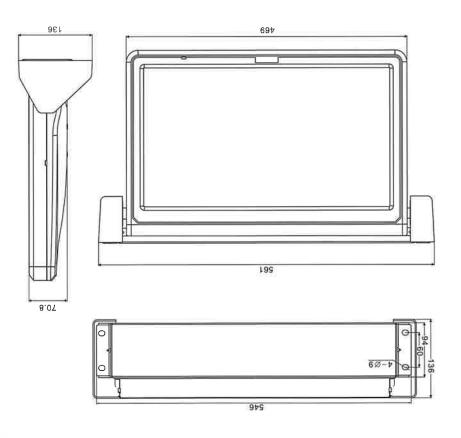
Note: Please do not connect LED backlight series LCD monitor directly with home power AC 220V or AC 110V!

2.AV Input Connection: Connect AV cable with LED backlight monitor AV input socket; make sure the connection is tight

18.5inch: CM1925

Installation Steps:

- 1.As shown in above drawing, broach 4 round holes on the roof steel girder, φ7 (tap screw M8) or φ9.5 (welded with M8 nut).
- 2.Use4screwsofM8x40, inserting through Ф8 springgasket and Ф8 gasketone by one, and mount the monitor on the roof by fastening the 4 screwson monitor bracket to vehicle roof.
- 3.Use2screws(M4x6)tofixthecablecover, donotexposethelinesoutorblocktheline.
- 4.Fixtheleftandrightcover.



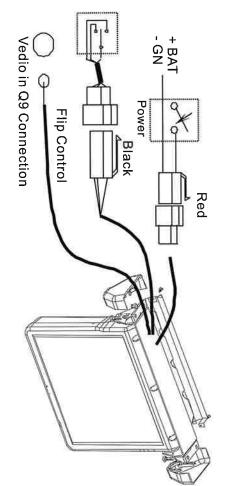
Features

- ♦18.5 inch 16:9 Display Aspect Ratio
- ♦ Smart-Motorized mechanism, manual one optional
- ♦ Smart flipping angle adjustment, flipping angle in memory
- Against unexpected pulling and pushing actions during flipping
- ♦ Flip controlled by variety of signals: video, low or high voltage
- ◇Inner isolation power design, good anti-interference ability
 ◇Composite video signal input, PAL/NTSC auto (VGA Input optional)

Installation Notice Items:

Please do not damage the interconnection lines and plastic case or scratch LCD

- 1.The release length of interconnection line had better to be no less than 50mm, to avoid damaging the line when flip up and down frequently
- 2.Ensure the ceiling is flat for fixing the monitor, or else the mount will be distorted after being fixed, this will influence on the monitor's normal flipping operation
- 3.Please do not sway the LCD strongly



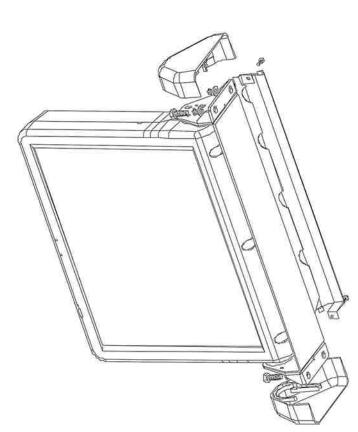
Connection drawing 2

Specifications:

- ◇Display system: a-Si TFT active matrix
- ◇Resolution:1366(H)X3(RGB)X768(V)
- ◇Panel brightness: 250cd/m²
- View angle: Horizontal: 170o (typ.), Vertical: 160o (typ.)
- ◇Power consumption: Normal: 60W
- Storage temperature: -20°C-75°C
- ◇Dimensions: 463×283×72 (mm)

Installation and Connection Instruction:

Please install CM-1925 following steps in the instruction, shown as Drawings

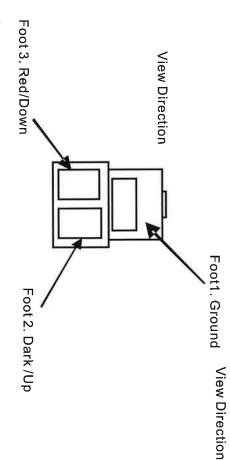


Installation Drawing 1-1

Note

- Please do not connect CM-1925 directly with home power AC 220V or AC 110V
- 2.Video Input Connection: Connect Video cable with CM-1925 input; make sure the connection is close
- 3.Flip control connection: STP line is ground; red is for flip down control and dark is for flipping up control. (See PIC 3)

When red cable connects ground, the monitor flips down slowly, at the same time, auto turn on the monitor power. When dark line connects ground, monitor will flip up slowly and turn off the monitor power. These three controlling line can be connected with driver control panel.



PIC 3 Flip control connection

Daily Use and Maintenance

To avoid body injury and property loss, please comply with the following safety instructions

Operation:

- Please do not jam the hole of casing
- Please be careful when moving the monitors, don't drop it, it may be broken or body injury.
- When using it, do not let the LCD monitor shock or impact strongly
- Please do not try to pull cable or signal cable to move the monitor.
- In order to protect the monitor, do not press LCD screen overly, when moving the monitor, scratch the framing and lift it up. When lift it up, pls do not put your hand or finger on the screen of LCD.
- Please do not install the monitor to unstable places, such as sway shelf, not flat place.
- When something or water fall into the monitor, turn off the power first and pull out the plug, then take the things out or wipe the water and send to the professional mechanic for repair.
- Do not use monitor cleaner directly spray on the surface of monitor, or else that maybe cause color fading and structure deformed, screen surface may peel off.
- Only soft cotton fabric and monitor cleaner can be used to clean the monitor. If using cleaner which is not for monitor, please dilute the cleaner according to the rate 1:10 (cleaner/water).
- When clean the monitor, please turn off the power first, use soft cotton fabric to wipe it
- If the monitor emanate bad smell, unusual noise or smoking, please pull out the plug immediately and contact with the service center.

If the monitor doesn't work well or you still don't know how to operate it correctly after reading our operation instructions, please contact with the service technicians.

Trouble Shooting

The following solutions may help you to deal with some general problems. If the problem still can not be solved, please contact with us or our local agent.

Problem	Solution
	Check the connection and polarity of power line.
The picture	Check the installation of the fuse.
Saphornial	Check the connection of Video line and check the
	station of the program player.