

6.5 INCH SHARP TFT LCD

CAR MONITOR SPECIALIZING FOR CAR PC



OPERATION INSTRUCTION



Catalogus

1.Cautions.....1

Warnings
Hint

2.Features.....2

3.Check before use.....3

Front panel description and remote control description

4.Operation of the monitor.....6

Specification of the monitor
support display mode
Open/Close monitor
Auto display for backing a car
ON-OFF control for car PC
Reset control for car PC

5.Operation of the touch panel.8

Cautions
Install of the CD drive
Calibration of the touch panel
Set of the languages
Set of the touch panel function

6.Basic function14

On-Off
mute control
Display select
Volume adjust
Sound control
Volume mode select
Disk-in
Disk-out
Adjust of the Angle
Operation for the Build-out USB

7.Radio tuner.....17

Manual tuner
Auto set memory broadcast in advance
Manual set memory broadcast in advance
Display set memory broadcast in advance

8.Operation of the menu.....21

AV state
VGA state
Radio state

9.Connect of the facility25

Cautions
Graphic connect of facility
Connect of backing control
Connect of car PC

10.Specification.....29

AM part
FM part
Audio part
Monitor Part
Common condition

Cautions

●Warn:

- 1、 Used in the car with 12V not in the truck or bus with 24V.
- 2、 Don't install the machine in the place where will obstruct driver's sight or impact driver's operation.
- 3、 Don't watch the movie to avoid the traffic accident for being detracted attention when driving.
- 4、 Don't dismantle or adjust any parts because consisting of high rigid parts. Please contact with factory or local agency if any problem.
- 5、 Don't place products and amplifier and speaker to be on too much moist or washy environment to avoid fire or other damage for short circuit.
- 6、 Don't be suffered strong impact to avoid damage of the frame part.
- 7、 Don't replace the fuze of the attached power with unmerited fuze to avoid fire or burned-out of machine.
- 8、 Stop operating the machine if no sound, image or to be of water and little object or fume, peculiar smell to avoid fire or other accident.
- 9、 Don't touch the screen by hard oobject to avoid scrape the screen.

●Hint

- 1、 Use the soft or neuter cleanser if any smudge in the screen.
- 2、 Open the air condition to reduce the temperature if the car expose to sunshine too Long.
- 3、 Don't operate the machine when some dew in the goods after using heating equipment for cold weather.
- 4、 Adjust the volume to appropriate range to hear the emergent call.
- 5、 Clean the products termly for foul and dusty environment.
- 6、 The illustration and screen display in the manul operation is to show how to opearte distinctly. So the screen display in illustration will be different with the actual display in the machine and maybe some operations can't be come ture in fact.
- 7、 Operate the products according to the manual operation. Nonlicet operation will be without guarantee to repair .

Features

TFT-LCD Monitor:

- Car TFT-LCD panel
- High resolution: 800X480XRGB
- High brightness: 450cd/m
- High contrast: 400
- Wide visual angle:
 - Up >70℃
 - Down >70℃
 - Left >70℃
 - Right >70℃
- Long life backlight: » 10000 hours
- Range of working temperature:
 - 30℃ to +80℃

Touch Panel:

- Simulate resistance touch panel with high resolution:2048X2048。
- Long life: 120000 times (Touch)
- High euphotic rate: » 85%

AM/FM:

- High sensitive ratio:
- High SNR:
- 200pcs broadcast deposited (each 100pcs for AM、 FM)
- Auto and manual search
- Support multi-radio system

Inner USB2.0 port:

- High speed USB2.0 Port
- Inner safeguard apparatus when exceed current audio amplifier.

- Special amplifier with high fidelity the MAX output of the power is 4X25W。

VGA Port:

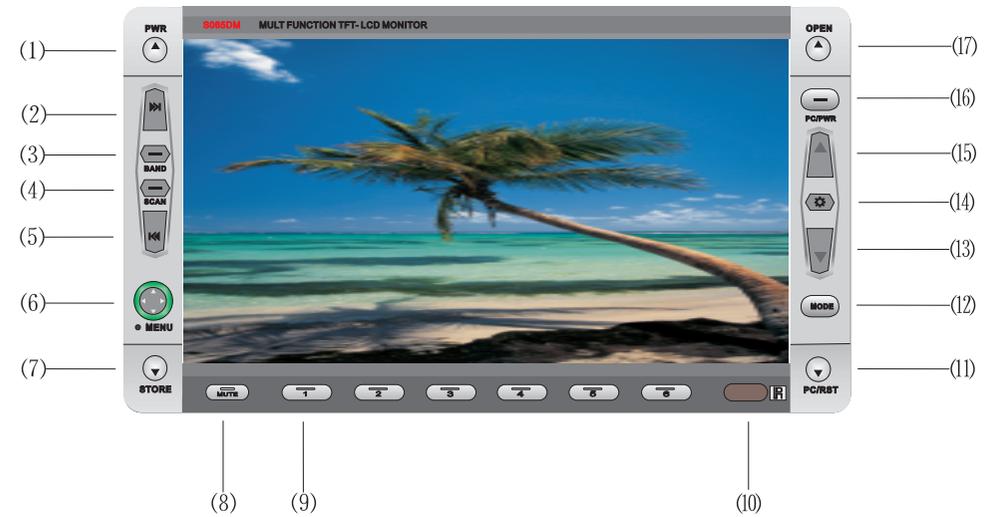
- Support multi-mode:1024X768
- Support SOG Mode
- Support non-standard mode, Such as 800X480

Drive of the DVD-ROM

- High Speed USB2.0 Port
- Support Disk Form: DVD-ROM(DVD-5, DVD-9 , DVD-10 , DVD-18) , DVD-R , DVD+R, DVD-RW, DVD+RW , CD-DA, CD-ROM/XA , CD-I , KARA-OKE CD , VIDEO CD and So on.

Operation of Buttons and Remote

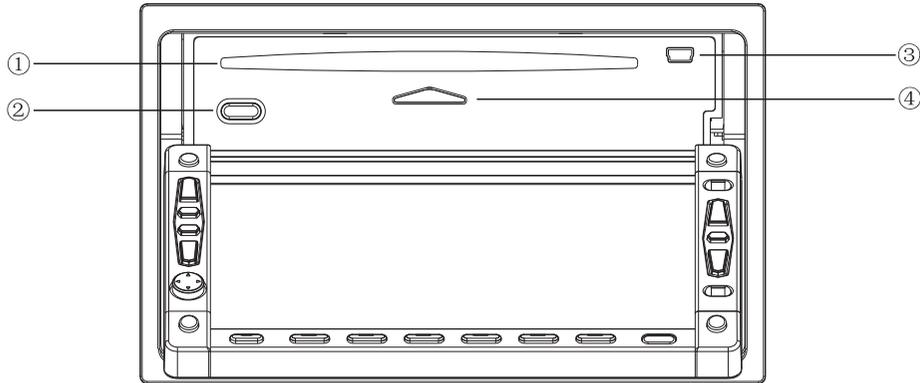
Front panel description: :



- (1)、 Power on/off Button.
- (2)、 **+**: AM/FM channel "+"
- (3)、 BAND: AM/FM Band Switch
- (4)、 SCAN: AM/FM Search
- (5)、 **-**: AM/FM channel "-"
- (6)、 Navigation button
- (7)、 Storage Button
- (8)、 MUTE Button
- (9)、 Channel Buttons: 1—6
- (10)、 Remote Window
- (11)、 PC Reset Control Button
- (12)、 MODE Switch Button
- (13)、 Slide Down Button
- (14)、 Brightness Control Button
- (15)、 Slide Up Button
- (16)、 PC Switch Control Button
- (17)、 Disc-in/out Button

Operation of the Buttons and Remote

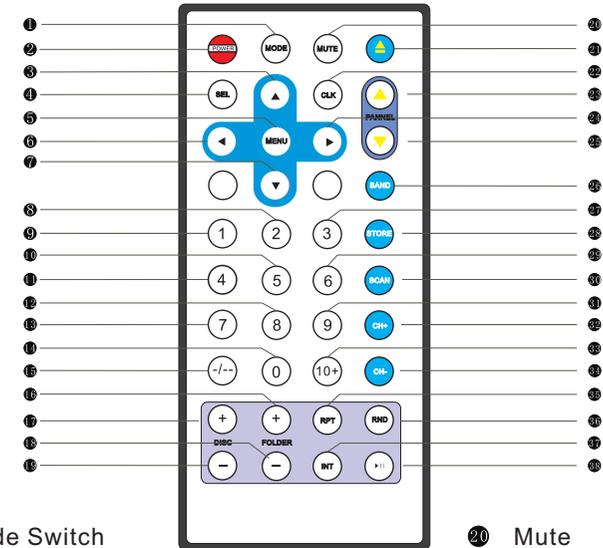
Features of the Front Buttons:



- ①: Disc entrance;
- ②: Eject button;
- ③: Standard mini USB port;
- ④: indicator light

Operation of the Buttons and Remote

Features of the Remote and Buttons:



- ① Mode Switch
- ② Power
- ③ Menu "UP"
- ④ Audio Select
- ⑤ Menu
- ⑥ Menu "-"
- ⑦ Menu "Down"
- ⑧ "2"
- ⑨ "1"
- ⑩ "5"
- ⑪ "4"
- ⑫ "8"
- ⑬ "7"
- ⑭ "0"
- ⑮ "Build-Up"
- ⑯ No Use
- ⑰ No Use
- ⑱ No Use
- ⑲ No Use
- ⑳ Mute
- ㉑ Open/Close
- ㉒ Calendar
- ㉓ Slide up
- ㉔ Menu "+"
- ㉕ Slide down
- ㉖ Band Switch
- ㉗ "3"
- ㉘ Storage for Radio
- ㉙ "6"
- ㉚ Search for Radio
- ㉛ "9"
- ㉜ Channel "+"
- ㉝ "10+"
- ㉞ Channel "-"
- ㉟ No Use
- ㊱ No Use
- ㊲ No Use
- ㊳ No Use
- ㊴ No Use

Operation of the Monitor

●Specification of the Monitor:

Item	Specification	Unit
Size	6.5	Inch
Type	Full Transmision	
Valid Area	144X78.24	mm
Pixel	800XRGBX480	Dot
Dot Distance	0.0605X0.163	
Color Pixel	262K	
ViewAn gle	70	Degree
Contrast	>=400	
Brightness	>=500	cd/m2

●Display Mode of VGA Support

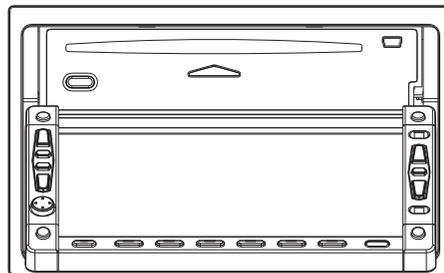
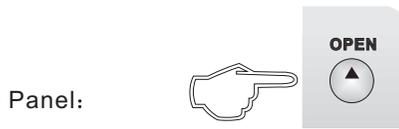
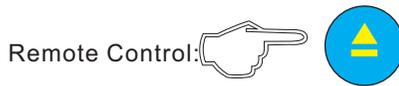
Seq	Resolution	RenovateR ate
1	640X350	50
2	640X350	60
3	640X350	70
4	720X400	50
5	720X400	60
6	720X400	70
7	720X480	60
8	720X576	50
9	640X480	50
10	640X480	60
11	640X480	66
12	640X480	72
13	640X480	75
14	800X600	56
15	800X600	60
16	800X600	72
17	800X600	75
18	832X624	75
19	1024X768	60
20	1024X768	70
21	1024X768	72
22	1024X768	75

The Best Display Mode is 600*480, 60HZ or 800*600,60HZ.

Open/Close Monitor:

●Open Monitor:

As Follows,the Monitor will Slide Down by Pressing Open/Close Button of the Remote Control or Panel.



●Close monitor:

As Above,Monitor will back to the Formerly Palace by Pressing the Open/Close Button again.

Operation of the Monitor

●Auto Display when Backing a Car

Monitor will has rearview function if connect the camera with reverse control cable correctly according to the requirement(attached connection).

Monitor will be on auto and switch the display image to be camera.

Monitor will come back to the primary state after completing the reverse.

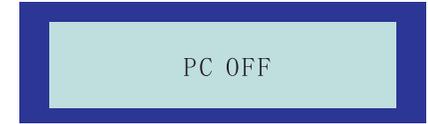
●ON-OFF Control of Car PC

Connect the control cable of car PC with high level $\geq 3V$ for opening and low level $\leq 0.2V$ for closing correctly according to the requirement (Such as the device connect drawing attached at the end).

Monitor will display the hint of being on of PC by pressing the PC-PWR button then high level will be Inputted by control cable of PC-ON to control the PC-ON or no any action.



Monitor will display the hint of being OFF of PC by pressing the PC-PWR then press the PC-PWR again, the PC will be closed.



●Reset Control of Car PC

Connect the reset control cable of Car PC which is with the high level reset function. The hint of monitor will be displayed by pressing the RST of the front case needed requirement then press the RST again to reset the Car PC.



Operation of the Touch panel

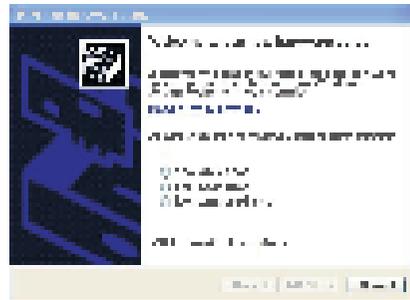
Cautions:

- The touch panel is used for Car PC without any other function to control the machine.
- Users should connect the touch panel control with USB cable of Car PC correctly and Install the right drive well before using the touch panel function.
- Users should calibrate and set before using touch panel function . Users should calibrate and set again after using some time normally (such as half a month) or any warp for the touch panel with image. Please calibrate every half a months to make sure the warp is within the allowable range.
- Following installation and calibration of CD drive of touch panel is VERSION 3.1.4.2201. The CD drive soft of other section will be some difference for Installation and calibration. Please be patient to install corresponding section to install and calibrate.
- Don't touch the panel directly by hard thing or nail to avoid the scrape of the panel. Operate the machine by being attached touch pen.
- Clean the touch panel by soft cloth to avoid the scrape of the panel. Don't clean the touch panel by organic impregnant to avoid damage of ITO film to effect the cuphotic ratio of the touch panel.

● Installation of the CD Drive:

Start the Car PC after the confirmation of the correct connection. install the drive of the touch panel if it can run natural. Take WINDOWS XP an example to introduce the installation.

1、 The PC will display the new USB device when starting PC.



Please Choose "Cancel".

2、 Put the attached CD Drive into the DVD-ROM of the PC. If DVD-ROM set the function of auto run, it is as follows:



If DVD-ROM has no auto run function, double hit the "RUN.EXE" files in the root directory of the CD-Drive then the windows also will be as above.

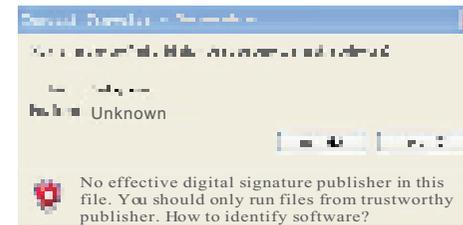
Operation of the Touch Panel

3、 Start to Install:

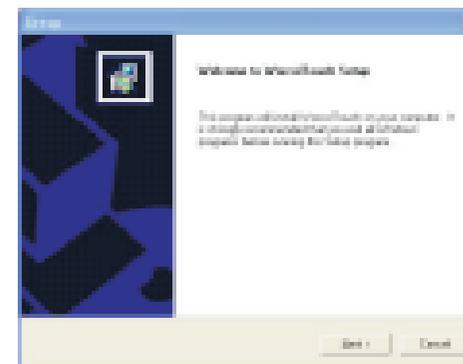
Select respond operation system WINDOWS 2000/XP to Install:



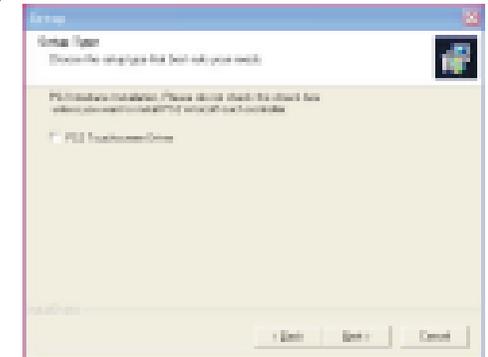
Select "Run" to Next Step:



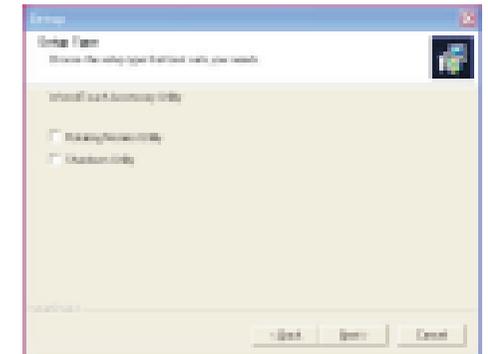
Select "Run" to Next Step:



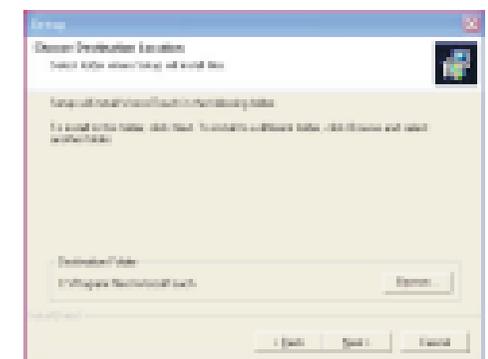
Select "Next" to next step:



Select "Next" to next step:

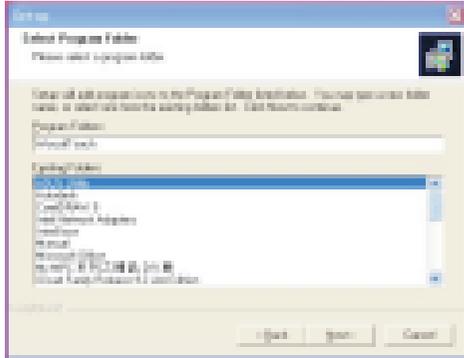


Select "Next" to next step:

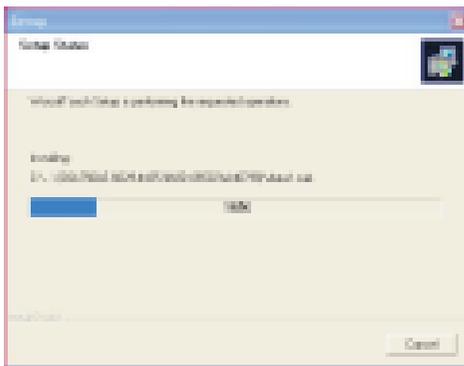


Press "Browse" or tolerant route to Install then press "Next" to next step:

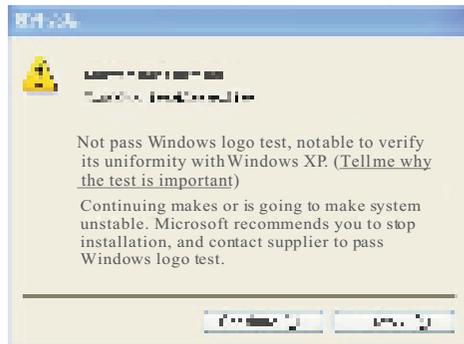
Operation of the Touch Panel



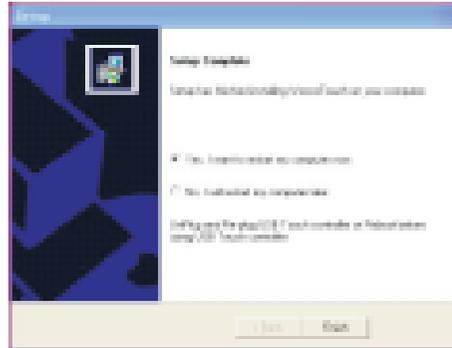
Select "NEXT" to Next Step:



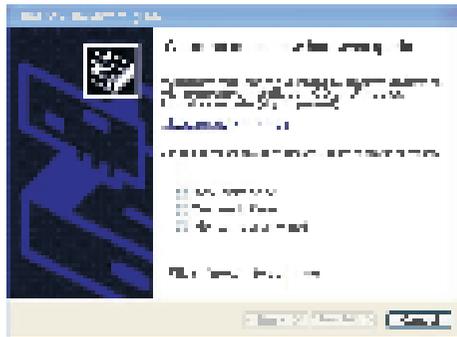
There will be following Image:



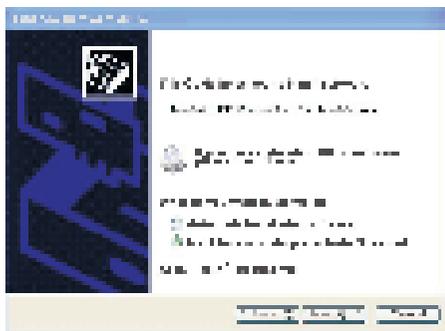
Select "Continue" to next step:



Select "Yes" to restart the PC:

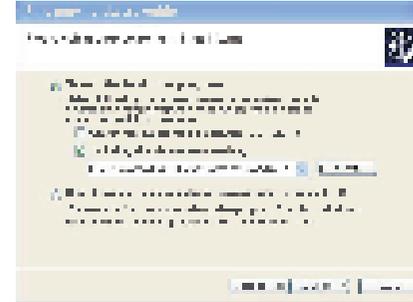


Select "No" to next step to continue to install:

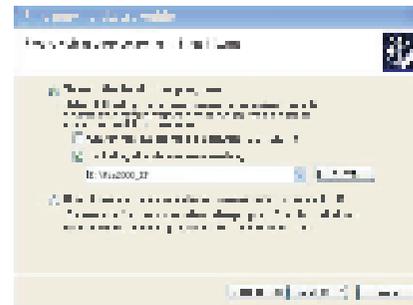


Select "Install from list or designated folder(Advanced) " to next step:

Operation of the Touch Panel



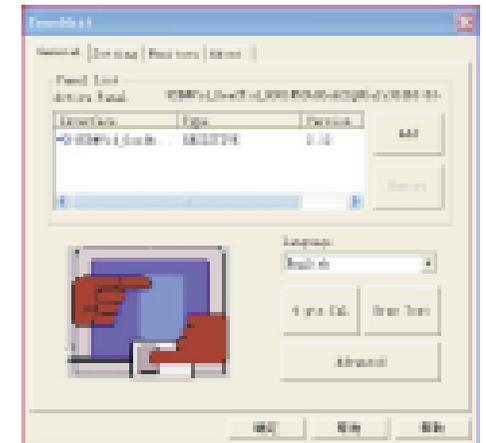
Select "Including the place when searching" at the entry of "Search the best drive procedure" then press "Brows" to change the route to "Win2000_XP" to next step



Press "Finish" to complete the control of the touch panel and the Installation of the applied soft.

● Calibration of the touch panel:

Calibrate the touch panel after completing the drive. Start the "Worcolto-uch" to following image:



Press "4 pts Cal" to Enter the image:



Press the flickering dot by touch pen until flicker stopped:

Operation of the Touch Panel



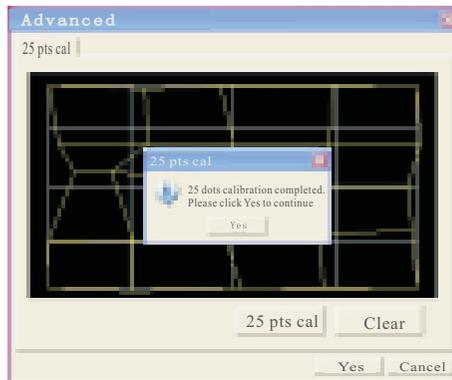
Press "Sure" to Complete the "4 pts Cal" Press "Advanced" to enter the more Clear Calibration Image:



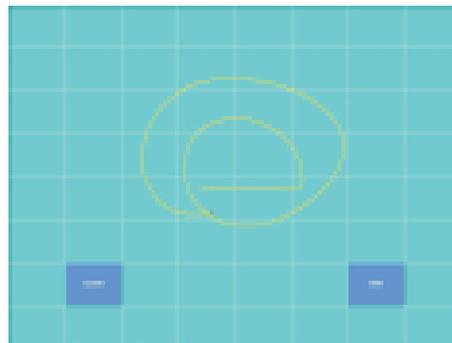
Press "25 pts cal"



Press the flickering dot by touch pen until flicker stopped:



Press "Sure" to Complete 25 Pts Cal Press "Browse Image" to Check the Result



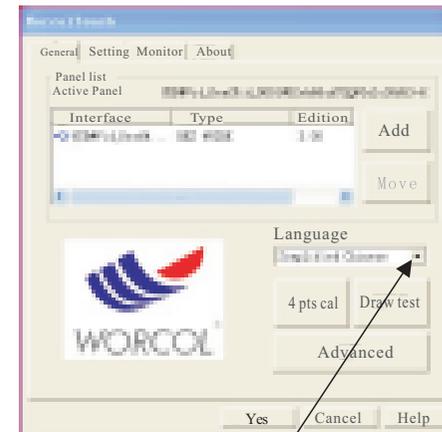
Users can Check the Linearity and Accord by Drawing any Image Such As Above.

Press "Clear" to Cancel all Image then Press "QUIT" to Exit the Image.

Operation of the Touch Panel

●Language Select:

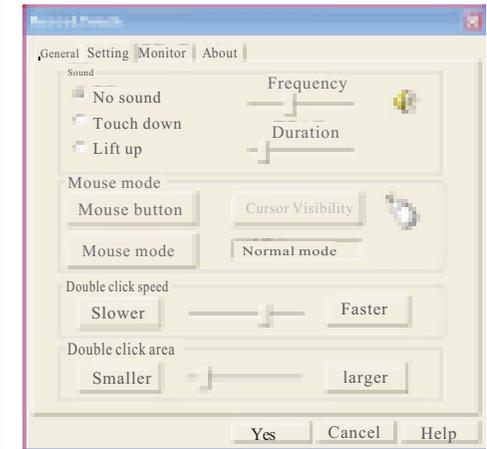
Drive support ten kinds of languages such as English、 French、 German、 Simplified Chinese、 Traditional Chinese、 Japanese、 Korean and so on . Procedure select the optimum language automatically according to the different section of operation. any special requirement, please search by hand:



Press the Down-Menu to select the relevant language then the windows will be the selected language automatically.

●Set of the Touch Panel:

Users select "Set" entry to set the touch panel for special function:



"About" entry display the section number of the Drive and the company's information:



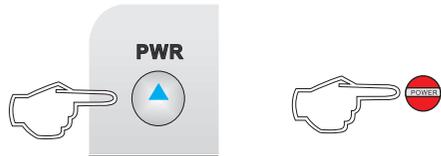
Basic operation

● Open/Close

● Open :

Press the Power of the front panel or the remote when the machine is on then the machine will run.

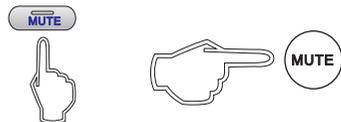
The other buttons will be invalid if No Power.



● Close :

Press the Power on the condition of being ON then the machine is closed.

● Mute Control :



Press the "MUTE" of the front panel or the remote to close the output of the amplifier to be in MUTE state. Press "MUTE" again then renew Amplifier output.

● Cautions :

- Adjust the volume or sound can cancel the Mute and renew the output of amplifier when in Mute state.
- There will be "MUTE" signal in the TFT Panel when in MUTE State.

● Display Mode Select :

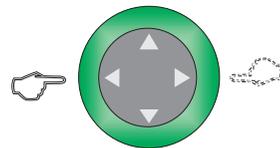
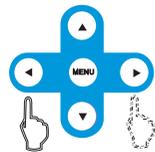
Switch the program of being on play by pressing the MODE of the front panel or the remote;

circle switch by AV1 – AV2 – RADIO – VGA – AV1.



● Volume Adjustment :

Adjust the loud and lower of the volume by rounding the Power button from right-left or pressing the "+" and "-" of the remote; the adjustable range is from 0 – 100 .



● Sound Control :

Adjust the "bass " " Treble " and " balance " according the section of the operation in the Menu .

Basic operation

● Mode Select :

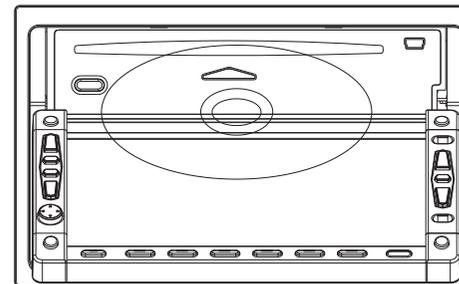
Users can select the audio input by pressing the " SEL " of the front panel or the remote in the VGA Mode circle switch by AUDIO1 – AUDIO2 – RADIO – AUDIO3 – AUDIO1



● Disk in:

As follows,users press the Open/Close button to open the monitor by operating DVD-ROM Drive in the VGA mode,then there will be Disk Entrance (Indicator Light).

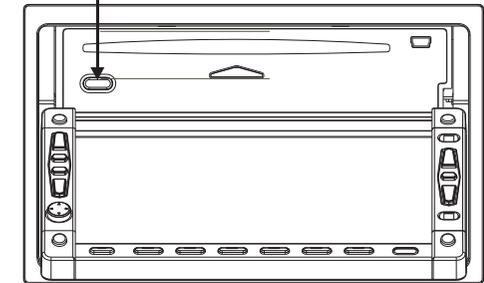
Chip will indraft the Disc automatically. Press the Open/Close button again to renew the place of the Monitor.



● Disc-out:

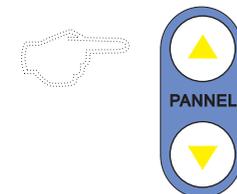
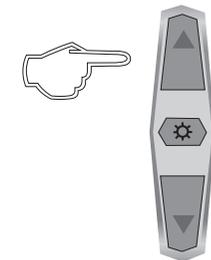
As follows , users press the Open/Close button to Open the Monitor in the VGA Model then there will be Disc Entrance then press the Eject Button, the Disc will be out automatically.

EJECT



● Adjust the angle of the lcd:

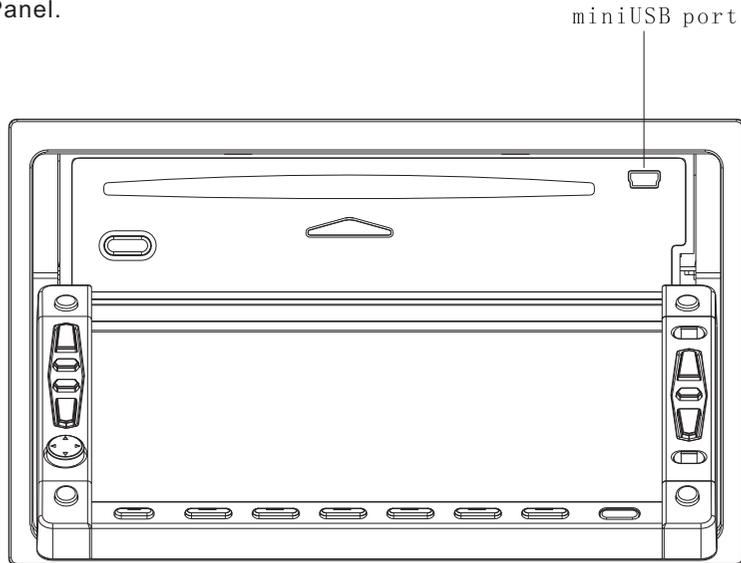
Users can Adjust the Gradient of the Monitor by Pressing the Angle Adjust Button of the Panel or the Remote to get the Best Display and Viewable Angle,Such as Follows.



Basic operation

● Operation of Build-out USB Port:

Users can Use the Provided Standard Mini USB Port which can be connected with U Device and Removable HD and USB Mouse by Opening Monitor or Adjusting the Angle of the Panel.



● Cautions:

- ①、 This miniUSB port is a standard port, can support USB2.0 protocol.
- ②、 Dont Connect the USB whose Working Voltage and Currentcy is more than 1A, +5V to Avoid the Damage of the Machine or Fire or other Accidents.
- ③、 Dont adjust the angle or Close the Monitor after USB Being connected to Avoid the Damage of the USB Port.
- ④、 The Mini USB Port only Provide the Power to the Out side USB equipment in the VGA mode.

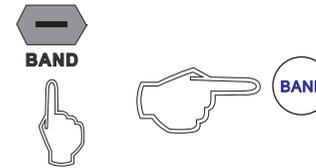
Radio Tuner

● Band Select :

There are two kinds Band switch control mode ; One is Shortcut Key Mode, the Other is Menu Control Mode.

◆ Shortcut Key Mode:

Press the "Band" of the front panel or the remote to circle switch from AM-FM Band.



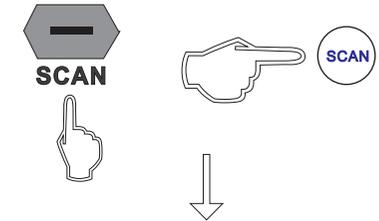
◆ Menu Control Mode:

Select Band Entry after entering into the Radio Menu then press "+" or "-" to switch the Band to circle switch by AM-FM-AM.

Radio	
Wave band	FM
Channel	13
Frequency	87.5MHZ
Direction	UP
Save as	13
Save	0
- [Progress Bar] + 0%	

● Auto Tune:

OSD will display the main Menu by pressing the "SCAN" of the front panel or the remote control at the Radio Mode:



Radio	
Wave band	FM
Channel	13
Frequency	87.5MHZ
Direction	UP
Save as	13
Save	0
- [Progress Bar] + 0%	

System will store the broadcast which is searched automatically from low to high by frequency to the channels from 0-99 by low to high.

System will have no reaction for any operation for the some second during searching.

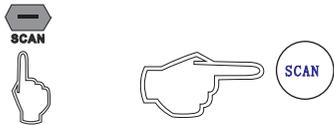
Radio Tuner

Manual Tune:

There are two kinds of tuner, one is shortcut tune mode, the other is menu tune mode. Operation is different.

Shortcut key manual tune mode:

System won't stop searching from the current frequency until the valid broadcast searched at the radio mode on the condition of closing panel then display the valid broadcast..



Menu Manual Tune Mode:

Enter into the radio menu at the radio mode then select "Direction" entry then press the "+" or "-" of the menu so that the receipt channel will change step by step until the anticipated receipt frequency.

Radio	
Wave band	FM
Channel	13
Frequency	87.5MHZ
Direction	UP
Save as	13
Save	O
- [] + 0%	

- Set memory broadcast automatically system will search the valid channel. whose signal intensity has been reached the requirement from low to high according to the frequency at the auto tune then store the channel set in advance by serial number.

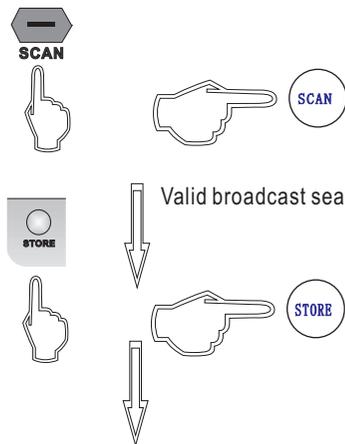
Display the broadcast from the channel set in advance by pressing digit key.

There are 100 piece channel set in advance from 0-99 for AM and FM.

- Manual set memory in advance:

- ◆ ShortCut Key set in advance mode:

Users only need to press the "Store" Key of the front panel or the remote control to store the valid channel of the broadcast met requirement when press the "Scan" Key.



Valid broadcast searched

Store the broadcast to current channel

Radio Tuner

- ◆ Menu Operation Set in Advance:

- ①: Select "Direction" entry then tune the broadcast to the channel met anticipated by pressing the "+" or "-" of the menu at the menu mode, such as 99.8MHZ .

Radio	
Wave band	FM
Channel	13
Frequency	87.5MHZ
Direction	UP
Save as	13
Save	O
- [] + 0%	

- ②: Press the "Save as" entry then press the "+" or "-" key to set the channel, such as 25. Cancel this procedure if the user want to save as the current channel.

Radio	
Wave band	FM
Channel	13
Frequency	87.5MHZ
Direction	UP
Save as	13
Save	O
- [] + 0%	

- ③ Select the "Save" entry by pressing the down key then press "+" then the current channel will be stored to appointed channel if the "Save" entry display "OK".

Radio	
Wave band	FM
Channel	13
Frequency	87.5MHZ
Direction	UP
Save as	13
Save	O
- [] + 0%	



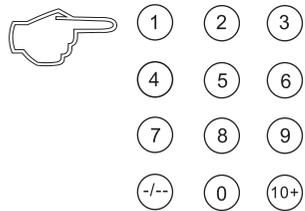
Radio	
Wave Band	FM
Channel	13
Frequency	99.8MHZ
Direction	Up
Save As	25
Save	ok
- [] + 0%	

Radio Tuner

● Display Set Memory in Advance :

◆ Display Shortcut DigitKey:

Skip to the broadcast appointed set memory in advance by pressing the digit Key of the remote control.



Operation is Following:

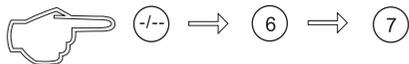
◇ 0 – 9 Channel: press respond digit key directly,such as channel 6 :



◇ 10 – 19 Channel:press "10+" then press single key.such as channel 13:

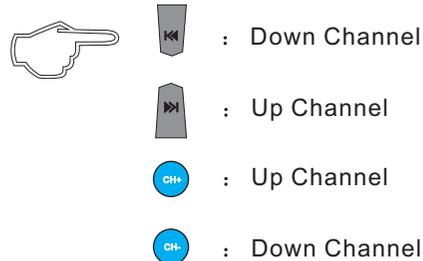


◇ 20 – 99 Channel: press "-/—" key then tens digit then single digit key. Such as channel 67 :



◆ Skip of the Channel:

◇ Shortcut Key : Skip the channel by pressing the skip key of the front panel or the remote control:



◇ Menu Operation:

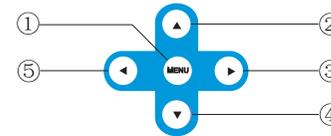
kip the channel by pressing the "+" or "-" of the menu at the entry of "Channel" of the menu:

Radio	
Wave band	FM
Channel	13
Frequency	87.5MHZ
Direction	UP
Save as	13
Save	0
— <input type="text"/> + 0%	

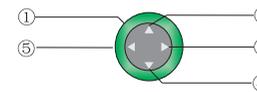
Menu Operation

● Operation Flow:

The Menu Operation is Mainly Operated by the "MENU" and "Up,Down,Right,Left" Key.



- 1、 Menu Key
- 2、 Up Key
- 3、 □+" Key
- 4、 Down Key
- 5、 □-" Key



Step :

- (1) Press "MENU" Key to Enter Menu.
- (2) Press "Up" or "Down" to Select Submenu Needed to Adjust.
- (3) Press "+" or "-" to Enter Submenu
- (4) Press "Up" or "Down" to Select Entry Needed to Adjust.
- (5) Press "+" or "-" to Adjust the Spec.
- (6) Press "Menu" to Back to Main Menu.
- (7) Press "Menu" to Exit OSD after Adjusting the Spec or the System Will Exit Automatically Within Five or Six Second.

Menu :

OSD Menu will be different in Different Mode,Such as AV Mode, VGA Mode,Radio Mode.

● AV Mode:

Main Menu will be on Screen by Pressing Menu Key in the Av1、 Av2 Mode:

Main menu
Graphic
Sound
Set
Time set

There are Four Entries,Such as "Image, Sound,Set and Time Set".

Select the Entry Needed to Adjust by Pressing the "Up" or "Down" then Enter into the Respond Submenu by Pressing "+" or "-" to Adjust.

● Image:

Submenu of Image is Following:

Graphic menu	
Brightness	50
Contrast	60
Chroma	60
Acutance	50
Hue	0
— <input type="text"/> + 60	

Operation of the Menu

There are five entries such as "Brightness, Contrast, Color, Nett, Hue".

Select the entry needed to adjust by pressing the "Up" and "Down" then press the "+" and "-" to adjust the specification

Brightness: 0-100

Contrast: 0-100

Color: 0-100

Nett: Adjust the Image

Hue: Adjust the image

● Sound :

Sound Submenu :

Sound Submenu	
Alt	50
Bourdon	50
Balance	0
- [Progress Bar] + 50	

There are three Entries such as " Bass 、 Treble 、 Balance " to adjust :
 Bass:Adjust the Bass Volume from 0-100 and the Windows Default is 50
 Bourdon:Adjust the Treble Volume from 0-100 and the Windows Default is 50
 Balance:Adjust the Balance of the Left-Right Channel for Amplifier and the Windows Default is 0.

● Set:

Set	
Language	Chinese

Select the OSD Lanugage According to Requirement.

● Time Set :

Submenu of the time set:

Time Set	
Hour	24H
Date	2016-10-16
Week	日
Time	16: 16: 16
Save	OK

There are four Entries such as " Clock Mode 、 Date 、 Week 、 time 、 Save " .
 Press "ok" at the entry of "save" after adjusting then all adjusted specification can be saved.
 Press"Menu" to exit then the entry of "time set" will be valid

Operation of the Menu

● RADIO mode :

There are only one main menu at the RADIO mode without any submenu.

Radio	
Wave Brand	FM
Channel	13
Frequency	87.5MHZ
Direction	Up
Save As	13
Save	0
- [Progress Bar] + 0%	

Band : AM-FM-AM switch circularly

Channel : there are 100pcs from 0 to 99 storage place for AM/FM each at the current display broadcast storage place .

Frequency : current broadcast frequency

Direction : Direction of the frequency

Save As : The Appointed place of Save

Save : Save yes or no

● VGA Mode :

Interface of the Main Menu at the VGA Mode as follows :

Main Menu	
Image	
Sound	
Set	
Geometrical Set	
Message	
Time Set	

There are six entries such as"Image 、 Sound 、 Set 、 Geometrisch 、 Info 、 Time Set".The adjust of time set and Sound is the same Adjustment in the AV mode.Other set is as follows

● Image :

Submenu of the Image as follows :

Image	
Brightness	56
Contrast	40
- [Progress Bar] 56	

There are two entries"brightness 、 contrast" :

Brightness:Adjust the brightness from 0-100;

Contrast : Adjust the contrast from 0-100

● Set :

Submenu Set as follows :

Set	
Language	Chinese
Grounding	7500K

There are Two Entries "language and Grounding" :

Language: Adjust the Lanugage of the OSD Display

Grounding : Adjust the grounding of the Monitor Display

● Geometrisch :

Submenu of the Geometrisch

Geometric set	
W-position	24
S-position	50
Taktfrequenz	50
Phase	14
- <input type="text"/> + 24	

There are Four Entries totally :

W-Position: Adjust the Right-Left of the Image

S-Position: Adjust the UP-Down of the Image

Taktfrequenz: Adjust the Dispaly Wide of Right and Left of the Image

Phaselage: Adjust the Display Result of the Image

● Info :

Info Menu

Info Menu	
Resolution	1024X768
H-frequency	48.5KHZ
V-frequency	60.2HZ

Display the Info of the Current lput of VGA

Resolution: Display the Resolution of the Input Signal

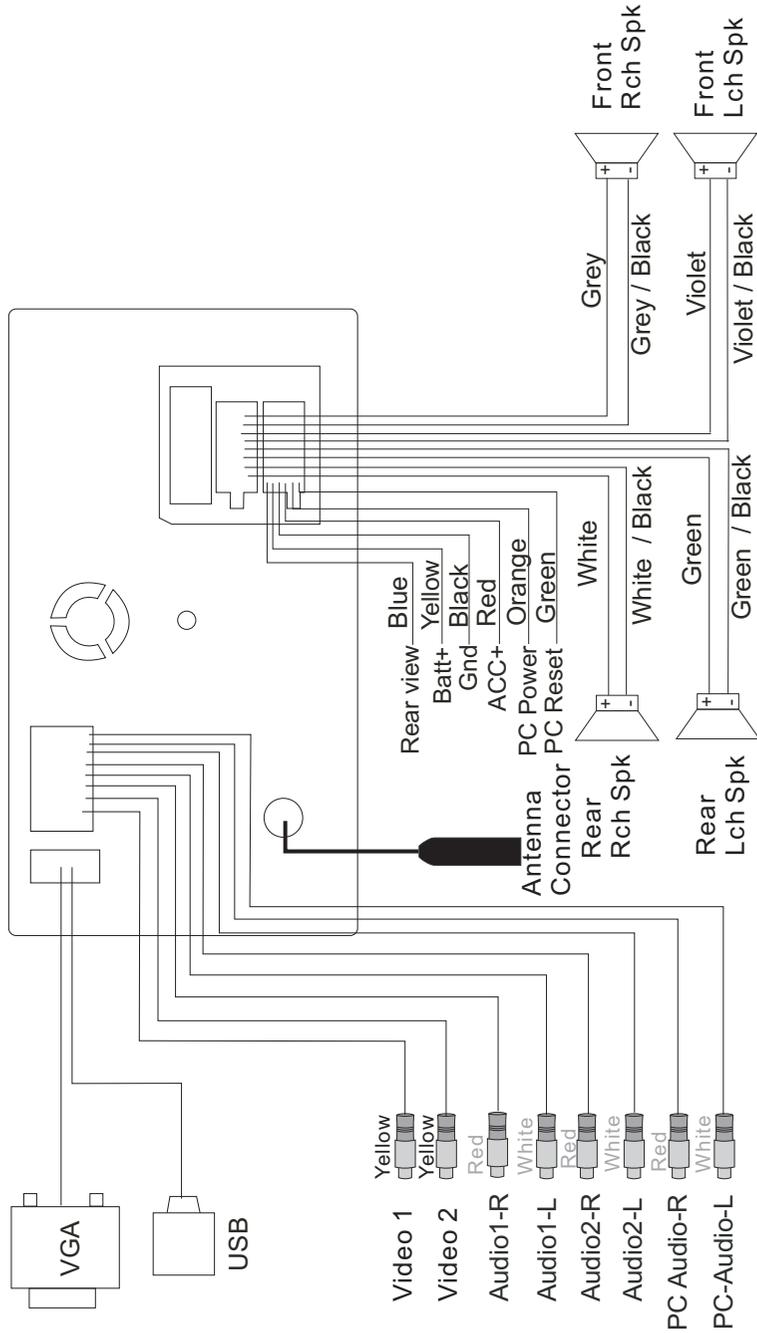
H-Frequency: Display the H-Frequency of the Input Signal

V-Frequency: Display the V-Frequency of the Input Signal

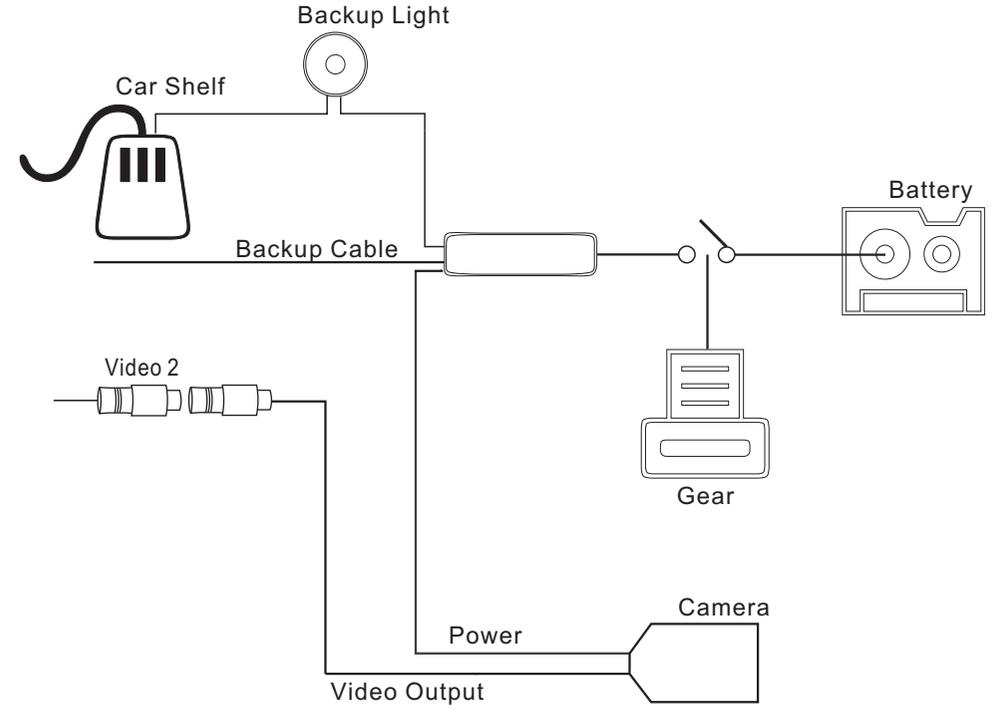
● Cautions :

- Install the voltagefall device before Installing in the Track or Bus with 24V for being used in the car with 12V and grounding in cathode.
- Cut the cathode cable of the battery before installing to avoid the short circuit of the machine.
- Don't fix the cable of machine near the removable part of the car, such as grip brake, gearlever, seat fixed navitrack and so on. Don't fix the cable of the machine near the heat area, Such as caliduct for let or heat will cause the melt of the insulative cable or damage to cause the shortcircuit of the car.
- Don't put the yellow power cable cross the save hole into the engine house then connect the battery to avoid the damage of the power to arose the short circuit.
- Use the stated fuze (10A) to exchange the burned-out fuze. Use the fuze with high capacity to exchange the burned-out fuze or connect without any fuze will cause the fire or damage of the machine.
Any problem after exchanging the fuze, contact with repair center.
- Don't connect the power cable of other device to the machine to avoid the fire or too hot for overfreight.
- Wrap untapped cable of the loudspeaker with insulating tape to avoid the short circuit.
- Insulate any exposed cable then pack all the cable to avoid the touch between connection port and metal part of the machine.
- Connect the fire lead to on "Open/Close" of the power by using the fire switch key if there are no ACC place in the light of the car.
- Don't connect the output port of loudspeaker to avoid the damage of the amplifier.
Don't use the 3-Wire loudspeaker.
Don't connect the cable of the loudspeaker to the car.
- The power of the loudspeaker should be high-power with the least rating of 50W and 4-8 Ohm for impedance.
Don't connect the cable of the loudspeaker out of the range of the Impedance to avoid the short circuit or damage of the loudspeaker.

Sketch Map of Connection

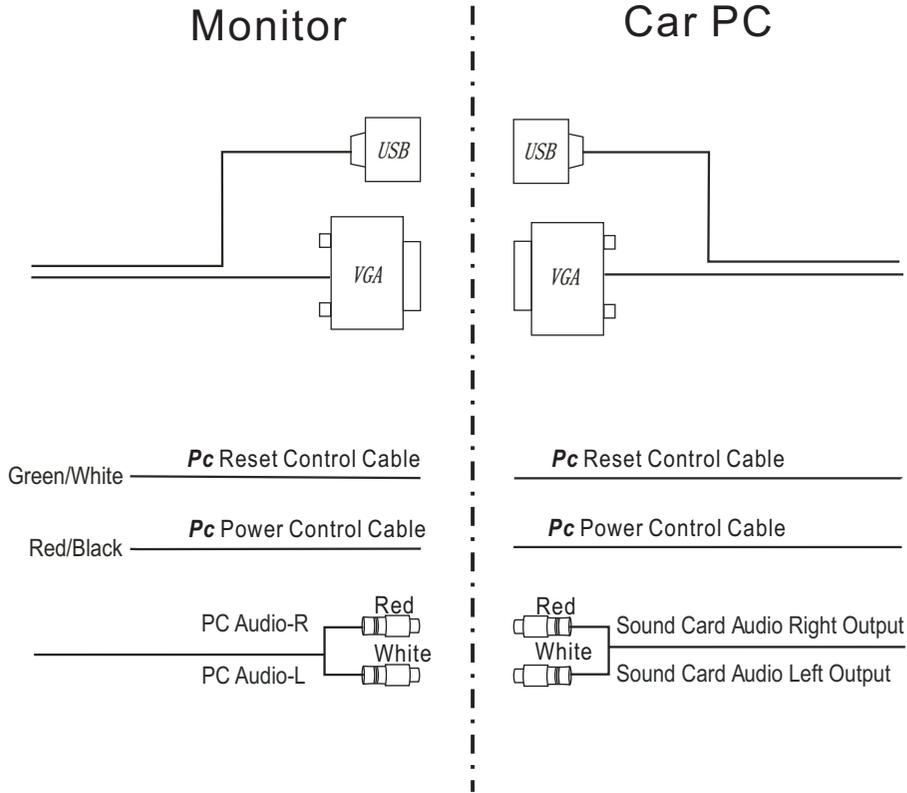


● Connect of Backup Control Cable :



Connect of the Device

● Connect of Car PC :



Specification

1、AM Part :

Seq	Item	Test Condition	Spec	Unit
1	Sensitivit	S/N=20dB	23	dBu
2	SNR	1KHz 30%	38	dBu
3	Distortion	1KHz 30%	2.5	%
4	Frequency	74dBu Input	50Hz +3	dB
			4KHz -15	dB

2、FM Part :

Seq	Item	Test Condition	Spec	Unit
1	Usable Sensitivity	S/N=30dB	6	dBu
2	SNR	Stereo 60dBu Input	55	dB
3	Distortion	MONO 60dBu 1KHz Input	1.5	%
		STEREO 60dBu 1KHz Input	2	%
4	Frequency	60dBu Input	100Hz -1	dB
			10KHz-14	dB
5	StereoS eparation	60dBu Input	30	dB

3、Audio Part :

PARAMETER	CONDITIONS	SPEC	UNIT
Voltage gain		34	dB
Output power	THD=10%	26	W
	THD=0.5%	19	W
Distortion	Po=1W	0.1	%
supply voltage ripple rejection		40	dB
Quiescent current		200	Ma

Specification

4、Monitor Part :

Seq	Item	Test Condition	Spec	Unit
1	Viewing Angle	CR \geq 5	Left 70	Deg.
			Right 70	Deg.
			Up 70	Deg.
			Down 70	Deg.
2	Contrast		450	
3	Brightness		400	cd/m ²
4	Respond Time		8	Ms
5	Viewing Area		155X87	mm
6	Viewing Dot		800X480	Dot
7	Dot Distance		0.06X0.18	mm
8	Color		262K	Kinds

5、Common Specification :

Seq	Item	Spec	Unit
1	Rated Working Voltage	14.4	V
2	Range of Working Voltage	9.5 to 16	V
3	Most Working Current	10	A
4	Working Temperature	0 to +60	°C
5	Storing Temperature	-20 to +75	°C
6	Working Humidity	40% to 80%	RH
7	Storing Humidity	30% to 90%	RH