



MF800 OPERATION MANUAL

High Brightness 8 inch Metal Frame Monitor

Safety precautions

In this manual, symbols are used to highlight warnings and cautions for you to read so that accidents can be prevented. The meanings of these symbols are as follows:

This symbol indicates explanations about extremely dangerous matters. If users ignore this symbol and handle the device the wrong way, serious injury or death could result.



This symbol indicates explanations about dangerous matters. If users ignore this symbol and handle the device the wrong way, bodily injury and damage to the equipment could result.



Please observe the following safety tips and precautions to ensure hazard-free use of the equipment.

Disclaimer

We shall not be liable for any error or for incidental or consequential damages in connection with the furnishing, performance, or use of this documentation or the examples herein.



1. This equipment should not be submerged on water or other liquids.



2. Do not cover crash or press the display area.



3. Do not attempt to remove the cover of this equipment. Any visible attempting of removing will exempt any manufacturer responsibility.



4. If any of the following situations arises, have the equipment checked by an authorized service personnel:

Any connector is damaged.

The cable/cord is damaged.

The equipment has obvious sign of breakage.



Environment

To prevent the risk of fire, electric shock or malfunction, avoid using your equipment in environments where it will be exposed to:

- Extreme temperatures, over the operation range.
- Heat sources such as radiators or stoves.
- High humidity or moisture.
- Excessive dust or sand.



Handling

- Do not place naked flame sources, such as lighted candles, on the device.



- Do not exert undue pressure on the keys and other controls. Also take care not to drop the unit, and do not subject it to shock or excessive pressure.
- Don't overpress the LCD or touch panel, it would damage one or either components.

Cleaning



Use a soft, dry cloth to clean the chassis and LCD/Touch surface. If necessary, slightly moisten the cloth. Adequated LCD liquid cleaner might be used to remove dust and finger prints.

Connection



Don't connect the unit to over the maximum voltage ratings, it will damage the unit and harm to the user.

The device is fully protected and ready to be connected to 9-30V DC power.

Security usage

Don't operate the device while driving. In several countries, it's forbidden to operate any visual device, either forbidden to visualize any content except GPS or similar guidance utility. The manufacturer isn't responsible or any harm caused by the unsecure use of our devices while driving.

Please keep this manual in a convenient place for future reference.

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1. Introduction

The XF series provides the best interactive HMI solution for any embedded application. The XF series is specially designed to meet harsh environment such as sustaining extreme shock and vibration. By introducing some key features, such as using “all in one” lockable cable, and simple OSD interface for easy and convenience usage, including a dimmer shortcut key and autodimmer features.

2. Specifications

Size	8 inches
Aspect	4:3
Colors	256k
Native resolution	800x600px
VGA modes	640x480 to 1920x1440px (incl. 800x600px)
Contrast	500:1
Inputs	VGA/DVI/HDMI, 2x Composite Video optional
Audio	No Audio
Touch Panel	Resistive 4 wires USB/RS232, protecting glass optional
Power supply	6-36VDC automotive car/truck suitable.
Power consumption	Normal 6W, HB 8W
Dimensions	197.8x157.3x33.45mm
Weight	1000gr
Enclosure	Metal folding
Operation temperature.	-35°C to 70°C max (-20°C to 60°C continuous)
Storage temperature.	-40°C to 85°C
Vibrations	1G 2-500Hz
Shock	20G 11ms
Drop	10cm max.

3. Installation

3.1 Connection.



Power supply: main power supply. Connect this line to 10A fused vehicle's power battery.

VGA input: computer or any device with VGA input.

USB Touch: touch controller HMI USB client.

Audio input R: Audio input Right channel.

Audio input L: Audio input Left channel.

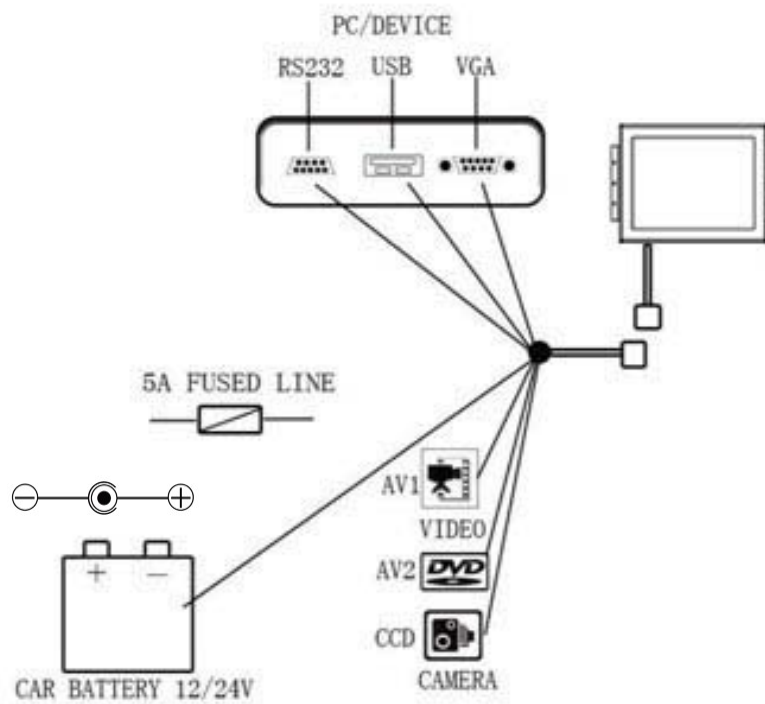
Video input AV1: Composite Video input 1.

CCD Input: Composite Video input with*auto-switch and * auto-start feature.

Auto-switch: the monitor will automatically switch to the CCD input when composite Video signal is present on CCD input. The monitor will return to the previous input once the signal isn't present.


Auto-start: the monitor will automatically power on and switch to CCD input when signal is present. The monitor will turn to power-off automatically when the signal isn't present.

Typical connection:



3.2 Power on.

Please verify the polarity of the power supply and connections before power on the unit.
After connect the power supply, there are different ways to power on the monitor:

1. Connect the VGA to any VGA source.
2. Connect the Rear camera input to a CVBS source.
3. Press the power on button  until the monitor power on.

4. Adjusting







4.1 Keyboard.



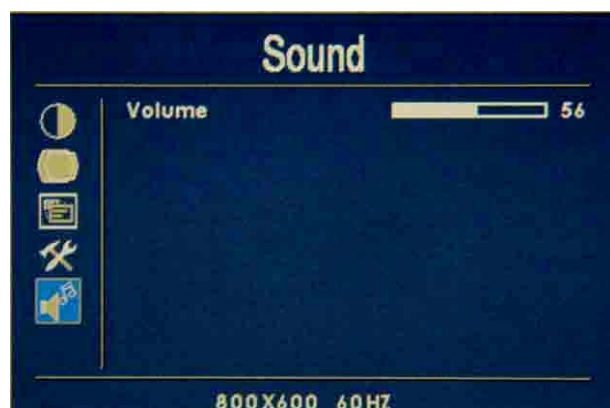
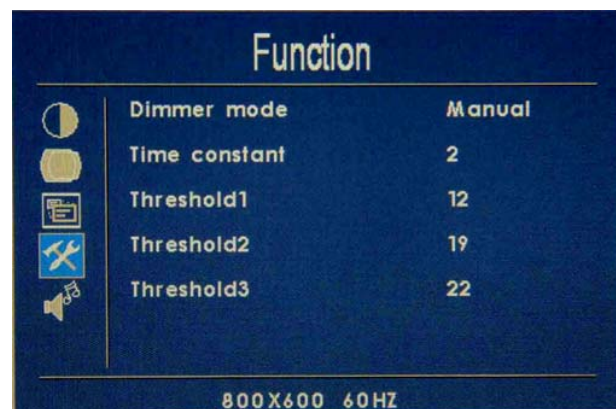
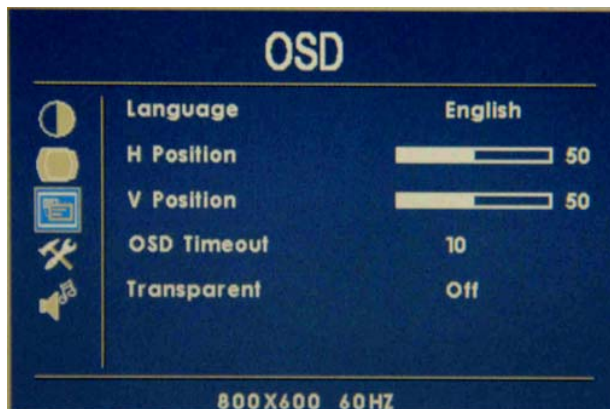
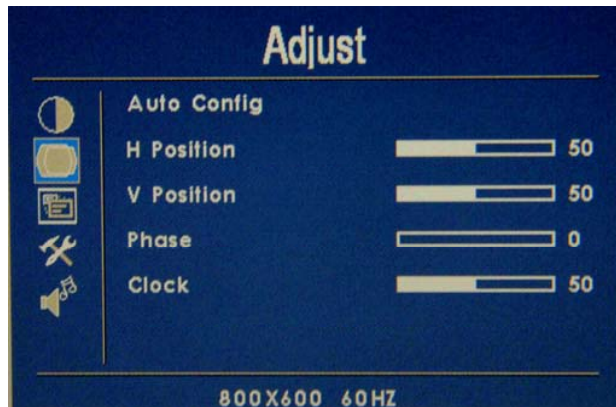
1. Power on key.
2. Show OSD window.
3. Increase Volume/OSD Parameter.
4. Source switching.
5. Decrease Volume/OSD Parameter.
6. Dimmer.
7. Power on Indicator/LED.

4.2 OSD (On Screen Display).





		Function		
	Name	Powered off	Powered on Shortcut	Powered on Menu opened
	Dimmer		2s press, switch to Auto-Dimmer	Roll parameter
	Dec		Volume Dec	Dec Value
	OK	Power on and roll source	Roll Source	-
	*Inc		Volume Inc	Inc Value / Accept
	Menu		Open OSD	Return / Close Menu
	Power	Power on	Power Off	Power Off

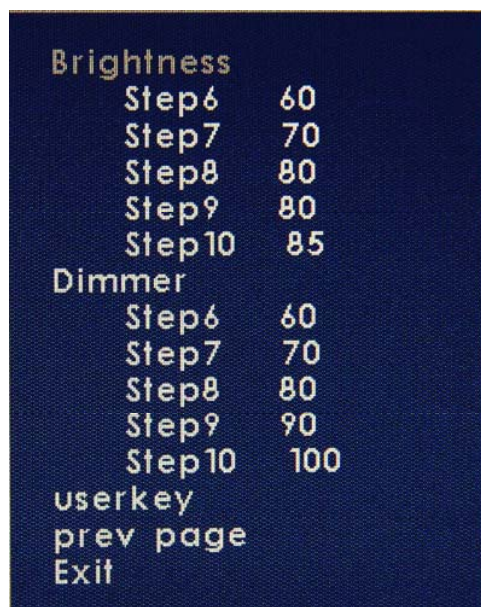
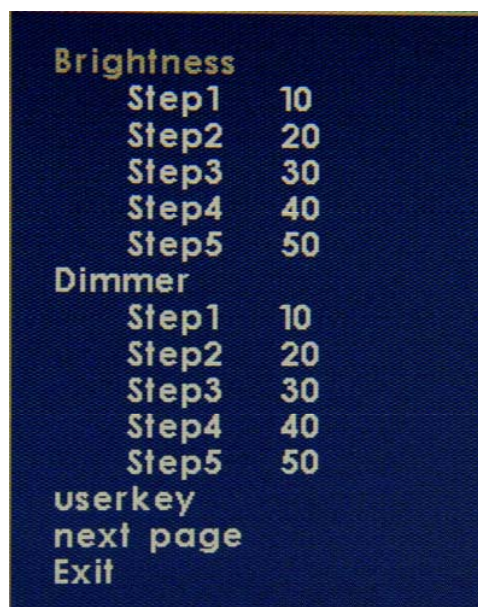
4.3. Basic Settings









4.4. Advanced Settings.

To enter in advanced mode, press  and  simultaneously.

4.4.1. Dimmer options.

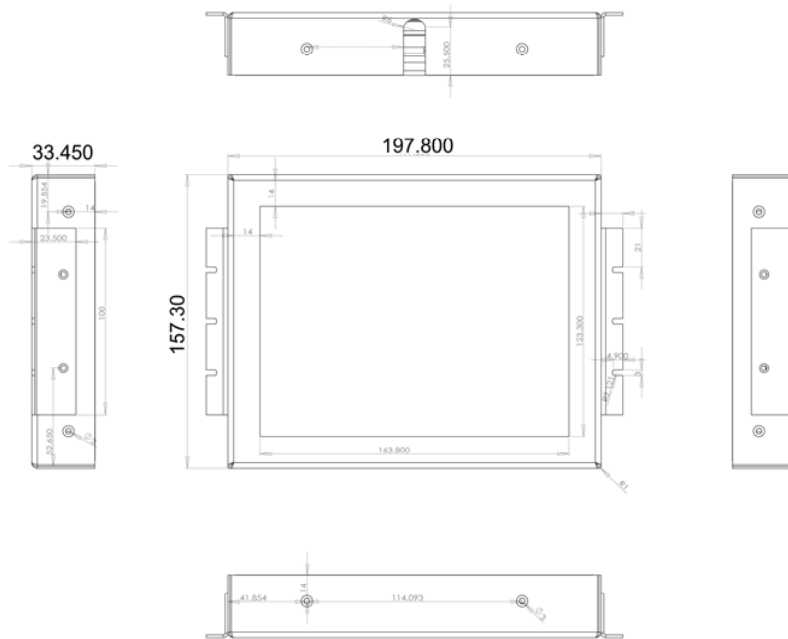


The dimmer option allows to configure the values of brightness and backlight intensity for each step:

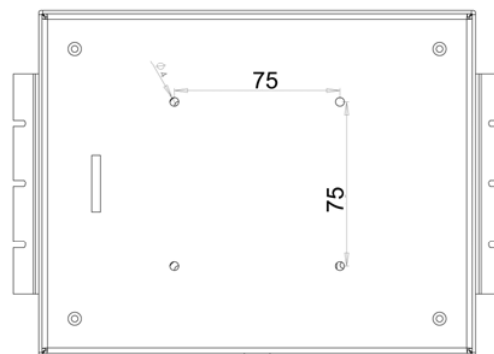
1. Use  to select the desired parameter.
2. Use  to enter in edit mode.
3. Use  and  to adjust from 0 to 100.
4. To exit, roll to Exit using  and press , the settings are automatically stored.

5. Dimensions

5.1 Front/profile.

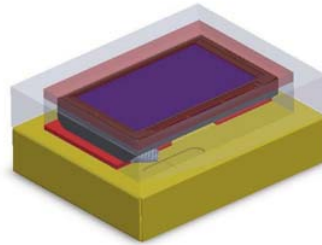


5.2 Rear



6. Packing

6.1 Box unpacking



Accessories

6.2 Carton packing



BOX SIZE: 26X19X10CM

QTY/CTN: 1 UNITS

G.W/CTN(kgs): 1.86 (2.5-meter-cable)
2.04 (4.5-meter-cable)

N.W/CTN(kgs): 1.4 (2.5-meter-cable)
1.58 (4.5-meter-cable)

BOX SIZE: 26X19X10CM

Q'TY/CTN: 10 UNITS

CTN SIZE: 53X42X30CM

G.W/CTN(kgs): 18.7 (2.5-meter-cable)
21.5 (4.5-meter-cable)

N.W/CTN(kgs): 18.6 (2.5-meter-cable)
20.4 (4.5-meter-cable)

7.Certifications:

European Community Declaration of Conformity:
General CE conformity 1999/5/EC.

EMC 89/336/EEC Electromagnetic Compatibility of Information Technology Equipment.

EN61000-3-2:2000+A1

EN61000-3-3:1995+A1

EN55024:1998+A1+A2

EN55022:1998+A1+A2 Class B

Automotive devices, 95/54/EC / 72/245/EC last amend 2006/28/EC.

ISO 10605, "Road vehicles, Test methods for electrical disturbances from electrostatic discharge"

ISO 7637, "Road vehicles, Electrical disturbances from conduction and coupling".

RoHS

This product is in compliance with the European Union Directive 2002/95/EC on the restriction of use of certain hazardous substances ("RoHS Directive"). Based on information provided by our suppliers, we designate the product as RoHS compliant. Confirmation of compliance status by our suppliers is either because the products do not contain any of the restricted substances referred to in the European Union Commission Decision of August, 18, 2005 (2005/618/EC) in connection with Articles 4 and 5 of the RoHS Directive in concentrations in excess of the values permitted thereunder or because removal of the restricted substances is not technically possible and their existence in the products at levels in excess of these concentrations is allowed as one of the particular applications listed in the Annex to the RoHS Directive.

WEEE

This appliance is labelled in accordance with European Directive 2002/96/EC concerning waste electrical and electronic equipment (WEEE). The Directive determines the framework for the return and recycling of used appliances as applicable throughout the European Union. This label is applied to various products to indicate that the product is not to be thrown away, but rather reclaimed upon end of life per this Directive

Environment:

Vibrations MIL-STD 810F 514.5.

Shock MIL-STD-810F 516.5.

IP65 according to IEC-529

Temperature MIL-STD-810F Method 501.4, 502.4

