

MM-70-CL



# 7" Clip-On Mirror Monitor User Manual



ECHOMASTER

# Installation Guide



**MM-70-CL**

7" Clip-On Mirror Monitor

## Introduction

**Thank you for purchasing your EchoMaster Mirror Monitor.**

EchoMaster mirror monitors are designed to improve safety by providing high quality images from camera inputs. This may help to improve vehicle maneuvering capabilities by displaying blind spots or areas not normally visible to the driver.

Please ensure you read and understand all aspects of this manual before fitting or using your EchoMaster mirror monitor.

## Box Contents

- ▶ User Guide
- ▶ Mirror Monitor
- ▶ Main Harness
- ▶ GX16-RCA adaptors x 2
- ▶ Remote Control

## Key Features

- ▶ Universal clip-on fitting
- ▶ Dual video inputs
- ▶ Dual mono audio inputs
- ▶ Reverse signal trigger
- ▶ Remote control included

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## Fitting Instructions

The MM-70-CL clips over your existing rearview mirror using the spring loaded clips on the rear of the unit.

Once the unit is in place, run the connections cable across the headliner of the vehicle and down the A pillar.

Please ensure that you do not impede the operation of any airbags that may be located in the A pillar of the vehicle. Any cable passing these airbags should be run behind the airbag and not in front of it.

Once the cable has been routed down to the dashboard, connect the camera inputs and power connections as shown in the wiring diagram section of this manual.

## Operating Instructions

To turn on the unit the vehicle ignition should be active.

All functions of the screen are controlled via remote control.

The POWER button will turn the screen on.

The VIDEO select button will cycle between AV1 and AV2.

The MENU button will cycle through the available options listed on the next page.

The ARROW buttons will adjust the volume of the built-in speaker when an image is being displayed and when the unit is in menu mode they will increase and decrease the values of the shown function.

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## Operating Instructions (continued)

The unit has built-in audio on whichever channel is being shown on screen. When a 12V input is detected on the green wire the unit will automatically switch to AV2.

If the unit is currently turned off when this trigger is detected it will automatically turn on and switch to AV2.

### Menu

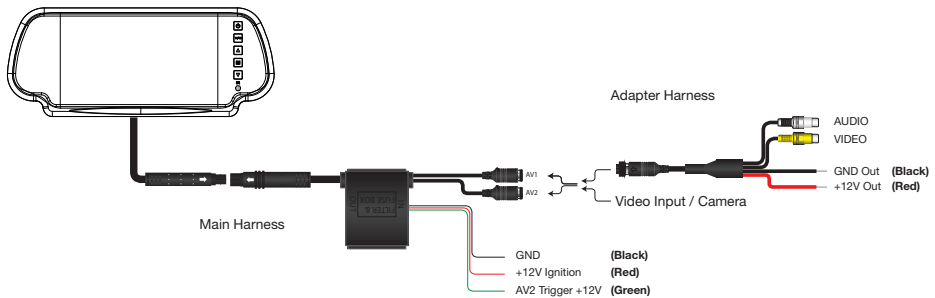
- Brightness:** Adjust the brightness level of the screen between 0 and 40.
- Contrast:** Adjust the contrast of the screen between 0 and 40.
- Color:** Adjust the color of the screen between 0 and 40.
- Volume:** Adjust the volume of the built in speaker between 0 and 40 (note that operating the arrow controls while NOT in the menu will also adjust the volume).
- Mode:** Change the screen ratio of the image between 16:9 and 4:3 formats.
- TCON:** This allows you to adjust the orientation of the picture between mirrored and non-mirrored, and upside down or normal. This allows you to use the monitor with a wide range of cameras and sources in a wide range of applications.
- Language:** Change the language of the on-screen menus between English, Turkish, German, French, Spanish, Portuguese, Italian, Dutch and Chinese (simplified and traditional).
- Source:** Allows you to switch between AV1 and AV2.
- Reset:** This will reset all menus to the default value.

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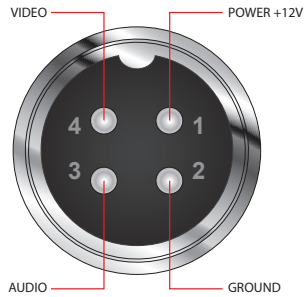
**MM-70-CL**  
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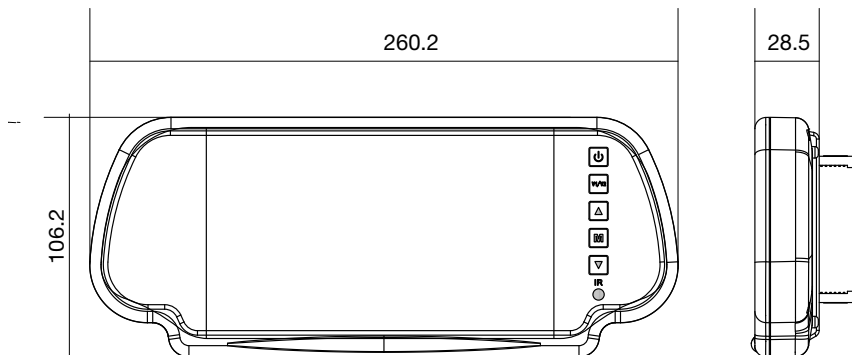
## Wiring Diagram



## Pin-Out



## Dimensions (mm)



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## Specifications

MM-70-CL	
Screen Size	7.0"
Aspect Ratio	16:9
Power Supply	12-24V DC
Resolution	800x480
Luminance	300
Contrast	500:1
TV Format	AUTO
OSD Languages	Multi
Video Inputs	2
Audio Inputs	2
Triggers	1
Current Draw	330mA
Operating Temperature	-20C - +70C
IP Rating	30
Parking Guidelines	No
Dimensions (mm)	260.2 x 106.2 x 28.5
Connection Type	GX16

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