# REVCAMUK
## Reversing cameras UK Ltd

# Instructions for our MON790/16 and MON745/17 monitors as used in our premium PM60 and PM70 series Kits



Our MON790/16 and MON745/17 are made by the same factory and share the same menu system. We have written this guide to help navigate some of the options inside the menu system.

Please be aware that some of the menu systems are subject to change (if you notice anything that differs then please let us know so we can keep these instructions up to date).

Please keep this guide handy incase you ever find someone has been playing with your monitor and changed all the settings.

# Technical Specifications

7" Colour LCD screen

Audio Output: 0.5W (requires camera with microphone)

Loudspeaker: one 15x40mm round loudspeaker

Power supply: 12V/24V

Power Consumption: Approx. 4W (with no cameras attached to 6W with two cameras)

Digital Screen Resolution: 800 x3(RGB)x480

Contrast: 500:1

Brightness: 400cd/m2

Viewing Angle: U: 50 degrees/ D: 60 degrees, R/L: 70 degrees

Operating Temperature: -10C to +65C

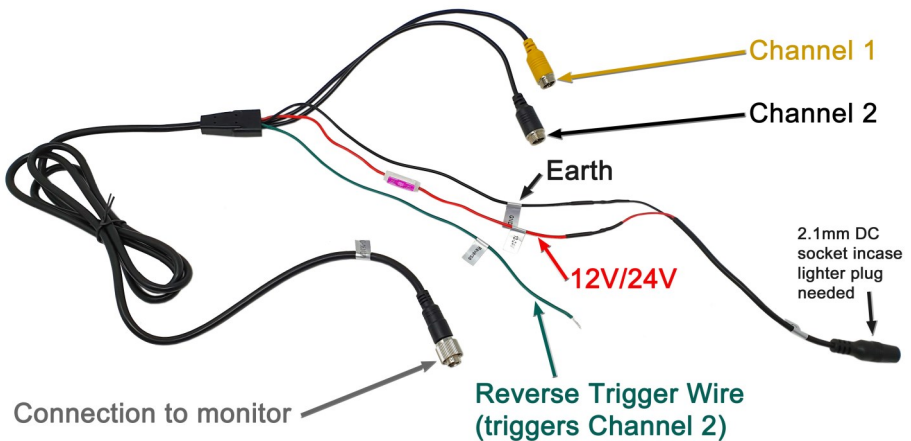Storage Temperature: -30C to +80C RH90%

2 Inputs

PAL/NTSC/AUTO

Rotation/Mirror on both channels

Full function Remote Control

Fixed Sunshade MON16, Removable Sunshade MON17

# Wiring Harness Layout

Channel 1

Channel 2

Earth

12V/24V

2.1mm DC socket incase lighter plug needed

Connection to monitor

Reverse Trigger Wire
(triggers Channel 2)

# Connecting the monitor to wiring harness

Please be careful when inserting the connection from the monitor to the wiring harness. We get about 2 or 3 people a year phone us up for a replacement wiring harness as they bent the pins after not noticing the arrows that need to be lined up before pushing together.

**Arrows should point to each other**

# Button Layout

Both monitors have touch sensitive buttons as opposed to physical push in buttons. We find these really responsive and easy to use. We have included a quick guide below to what each of the buttons do.

### MON790/16 Buttons:

### MON745/17 Buttons:

- or Down Arrow = Down

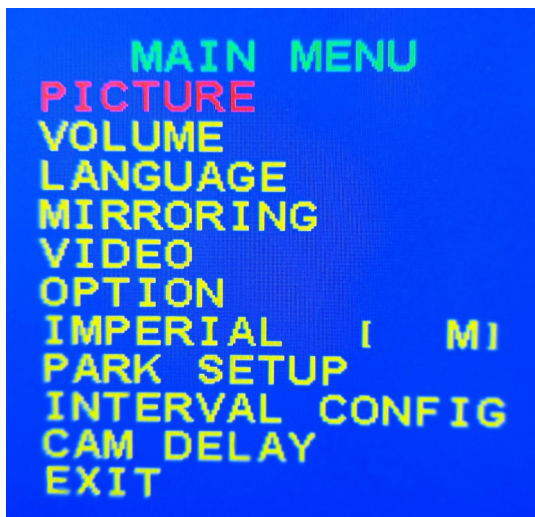+ or Up Arrow  = Up

Men/Menu = Menu/Enter

Cam = Change Channel

Mod/Mode = Mode (various picture settings)

Pow/ ⏻ = Power On/Off

# How to use the Menu System

The menu system is easy to navigate through using the first three buttons on the monitor. To enter the menu system press the Menu button. You will now see the options as seen in the image to the right.

Press the - or down button to move down until your selection is over the required function you wish to modify. To enter the sub menu/function press Menu button (this works as an enter button as well as the menu button). Pressing + or up arrow will move the selection up at any time.

# Picture Sub Menu

*Scoll to required option and press menu button to enter /modify required option.*

**Brightness** : Adjust the brightness of the picture

**Contrast** : Adjust the contrast of the picture

**Colour** : Adjust the colour of the picture

**Reset** : Resets values to default

**Return** : Returns to main menu

**Exit** : Exits menu completely

# Volume Function

If your camera has a microphone (most don't) then using this function can increase or decrease the volume of the speaker.

# Language Sub Menu

Select from the following options, these are in order should someone have changed for you already.

**English, French, German, Spanish, Portugese, Italian, Dutch, Return, Exit.**

## Mirroring Sub Menu

This function will only be used by a few people with a specific need, 99% of our customers can ignore it.

If for example you have a camera you wish to cancel mirror image on to use as a normal view camera looking to the side then you can use this menu to do so.

1.  Exit the menu system and select the camera you wish to modify using CAM button.

2.  Enter the main menu, arrow down to mirroring and press menu to enter.

3.  Select the channel number of the camera you wish to modify.

4.  As default the option is set to off, change this to the option you require.  The options are : OFF, V = Vertical flip will turn the picture upside down, HV = Horizontal and Vertical flip will turn the picture upside down and mirror that image with the horizontal rotation, H = Horizontal flip this will mirror the image.

5.  In our example we would have changed our camera to H, as this will mirror the picture (almost all of our cameras are mirror imaged as standard so mirroring this mirror image will turn it back in to a normal view image).

## Video Sub Menu

As standard we recommend that you use Auto, which will auto detect the video type of the camera.  The options are PAL/NTSC/AUTO.  Selecting the wrong type would mean you get a black and white picture or no picture.

## Option Sub Menu

Allows you to select picture mode and aspect ratio (16:9/4:3), this is usually left alone and picture mode can be changed when not in menu by pressing the mode button.

## Imperial Function

Pressing this will allow you to use either M for metres or F for feet.  This only really applies if you are using guidelines on the monitor.
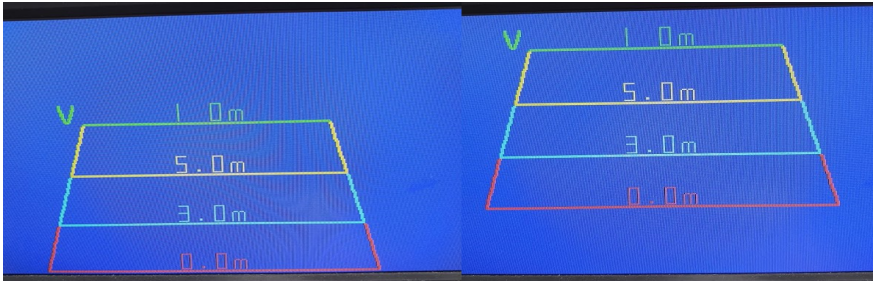
## Park Setup (Guidelines)

The monitor can add guidelines to the picture when the trigger wire has power (ie when reverse is selected).  If we wish to have guidelines then before continuing ensure your camera is plugged in to Channel 2 (Black input) and the green trigger wire is connected to the reverse light feed.  The monitor should now trigger on and off everytime you go in to and out of reverse.

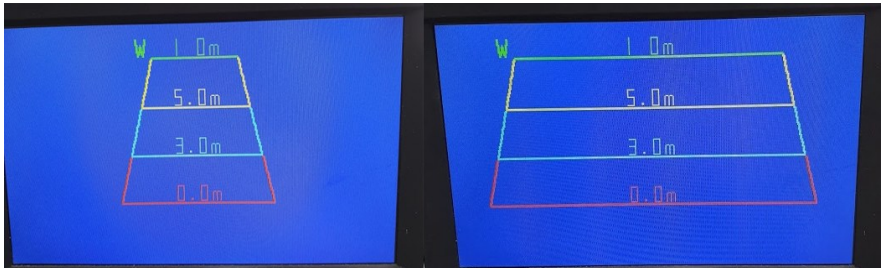Enter this menu and set **LINE 2** to **ON**.

Now enter **Line 2 Setup**.

The first adjustment will allow you to move the batch of guidelines along the vertical axis, the image below shows the max adjustment up and down of the guidelines.



*Tip: We find holding the up or down button will move it quicker than pressing individually lots of times.*

When you are happy with the adjustment press Men(u) to take you to adjust the width of the guideline box ie the Horizontal adjustment.  See the picture below for min max horizontal adjustment.



To adjust the values on the lines, go back to the main park setup menu and enter the line number menu. To modify values use the up and down keys to change the number to the required value and the Menu button to go to the next number to adjust.

# Interval Config Sub Menu

This monitor can be setup to switch between two cameras automatically on a pre-assigned number of seconds per camera.  This menu system will allow you to do so.  Enter the menu and you will have CAM1 and CAM2 listed.  You can change either channel from 1 to 30 seconds.  So if you wanted CAM1 on for 30 seconds then just a quick view of CAM2 for 3 seconds you would set CAM1 to 30 and CAM2 to 3.

To see the interval change in action, exit the menu system.

Now press the Menu button for a few seconds until you see the word "Interval" pop up in green on the top of the screen, this should now change channels to the timings set in the interval config sub menu.

# Cam Delay Sub Menu

Changing the time for channel 2 will mean the monitor stays on this channel for however many seconds you set (1-20) after the trigger wire no longer has power. This is useful for people who don't want the monitor to switch on/off when making small back and forth parking manoeuvres or where channel 2 is a side camera and the trigger wire is attached to the indicator light and would require a time delay to ensure the picture doesn't flash on and off with the indicator light.

# Mode Button

This button can be pressed whenever you wish to quickly change the picture settings for the monitor. There are 4 modes:

**Standard** : Recommended for most of the time

**Soft** : Recommended for night time driving

**Vivid** : Bright with high contrast

**Light** : Brightest picture for very bright conditions

# CAM button

This button will change channel between the two available inputs. If you have no camera in one of the inputs you will get a blue screen come up with the words "no signal" written on it.

# MON790/16 Standard Butterfly Mount

When using the standard mount, there is only one position you can secure the monitor. See the photo to the right to see the indentation made to allow for the length of the bolt to secure to the square washer.

If you position the bolt in to the wrong part of the channel then the monitor won't tighten sufficiently and could damage the plastic back of the monitor.

See the back page for details of other brackets available from our site.

Our other brackets allow more adjustment and don't require lining up to this indentation.

## Optional Brackets for both monitors

Both monitors have rear channels to allow for alternative brackets.

# ACC041

Quick Release Bracket
for our stand on
dash monitors

# ACC20540

Ceiling Mount Bracket
to fit a dash monitor
to ceiling location

# ACC705B

Alternative bracket
for our stand on
dash monitors

# ACC38

Suction Mount for
temporarily mounting
stand on dash monitors