Important safety instructions

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- (North America) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade, or the third prong are provided for your safety. If the provided plug does not fit your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and at the point they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- Unplug the apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen in to the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Safety warnings

- Do not expose the product to dripping or splashing.
- Do not place any object filled with liquid, such as a vase, on the product.
- Do not place naked flame sources, such as lighted candles, on the product.

To avoid interference
- Do not position the product:
  - Near strong magnetic radiation, such as near a power amplifier.
  - Near to a television, or where connecting cables may be subject to or cause interference.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE

This apparatus has been designed with Class 1 construction and must be connected to a mains socket outlet with a protective earthing connection (the third grounding pin).

To avoid overheating
- Leave at least 10cm around the equipment to ensure sufficient ventilation.
- Do not position the product:
  - In direct sunlight.
  - Near heat sources, such as a radiator.
  - Directly on top of heat producing equipment, such as a power amplifier.
  - On a soft surface, such as a carpet, which would obstruct the ventilation holes in the base.

The product normally runs warm to the touch.

FCC Information (USA Only)

CAUTION:

Changes or modifications not approved by Meridian/Faroudja could void the user’s authority to operate the equipment.

FCC Warning

This equipment generates and can radiate radio frequency energy and if not installed and used correctly in accordance with our instructions may cause interference to radio communications or radio and television reception. It has been type-tested and complies with the limits set out in Subpart J, Part 15 of FCC rules for a Class B computing device. These limits are intended to provide reasonable protection against such interference in home installations. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encourage to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
# Contents

## Introduction
This guide provides full information about unpacking the DVP1080MF Digital Video Processor and connecting it to the other equipment in your system. It also explains how to operate it to get superb results with your video sources and display devices.

- About the DVP1080MF: 1
- Technical specifications: 2

## Installing the digital video processor
This chapter explains how to install the digital video processor. It describes what you should find when you unpack the product, and how you should connect it to the sources and displays in your system.

- You should not make any connections to the product or to any other equipment in your system while the AC power supply is connected and switched on.

  - Unpacking: 3
  - Applications: 3
  - Video inputs: 4
  - Video outputs: 8
  - Communications connections: 9

## Operating the digital video processor
This chapter explains how to operate the DVP1080 Digital Video Processor using the Faroudja remote control.

- Switching on and off: 11
- Selecting a video input: 11
- Remote control: 12
- Adjusting the image settings: 13
- Adjusting the aspect ratio: 14
- Adjusting the image position and borders: 15
- Displaying test patterns: 16

## Configuring the digital video processor
This chapter explains how to configure the DVP1080 Digital Video Processor using options on the SETUP menu.

- Displaying the SETUP menu: 17
- Enabling or disabling video inputs: 19
- Configuration settings: 19
- Using profiles: 20

## Troubleshooting
This chapter provides suggested solutions to common problems that may occur when installing and using the DVP1080MF.

- Connecting the processor to the display: 21
- Connecting sources to the processor: 23
- Processor setup: 23
- Processor operation: 24

## Index

<table>
<thead>
<tr>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
</tr>
<tr>
<td>12</td>
</tr>
<tr>
<td>13</td>
</tr>
<tr>
<td>14</td>
</tr>
<tr>
<td>15</td>
</tr>
<tr>
<td>16</td>
</tr>
<tr>
<td>17</td>
</tr>
<tr>
<td>18</td>
</tr>
<tr>
<td>19</td>
</tr>
<tr>
<td>20</td>
</tr>
<tr>
<td>21</td>
</tr>
<tr>
<td>22</td>
</tr>
<tr>
<td>23</td>
</tr>
<tr>
<td>24</td>
</tr>
<tr>
<td>25</td>
</tr>
<tr>
<td>26</td>
</tr>
<tr>
<td>27</td>
</tr>
</tbody>
</table>
Copyright and acknowledgements

Sales and service in the UK
Meridian Audio Ltd
Latham Road
Huntingdon
Cambridgeshire
PE29 6YE
England
Tel +44 (0)1480 445678
Fax +44 (0)1480 445686

Sales and service in the USA
Meridian America Inc
8055 Troon Circle
Suite C
Austell
GA30168-7849
USA
Tel +1 (404) 344 7111
Fax +1 (404) 346 7111


Copyright © 2006-07 Meridian Audio Ltd

No part of this document may be copied, photocopied, translated, or reproduced to any electronic medium or machine readable form without prior consent, in writing, from Meridian.

Designed and manufactured in the UK by Meridian Audio Ltd. Meridian Audio reserves the right to make changes and improvements to any of the products described in this document without prior notice.

Boothroyd|Stuart Meridian, Meridian, and Meridian Digital Theatre are registered trademarks of Meridian Audio Ltd. The Faroudja name and logo, and 'DCDi by Faroudja' are registered trademarks of Genesis Microchip Inc.


Faroudja equipment is manufactured by Meridian Audio Limited under licence from Genesis Microchip Inc. Country of origin as specified on product label.

This guide was produced by Human-Computer Interface Ltd, http://www.interface.co.uk/

Part no: PB0317
Introduction

This guide provides full information about unpacking the DVP1080MF Digital Video Processor and connecting it to the other equipment in your system. It also explains how to operate it to get superb results with your video sources and display devices.

About the DVP1080MF

The DVP1080MF Digital Video Processor uses a series of patented image-processing techniques to produce superb image quality with 1920x1080p digital displays from a range of video sources.

The DVP1080MF converts 1080i interlaced HD video to a clean, 1080p progressive format for use with digital projectors and plasma displays. It includes full high-definition cross-conversion and standard definition processing, with patented technology for de-interlacing, motion tracking, colour fidelity, and image detail enhancement. Although it is ideal for use with digital projectors and plasma displays via a DVI or HDMI input, it can give enhanced image quality with all types of displays, including LCD, DILA, and CRT-based devices.

Selectable output profiles

The DVP1080MF allows you to create a profile for both 50Hz (PAL) and 60Hz (NTSC) sources for each display in a multiple display installation. Each profile stores 30 different parameters to ensure that the output is properly optimised for each display, so that the DVP1080MF produces the highest quality image with any display and any video source.

Inputs

In addition to the recommended DVI high-definition digital video input, the DVP1080MF provides a range of analogue video inputs to cater for almost every conceivable video source, including composite video, S-Video, RGB, YPrPb, and HDTV/PC (DV15F).
## Technical specifications

**Processing**
- 10-bit signal path.
- 1080i de-interlacing with MADI (Motion Adaptive De-interlacing) and 3:2 pulldown.
- High Bandwidth mode: Full resolution 1920x1080p (straight de-interlacing without scaling).
- Enhanced mode: 1080i converted to 1280x720 resolution then scaled to the selected output rate.

**Inputs**
- Format: NTSC/PAL
- Composite (BNC): 1V pp
- S-Video (4-pin DIN): Y - 1V pp, C - 700mV pp
- Component (BNC) 480i/480p/576i/576p/720p/1080i: Y - 1V pp (SMPTE), Cr - 700mV pp, Cb - 700mV pp
- RGB (BNC) 480i/480p/576i/576p/720p/1080i: Comp. Sync - 1V pp, RGB - 700mV pp
- DVI Input: DVI - I (female) Digital Only (0-255/16-235)

**Outputs (Progressive)**
- Digital Video Interface: DVI - I (female) digital only 0-255, HDCP compliant

**Operational temperature range**
- +5°C to + 40°C with internal temperature warning.

**Power supply**
- 100-240VAC 50/60Hz Auto Ranging.

**Power consumption**
- 35W.

**Dimensions**
- 432mm x 44mm x 318mm (17" x 1.75" x 12.5") WHD (depth includes rear BNC).
- Allow 80mm (3") at rear for cables.

**Weight**
- 6.4kg (14lb).

Specifications and features subject to change without notice.
Installing the digital video processor

This chapter explains how to install the digital video processor. It describes what you should find when you unpack the product, and how you should connect it to the sources and displays in your system.

You should not make any connections to the product or to any other equipment in your system while the AC power supply is connected and switched on.

Unpacking

The DVP1080MF Digital Video Processor is supplied with the following accessories:

- Meridian Faroudja remote (in a projector/processor package the remote is packed with the projector).
- Rack kit.
- Power cord.
- This manual.

If any of these items are missing please contact your dealer.

Note: You should retain the packaging in case you need to transport the unit.

Applications

In a typical application a high-quality digital video source, such as a Meridian G Series DVD Player, will be connected to the DVI input of the DVP1080MF via an HDMI to DVI cable. The DVI output will be connected to a projector, such as the Meridian D-ILA1080MF1 or D-ILA1080MF2, or a digital display such as a plasma display. The DVP1080MF will automatically select the DVI input and output, and will process the video signal to provide an optimised video image without any additional configuration being necessary.

If you have more than one HDMI or DVI source, the DVP1080MF can be used in conjunction with the Meridian HDMAX 421 to allow up to four HDMI or DVI inputs to be connected, including a Meridian DVD Player. The HDMAX 421 is controlled via the COMMs from the Meridian DVD Player, so the appropriate HDMI/DVI source is selected automatically when you select an input on your Meridian system.

The DVP1080MF can also cater for additional sources via the component video, S-Video, or composite video inputs. For example, a satellite receiver could be connected to the RGB component video inputs. The DVP1080MF will automatically select the active input, or an input can be selected using a remote control.

Although in most applications the DVP1080MF will select the appropriate video input and output without any further configuration, it includes a series of setup menus to allow you to specify the characteristics of each input and output, and customise the video processing options. Each set of settings can be stored as a profile and recalled at a later date, and you can save up to eight different profiles for both 50Hz (PAL) sources and 60Hz (NTSC) sources to cater for different video sources, display resolutions, or colour settings.
**Video inputs**

<table>
<thead>
<tr>
<th>Use this connector</th>
<th>To connect to this</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-Video</td>
<td>The S-Video output of a video game, satellite, or DVD source if component or DVI outputs are not available.</td>
</tr>
<tr>
<td>Composite video</td>
<td>The composite output of a low quality source such as a VHS cassette recorder or security camera.</td>
</tr>
<tr>
<td>Component video</td>
<td>The YPrPb or RGBs outputs of a source such as a satellite receiver or DVD player.</td>
</tr>
<tr>
<td>DVI INPUT</td>
<td>The DVI output of a video source using a DVI cable, or the HDMI output of a video source using an HDMI to DVI cable.</td>
</tr>
</tbody>
</table>

**To connect to an HDMI or DVI source (e.g., Meridian DVD Player)**

For highest quality, connect the HDMI out connection from the DVD player to the DVI input on the DVP1080MF using an HDMI to DVI cable. The DVP1080MF will automatically select the DVI input and no further configuration is necessary.
The processor monitors the DVI input and output status and provides the following information on the front panel display:

<table>
<thead>
<tr>
<th>Display</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVI</td>
<td>Input signal is supported</td>
</tr>
<tr>
<td>NO INPUT</td>
<td>No signal is detected.</td>
</tr>
<tr>
<td>DVI PASS-THROUGH</td>
<td>A VESA rate has been detected and sent to the output unprocessed.</td>
</tr>
<tr>
<td>RATE NOT SUPPORTED</td>
<td>A VESA or non-video rate has been detected but the selected output is analogue RGB or YPrPb.</td>
</tr>
</tbody>
</table>

The input type is auto-detected. Supported video rates for processing are 480i/480p, 576i/576p, and 720p/1080i at 50Hz or 60Hz. VESA rates, including 1080p signals, are sent to PASS-THROUGH only.

**To select the DVI input**

- Press DVI on the remote control.

**To display the signal without processing**

- Press Bypass on the remote control.

A DVI cable must be connected from the processor to the display and the digital output must be activated in the processor SETUP menu.

With HDCP encrypted sources, it may take up to 15 seconds for the HDCP authorisation between source and display to be acquired. The display device must be HDCP compatible to view an image. If a switcher is used, it must also be HDCP compliant. HDCP acquisition problems may be displayed as snow or a flashing image on the screen.

The DVI input levels and sync type must be matched to the DVI source in the SETUP menu. See Configuring the digital video processor, page 17, for details.

Some DVD players may offer a better image using the analogue YPrPb connections with the player set to 480i/576i output. This allows the DVP1080HD to do all the deinterlacing and digital conversion.

**To connect two or more HDMI or DVI sources**

The Meridian HDMAX 421 allows you to connect up to four HDMI or DVI video sources to a single HDMI or DVI input. In addition, when a Meridian DVD Player is used as the controller, the HDMAX 421 automatically selects the appropriate video input corresponding to the currently selected source.

- Connect the output of the HDMAX 421 to the DVI input of the DVP1080MF using an HDMI to DVI cable.
- Connect the HDMI out from the G Series DVD Player to HDMI input 4 on the HDMAX 421.
- Connect up to three other HDMI or DVI video sources to HDMI inputs 1 to 3 on the HDMAX 421.
- In the G Series DVD Player HDMI Options screen set the HDMI Switch option to On.
To connect a component video source (e.g., satellite receiver)

You can connect a component source to the YPrPb/RGBs inputs.

- Connect an RGBs source to the Cr/Pr/R, Y/Gs, and Cb/Pb/B inputs respectively.
- Connect a YPrPb source to the Y/Gs, Cr/Pr/R, and Cb/Pb/B inputs respectively.
- Connect a YCrCb source to the Y/Gs, Cr/Pr/R, Cb/Pb/B inputs respectively.

The DVP1080MF will automatically detect the type of the component input. Supported video rates for processing are 480i/480p, 576i/576p, 720p, and 1080i at 50Hz or 60Hz. (VESA 640x480 not supported).

When using RGBs, be sure to check settings for this input in the SETUP menu. See Configuring the digital video processor, page 17, for details.

To select an RGB source

- Press RGB on the remote control.

To select a YCrCb source

- Press YCrCb on the remote control.

To connect an S-Video source (e.g., DVD player)

You can connect a video game, satellite receiver, or DVD player to the S-Video inputs if component or DVI outputs are not available.

- Connect the S-VIDEO output from the source to the S-VIDEO analogue input on the DVP1080MF.

To select the source

- Press S-Video on the remote control.
To connect a composite video source (eg VHS video recorder)

This option should only be used with low-quality sources where no other output format is available.

- Connect the composite video output from the source to the VIDEO input on the DVP1080MF.

To select the source

- Press Video on the remote control.

Note that older VHS tapes and decks may cause an unstable image. In addition, a distorted image is normal during FFW, RW, and pause. A timebase corrector can be added to help stabilise the image.
Video outputs

<table>
<thead>
<tr>
<th>Use this output</th>
<th>To connect to this</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVI output</td>
<td>A compatible digital display that uses single link DVI COMM activity.</td>
</tr>
</tbody>
</table>

To connect a DVI projector or display (eg Meridian/Faroudja D-ILA1080MF1)

- Connect the DVI output to the DVI input of the projector or display using a high-quality DVI cable.

If you are using a Meridian projector:
- Connect the RS232 OPTION output from the DVP1080MF to the RS232 input of the projector using the RS232 cable supplied with the projector.

Using cables not rated for the resolution being used will result in images with colour sparkles and lines; always verify the maximum resolution of the cable with the cable supplier.

For 1080p, fibre optic cables should be used for lengths over 4.5m (15’) (or any cable rated for 1600x1200 resolution. Check with cable supplier).

The processor monitors the DVI input and output status and provides the following information on the front panel display:

<table>
<thead>
<tr>
<th>Display</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVI</td>
<td>Input signal is supported</td>
</tr>
<tr>
<td>NO INPUT</td>
<td>No signal is detected.</td>
</tr>
<tr>
<td>DVI PASS-THROUGH</td>
<td>A VESA rate has been detected and sent to the output unprocessed.</td>
</tr>
<tr>
<td>RATE NOT SUPPORTED</td>
<td>A VESA or non-video rate has been detected but the selected output is analogue RGB or YPbPr.</td>
</tr>
</tbody>
</table>

With HDCP encrypted sources, it can take up to 15 seconds for the HDCP authorisation between source and display to be acquired. The display device must be HDCP compatible to get an image.

The SETUP menu offers selections for setting the output type. See Configuring the digital video processor, page 17 for details.
Communications connections

<table>
<thead>
<tr>
<th>Use this connector</th>
<th>To connect to this</th>
</tr>
</thead>
<tbody>
<tr>
<td>IR LEAD</td>
<td>An external infra-red receiver via a 3.5mm stereo jack plug: Tip = +, Sleeve = Ground, Ring not connected.</td>
</tr>
<tr>
<td>SCREEN</td>
<td>A 12V trigger connection for use with an electronic screen or other device requiring a 12V trigger signal. The connection can be programmed for on/off operation in the SETUP menu or via RS232. Use a 3.5mm 2-pin connector Tip = +12V, Sleeve = Ground, 100mA maximum.</td>
</tr>
<tr>
<td>RS232 OPTION</td>
<td>Provides switching signals to control some Meridian/Faroudja projector functions including power on/off and 50/60Hz frame rate.</td>
</tr>
<tr>
<td>RS232 CONTROL</td>
<td>Allows the DVP1080MF to be controlled from an external device such as an AMX or Crestron control system. See RS232 control codes, available from Meridian on request.</td>
</tr>
</tbody>
</table>

Connecting power

Before connecting power, check the rating markings on the underside of the unit to ensure that the product is the correct voltage for your mains supply.

- Connect the AC INPUT on the back panel to a suitable mains supply, using the power cord supplied with the DVP1080MF.

To disconnect the DVP1080MF from the mains supply at any time remove the appliance connector or the mains plug.

For this reason the appliance connector or the mains plug must remain accessible when the apparatus is in use. The socket-outlet should be near the equipment and easily accessible.
10

Installing the digital video processor
Operating the digital video processor

This chapter explains how to operate the DVP1080MF Digital Video Processor using the Faroudja remote control.

Switching on and off

To switch on
- Press the red power/standby button on the front panel, or the On button on the remote control.

To switch to standby
- Press the red power/standby button on the front panel or the Off button on the remote control.

The front panel display shows:

```
FAROUDJA DVP SERIES
LOADING............
```

Selecting a video input

The DVP1080HD provides six video inputs: VIDEO, S-VIDEO, RGB, YCrCb, DVI, and PASS-THROUGH. You can select the current video input using the remote control or INPUT menu.

The SETUP menu allows you to deactivate unused inputs. If an input is deactivated it will not be visible on the INPUT menu, and the front panel display will show INPUT NOT AVAILABLE if the input is selected with the remote control.

To select a video input
- Press the appropriate key on the remote control: Video, S-Video, DVI, RGB, YCrCb, or Bypass.

To select an input from the INPUT menu
- Press Menu.

The front panel display shows:

```
INPUT MENU
<PRESS UP/DOWN KEY>
```

- Press ▼.

The display shows the current active input; for example:

```
ACTIVE INPUT S-VIDEO
```

- Press ◀ or ▶ to step between the active inputs.

After a short delay the currently selected option will be made the active input; for example:

```
ACTIVE INPUT DVI
```

When Bypass is selected, sources connected to the DVI input will be sent to the DVI output unchanged by the processor. Analogue sources connected to the D15 input will be sent to the analogue outputs unchanged by the processor.

To deactivate unused inputs

See Configuring the digital video processor, page 17.
Remote control

Digital video projector operation

The remote control operates both Meridian DILA projectors and DVP digital video processors.

- Press DVP or DILA to select the product you want to control.
- Point the infra-red light at the top of the remote control towards the product you want to control.

The digital video processor has a sensor on the front panel.

The projector may have sensors at the front and rear; see the projector user manual for details. In addition, you may be able to control the projector by pointing the remote control at the screen so the beam reflects back to the projector.

To work reliably the angle of the beam needs to be within ±30° of centre, and the total distance needs to be less than 7 metres.

To replace the batteries

Before use, load 3 AAA size batteries into the remote control. If the remote control starts to function erratically, replace the batteries.

- Gently press the circular recess near the top of the battery cover on the back of the remote control.
- Slide the cover down and off.
- Insert three penlight cells by pressing the negative terminal of each battery against the corresponding spring and snapping into place.

Alkaline cells types AAA, UM04 or IECR03 are recommended.

The correct orientation of the batteries is indicated in the battery compartment.

Replace the battery compartment cover and slide it upwards, engaging the two tabs at the top of the cover with the slots provided at the top of the compartment.

- Push the cover up until it clicks shut.

When correctly engaged, the cover should sit flush with the rear of the remote control.

* Only available with some projectors
Adjusting the image settings

The options on the PICTURE menu allow you to adjust the picture levels for an optimum image. The DVP1080MF provides the following image adjustments: Brightness, contrast, colour, tint, and detail. Tint is only available with composite or S-Video sources. The setting of each image adjustment is stored for each of the video inputs.

To display the PICTURE menu
- Press Menu to display the INPUT menu.
- Press ► to display the PICTURE menu:

```
PICTURE MENU
<PRESS UP/DOWN KEY>
```

- Press ▲ or ▼ to step between the options on the PICTURE menu.

These are described in greater detail below.

All the options apart from ADVANCED COLOUR can also be selected by pressing the appropriate key on the remote control.

To adjust a picture level
- Select the appropriate option on the PICTURE menu, or press the corresponding button on the remote control; Bright, Cont., Colour, Tint, or Detail.

The front panel display shows the current setting for the input, from 0-100, together with a graphical slider bar showing the setting:

```
BRIGHTNESS 50
```

Either:
- Enter the setting using the number keys on the remote control.

Or:
- Press ◄ or ► to decrease or increase the level.

After adjusting a setting you can step between the picture level menus using the ▲ and ▼ keys.

The recommended procedure is to adjust the brightness and contrast of the display device first, and then for individual movies or channels.

Each picture level should be adjusted for each source using the suggested reference test pattern in the following sections.

To adjust the brightness
- Adjust so that the shadows are as dark as possible but subtle details are still visible, such as seeing the wrinkles in a dark suit on a person standing in the shadows.

Suggested test pattern: PLUGE.

To adjust the contrast
- Adjust so the lightest areas are as bright as possible but detail is still visible, such as seeing the details in clouds on a sunny sky.

The image is too bright if the lightest bars in the test pattern disappear or start to change colour.

Suggest test pattern: 10 STEP GRAY.

To adjust the colour
- Adjust for accurate colours. Film originated sources typically have more subtle colour levels than video originated sources (sports, TV shows).

Suggested test pattern: REVERSE COLOR BARS.
To adjust the tint

| TINT | 50 |

Tint is only available with composite or S-Video sources.

If the image colour still seems off balance with the tint set correctly the greyscale of the display may need adjusting. Contact your installer for assistance.

Suggested test pattern: REVERSE COLOR BAR.

To adjust the detail

| DETAIL | 10 |

This enhances the detail in the image.

Too much enhancement will produce unnatural looking edges and ringing. The higher quality the source, typically the less enhancement required. With poor digital sources, such as a poorly transferred DVD or a very compressed satellite channel, reducing the detail level can help to make compression artifacts less visible.

Suggested test pattern: DVD Movie with a close up of a face in a still frame. Adjust so the face has detail but the edges do not look fake (such as along the bridge of the nose).

To set advanced colour

- Select the ADVANCED COLOUR SYS option on the PICTURE menu:

  | ADVANCED COLOR SYS | NORMAL |

- Press ▶ or ◀ to toggle the setting between NORMAL and BYPASS.

Advanced colour mode activates colour edge enhancement and cross-colour suppression to improve the image and remove certain video artifacts. This should be set to NORMAL for most sources.

With a few movies that contain large amounts of colour, such as animation, these enhancements may cause colour flickering. Set the mode to BYPASS if this occurs.

Adjusting the aspect ratio

The aspect ratio options allow you to select the proper aspect ratio of the source being viewed.

Note that the correct screen shape must be set in the SETUP menu during initial installation for the settings to function properly; see Configuring the digital video processor, page 17.

The following aspect ratios are available: anamorphic, 4:3, or letterbox.

To select anamorphic aspect ratio

- Press Anamorphic on the remote control.

This selects the correct aspect ratio for sources formatted for widescreen displays, sometimes called Enhanced for Widescreen.

DVD players must be set for 16:9 displays for proper screen shape, see the DVD player’s Setup menu.

For Meridian DVD players select 16:9 Widescreen in the Display Aspect Ratio menu.

To select letterbox aspect ratio

- Press Letterbox on the remote control.

This selects the proper aspect ratio for sources formatted for the letterbox screen format.

This mode can also be used with anamorphic 2.35:1 (cinema scope) sources when combined with an anamorphic lens on a 16:9 projector. The benefit is that the full resolution of the 16:9 display chip is used to create the active video, improving resolution and light output. The trigger output can be programmed to control the motorised lens attachment.
**To select the 4:3 aspect ratio**

- Press **4:3** on the remote control.

This selects the correct aspect ratio for sources formatted for a 4:3 screen format.

On 16:9 displays the side curtains of the image will be blank. To protect displays from image burning the side curtains can be adjusted from any level of grey from black to full white. Adjust the level in the **PICTURE OSD** menu.

Do not view 4:3 images on 16:9 plasma or CRG displays for extended periods of time with the side curtains black. This can cause permanent image burn in. Image burn in is not covered under the warranty.

**Adjusting the image position and borders**

The options on the **DISPLAY** menu allow you to adjust the horizontal and vertical position of the image, and the grey level and size of the image borders.

**To display the DISPLAY menu**

- Press **Menu** on the remote control.
- Press ▲ until the display shows:

```
DISPLAY MENU
<PRESS UP/DOWN KEY>
```

- Press ▲ or ▼ to step between the options on the **DISPLAY** menu.

These are described in greater detail in the following sections.

**To adjust the image position**

- Select the **H POSITION** or **V POSITION** option on the **DISPLAY** menu:

```
H POSITION  25
```

The horizontal position can be adjusted between 0 and 50 and the vertical position between 0 and 20. Many digital displays will not allow any image adjustment when using the DVI output; check with the display manual to see if there is a service mode to allow adjustments.

Always use image adjust controls in the display device first, if available.

Shifting the image too far to the side can cause the image to be lost or introduce moving horizontal grey bars in the image.

Use a safe area test pattern to properly align image position and size.

**To adjust the border greyscale level**

- Select the **BORDER LEVEL** option on the **DISPLAY** menu:

```
BORDER LEVEL 00
```

The border level can be adjusted between 0 (black) and 100 (white). This adjusts the grey level of the side curtains when using 4:3 sources on a 16:9 display.

**To adjust the blanking**

- Select the **LEFT BLANK**, **RIGHT BLANK**, **BOTTOM BLANK**, or **TOP BLANK** option on the **DISPLAY** menu:

```
LEFT BLANK  01
```

These adjust the amount of blanking for the edges of the image to assist with proper image sizing. Each setting can be adjusted between 0 and 100.

- Set the image size and position first before setting the side blanking.
Displaying test patterns

The PATTERNS menu allows you to display a test pattern for assistance with setting up the Picture and display settings.

To display the PATTERNS menu

- Press Menu to display the INPUT menu.
- Press ▶ to display the PATTERNS menu:

  **PATTERNS MENU**
  <PRESS UP/DOWN KEY>

- Press ▼ to display the SELECT PATTERN option and press ▶ or ▼ to switch between OFF (no pattern) or ON (test pattern):

  **SELECT PATTERN**
  OFF

- Press ▼ to display the TEST PATTERN option and press ▶ or ▼ to step between the alternative test patterns:

  **TEST PATTERN**
  100% COLOR BARS

When the test pattern is activated the image level adjustments are fixed to reference levels and cannot be changed. Use these patterns to align or test your system. Many patterns are designed for technician use only.

For best results all image adjustments should be done with a test DVD from the DVD player and patterns from the satellite box, if available. This ensures that the final image is adjusted for the complete signal path from source, through the processor to the display.
Configuring the digital video processor

This chapter explains how to configure the DVP1080MF Digital Video Processor using the options on the SETUP menu.

Displaying the SETUP menu

The SETUP menu provides a series of options to allow you to configure the digital video processor to suit your specific installation.

To display the SETUP menu

- Press Menu on the remote control for seven seconds.

The display shows the first setup option on the first line of the display and the option’s current setting on the second line of the display:

<table>
<thead>
<tr>
<th>SET: NTSC SCANRATE</th>
<th>1280 x 720</th>
</tr>
</thead>
</table>

- Press ▶ or ◀ to step between the alternative values for the option.

Except in the case of the SCANRATE options, the value will change immediately to the selected value.

To change the scan rate

- Select the NTSC SCANRATE or PAL SCANRATE option:

<table>
<thead>
<tr>
<th>SET: PAL SCANRATE</th>
<th>1280 x 720/50Hz</th>
</tr>
</thead>
</table>

The NTSC scanrate sets the output rate when a 60Hz source is auto detected, and the PAL scanrate when a 50Hz source is auto-detected. Check with the display device manual to determine which output rate to choose.

To change the setting:

- Press STORE.

The display shows:

<table>
<thead>
<tr>
<th>SET: ARE YOU SURE</th>
<th>&lt;PRESS STORE KEY&gt;</th>
</tr>
</thead>
</table>

- Press STORE again to change the setting.

To set the screen shape

- Select the SCREEN SHAPE option:

<table>
<thead>
<tr>
<th>SET: SCREEN SHAPE</th>
<th>WIDE SCREEN</th>
</tr>
</thead>
</table>

Use this option to match the aspect ratio of your display device. The options are as follows:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WIDE SCREEN</td>
<td>Choose this option when using a 16:9 projector or display, or a 4:3 projector with an anamorphic lens on a 16:9 screen.</td>
</tr>
<tr>
<td>WIDE 4:3</td>
<td>Choose this option when using a 4:3 projector or display, but want to show a 16:9 image (letterbox); for example, when using a 4:3 projector on a 16:9 screen.</td>
</tr>
<tr>
<td>4:3</td>
<td>Choose this option when using a 4:3 projector or display.</td>
</tr>
</tbody>
</table>

The screen shape defaults to AUTO when in high bandwidth mode.
To set the analogue black level

- Choose the ANALOG BLACK LVL option:

```
SET: ANALOG BLACK LVL
7.5 IRE
```

This sets the correct black level for YPrPb DVD sources. It is only available when the component input is selected with a 60Hz source.

Many DVD players offer black level options, sometimes called enhanced blacks. For best results the player should be left at its default settings and the analogue black level adjusted in the DVP1080MF.

To set the HD input H-adjust

Adjusts the horizontal position of High Definition sources (720p/1080i) to match the horizontal position from Standard Definition sources:

```
SET: HD INPUT H-ADJUST
25
```

Available only when a 1080i/720p signal is detected. Not available in HIGH BANDWIDTH mode.

- First align the proper image size and position on the display using a test pattern from a DVD. Use the H/V, L/R and sizing controls in the display device, if available. Use the H/V adjustments in the DVP1080MF OSD if the display does not offer them.
- Switch to the HD source and adjust the HD INPUT H-ADJUST to match.

The input for the HD source must be selected in order to make the HD H-ADJUSTMENT. Some display devices offer minimal image adjustments when using the DVI inputs.

Some HD satellite receivers offer H-adjustments. Those can also be used in conjunction with this function to get the best results.

To set the RGB input sync

Sets the sync type for the RGB input:

```
SET: RGB INPUT SYNC
SYNC-ON-GREEN
```

Only available when the RGB input is selected and not in HIGH BANDWIDTH mode.

The composite sync option should be selected when using PAL RGB.

To set the DVI input level

- Select the DVI INPUT LEVEL option.

Only available when the DVI input is selected.

This sets the correct input signal level to match the correct DVI input source. The options are explained in the following table:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVI-VIDEO (16-235)</td>
<td>Typical for video sources. If the source is 0-255 and the setting is 16-235 the image will be too bright.</td>
</tr>
<tr>
<td>DVI-PC (0-255)</td>
<td>Typical for digital display devices (the processor’s output is 255). If the source is 16-235 and the setting is 0-255 the image will be dull.</td>
</tr>
</tbody>
</table>

To test what the output is from the source:

- Display a 10-step greyscale pattern from a test pattern DVD.

The correct setting is when all ten bars are visible and evenly lit. An incorrect setting will produce an image that either looks dull, or the brightest and darkest bars are missing (clipping).
Enabling or disabling video inputs

**To enable or disable the video inputs**

- Select the appropriate input option:

  
  **SET: VIDEO INPUT ENABLE**

- Press < or > to change the input between ENABLE and DISABLE.

The following inputs are available: **VIDEO, S-VIDEO, RGB, YCrCb, DVI, and PASS-THROUGH.**

**To set the DVI input H-sync**

Sets the DVI sync position to normal or wide:

  
  **SET: DVI INPUT H SYNC NORMAL**

Only available when the DVI input is selected and a video HD rate input is detected.

With some non-standard DVI sources selecting **WIDE** will correct improper sync timing seen as a horizontal image shift.

---

**Configuration settings**

The following settings effect the general configuration of the unit and the control inputs and outputs:

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSD</td>
<td>Can be switched between <strong>ON</strong> and <strong>OFF</strong> to certify the presence of the on-screen display.</td>
</tr>
<tr>
<td>OSD TIMER</td>
<td>Can be set to between 0 and 255 seconds (default 30).</td>
</tr>
<tr>
<td>VFD TIMER</td>
<td>Specifies how long the front panel display stays on after an operation. Can be set to 0 (off), 1-254 seconds, or 255 = always on (default 30).</td>
</tr>
<tr>
<td>VFD TIMEOUT LVL</td>
<td>Sets the brightness level of the front panel display after the VFD TIMER period has elapsed.</td>
</tr>
<tr>
<td>RS232 ECHO</td>
<td>Can be set to <strong>ON</strong> or <strong>OFF</strong> to determine whether command echoes are sent back to the RS232 control device.</td>
</tr>
<tr>
<td>BAUD RATE</td>
<td>Can be set to 9600, 19200 (default), or 57600 to specify the RS232 communication baud rate.</td>
</tr>
<tr>
<td>SCREEN TRIGGER</td>
<td>Can be set to <strong>OFF</strong> or <strong>ON</strong> (default) to determine the operation of the 12V external trigger. <strong>OFF</strong> takes the 12V output low when the DVP1080MF is powered up and <strong>ON</strong> takes it high.</td>
</tr>
</tbody>
</table>
Using profiles

The NTSC PROFILE and PAL PROFILE options allow you to store the current settings as one of eight profiles for each of 50Hz sources and 60Hz sources. Each profile stores 30 different parameters.

To store a profile

- Make all the adjustments and settings as required in the SETUP menu.
- Select the NTSC PROFILE or PAL PROFILE option as required.
- Press ◀ or ▶ to display the profile number you want to use:

```
SET: NTSC PROFILE
STORE PROFILE 1
```

- Press STORE to store the profile.

The display will show:

```
SET: NTSC PROFILE
COMPLETE
```

To recall a profile

- Press Profile on the remote control.

The display shows:

```
RECALL FACTORY
<PRESS STORE KEY>
```

The second line will show the profile number that was most recently recalled.

Either:

- Press the number key 1-8 to recall the corresponding profile number or 0 to recall the factory profile.

Or:

- Press ◀ or ▶ to step through the available profile and press STORE to select one.

Up to eight separate profiles can be stored for 60Hz NTSC sources and 50Hz PAL sources. The current input refresh rate will determine which profile is recalled.
Troubleshooting

This chapter provides suggested solutions to common problems that may occur when installing and using the DVP1080MF.

Connecting the processor to the display

Which output scan rate should I choose for my display?

The appropriate output scan rate selection is usually determined by the actual native pixel density of a digital display device.

Each display device will specify their individual video/computer input capabilities. All display devices will list their specific video/computer input specifications within the User’s Manual, and are typically located within a “Table of Supported Resolutions”, or under similar nomenclature.

The following represent basic examples for possible output scan rate selections:

<table>
<thead>
<tr>
<th>Display Type</th>
<th>Display Resolution</th>
<th>DVP1080 Scan Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plasma TV</td>
<td>1366 x 768</td>
<td>1366 x 768</td>
</tr>
<tr>
<td>Digital projector</td>
<td>1366 x 768</td>
<td>1280 x 720</td>
</tr>
</tbody>
</table>

**Note:** Occasionally, a digital display device may not actually accept the signal received from the processor at its native pixel resolution. Choose a standard DTV signal in this instance, such as 1280x720 (default setting), or 1920x540 (1080i equivalent).

There are sparkles appearing throughout the image

Cable length is too long to support the output resolution selected on the processor

- Sparkles may occur if the resolution selected on the DVP-1080 processor has exceeded the ability of the DVI cable to transmit all of the video data (missing bits = sparkles). This is directly dependent upon cable quality (contact cable manufacturer regarding length to resolution specifications).
- Unassisted DVI cable lengths to 50ft (15.24m) have been achieved with resolutions of 1024p and lower.

- Cable lengths of 50ft (15.24m), or greater, may require a DVI to Fiber Optic cable connection between the processor and display for resolutions higher than 1024p; consult Cable Manufacturer

You can also use a Meridian HDMAX 121 extender/booster at the display end to solve problems like this. Contact your Meridian authorised dealer for details.

Is the DVP-1080 capable of passing/processing an HDCP encrypted DVI/HDMI signal?

Yes. However, the DVI INPUT on the display device must also be HDCP compliant to view the image, or the HDCP encryption “handshake” will be broken. If when using HDCP encrypted signals there is digital “snow”, or a message dialog box prompts you to make an alternate connection, you should then check the display’s Operations Manual to verify HDCP compliance.

**Note:** A DVI signal that is HDCP encrypted will deactivate the ANALOG OUTPUTS.

Which type of DVI cable should I use from the processor to the display?

It is recommended to install a DVI-D, Single-Link cable connection.

The physical DVI connection IN and OUT of the DVP-1080 is a DVI-I, Dual-Link connector. However, the DVP-1080 internal pin out configuration is for a DVI-D, Single-Link cable connection. This allows for system connection flexibility. The display device will typically have a DVI-D type connector.

What length of DVI cable can I use?

High resolution displays require a high quality DVI cable connection from the processor to the display. DVI cables must be rated to support the scanrate and length to be implemented; up to 50 foot non-fiber cables are okay for scanrates 1280x1024 and below. Higher scanrates, such as 1920x1080p, require the DVI cable be rated to at least
Troubleshooting

1600x1200 for the cable length required. A DVI to fiber optic cable is highly recommended for cable lengths longer than 16 feet (5m).

If the DVI cable has exceeded its ability to support the resolution selected, you may experience "sparkles" and/or digital noise throughout the video, or no video at all. To ensure installation success, you should always test your connections, prior to installation.

There is Dark Banding/Streaking while the video image is changing; how do I fix this?
The video image is either positioned (Phased) too far to the left/right, or the image is too wide. Though the image may be “filling” the viewable screen area, the display is having difficulty finding the actual Clamp Pulse (sync signal). The display is now “clamping” to the Peak Whites of the video signal; or rather, “clamping” to video, not the sync pulse.

You should recalibrate the display device utilizing a master video test pattern. Utilize a Component (YCrCb) DVD source and a Safe-Area test pattern (AVIA or DVD Essentials calibration DVD).

- Utilize a “Screen Area” test pattern from a calibration test DVD
- Reduce the video image size until you see the Active Picture area of both the left side and right side of the video image
- Center the image on the screen using the positioning controls of the display device only
- Digital displays will have sizing controls labeled Pixel Clock, Dot Clock or just Clock, etc. This adjustment will expand/contract the image to from the Right; the Left side of the image should remain relatively fixed to its position
- Use Horizontal Size, Positioning controls and Clock adjustment to center/position the image on screen.

You will need to utilize all controls to achieve/massage image centering.

- Once the image is centered correctly, fully expand the image to the edge of the screen.

My picture is Magenta or Pinkish in color
RGBHV out into YPrPb in = MAGENTA picture.

The default analogue ACTIVE OUTPUT of the DVP1080 is 5-wire RGB (RGBHV). If your only video input option to the display is via YPrPb, you must first change the ACTIVE OUTPUT on the DVP-1080 from RGB to YPrPb within the SETUP MENU.

Note: The DVI OUTPUT is disabled once YPrPb has been selected; YPrPb is not a valid output format within the DVI domain.

- Enter the SETUP MENU by pressing Menu on the IR remote for seven seconds
- Press ▲ until the upper LCD display reads either of the following:
  SET: OUTPUT FORMAT / ANALOG RGB + DVI
  SET: OUTPUT FORMAT / ANALOG RGB
- Press ◀ or ▶ to select SET: OUTPUT FORMAT / ANALOG YPrPb
- Press Menu to return to the USER MENU

Note: ONLY select either 1920x540p or 1280x720p scanrates if the display device does not have an available 5-wire RGBHV or D-15 VGA input connection.

- If you are connecting the DVP-1080 and display device via RGBHV, and your picture is MAGENTA, you will then need to change the displays input format from COMP (Component) to RGB or PC.
- Verify that the output/input cable(s) have not been swapped.
- Verify continuity of cable terminations

My picture is Green.
YPrPb OUT into RGBHV IN = GREEN picture.

The BNC’s (RGBHV), or MONITOR output of the DVP-1080 is connected to the RGBHV, or VGA input of the display device. However, SET: ACTIVE OUTPUT/ ANALOG YPrPb has been incorrectly selected.

- Enter the SETUP MENU by pressing Menu on the IR remote for seven seconds.
- Press the ▲ until the LCD display reads SET: ACTIVE OUTPUT / ANALOG YPrPb.
Troubleshooting

• Press < or > to select one of the following
  SET: ACTIVE OUTPUT / ANALOG RGB + DVI
  SET: ACTIVE OUTPUT / ANALOG RGB

• Press Menu to return to the USER MENU

Or:

• You have selected RGB on the IR remote; press YCrCb on the IR remote.

• A Component HDTV (YPrPb) output format has been connected to the PASS-THRU (VGA) input. However, the connection from the DVP-1080 to the display is via RGBHV out or MONITOR out.

• Connect the HDTV (YPrPb) output signal to the Component input on the DVP-1080 processor.

• Connect a Component (YPrPb) to RGBHV Transcoder between the HDTV source and the analogue PASS-THRU input on the DVP-1080 processor.

Note: A transcoder converts an analogue YPrPb signals into an RGBHV signal

• Verify that the output/input cable(s) have not been swapped.

• Verify continuity of cable terminations.

Connecting sources to the processor

Can the DVP-1080 process computer signals sent to the DVI INPUT or PASS-THRU input?

No. The DVP-1080 will only route a digital or analogue computer signal directly to the pass-through circuitry.

Analogue (VGA)

When an analogue computer source is connected to the PASS-THRU input, you must connect an RGBHV cable to the display device. The processor will not convert an analogue VGA signal to DVI; the display device must also be capable of the resolution selected on the computer source.

Digital (DVI)

When a digital computer source is connected to the DVI INPUT, you must connect a DVI cable to the display device. The processor will not convert a digital DVI computer source to RGBHV; the display device must also be capable of the resolution selected on the computer source.

There is no video from the output when the source is connected to the PASS-THRU input

The D-15 PASS-THRU input will only route RGBHV or YPrPb (Component) signals to pass-through via the ANALOG OUTPUTS of the DVP-1080 (Analogue IN = Analogue OUT). It is always recommended to install both an RGBHV cable and a DVI cable to the display device for system expandability.

If the display does not have an RGBHV, or D-15 (VGA) input connection, install a 3-wire Component analogue cable to the display; however, only 480i, 480p, 720p and 1080i are valid Component video signals.

Processor setup

I changed the output scanrate, but the processor did not register the scanrate selection

Changing the output scanrate requires confirmation of the new output scanrate selection. Do not select an output scanrate which exceeds display device capabilities (refer to display device User’s Manual).

• Enter the SETUP MENU by pressing Menu on the IR remote for seven seconds

• Front Panel LCD display will indicate SET: NTSC SCANRATE and the current RESOLUTION below

• Press < or > on the IR remote to select the appropriate output scanrate

• Press Store on the IR remote

• Front Panel LCD display will indicate ARE YOU SURE?

• Press Store to confirm resolution selection.
Troubleshooting

Note: Use the same procedure above during SET: PAL SCANRATE, if applicable (International use)

I selected, SET: NTSC SCANRATE / 1920x1080, now there is no video output.

The 1920x1080 output scanrate is a Progressive Format (67.43kHz), not a 1080i HDTV Interlaced Format (33.75kHz). The display device must be capable of receiving this scanrate (refer to display User’s Manual).

When utilizing the DVI OUTPUT, cable lengths to support 1920x1080p should be no greater than 16ft (5m). Cable lengths longer than 16ft (5m) may require a DVI to Fiber Optic connection. DVI cable lengths longer than 16ft (5m) may render an unstable image, "sparkles" throughout the image, or no image at all.

Note: Some digital displays may have a physical pixel density of 1920x1080, but will not display the actual 1920x1080p/60Hz signal received by the DVP-1080 processor. Example: 1920x1080, 24p/sf. Think of 24p/sf as an Interlaced signal, whereby, a Progressive HD Segmented Frame is displayed as two individual frames (similar to 1080i), then spliced back together; an Interlaced Format.

Is SET: NTSC SCANRATE / 1920x1080 an Interlaced or Progressive video signal?

The 1920x1080 output scanrate selection is a Progressive Format signal (67.4KHz, 60Hz refresh). Typically, only high resolution displays will accept/resolve this input signal, such as 9"CRT projection, or a digital display device with a native pixel density of 1920x1080.

Note: Some digital displays will have a physical pixel density of 1920x1080; however, may not accept this input scanrate. If not, the image may either be split, or half the image is present, or no image at all. Refer to display user’s manual for signal compatibility.

If the display does not accept 1920x1080 at 60Hz, then you must choose an alternate resolution the display will understand, such as 1280x720 or 1920x540p (1080i equivalent). Both output resolutions are perceived by the display as a DTV video signal.

WARNING

DAMAGE may occur if the output scanrate selected within the DVP-1080 SETUP MENU exceeds the ability of the display device to show the image.

Processor operation

The LCD is displaying an OVERHEAT WARNING.

The DVP-1080 processor possesses thermal protection circuitry which actively monitors internal temperature during operation. Excessive heat may cause the processor to malfunction, and/or, shorten product lifespan.

- Do not mount processor above power amplifiers or other equipment which generate excessive heat
- Allow a minimum of one rack space, above and below the unit, for proper ventilation (1RU or 1.75").
- Insure there is adequate system rack ventilation (preempts failure with additional installed equipment)
- LEVEL 1 WARNING / HIGH TEMPERATURE
  Internal Temperature is exceeding safe operational limits. Steps should be taken to improve ventilation
- LEVEL 2 WARNING / HIGH TEMPERATURE
  Internal Temperature is at critical thermal limits; processor failure may occur. Immediate steps should be implemented, to improve ventilation, and return the unit to optimal operational temperature
- LEVEL 3 WARNING / EXTREME TEMPERATURE
  Internal Temperature has exceeded maximum thermal limitations; processor will shut down.
  - A LEVEL 3 WARNING will only display for Five (5) Seconds, then the DVP-1080 will shut down
  - DVP-1080 cannot be powered ON by the front panel power button during this condition
  - A LEVEL 3 WARNING indication requires the unit first be unplugged to reset
  - Normal operation resumes once the DVP-1080 has returned to optimal thermal temperature

WARNING

DAMAGE may occur if the output scanrate selected within the DVP-1080 SETUP MENU exceeds the ability of the display device to show the image.
How do I Store a Profile?

A stored PROFILE is merely a “Snap-Shot-In-Time” for all settings which have been selected from both the SETUP MENU options (LCD), or the USER MENU (OSD) options, within the DVP1080 processor, and programmed into the processor’s CPU.

System SETUP MENU Option (LCD)
- Enter the SETUP MENU by pressing Menu on the IR remote for seven seconds
- Select all applicable changes required for the intended PROFILE within the SETUP MENU
- Press Menu to exit the SETUP MENU
- Then, proceed to…

On-screen USER MENU Options (OSD)
- Press Menu to view the On-Screen Display (OSD)
- Adjust all applicable changes required for the intended PROFILE
- Under the menu tab INPUT, use ▼ to highlight PROFILE
- Press the ► to select numeric PROFILE
- Press Store.
- Press Menu to exit the On-Screen Display.

When I select 4:3 on the IR remote, the image is not centered

This essentially means the innate 16:9 image from the DVP-1080, when selecting ANAMORPHIC, is not properly centered on the display device.
- Utilize a DVD ‘Screen Area’ test pattern (DVD Essentials, AVIA, etc.)
- Center, and position the image for a 2.5% over-scan, using the displays sizing and positioning controls.
- Once the image has been properly centered, sized and positioned (utilizing the display controls), the 4:3 image will fall-in-to-place and be centered within the 16:9 display area.

Note: Do not view a 4:3 images for prolonged periods of time on a 16:9 display; image Burn-In may occur. Image Burn-In is not covered under the warranty.

The DVP-1080 has locked up. How do I reset the processor?

There are three options available to re-boot the processor.

Level ONE
Set the DVP-1080 unit in Stand-By mode; LED indication is RED. Disconnect the power plug from the processor; reconnect the power plug to the processor and allow the unit to re-boot.

Level TWO
- Enter the SETUP MENU by pressing Menu on the IR remote for seven seconds
- Press ▲ on the IR remote once
- LCD display will indicate SET: RESTORE FACTORY / <PRESS STORE KEY>
- Press Store on the IR remote
- Front Panel LCD display will indicate ARE YOU SURE?
- Press Store again to confirm

Note: This action will clear all programmed PROFILES and reset the DVP-1080 to Factory Defaults.

Level THREE
Connect to the DVP-1080 RS-232 CONTROL port using Windows HyperTerminal program and a standard Modem Cable.

TYPE dvp,setft
R denotes a carriage return, or pressing ⌂ button on the keyboard

Note: This action will clear all programmed PROFILES and reset the DVP-1080 to Factory Defaults
# Index

**A**
- accessories 3
- ACTIVE INPUT 11
- advanced colour, setting 14
- ADVANCED COLOUR SYS 14
- analogue black level, setting 18
- anamorphic, aspect ratio 14
- aspect ratio 14
  - 4:3 15
  - anamorphic 14
  - letterbox 14

**B**
- blanking 15
- border greyscale level 15
- BORDER LEVEL 15
- brightness, adjusting 13

**C**
- colour, adjusting 13
- communications, connections 9
- component video
  - connecting 6
  - video inputs 4
- composite video
  - connecting to 7
  - video inputs 4
- configuring 17
- settings 19
- connections
  - communications 9
  - connectors
    - IR LEAD 9
    - RS232 CONTROL 9
    - RS232 OPTION 9
    - SCREEN 9
    - contrast, adjusting 13
    - copyright and acknowledgements iv

**D**
- detail, adjusting 14
- display, connecting 8
- DISPLAY menu 15
- DVI
  - connecting to 4
  - connecting two or more 5
  - front panel display 5, 8
- DVI input
  - selecting 5
- DVI input H-sync, setting 19
- DVI input level, setting 18
- DVI output 8
- DVI PASS-THROUGH
  - front panel display 5, 8
- DVI projector, connecting 8

**H**
- HD input H-adjust, setting 18
- HDMI
  - connecting to 4
  - connecting two or more 5

**I**
- image borders 15
- image position 15
- image settings
  - adjusting 13
- INPUT menu
  - selecting an input 11
  - inputs
    - deactivate unused 11
  - IR LEAD 9

**L**
- letterbox, aspect ratio 14

**M**
- menus
  - DISPLAY 15
  - PATTERNS 16
  - PICTURE 13
  - SETUP 17

**N**
- NO INPUT, front panel display 5, 8
Index

O
operating 11
outputs, video 8

P
PATTERNS menu 16
picture level, adjusting 13
PICTURE menu 13
profiles 20
recalling 20
storing 20

R
RATE NOT SUPPORTED
   front panel display 5, 8
RGB, selecting 6
RGB input sync, setting 18
RS232 CONTROL 9
RS232 OPTION 9

S
S-Video
   connecting to 6
   selecting 6
   video input 4
satellite receiver
   connecting to 6
scan rate, changing 17
SCREEN 9
screen shape, setting 17
SETUP menu 17
signal, display without processing 5
specifications 2

test patterns
   displaying 16
tint, adjusting 14
troubleshooting 21
   connecting sources to the processor 23
   connecting the processor to the display 21
   processor operation 24
   processor setup 23

V
VHS video recorder, connecting to 7
Video, selecting 7
video inputs 4
   disabling 19
   enabling 19
S-Video 4
   selecting 11
video outputs 8
DVI output 8

Y
YCrCb, selecting 6