Marshall

V-702W

Dual 7" Full HD 3RU Rack Mount Monitor With Waveform, Vector and Analysis Features



Operating Instructions

Table of Contents

| 1. Product Description | 3 |
|--------------------------------------|----|
| 2. Menu Settings | 6 |
| 3. Specifications | 14 |
| 4. Included Accessories | 15 |
| 5. Troubleshooting | 15 |
| 6. PCSet Remote Terminal Application | 15 |
| 7. WARRANTY | 16 |

IMPORTANT SAFETY INSTRUCTIONS:

- Please read Operating Instructions (this manual) before using the product.
- Keep the manual for future reference.
- Read the cautions below to prevent possible component failure or degradation.

CAUTIONS:

- The monitor should not be placed on its face to avoid scratching the LCD surface.
- Avoid heavy impact
- **Do NOT** use chemical solutions to clean this product. Simply wipe with a clean, soft cloth to maintain the brightness of the surface.
- Do NOT block vent holes. Be aware of heat-producing equipment mounted below this product.
- Use the following instructions and trouble-shooting section in the manual to adjust the product. Internal adjustments or repairs must be performed only by Marshall Electronics.

Product Description

Front Panel Features



1. Rackmount ears with tilt capability.

Tilt monitor for best visibility or to improve ventilation.

- 2. Headphone jack. Accepts standard 3.5mm stereo mini-phone plug.
- 3. POWER button (Lights red in standby mode; green when operating).
- 4. **INPUT** select button cycles through SDI, HDMI and Video.
- 5. F1~F4 user-defined short-cut function buttons (lighted when selected).
 Long press on any function button (3-5 seconds) pops up menu for selecting functions. Pressing the Menu knob confirms the selection.
- Menu Knob. Turn without pressing to adjust headphone volume.
 Press to open menu system.

Marshall

Product Description

Back Panel Features



Note: Power, TALLY and LAN apply to both screens.

1. Push-on Power Connector

POWER+12V



12V DC power input 5.5mm x 2.1mm push-on connector. Plug the supplied DC power adapter here. (Center pin is +) **Important: Please connect only one type of power supply at a time to this monitor.**

2. 4-pin Power Connector

4-pin XLR DC power input compatible with typical broadcast television camera 12-volt power supplies. **CAUTION:** Some 4-pin power supplies provide 24 volts. These are **NOT** compatible with this monitor. Please check the label on the power supply before connecting.

Important: Please connect only one type of power supply at a time to this monitor.



| Pin number | Signal |
|------------|---------------|
| 1 | GND |
| 2 | No connection |
| 3 | No connection |
| 4 | +12V |

3, 4, 7, 8. HDMI Digital Video Connectors



HDMI input and loop out. Embedded audio may be monitored at the Headphone jack and visually monitored on-screen.



5, 6, 9, 10. Serial Digital "BNC" Connectors

SDI input and loop out. Compatible with SDI, HD SDI and 3G SDI inputs. Embedded audio may be monitored at the Headphone jack and visually monitored on-screen.

11. Ethernet LAN RJ-45 Connector



LAN port. The monitor can be operated from a Windows[™] PC using the PCSet application available on <u>Marshall-usa.com</u>.

13. TALLY Connector



A red, green, or yellow on-screen tally bar can be made to appear by grounding the appropriate pin on the Tally connector as shown in the table. It is compatible with "open collector" and "pull down" type GPI

controls. Caution: External power should never be applied to the Tally

| Screen #1 | Tally | Screen #2 | Tally |
|-----------|--------------|-----------|--------------|
| 1 | Green Light | 11 | Green Light |
| 2 | Red Light | 12 | Red Light |
| 3 | Yellow Light | 13 | Yellow Light |
| 4 | Ground | 14 | Ground |

7. USB Service Ports



USB input -

Used for firmware updates and Lookup Table "LUT" loading.

Press MENU knob on the monitor and function menus will pop-up on the screen. Rotate left or right to select an option. Then press the knob again to open the sub-menu. When an arrow pointer appears in the menu, turn the Menu knob again to access the item or press the knob to confirm a selection.

1. PICTURE

This page provides controls for typical picture adjustments.

| | PICTU | IRE | | | |
|------|--------------|---------------|--------------|--|--|
| | Brightness | 50 | ITEMS | OP | TIONS |
| | Contrast | 50 | Brightness | 0 | ~100 |
| + | Saturation | 50 | Contrast | 0 | ~100 |
| FN. | Charmone | 0 | Saturation | 0 | ~100 |
| | Sharphess | 0 | Sharpness | 0 | ~100 |
| w | RGB Range | Limited | RGB Range | Full | / Limited |
| | HDMI EDID | 4K | HDMI EDID | 4 | K / 2K |
| | Color Space | Rec709 | Color Space | Native / SMPTE | E-C / Rec709 / EBU |
| | Camera Log | Off | Camera Log | Off / Def. L | .og / User Log* |
| | Def. Log | SLog2ToLC-709 | | SLog2 SLog2 t | to LC-709 o LC-709TA |
| | User Log | No Data | Def. Log | SL0g2 to SL0g2 to SL0g3 to SL0g3 to SL0g3 to | o Cine+709 to LC-709 o LC-709 o LC-709TA o SLog2-709 |
| | PICTU | JRE | *UserLog | SLog3 t | o Cine+709 |
| | HDR | Off | Gamma | Off / 1.8 / 2.0 / 2.2 | 2/2.35/2.4/2.6/2.8 |
| [+] | Back Light | 100 | НПР | Off / ST 2084-3 | 300 / ST 2084-1000 |
| | Color Temp. | 6500K | | ST 2084- | -10000 / HLG |
| FN | | 128 | Back Light | 0 | ~ 100 |
| | | 128 | Color Temp. | 5500 °K / 6500 °K / 7 | 500 °K / 9300 °K / User** |
| W.F. | | 128 | Red Gain | 0~128~255 | |
| I E | Dide Gain | 120 | Green Gain | 0~128~255 | **When User is |
| | Red Offset | 256 | Blue Gain | 0~128~255 | selected, these Gain and Offset adjustments will appear in the |
| 6 | Green Offset | 256 | Red Offset | 0-256-511 | |
| | Blue Offset | 256 | Green Offset | 0-256-511 | menus. |
| | Exit | | Blue Offset | 0-256-511 | |
| | | | Exit | | |

1. PICTURE (continued)

Brightness – used to establish the correct black level in the picture. Default value is 50.

Contrast – establishes the range of dark to light areas in the picture. Default value is 50.

Saturation – sets the amount of color information in the picture. Default value is 50.

Sharpness – adds "detail" to the image. HD images should require very little added sharpness. Default value is 0.

RGB Range – choose the RGB range of the HDMI input between Full or Limited. Only applies to HDMI inputs. When viewing HD video based on television standards such as REC 709, Limited is the correct choice. When working with computer graphics Full may provide a wider range of color.

HDMI EDID – select the HDMI EDID from between 4K and 2K. This item enables PC, set top box, or other device to configure itself for best video quality. This choice only applies to HDMI inputs.

Color Space – select the display gamut from among Native, SMPTE-C, Rec709, EBU. Rec709 is the most common setting.

Camera Log – use this to choose one of the camera Log modes among Def log, User log.

Def. Log – Default (preset) Log modes. When viewing material from a camera that has a Log gamma curve applied, the pictures will not appear normal unless the matching Log mode is selected.

User Log – use this item to install and apply a "User LUT" (Look Up Table) instead of one of the Default Logs

To install a User Log "LUT":

- Check that the User LUT name ends with ".cube". (This is common).
- Two types are accepted: 17×17×17 or 33×33×33, Data order is BGR, Table order is BGR.
 - 1. Rename the LUT file as User1.cube up to User6.cube. (6 files may be stored in the monitor)
 - 2. Copy the user LUT onto a formatted USB drive.

3. Insert the USB drive into the USB port on the rear panel of the monitor. The User LUT will be imported into the monitor automatically. If the User LUT does not load automatically, a message will appear with "no user data" or offering a choice to manually load the User LUT. If "no user data" appears please check that the file meets all the requirements noted above.

Gamma – Gamma correction applies a non-linear "curve" to the displayed range between dark and light. Historically, 2.4 is chosen because it is the inverse of a standard camera Gamma of 0.45 producing a roughly "linear" match. Today, different camera Gamma values are often applied for creative purposes so a different monitor Gamma may be chosen for viewing. It is best practice that, once set, Gamma is not changed during a production shoot or an editing or color correction session. Gamma OFF would be used only during testing, calibration or when using an external video processor. Gamma range is 1.8 to 2.8

HDR – HDR "High Dynamic Range" is used to properly view video that has been enhanced through one of the common HDR processes. Three SMPTE ST 2084 standard settings are available. These are calibrated to 300, 1000 and 10,000 NIT displays. (The only 10,000 NIT displays are projectors). A fourth setting is available, HLG, which is commonly used for broadcast. When HDR is activated, the display can reproduce greater dynamic range of luminosity. The best results will be obtained when

1. PICTURE (continued)

the monitor setting matches the HDR emphasis that was applied to the video material. Using HDR mode with non-HDR material typically looks very unnatural.

Back Light – adjusts the brightness of the LCD backlight. This is different from the "Brightness" control. Backlight is adjusted to compensate for room lighting without upsetting Contrast and Brightness adjustments. It is generally best practice to set the Back Light level before changing other picture settings.

Color Temp – this setting provides four different presets for white balance approximating different common color "temperatures". The most common is 6500K. USER allows for custom calibration by adjusting Gains and Offsets. as desired:

R/G/B Gain – adjust the Red, Green, or Blue Gain of the current Color Temperature from 0 to 255. Default value: 128.

R/G/B Offset – adjust the Red, Green, or Blue Offset of the current Color Temperature from 0 to 511. Default value: 256.

2. Marker

| | MARKER | | This page offers controls for setting various on-screen markers | |
|------------|---------------|-------|---|--|
| | Center Marker | Off | | |
| | Aspect Marker | Off | ITEMS | OPTIONS |
| | Safety Marker | Off | Center Marker | Off / On |
| | Marker Color | White | Aspect Marker | Off / 16:9 / 1.85:1 / 2.35:1 / 4:3 / 3:2 |
| WV. | Thickness | 2 | Safety Marker | Off / 95% / 93% / 90% / 88% / 85% / 80% |
| ΠĘ | Exit | | Marker Color | White / Black / Red / Green / Blue |
| / - | | | Aspect Mat. | 0ff / 1 / 2 / 3 / 4 / 5 / 6 / 7 |
| ₿. | | | Thickness | 1 ~ 7 |
| | | | Exit | |

Center Marker – places a "+" mark in the exact center of the display. (Useful for checking camera or graphics positioning.)

Aspect Marker – places borders on screen representing various typical video and cinema aspect ratios. This does not change the displayed aspect ratio. That setting is in the Display menu.

Safety Marker – places a border around the edge of the screen to be used as a guide during video production.

Marker Color – the Center, Aspect and Screen marker colors can be changed.

Marker Mat – darken the background just behind the markers.

Thickness – sets the width of the markers.

3. DISPLAY

| | DISPLAY | | This name offers co | ntrols for setting |
|----------|-------------|--------|---------------------|---|
| | Scan | Aspect | various on-screen r | markers |
| (FT) | Aspect | 16:9 | ITEMS | OPTIONS |
| <u> </u> | Overscan | Off | Seen Seen | Aspect / Divel to Divel / Zeem |
| FN | H/V Delay | Off | Scan | Aspect / Pixel to Pixel / 20011 |
| | Check Field | Off | Aspect | Full / 16:9 / 1.85:1 / 2.35:1 / 4:3 / 3:2 |
| WVV | Zoom | 50% | Overscan | Off / On |
| I E | Ereeze | 010 | H/V Delay | Off / H / V / H/V |
| | Exit | on | Check Field | Off / Red / Green / Blue / Mono |
| Ë | | | Zoom | 10% ~ 90% |
| ~ | | | Freeze | Off / On |
| | | | Exit | |

Scan – Adjust the scan mode among Aspect, Pixel to Pixel, Zoom.

Aspect – allows changing the aspect ratio (shape) of the picture to match the incoming video. Settings are available for various video and cinema styles. The most common is 16:9.

Pix to pix – displays the incoming video with a 1:1 pixel match. This provides the clearest resolution but usually changes the size of the image. This turns off up/down "scaling". For example: a video input that has fewer pixels than the LCD display will appear to shrink while a video input that has more pixels will appear to expand. In either case, the image is shown in it's "true" resolution.

Zoom – expands the picture digitally. It is normal for picture quality to become less sharp as the picture is expanded.

Overscan – enlarge the image slightly to reduce image edge distortion.

H/V delay – shifts the picture vertically and horizontally to allow viewing the vertical and horizontal "blanking areas" which contain the HANC and VANC ancillary data.

Check Field – displays the picture in monochrome (black & white) or in individual primary colors. Useful for color analysis and trouble shooting.

Image Freeze – holds the current picture on screen.

The Wave page offers adjustments for the on-screen Waveform monitor, Vector scope displays, and video assist functions like focus peaking, exposure "zebras", false color luminance level check.

4. WAVE

| | Full Mode | Off |
|-------------|-------------------|-----|
| | Waveform | Off |
| <u>,+</u> , | Vector | Off |
| FN | Transparency | 50% |
| ٨٨. | Peaking | Off |
| -421 | Peaking Color | Red |
| 45 | Peaking Level | 50 |
| 2 | False Color | Off |
| ø | False Color Table | On |
| | Exposure | Off |

| ITEMS | OPTIONS |
|---------------|---|
| Source | SDI / HDMI |
| SDI Mode | SD / HD / 3G (Level A) |
| Resolution | H x V |
| Frame Rate | i or p / xx Hz |
| Color Space | RGB YCbCr422 YCbCrA422 YCbCr444 YCbCrA444 |
| MCU Version | V1.9 |
| FPGA Version | V1.3 |
| SFPGA Version | V1.4 |

Full Mode – The following analysis functions are full-sized and fill the entire display. In this mode, Video is not displayed

Waveform – Selecting Waveform instead of Full Mode places a compact version of the Waveform Monitor function as an overlay at the bottom of the display. Overlays are limited to Y, YCbCr, RGB presentations.

Y – This is the most common setting and represents a traditional waveform monitor. It graphically represents the full Luma range of dark to light across a scene from left to right. Color information is not represented.

YCbCr – This graphically displays Luminance plus the matrixed color components. It is useful for equipment adjustment and confirming proper operation.

RGB – This graphically displays the three primary color components. It is useful for making adjustments and analyzing color content.

Vector – This graphically representation of the colors in a picture in "color wheel" format. Luminance is not represented. The vector display is best used with color charts and test signals.

Audio – shows an on-screen bar graph of audio channels (typically Left and Right) from either an HDMI or SDI digital source.

Transparency – change the visibility of the chart on the screen. Adjust as desired for best visibility.

Peaking – adds a colored edge to picture details making it easy to identify which areas are in sharpest focus.

Peaking Color - Select one of the peaking colors: Red, Green Blue, White, Black.

Peaking Level – adjust the amount of peaking color. The range is 1 - 100.

False Color – a method to show each brightness in the picture with a different color. It provides a quick way to tell if one part of a picture is too bright or too dark. There are 10 colors representing 10% steps. Default mode matches the False Color feature in other Marshall monitors. Additional modes are provided to match color modes used by RED and ARRI.

False Color Table – Places a color guide on screen. This guide shows what level from 0 – 100% each color represents.

Exposure – creates "zebra" lines in the brightest areas of the picture. This mimics a feature that is commonly found in broadcast camera viewfinders which provides a quick way to check for over-exposure.

Exposure Level – to adjust the level of peaking. The exposure level can be set to [50]-[100].

Histogram - This mimics a feature commonly found in DSLR cameras

Y – a graphical representation of the tonal distribution within a picture.

RGB – a graphic representation of the three primary color components of video picture. Useful for making equipment adjustments.

COLOR – a graphical representation of the mixed RGB distribution within a picture.

5. AUDIO

| | AUDIO | 0 |
|-----------------------------|-------------|-----------|
| | Volume | 50 |
| | Level Meter | Off |
| <u>_</u> | Audio Ch | CH1 & CH2 |
| FN | Exit | |
| $\mathcal{M}_{\mathcal{V}}$ | | |
| K | | |
| F | | |
| \$ | | |
| | | |

This Page is used to adjust volume, select audio channel, enable level meter and mute.

| ITEMS | OPTIONS |
|-------------|--|
| Volume | 0 ~ 100 |
| Level Meter | Off / On |
| Audio CH | HDMI > CH1&CH2 / CH3&CH4 / CH5&CH6 / CH7&CH8 SDI > CH1&CH2 |
| Exit | |

Volume – controls the Headphone volume.

Volume can also be controlled by turning the menu knob when menus are not on screen. Default level is 50.

Level Meter – shows an on-screen bar graph of audio channels (typically Left and Right) from either an HDMI or SDI digital source.

Audio CH – With HDMI input, channel pairs may be selected from 1 – 8.

With SDI input, channels 1 & 2 will be used.

This setting selects what appears in the audio bar display and what is heard in the headphone output.

REMOTE

| | DHCP | | On |
|----------|------------|--------|----|
| | IP Address | 0.0.0. | 0 |
| <u>_</u> | Sub. Mask | 0.0.0. | 0 |
| FN | Gateway | 0.0.0. | 0 |
| 41 | Exit | | |
| U. | | | |
| | | | |
| ٩, | | | |
| | | | |

6. REMOTE

This page offers adjustments for Ethernet port settings.

| ITEMS | OPTIONS |
|------------|----------|
| DHCP | Off / On |
| IP Address | 0.0.0.0 |
| Sub. Mask | 0.0.0.0 |
| Gateway | 0.0.0.0 |
| Exit | |

DHCP – Enable or disable Ethernet DHCP mode. When DHCP is on, the monitor will automatically get an IP address from the network. The address will appear in the IP, Mask, and Gateway fields below. When DHCP is off, a Static address may be created manually using the menu knob and arrow keys.

IP - Configures or displays IP address

Mask – Configures or displays Subnet Mask

Gateway - Configures or displays the IP Gateway

7. SYSTEM

This page provides a collection of system-level functions including On Screen Display (OSD), reset unit to Factory settings (Reset) and Color Calibration

| SYSTEM | |
|---|--|
| Language Color Bar OSD Timer OSD Transparency Knob Config | English Off 10s Off Volume |
| Color Calibration Comparison En Reset Exit | Off Off Off |

| ITEMS | OPTIONS |
|-------------------|---|
| Language | English / 中文 |
| Color Bar | Off / 100% / 75% |
| OSD Timer | 10s / 20s / 30s |
| OSD Transparency | Off / 25% / 50% |
| Knob Config | Volume Back Light Brightness Contrast Saturation Sharpness |
| Color Calibration | Off / On |
| Comparison En | Off / Gamma & HDR / Color Space / Camera Log |
| Reset | Off / On |
| Exit | |

Language - sets on-screen messages to either English or Chinese.

Color Bar – places color bars on screen to check the monitor operation.

OSD Time - adjusts the amount of time menus remain on screen.

OSD Transparency - adjusts the Transparency of menus for visibility

Knob Config – customize the functions of Menu Knob.

The default operation of the menu knob, when menus are not on screen is as the headphone volume control.

Each press after that will bring up a different function. The first, or default, function can be changed so that it is Back Light, Brightness, Contrast, Saturation or Sharpness.

Color Calibration – when it is turned on, all picture modifications will be turned off and the image will be restored to its native, uncalibrated, state.

Comparison En – When Comparison Mode is enabled, one half of the display will show an uncorrected image the other half will show the effect of Log, HDR or Gamma settings (whichever ones are turned on at the time). This is a useful tool for analyzing the effects of these image modifiers.

Reset – sets all menu items back to the way the unit ships from the factory.

8. EXIT

This page provides some information about the signal input parameters and the system version for reference.

| EXIT | | |
|----------|---------------|------|
| | Source | SDI |
| | SDI Mode | |
| <u> </u> | Resolution | |
| FN | Frame Rate | |
| M. | Color Space | |
| | MCU Version | V1.9 |
| | FPGA Version | V1.3 |
| | SFPGA Version | V1.4 |
| | | |
| | | |
| | | |

The **EXIT** page displays the current state of the monitor. There are no selections on this page.

Pressing the Menu Knob closes the menu screen.

Source – The currently selected input

SDI Mode – The current SDI signal type. (HDMI type is not displayed).

Resolution – The pixel structure of the current input signal. Horizontal x Vertical

| ITEMS | OPTIONS | |
|---------------|---|--|
| Source | SDI / HDMI | |
| SDI Mode | SD / HD / 3G (Level A) | |
| Resolution | HxV | |
| Frame Rate | i or p / xx Hz | |
| Color Space | RGB YCbCr422 YCbCrA422 YCbCr444 YCbCrA444 | |
| MCU Version | V1.9 | |
| FPGA Version | V1.3 | |
| SFPGA Version | V1.4 | |

Frame Rate – The frame rate of the current input signal and whether the signal is interlace or progressive

Color Space – The sampling structure of the SDI signal. "A" Indicates the presence of an Alpha or "Key" channel

MCU Version – The version of MCU firmware.

FPGA Version – The version of FPGA firmware.

SFPGA Version – The version of SFPGA firmware.

9. USER FUNCTION SHORT CUT (F1- F4) SELECTIONS

The monitor front panel has four special function keys marked F1 through F4. These are pre-programmed as short cuts keys per this table:

| FUNCTION KEY | STANDARD SHORT CUTS |
|--------------|---------------------|
| F1 | Color Space |
| F2 | Full Mode |
| F3 | Waveform |
| F4 | Level Meter |

These function keys may be re-programmed at any time by first pressing the function key for about three seconds. The function key menu will appear at the right side of the screen. Simply rotate the Menu knob to the desired function short cut and press the Menu knob to make the selection.

The following shortcuts may be programmed to each function key:

| OPTIONAL SHORT CUTS | | | |
|---------------------|------------|-------------|--|
| Center Marker | Gamma | False Color | |
| Aspect Marker | Camera Log | Exposure | |
| Safety Marker | Image Flip | Histogram | |
| Overscan | H/V Delay | Full Mode | |
| Scan | Freeze | Waveform | |
| Aspect | Color Bar | Mute | |
| Color Space | Peaking | Level Meter | |

Specifications

| Danal Siza | 2 x 7 inch coroons | |
|-----------------------|----------------------------------|--|
| | | |
| Panel Resolution | 1920 × 1200 pixels | |
| Brightness | 450 cd/m ² | |
| Contrast | 1100: 1 | |
| Viewing Angle | 160° / 160°(H/V) | |
| Input Voltage | DC 12V | |
| Input Signal | HDMI, SDI | |
| Power Consumption | ≤17W | |
| Operating Temperature | -10ºC~60ºC | |
| Storage Temperature | -20ºC~60ºC | |
| Dimension W/H/D | 19" x 5.3" x 1.2" (482×133×29mm) | |
| Weight | 5.2lbs (2.32Kg) | |

Included Accessories

- DC 12V 3A Universal 120/240 VAC 50/60 Hz Power adapter with 5.5mm x 2.1mm push connector
- TALLY kit plug in module adapts 15-pin connector to solderless terminal block

Troubleshooting

1. Power on but no picture:

Check whether the cables are correctly connected. Also, please use the standard power adapter coming with the product package or other power supply with the correct voltage and pin configuration.

2. Only black-and-white display:

Check whether the color saturation and brightness are properly set. Access the DISPLAY menu and make sure Check Field is Off.

3. Wrong or abnormal colors:

Check whether the cables are correctly connected. Broken or loose pins of the cables may cause a bad connection. Access the WAVE menu page and check that the False Color mode is OFF.

4. Picture is "stuck" on screen:

Access the DISPLAY menu page and check that IMAGE FREEZE is off.

5. Solving Other problems:

The monitor can be reset to Factory original settings. This is sometimes useful to eliminate the possibility that an improperly set menu item is interfering with the operation. To reset the monitor, access the "SYSTEM" menu page, press the Menu knob then rotate left or right to select "Reset". Press the knob once then rotate the knob to cause the unit to reset.

PCSet Remote Terminal Application

PCSet Remote Terminal is a convenient software tool for controlling multiple monitors from a single computer. PCSet will run on any Windows[™] based computer (XP or later) and installs quickly by creating a desktop icon. Simply double-click the desktop icon and the control screen will appear. PCSet discovers the monitors on the network and adapts the control function display accordingly. Currently works with models ML-503, ML-702, V-702, V-702-12G.

Download the PCSet Remote Terminal Application with instructions here:

https://marshall-usa.com/software/PCSet-Remote-Terminal.zip

Marshall

WARRANTY -

For Warranty information please refer to Marshall website page: https://marshall-usa.com/company/warranty.php

Marshall Electronics, Inc.

20608 Madrona Avenue, Torrance, CA 90503 Tel: (800) 800-6608 / (310) 333-0606 / Fax: (310) 333-0688 www.marshall-usa.com • Email: support@marshall-usa.com