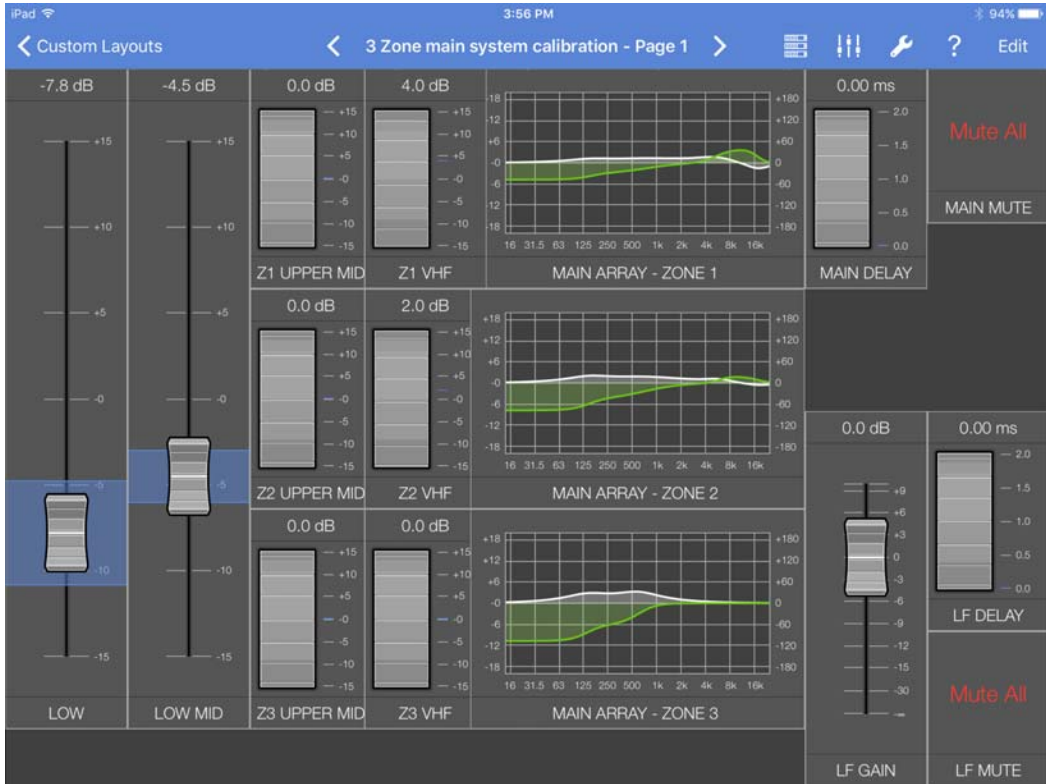


Compass Go User Guide



Version 2.3.2



© 2018
Meyer Sound Laboratories
Compass Go User Guide, PN 05.141.142.02 A





The contents of this manual are furnished for informational purposes only, are subject to change without notice, and should not be construed as a commitment by Meyer Sound Laboratories Inc. Meyer Sound assumes no responsibility or liability for any errors or inaccuracies that may appear in this manual. Except as permitted by applicable copyright law, no part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, recording or otherwise, without prior written permission from Meyer Sound.

AlignALink, B-Noise, CAL, Compass Go by Meyer Sound, Compass RMS, Composite EQ, Intelligent AC, LEO-M, LEOPARD, LYON, M Series, M1D, M2D, M3D, MAPP, MAPP XT, MatrixLink, MINA, QuietCool, TM Array, UltraSeries, LEO, LYON, are trademarks of Meyer Sound. Callisto, Compass, MAPP Online Pro, Thinking Sound, U-Shaping, REM, Galileo, M'elodie, MICA, MILO, SIM, TruShaping, M3D, Meyer Sound, and the Meyer Sound wave logo, are registered trademarks of Meyer Sound Laboratories Inc. (Reg. U.S. Pat. & Tm. Off.). All third-party trademarks mentioned herein are the property of their respective trademark holders.

SAFETY INSTRUCTIONS FOR LOUDSPEAKERS/ELECTRONICS

SYMBOLS USED

These symbols indicate important safety or operating features in this booklet and on the chassis:

			
Dangerous voltages: risk of electric shock	Important operating instructions	Frame or chassis	Protective earth ground
Pour indiquer les risques résultant de tensions dangereuses	Pour indiquer important instructions	Masse, châssis	Terre de protection
Zu die gefahren von gefährliche spanning zeigen	Zu wichtige betriebsanweisung und unterhaltsanweisung zeigen	Rahmen oder chassis	Die schutzerde
Para indicar voltajes peligrosos	Instrucciones importantes de funcionamiento y/o mantenimiento	Armadura o chassis	Tierra proteccionista

SAFETY INSTRUCTIONS FOR LOUDSPEAKERS/ELECTRONICS

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with Meyer Sound's installation instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
9. Do not defeat the safety purpose of the grounding-type plug. A grounding-type plug has two blades and a third grounding prong. The third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus. The AC mains plug or appliance coupler shall remain readily accessible for operation.
11. Only use attachments/accessories specified by Meyer Sound.

-
12. Use only with the caster rails or rigging specified by Meyer Sound, or sold with the apparatus. Handles are for carrying only.
 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the power-supply cord or plug has been damaged; liquid has been spilled or objects have fallen into the apparatus; rain or moisture has entered the apparatus; the apparatus has been dropped; or when for undetermined reasons the apparatus does not operate normally.



WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. Do not install the apparatus in wet or humid locations without using weather protection equipment from Meyer Sound.

POWERCON USE CAUTION

Disconnect the mains plug before disconnecting the power cord from the device.

SAFETY INSTRUCTIONS FOR LOUDSPEAKERS/ELECTRONICS

ENGLISH

- To reduce the risk of electric shock, disconnect the apparatus from the AC mains before installing audio cable. Reconnect the power cord only after making all signal connections.
- Connect the apparatus to a two-pole, three-wire grounding mains receptacle. The receptacle must be connected to a fuse or circuit breaker. Connection to any other type of receptacle poses a shock hazard and may violate local electrical codes.
- Do not install the apparatus in wet or humid locations without using weather protection equipment from Meyer Sound.
- Do not allow water or any foreign object to get inside the apparatus. Do not put objects containing liquid on or near the unit.
- To reduce the risk of overheating the apparatus, avoid exposing it to direct sunlight. Do not install the unit near heat-emitting appliances, such as a room heater or stove.
- This apparatus contains potentially hazardous voltages. Do not attempt to disassemble the unit. The unit contains no user-serviceable parts. Repairs should be performed only by factory-trained service personnel.

FRANÇAIS

- Pour réduire le risque d'électrocution, débrancher la prise principale de l'haut-parleur, avant d'installer le câble d'interface
- allant à l'audio. Ne rebrancher le bloc d'alimentation qu'après avoir effectué toutes les connexions.
- Branchez l'haut-parleur dans une prise de courant à 3 dérivations (deux pôles et la terre). Cette prise doit être munie d'une protection adéquate (fusible ou coupe-circuit). Le branchement dans tout autre genre de prise pourrait entraîner un risque d'électrocution et peut constituer une infraction à la réglementation locale concernant les installations électriques.
- Ne pas installer l'haut-parleur dans un endroit où il y a de l'eau ou une humidité excessive.
- Ne pas laisser de l'eau ou tout objet pénétrer dans l'haut-parleur. Ne pas placer de récipients contenant un liquide sur cet appareil, ni à proximité de celui-ci.
- Pour éviter une surchauffe de l'haut-parleur, conserver-la à l'abri du soleil. Ne pas installer à proximité d'appareils dégageant de la chaleur tels que radiateurs ou appareils de chauffage.
- Ce haut-parleur contient des circuits haute tension présentant un danger. Ne jamais essayer de le démonter. Il n'y a aucun composant qui puisse être réparé par l'utilisateur. Toutes les réparations doivent être effectuées par du personnel qualifié et agréé par le constructeur.

DEUTSCH

- Um die Gefahr eines elektrischen Schlages auf ein Minimum zu reduzieren, das Gerät vom Stromnetz trennen, bevor ein Audio- oder Netzkabel angeschlossen wird. Das Netzkabel erst nach Herstellung aller Signalverbindungen wieder einstecken.
- Das Gerät an eine geerdete zweipolige Dreiphasen-Netzsteckdose anschließen. Die Steckdose muß mit einem geeigneten Abzweigschutz (Sicherung oder Leistungsschalter) verbunden sein. Der Anschluß der unterbrechungsfreien Stromversorgung an einen anderen Steckdosentyp kann zu Stromschlägen führen und gegen die örtlichen Vorschriften verstoßen.
- Das Gerät nicht an einem Ort aufstellen, an dem es mit Wasser oder übermäßig hoher Luftfeuchtigkeit in Berührung kommen könnte.
- Darauf achten, daß weder Wasser noch Fremdkörper in das Innere des Geräts eindringen. Keine Objekte, die Flüssigkeit enthalten, auf oder neben die unterbrechungsfreie Stromversorgung stellen.
- Um ein Überhitzen des Geräts zu verhindern, das Gerät vor direkter Sonneneinstrahlung fernhalten und nicht in der Nähe von wärmeabstrahlenden Haushaltsgeräten (z.B. Heizgerät oder Herd) aufstellen.
- Im Inneren dieses Geräts herrschen potentiell gefährliche Spannungen. Nicht versuchen, das Gerät zu öffnen. Es enthält keine vom Benutzer reparierbaren Teile. Reparaturen dürfen nur von ausgebildetem Kundendienstpersonal durchgeführt werden.

ESPAÑOL

- Para reducir el riesgo de descarga eléctrica, desconecte de la red de voltaje el altoparlante antes de instalar el cable de señal de audio. Vuelva a conectar la alimentación de voltaje una vez efectuadas todas las interconexiones de señalización de audio.
- Conecte el altoparlante a un tomacorriente bipolar y trifilar con neutro de puesta a tierra. El tomacorriente debe estar conectado a la protección de derivación apropiada (ya sea un fusible o un disyuntor). La conexión a cualquier otro tipo de tomacorriente puede constituir peligro de descarga eléctrica y violar los códigos eléctricos locales.
- No instale el altoparlante en lugares donde haya agua o humedad excesiva.
- No deje que en el altoparlante entre agua ni ningún objeto extraño. No ponga objetos con líquidos encima de la unidad ni cerca de ella.
- Para reducir el riesgo de sobrecalentamiento, no exponga la unidad a los rayos directos del sol ni la instale cerca de artefactos que emiten calor, como estufas o cocinas.
- Este altoparlante contiene niveles de voltaje peligrosos en potencia. No intente desarmar la unidad, pues no contiene piezas que puedan ser reparadas por el usuario. Las reparaciones deben efectuarse únicamente por parte del personal de mantenimiento capacitado en la fábrica.

CONTENTS

Introduction	11
Compass Go Compatibility	12
How to Use This Manual	12
Meyer Sound Technical Support	12
Overview Page	15
EQ Curve	16
Gain Setting	17
Sel/Iso/Mute Status	17
Channel Name	17
Overview Page Tools	18
I/O Page	21
Sel-Iso Status Grid	22
Delay	22
Sel/Iso/Mute/Pol	22
Link Group	22
Fader	23
I/O Page Tools	23
EQ Page	25
Sel-Iso Status Grid	26
Fader	28
Channel Settings Tab	28
Parametric Controls	34
U-Shaping Controls	37
EQ Page Tools	39

Matrix Page	43
Gain Mode	44
Router Mode	45
Delay Mode	46
Expanded Matrix Inputs	47
Matrix Page Tools	49
Settings Page	51
Snapshots	52
Low-Mid Beam Control	54
Link Groups	57
Device Settings	59
Input and Output Settings	61
Clock Source Settings	72
SIM3	76
Global Controls	78
Custom Layouts	79
Creating a Custom Layout	80
Adding a Device to a Custom Layout	80
Adding Controls to a Custom Layout	84
Editing Controls In a Custom Layout	88
Selecting a New Custom Layout	89
Moving and Resizing Controls in a Custom Layout ...	89
Managing Pages in Custom Layouts	90
Storing and Sharing Custom Layouts	91
Accessing Custom Layouts in iTunes	92
Importing Custom Layouts from iTunes	92
Deleting Custom Layouts	92

CHAPTER 1: INTRODUCTION

Combining the key functionalities of the Compass software and the simplicity and mobility of the iPad, Compass Go makes system setup and tuning easier and more intuitive. Download the free app from the Apple App Store, and connect it to Galileo, Galileo Callisto, and Galileo GALAXY processors on the same Wi-Fi network.

You can now optimize your sound system using the following features:

- Adjust system delay, gain, and mute.
- Manage U-Shaping, TruShaping, Delay Integration, and Parametric EQ filter sets.
- See the current status of parameters and make real-time adjustments at control points.
- Recall snapshots of prior user settings.
- Create, edit, and store new snapshot settings in the individual processors.
- Move about freely with your iPad to analyze the array coverage and sound quality from different seating locations.

The Overview and EQ Pages are shown below.



Figure 1: Overview (left) and EQ (right) pages

COMPASS GO COMPATIBILITY

Compass Go software requires the following firmware versions:

- **GALAXY:** v1.3.0 (All models)
- **Bluehorn 816:** v1.3.0
- **Galileo/Callisto:** v3.12.0 or 3.12.1

HOW TO USE THIS MANUAL

Make sure to read these operating instructions in their entirety before using the Compass Go software. In particular, pay close attention to material related to safety issues.

As you read these operating instructions, you will encounter the following icons for notes, tips, and cautions:



NOTE: A note identifies an important or useful piece of information relating to the topic under discussion.



TIP: A tip offers a helpful tip relevant to the topic at hand.



CAUTION: A caution gives notice that an action may have serious consequences and could cause harm to equipment or personnel, or could cause delays or other problems.

Information and specifications are subject to change. Updates and supplementary information are available at www.meyersound.com.

MEYER SOUND TECHNICAL SUPPORT

Meyer Sound Technical Support is available at:

- **Tel:** +1 510 486.1166
- **Tel:** +1 510 486.0657 (after hours support)
- **Web:** <https://meyersound.com/contact/>
- **Email:** techsupport@meyersound.com

CHAPTER 2: OVERVIEW PAGE

To display the Overview page:

1. Select a device from the Devices page (Device Icon is at far left) by touching a Discovered Device.

One device can be selected at a time. A green circle indicates the device is connected; a red rectangle indicates it is not connected.



Figure 2: Overview page

To display the Overview page from any other Compass page, tap the Overview Icon (highlighted in Figure 2) in the top menu bar.

The page is organized into one row of inputs, and two rows of outputs:

- Inputs A–H (GALAXY) and Inputs A–F (Galileo and Callisto) are on the top row.
- Outputs 1–8 are on the middle row.
- Outputs 9–16 are on the bottom row.

Each input/output channel has a meter showing its input/output level.

Each channel control is discussed below.

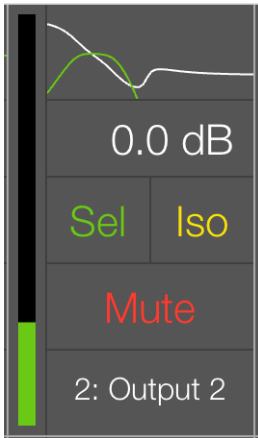


Figure 3: Channel detail

EQ CURVE

At the top of the channel, the EQ Curve is located in a small rectangle. Tapping the EQ curve displays the EQ page for that channel (see Chapter 4: *EQ Page*).

GAIN SETTING

To adjust the channel gain, do either of the following:

1. Tap the gain value.

A blue rectangle surrounds the gain value.

2. Drag up/down to increase/decrease the value.

The gain can be in the range -90 dB to +10 dB.

- OR -

1. Double-tap the gain value.

A numeric pad opens.

2. Enter a new gain setting.

The +/- button toggles between positive and negative values.

Note that when no sign is shown, the value is interpreted as negative.

3. Touch **Done** when finished.

SEL/ISO/MUTE STATUS

Sel/Iso/Mute controls all work the same. Each shows its active state with a solid colored rectangle surrounding it. Touch a control to toggle its value.

CHANNEL NAME

The default channel name is derived from its input/output channel number, but can be edited.

To assign a name to the channel:

1. Double-tap the channel name.

The **Edit Channel Name** dialog opens.

2. Use the iPad keyboard to enter a new name.

3. Touch **Done** when finished.

OVERVIEW PAGE TOOLS

Tap the Tools icon at the top-right of the Overview Page to open the following dialog:



Figure 4: Tools options from Overview Page

Show SIM3 Probe Channel Assignments

Touch and drag the button to the right to show the SIM3 Probe Channel Assignment fields on the Overview Page.

Touch and drag the button to the left to conceal the SIM3 Probe Channel Assignment fields from displaying on the Overview Page.

The current SIM3 console and probe assignments determine which input and/or outputs display these assignment fields.

- If the **Processor Probe Point** is set for one of the output options, a **P** field appears only in the output cells.
- If the **Console Probe Point** is set for one of the output options, a **C** field appears only in the output cells.

- If the **Processor Probe Point** is set for one of the input options, a **P** field appears only in the input cells.
- If the **Console Probe Point** is set for one of the input options, a **C** field appears only in the input cells.

To assign a new channel to either probe point, touch a different channel's **C** or **P** field.

The figure below shows the **Console Probe Channel** set to **Input C**, and the **Processor Probe Channel** set to **Output 3**.

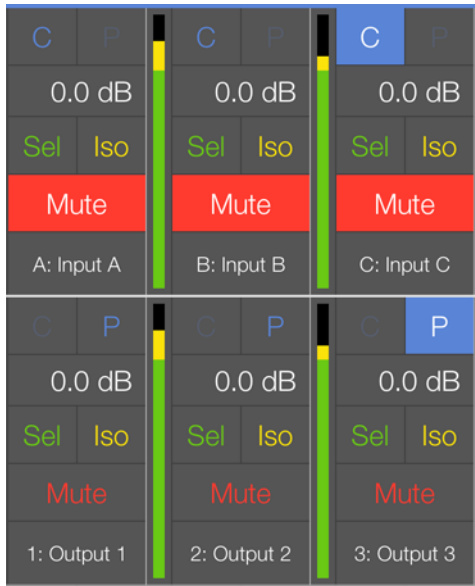


Figure 5: SIM3 Probe Point Assignments on the Overview Page



NOTE: The field to the left of the highlighted **P** for Output 3 is gray (inactive) to signify that the Console Probe Point is set to an input. The Console and Processor Probe Point types can only be changed from the Tools menu or the Settings Page (see page 76).

SIM3 Settings

The current SIM3 Probe Point and Channel Settings are displayed. Touch any of them to open their assignment options.

When **Show SIM3 Probe Channel Assignments** is active, you can change the Console and Probe Channel assignments on the Overview Page by touching the **C** or **P** fields, respectively, on the desired cells.

Control Sensitivity

This sets the sensitivity for Compass Go's touch controls.

Touch the current setting and choose **Low**, **Medium**, or **High** (default).

High sensitivity causes the fastest change in value per distance dragged.

CHAPTER 3: I/O PAGE

To display the I/O page:

- Tap the I/O Icon (highlighted in Figure 6) in the top menu bar from any Compass Go page. The I/O page appears with the Inputs or Outputs last displayed (**Inputs A–H** by default).

To select the eight Input or Output channels to display, do either of the following:

- Touch the desired tab in the center of the top menu bar: **Inputs A–H**, **Outputs 1–8**, **Outputs 9–16**
 - OR -
- Swipe the screen left/right to scroll to the previous/next eight I/O channels.

In Figure 6, swiping to the right displays **Outputs 1–8**.

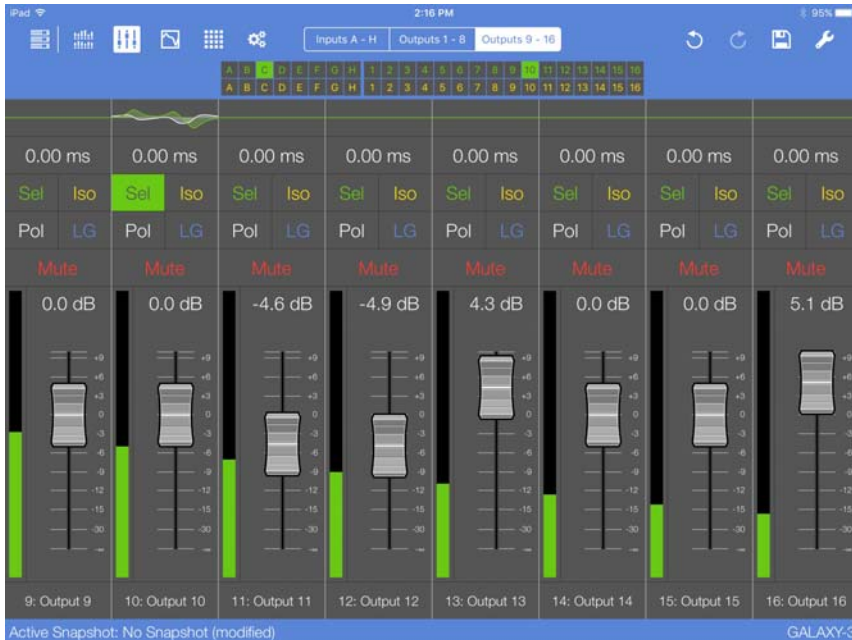


Figure 6: I/O page displaying Outputs 9–16

Input and Output channels have the same controls except Outputs have a **Pol** setting.

SEL-ISO STATUS GRID

The Sel-Iso Status grid appears in several windows. See page 26 for details.

DELAY

To adjust the channel delay, do either of the following:

1. Double-tap the delay value (at the top of the channel).
A numeric pad opens.
 2. Enter a delay amount.
A +/- button toggles between negative and positive gain.
Note that entering a value without a sign is interpreted as negative.
 3. Tap **Delay Unit** to choose a unit from the following options:
milliseconds, feet, meters, frames (24 fps, 25 fps, 30 fps), **samples** (96 kHz).
 4. Tap **Back** to return to the Delay setting numeric pad.
 5. Tap **Done** when finished.
- OR -
1. Single-tap the delay value.
An orange rectangle surrounds it.
 2. Touch and drag left/right to increase/decrease the delay.

The maximum delay is 2000 ms for outputs, and 500 ms for inputs.

SEL/ISO/MUTE/POL

These controls are discussed on page 33.

LINK GROUP

This control is discussed on page 34.

FADER

The channel Fader appears in several windows. See page 28 for details.

I/O PAGE TOOLS

Tap the Tools icon at the top-right of the I/O Page to open the following dialog:



Figure 7: Tools option from I/O Page

Control Sensitivity

This sets the sensitivity for Compass Go's touch controls.

Touch the current setting and choose **Low**, **Medium**, or **High** (default).

High sensitivity causes the fastest change in value per distance dragged.

CHAPTER 4: EQ PAGE

To display the EQ page, do either of the following:

- Tap the EQ Icon (highlighted in Figure 8) in the top menu bar from any Compass Go page.
- OR -
- From the Overview or I/O pages, double-tap the EQ curve at the top of the channel.

The EQ page appears with the **Channel Settings** tab selected unless the **Parametric** or **U-Shaping** tab was last selected for that channel.



Figure 8: EQ page with Channel Settings controls

Channel Settings, Parametric, and U-Shaping tabs each have their own meter, fader, and share these screen entities:

- Channel Settings, Parametric and U-Shaping tabs along the top

Tap the tab to activate the desired controls. Each tab is discussed in detail below.

- Sel-Iso Status Grid

This grid shows any selected or isolated input/output channels. The status of any channel can be toggled directly from the grid. See below for details.

SEL-ISO STATUS GRID

The Sel-Iso Status Grid is comprised of two rows: channel selection is indicated on top, channel isolation on bottom.

A	B	C	D	E	F	G	H	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	B	C	D	E	F	G	H	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Figure 9: Sel-Iso Status Grid

In Figure 9, Input E and Output 11 are selected, Input H and Output 11 are isolated.

The rectangle enclosing Output 11 shows the currently selected I/O channel on the EQ page. Touch the left or right arrows at each end of the grid to move the selection rectangle to the previous or next I/O channel, respectively. This is an easy way to quickly peruse I/O channels.

To edit channel entries:

1. Touch within the grid.

The grid expands as shown in Figure 10.



Figure 10: Sel-Iso Grid expanded

2. Tap an arrow pointing *into* the grid to select all values.

Tapping either yellow arrow pointing into the Iso Inputs selects them all.

3. Tap an arrow pointing *out* of the grid to deselect all values.

Tapping either green arrow pointing out of the Sel Inputs (or Outputs) deselects them all.

If one or more channel is selected or isolated, the arrows point out.

4. Tap an individual I/O channel cell to toggle its value.

FADER

To adjust the I/O channel fader, do either of the following:

- Tap and drag it to a new position.

- OR -

1. Double-tap the numeric above the fader to open a numeric pad.
2. Enter a new value (maximum = +10, minimum = -90).

The +/- button toggles between positive and negative values.

Note that when no sign is shown, the value is interpreted as negative.

3. Tap **Done** when finished.

CHANNEL SETTINGS TAB

The **Channel Settings** tab has these additional controls:

- High and Low Pass filters
- Atmospheric Correction
- Delay Integration
- Sel/Iso/Mute/Pol controls
- LG (Link Group) controls

High and Low Pass Filters (outputs only)

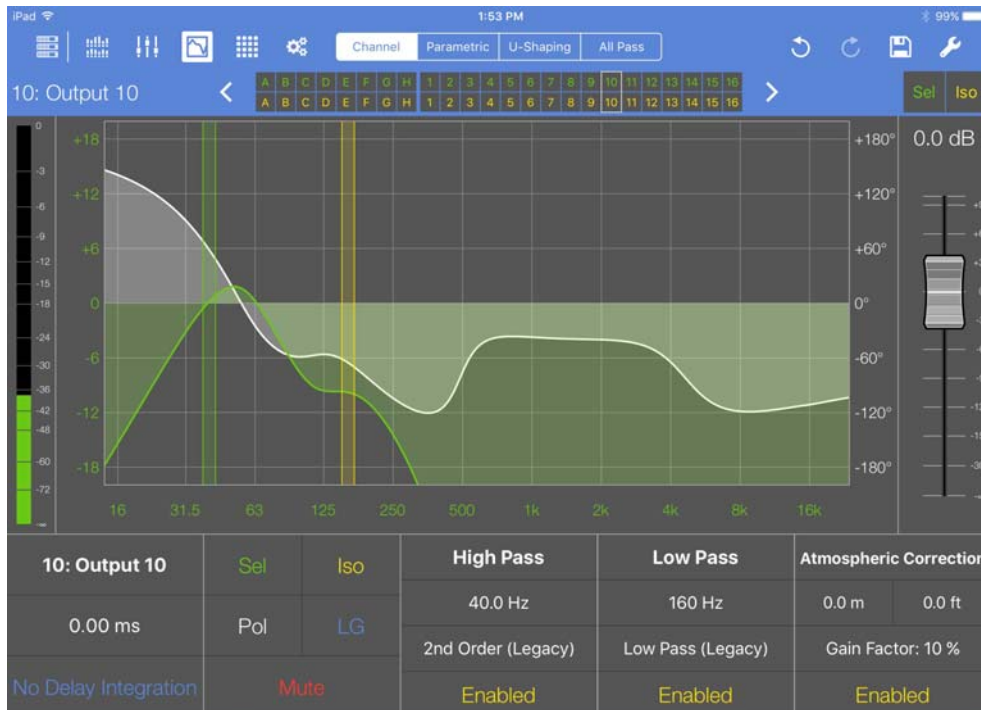


Figure 11: High and Low Pass Filter

Frequency

To adjust the High and Low Pass filter frequency:

1. Touch the yellow (Low Pass) or green (High Pass) filter line or the High/Low Pass frequency value.

When selected, a blue rectangle surrounds the frequency value. The green or yellow line highlights to show the selected filter for editing. This state persists for 3 seconds, then extinguishes.

2. While the filter is selected for editing, do either of the following:

Touch the green or yellow line and drag to a new position; the frequency field updates while the line is moved.

- OR -

Touch within the blue highlighted rectangle and drag up/down to increase/decrease the frequency values; the corresponding line moves as its frequency value changes.

Filter Type

To select the **High** or **Low Pass Type**:

1. Double-tap the filter type beneath the frequency value.

The **High** or **Low Pass Type** dialog opens. The currently selected filter has a check mark next to it.

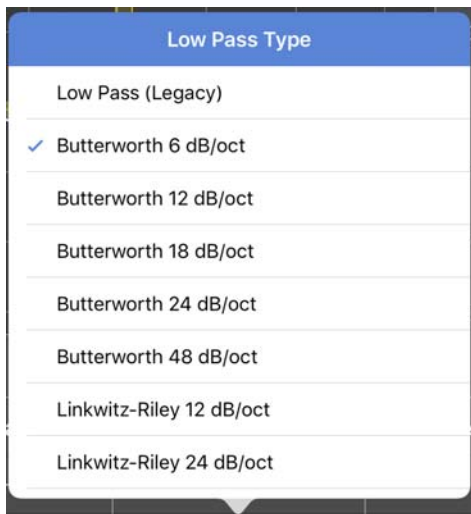


Figure 12: High and Low Pass Filter Type dialog

2. Touch the desired filter type.

The dialog is automatically dismissed when a type is selected, or you touch outside the dialog.

Bypassed/Enabled

Tap to toggle the **Enabled/Bypassed** state of the **High** or **Low Pass** filter. A solid yellow rectangle surrounds **Bypassed**.

Atmospheric Correction (outputs only)

Distance

To adjust the distances, do either of the following:

1. If **Atmospheric Correction** is **Enabled**, single tap either distance unit value.

A blue rectangle surrounds the distance value.

2. Drag up/down to increase/decrease the value.

- OR -

1. Double-tap the distance value.

A numeric pad opens even if **Atmospheric Correction** is **Bypassed**.

2. Enter a value and tap **Done** when finished.

The maximum distance is 150 m.

Gain Factor

To set the **Gain Factor**:

1. Double-tap **Gain Factor**.

A dialog opens.

2. Choose a value in the range 10–100% in 10% increments.

3. Tap outside the dialog to close it.

Enabled/Bypassed

Tap to toggle the **Enabled/Bypassed** state. A yellow solid rectangle surrounds **Bypassed**.

Delay

To adjust the channel delay, do either of the following:

1. Double-tap the delay value (below the channel name on the lower left).
A numeric pad opens.
2. Enter a delay amount.
The +/- button toggles between positive and negative values.
Note that when no sign is shown, the value is interpreted as negative.
3. Tap **Delay Unit** to choose a unit from the following options:
milliseconds, feet, meters, frames (24 fps, 25 fps, 30 fps) **samples** (96 kHz).
4. Tap **Back** to return to the Delay setting numeric pad.
5. Tap **Done** when finished.
- OR -
 1. Single-tap the delay value.
A blue rectangle surrounds it.
 2. Touch and drag up/down to increase/decrease the delay.
The maximum delay is 2000 ms for outputs, and 500 ms for inputs.

Delay Integration (outputs only)

Below the Delay setting, tap **No Delay Integration** (if never set) or the solid blue rectangle with the Meyer powered loudspeaker listed within it. All compatible loudspeakers appear in this list.

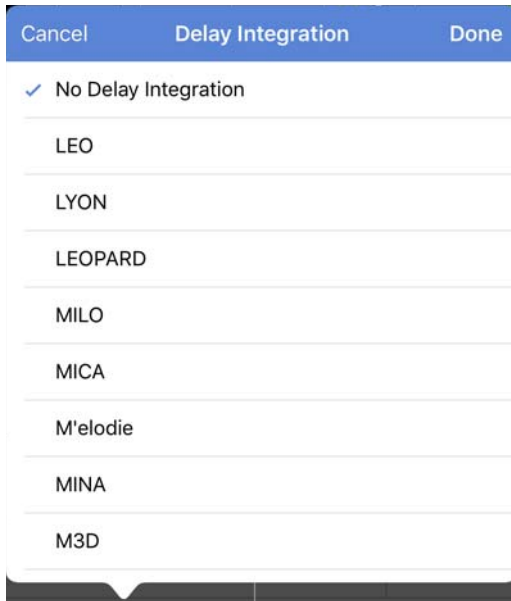


Figure 13: Delay Integration dialog (scroll for more options)

Sel/Iso/Mute/Pol

1. Tap **Sel**, **Iso**, **Mute** controls to toggle their values.
A rectangular box surrounds an active value.
2. Tap **Pol** to reverse the Polarity (outputs only).
Pol is normal, **Rev** is reversed.

Link Group

Tap **LG** to assign a Link Group. Drag the button corresponding to the desired Link Group to the right to activate. Inputs have four Link Groups, outputs have eight.

PARAMETRIC CONTROLS

To display the Parametric controls from the EQ page, tap the **Parametric** tab in the center of the top menu bar.

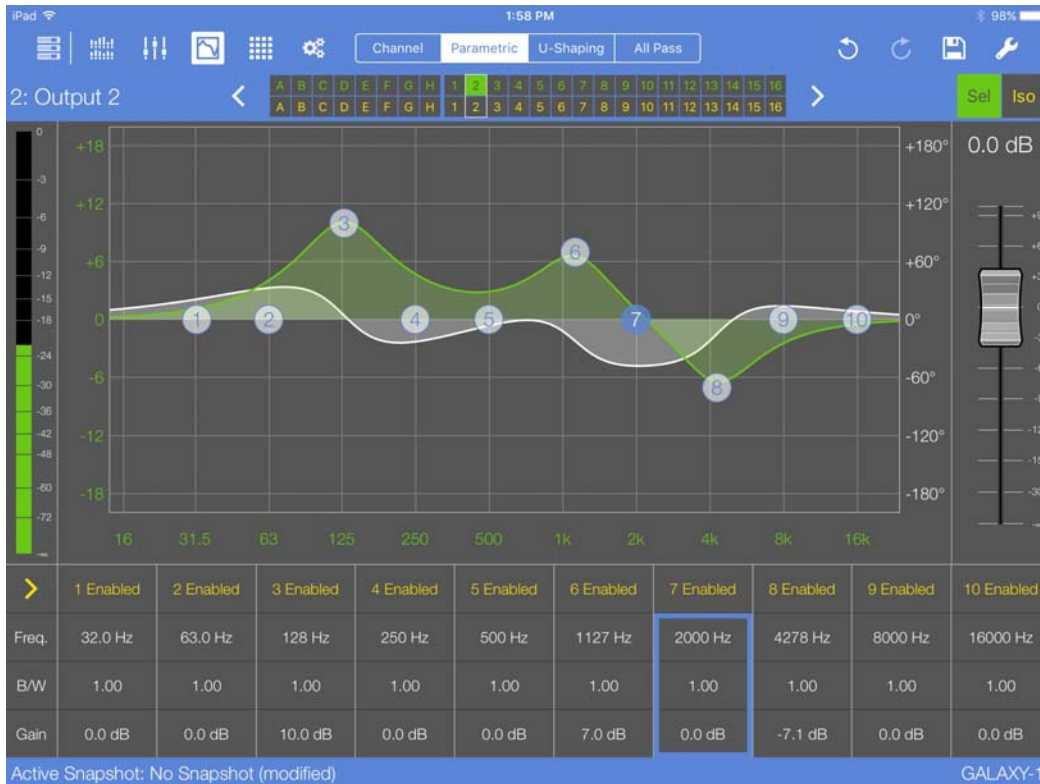


Figure 14: EQ Page with Parametric controls

To select a filter to adjust, do either of the following:

- Touch a filter's **Freq.**, **B/W**, or **Gain** value.

- OR -

- Touch a filter's number in the graph.

In both cases, a blue rectangle surrounds the channel's settings and the filter number highlights in blue on the graph. The selection persists for 3 seconds before extinguishing. Filter 6 is selected in Figure 14).

With a filter selected, you can adjust its settings by doing either of the following:

- Touch the filter number and drag up/down to alter the gain, or drag left/right to adjust frequency.

Drag in both directions to adjust frequency and gain at once.

Use three fingers to drag to change the gain but keep the frequency constant.

- OR -

1. Double-tap **Freq.**, **B/W**, or **Gain**.

A numeric pad opens so you can enter values directly.

2. Enter a new value.

The +/- button toggles between positive and negative values.

Note that when no sign is shown, the value is interpreted as negative.

3. Tap **Done** when finished.



NOTE: Touching and dragging within a selected channel's settings operates the same as if you touched and dragged the filter number. **Freq.** and **Gain** can be adjusted in this manner but not **B/W**. Use a two-finger pinch/spread gesture to change **B/W**.

Each filter can be individually enabled or bypassed.

To enable or bypass a filter:

- Touch **Enabled** or **Bypassed** at the top of the filter's settings to toggle its state.

To set all filters to the same state:

- Touch the yellow arrow at the far left of the window (see Figure 15).

In Figure 14, touching the right-facing arrow sets all filters to **Bypassed**.

If one or more filters is **Bypassed**, the arrow faces left and will set all filters to **Enabled** when touched.

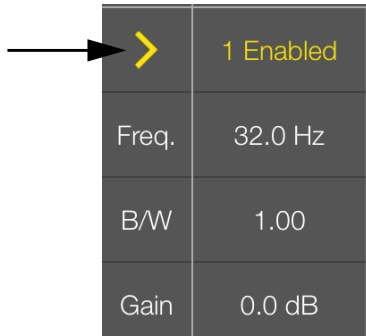


Figure 15: Bypassed/Enabled control to toggle all channels

U-SHAPING CONTROLS

To display the U-Shaping controls from the EQ page, tap the **U-Shaping** tab in the center of the top menu bar.



Figure 16: EQ Page with U-Shaping controls

- Touch a vertical red line to select a filter's frequency.
 - The line highlights in red and the Freq. setting has a red outline.
 - In Figure 16, Freq. is selected for the highest filter.
 - Touch a horizontal yellow line to select gain.
 - The line highlights in yellow and the Gain setting has a yellow outline.
- The selected state persists for 3 seconds before extinguishing.

To adjust a selected filter:

1. Drag a red selected **Freq.** line left/right to decrease/increase the value.
Dragging within the **Freq.** value accomplishes the same function.
2. Drag a yellow selected **Gain** line up/down to increase/decrease the value.
Dragging within the **Gain** value accomplishes the same function.
3. Double-tap the **Slope** value to select a value for the filter (see options below).



Figure 17: Slope options for U-Shaping filters

EQ PAGE TOOLS

The content of the EQ Page Tools menu depends on the device and whether an input or output is currently selected. The EQ Page Tools menu shown below is from a GALAXY output, which contains all relevant controls.

Tap the Tools icon at the top-right of the EQ Page to open the following dialog:

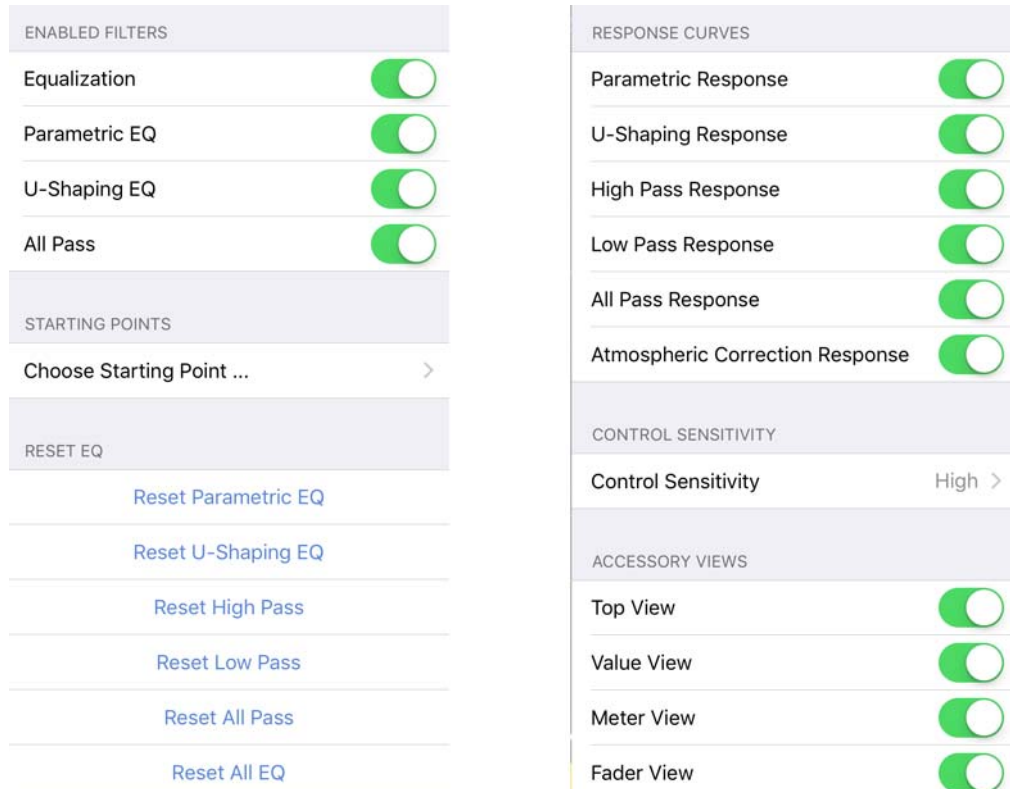


Figure 18: EQ Page Tools options for a GALAXY output: Upper controls (left), lower controls (right)

Enabled Filters

Swipe the buttons to the right (active) to enable the desired filter types. If a filter is enabled and has settings applied, you can disable it but still retain its values for later use; just re-enable the filter.



NOTE: Some devices do not include all of these filter options.

Starting Points

Touch **Choose Starting Point** to set a new Starting Point.



NOTE: Only the Callisto 616 and GALAXY outputs offer this option.

The following Meyer Sound loudspeaker options can be used as a Starting Point:

The screenshot shows a mobile application interface for selecting a starting point. The top bar is blue with a back arrow and the text 'Choose Starting Point'. Below this is a list of starting points, divided into two columns. Each item includes the name of the speaker and its specific settings.

Starting Point	Settings
900-LFC Forward	
900-LFC Reversed	
1100-LFC Forward	
1100-LFC Reversed	
CQ	
LEO-M Narrow	1 to 5 deg for 3 elements - Standard
LEO-M Medium	5 to 10 deg for 3 elements
LYON-M Narrow	1.5 to 5 deg for 4 elements - Standard
LYON-M Medium	5 to 15 deg for 4 elements
LYON-M Wide	15 to 27 deg for 4 elements
LYON-W Narrow	1.5 to 5 deg for 4 elements - Standard
LYON-W Medium	5 to 15 deg for 4 elements
LYON-W Wide	15 to 27 deg for 4 elements
M'elodie	12 elements - Standard
MICA Narrow	1.5 to 6 deg for 4 elements - Standard
MICA Medium	6 to 24 deg for 4 elements
MICA Wide	24 to 33 deg for 4 elements
MILO	12 elements - Standard
MINA Narrow	1.5 to 6 deg for 4 elements - Standard
MINA Medium	6 to 24 deg for 4 elements
MINA Wide	24 to 33 deg for 4 elements

Figure 19: Choosing a new Starting Point: Top of menu (left), bottom of menu (right)

Reset EQ

Touch **Reset Parametric EQ**, **Reset U-Shaping EQ**, **Reset High Pass**, **Reset Low Pass**, or **Reset All Pass**, to reset that filter to flat (0 gain at all bands) and all other filter parameters (i.e., bandwidth, frequency, slope, etc.) to their default values. Touch **Reset All EQ** to reset all filters to their default values at once.



NOTE: Some devices do not include all of these reset options.

Response Curves

Swipe any of the **Response** buttons to the right (active) position to enable display for those curves in other windows. This setting is channel-specific so you can show any combination of these curves for each input and output.

Control Sensitivity

This sets the sensitivity for Compass Go's touch controls.

Touch the current setting and choose **Low**, **Medium**, or **High** (default).

High sensitivity causes the fastest change in value per distance dragged.

Accessory Views

Swipe the **Top View**, **Value View**, **Meter View**, and/or **Fader View** buttons to the right (active) position to show those entities in the EQ page window. You can conserve screen area by swiping them to the left when they are not essential to your current task.

SIM3 Trim (Galileo and Callisto only)

Each output channel can be enabled/disabled in the SIM3 section of the device settings. When enabled, the **SIM3 Trim** for each output can be adjusted between -12 dB and +6 dB.

CHAPTER 5: MATRIX PAGE

To display the Matrix page, tap the Matrix Icon (highlighted in Figure 20) in the top menu bar from any Compass Go page.

The Matrix page has three tabs: **Gain Mode** (shown in Figure 20), **Router Mode**, **Delay Mode**. Touch a tab to change the display. When visiting other pages, the last mode displayed is used when you reselect the Matrix page.

Each matrix contains the following entries:

- eight processed inputs **A–H**
- 24 unprocessed AVB inputs **9–32**
- 16 processed outputs **1–16**

GAIN MODE

	-∞ dB	-9.0 dB	-6.0 dB	-4.5 dB	-3.0 dB	+0.0 dB	+3.0 dB	+6.0 dB	+8.0 dB	-∞ dB
Select All										
1: Output 1										
2: Output 2										
3: Output 3										
4: Output 4										
5: Output 5										
6: Output 6										
7: Output 7										
8: Output 8										
9: Output 9										
10: Output 10										
11: Output 11										
12: Output 12										
13: Output 13										
14: Output 14										
15: Output 15										
16: Output 16										
A: Input A	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	-∞	-∞	-∞
B: Input B	-∞	-∞	-∞	-∞	-∞	-∞	-∞	+0.0	+0.0	+0.0

Figure 20: Matrix page in Gain Mode

To set the gain for an individual cell:

1. Touch the cell to select it.

A white rectangle encloses the cell. The selection persists for 3 seconds before extinguishing.

2. Touch a dB value from the top list.

The cell updates with that value.

To set the gain for multiple cells:

1. Touch multiple cells to select them.

A white rectangle encloses each selected cell. The selection persists for 3 seconds before extinguishing.

2. Touch a dB value from the top list.

The cells update with that value.

To select an entire Input or Output, touch its label on the left or top, respectively.

To select all cells, touch **Select All** at the top left.

ROUTER MODE

	1: Output 1	2: Output 2	3: Output 3	4: Output 4	5: Output 5	6: Output 6	7: Output 7	8: Output 8	9: Output 9	10: Output 10	11: Output 11	12: Output 12	13: Output 13	14: Output 14	15: Output 15	16: Output 16
Clear Matrix																
A: Input A	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	-∞	-∞	-∞	-∞	-∞	-∞	-∞	-∞
B: Input B	-∞	-∞	-∞	-∞	-∞	-∞	-∞	-∞	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0

Figure 21: Matrix page in Router Mode

To directly toggle a cell value:

- Touch a cell marked $-\infty$ to set it to 0 dB.
- Touch a cell marked with any dB value other than $-\infty$ to set it to $-\infty$.

To set a cell to a specific gain value:

1. Double-tap the cell.

A numeric pad opens.

2. Enter a new value.

Gain settings can vary from -90 to 20 dB.

The +/- button toggles between positive and negative values.

Note that when no sign is shown, the value is interpreted as negative.

3. Touch **Done** when finished.

To set a row or column to $-\infty$:

- Touch an Input or Output label.

To set a all entries to $-\infty$:

- Touch **Clear Matrix**



NOTE: See “Direct Router Mode” on page 49 to learn about additional assignment options

DELAY MODE

Delay Mode can set a delay between Inputs and Outputs.

Select All	1: Output 1	2: Output 2	3: Output 3	4: Output 4	5: Output 5	6: Output 6	7: Output 7	8: Output 8	9: Output 9	10: Output 10	11: Output 11	12: Output 12	13: Output 13	14: Output 14	15: Output 15	16: Output 16
A: Input A	0.00 ms	0.00 ms	0.00 ms	0.00 ms	0.00 ms	0.00 ms	0.00 ms	0.00 ms	0.00 ms	0.00 ms	0.00 ms	0.00 ms	0.00 ms	0.00 ms	0.00 ms	0.00 ms
B: Input B	0.00 ms	0.00 ms	0.00 ms	0.00 ms	0.00 ms	0.00 ms	0.00 ms	0.00 ms	0.00 ms	0.00 ms	0.00 ms	0.00 ms	0.00 ms	0.00 ms	0.00 ms	0.00 ms

Figure 22: Matrix page in Delay Mode

To select one or more cells for editing, do one of the following:

- Touch each cell you wish to select.
- Touch an Input or Output label to select the entire row or column, respectively.
- Touch **Select All** at the top left to select all cells.

A white rectangle encloses each selected cell. The selection persists for 3 seconds before extinguishing.

While cells are selected, do either of the following:

- Drag up/down to increase/decrease the delay.
 - OR -
1. Double-tap a selected cell.
 - A numeric pad opens.
 2. Enter a new delay value.
 - The +/- button toggles between positive and negative values.
 - Note that when no sign is shown, the value is interpreted as negative.
 3. Touch **Done** when finished.

All selected cells update with their new values.

EXPANDED MATRIX INPUTS

The figure below shows the expanded Matrix inputs available to the Router, Gain, and Delay Matrices. You can zoom in/out with a two-finger spread/pinch gesture.

Clear Delay Matrix	1: LEFT	2: RIGHT	3: CENTER	4: SUB	5: Surr Left	6: Surr Right	7: Output 7	8: Output 8	9: Output 9	10: Output 10	11: Output 11	12: Output 12	13: Output 13	14: Output 14	15: Output 15	16: Output 16
A: LEFT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B: RIGHT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C: CENTER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D: SUB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E: Surr Left	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F: Surr Right	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G: Input G	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
H: Input H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9: Input 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10: Input 10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11: Input 11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12: Input 12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13: Input 13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14: Input 14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15: Input 15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16: Input 16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17: Input 17	3.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	3.00	0.00	0.00
18: Input 18	0.00	3.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19: Input 19	0.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20: Input 20	0.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21: Input 21	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.00	0.00	0.00
22: Input 22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00	0.00	0.00	3.00	0.00	6.00
23: Input 23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00
24: Input 24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25: Input 25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26: Input 26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27: Input 27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28: Input 28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29: Input 29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30: Input 30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31: Input 31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32: Input 32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Figure 23: Expanded Matrix Inputs

Clear Delay Matrix	1: LEFT	2: RIGHT	3: CENTER	4: SUB	5: Surr Left	6: Surr Right	7: Output 7
A: LEFT	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B: RIGHT	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C: CENTER	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D: SUB	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E: Surr Left	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F: Surr Right	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G: Input G	0.00	0.00	0.00	0.00	0.00	0.00	0.00
H: Input H	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9: Input 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10: Input 10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11: Input 11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12: Input 12	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Figure 24: Expanded Matrix zoomed in

MATRIX PAGE TOOLS

Tap the Tools icon at the top-right of the Matrix Page to open the following dialog:



Figure 25: Tools options from Matrix Page

Direct Router Mode

The **Direct Router Mode** affects *subsequent* Router tab assignments in the Matrix Page:

- Slide the button to the left (inactive) position to *disable* direct routing.
 - Tap a crosspoint to toggle the gain between $-\infty$ and **0.0**. Multiple inputs can be routed to one output.
- Slide the button to the right (active) position to *enable* direct routing.
 - Tap any crosspoint set to $-\infty$ to change its value to **0.0**, and set all other crosspoints in that column (outputs) to $-\infty$. This automatically restricts routing to one input per output.

If you *previously* assigned multiple inputs to the same output, and then activated **Direct Router Mode**, you could conceivably toggle one assignment to $-\infty$ and still have multiple inputs routed to that output. However, by tapping any output crosspoint set to $-\infty$, you will toggle it to **0.0**, and set all other crosspoints in that column (outputs) to $-\infty$.

Control Sensitivity

This sets the sensitivity for Compass Go's touch controls.

Touch the current setting and choose **Low**, **Medium**, or **High** (default).

High sensitivity causes the fastest change in value per distance dragged.

CHAPTER 6: SETTINGS PAGE

To display the Settings page:

1. Select a device from the **Devices** page.
2. Tap the **Settings** icon (highlighted in the top-left menu bar in the figure below).

The **Snapshot Settings** are shown below.

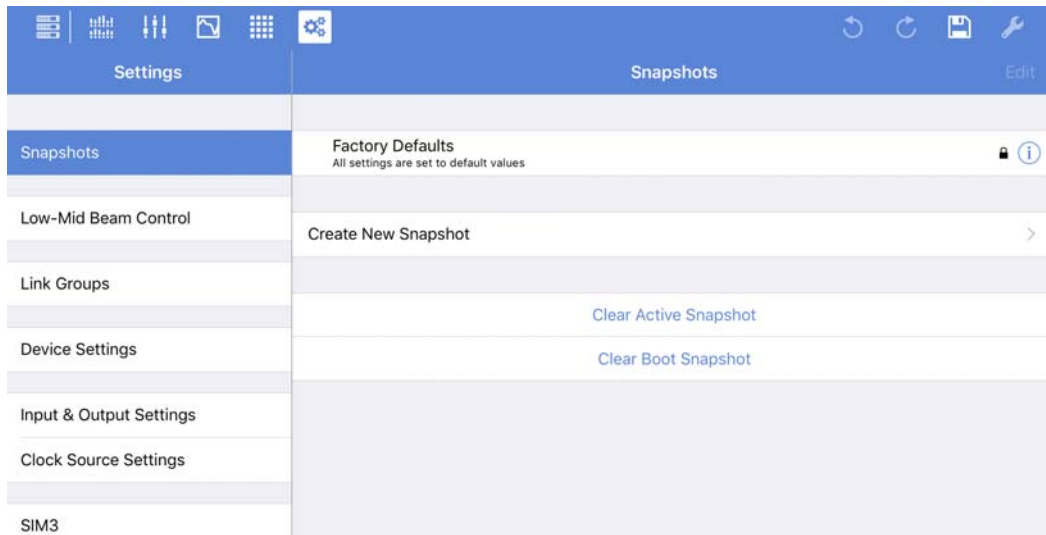


Figure 26: Settings page with Snapshots tab selected

The following **Settings** page tabs are discussed in this chapter:

- Snapshots (see page 52)
- Low-Mid Beam Control (see page 54)
- Link Groups (see page 57)
- Device Settings (see page 59)
- Input & Output Settings (see page 61)
- Clock Source Settings (see page 72)
- SIM3 (see page 76)

The Global Controls that appear at the top-right of each page are discussed at the end of this chapter on page 78.



Figure 27: Global Controls

SNAPSHOTS

A Snapshot contains all settings that configure a particular device. Each device has a:

- **Factory Default Snapshot:** Includes typical settings to start with. It can be duplicated but not edited.
- **Boot Snapshot:** Activated upon starting the device, and remains the Active Snapshot until another is loaded. If there is no Boot Snapshot, the device boots with its previous settings.
- **Active Snapshot:** The Active Snapshot contains one instance of all GALAXY settings that are currently active in the GALAXY hardware.

Factory Defaults

Tap **Factory Defaults** to recall the Factory Default settings.



NOTE: The Factory Default Snapshot cannot be edited.

Create New Snapshot

Tap **Create New Snapshot** to create a new Snapshot using this device's current settings. This is now the Active Snapshot.

Clear Active Snapshot

Tap **Clear Active Snapshot** to clear the Active Snapshot. The device continues with its current settings and will use the Boot Snapshot (if one is assigned) next time it restarts.

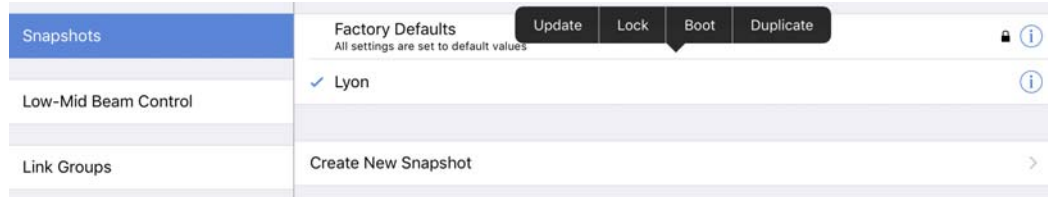


Figure 28: Snapshot assignment and editing options

In the figure above, Lyon is the Active Snapshot. Tap and hold any Snapshot. The following options are available (some states are context-sensitive and may appear inactive):

- **Update:** Updates the Snapshot with the device's current settings.
The **Factory Defaults** Snapshot cannot be updated.
- **Lock or Unlock:** Toggles the locked state of the Snapshot. When locked it, cannot be updated.
The **Factory Defaults** Snapshot cannot be unlocked.
- **Boot:** Makes that Snapshot the Boot Snapshot.
- **Duplicate:** Makes a copy of that Snapshot.



NOTE: There need not be an Active Snapshot. The device continues with its current settings.

Clear Boot Snapshot

Tap **Clear Boot Snapshot** to remove it as the Boot Snapshot. A device without a Boot Snapshot restarts using its last settings before shutting down.

LOW-MID BEAM CONTROL

Low Mid Beam Control (LMBC) is a tool that lets GALAXY users modify the natural vertical coverage of the low mid frequencies of a Meyer Sound line array to better match the high frequency coverage. Settings can be applied for up to four Arrays, each with up to 32 elements.

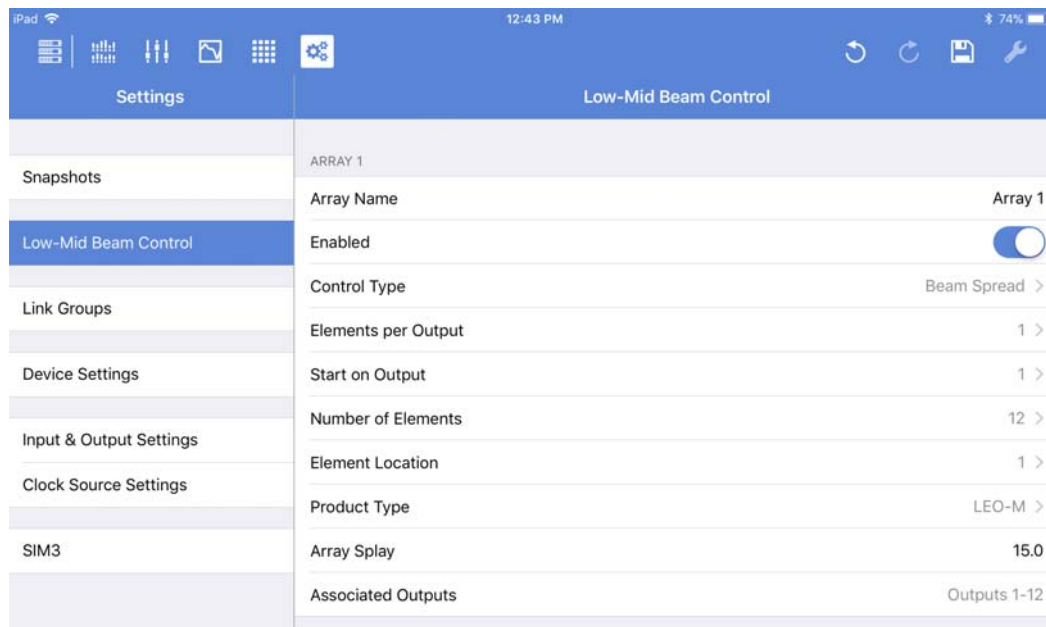


Figure 29: Low-Mid Beam Control tab

Low Mid Beam Control Settings

Array Name: Lets you assign a name to the array (Flown Loudspeaker System).

Enabled/Bypassed: This status button lets you enable or bypass LMBC for all affected channels (also available in Output Processing).

Control Type: The two options are **Beam Spread** and **Steer Up**.

Elements per Output: There can be one or two elements per output; this should match the physical connections in the array.

Start on Output: Selects the first output of the GALAXY processor where LMBC processing starts. Element 1 always starts at the top of the array.

Number of Elements: Sets the number of total elements in the array.

Element Location: Use this control when spanning multiple GALAXY processors if you have more than 16 elements that require more than 16 processor outputs.

For example, in an array with 22 elements, one element per output, and two processors:

1. Set the **Number of Elements** to 22 on both processors.
2. On the first processor, set **Start On Output** to 1, and set **Element Location** to 1.
3. On the second processor, set **Start On Output** to 1, and set **Element Location** to 17.

Product Type: Select the product type for this array from the list shown below:

Snapshots	<input checked="" type="checkbox"/> LEO-M
	LYON
Low-Mid Beam Control	LEOPARD
	LINA/MINA
Link Groups	MICA
	M'elodie
Device Settings	MILO
	M3D
Input & Output Settings	M2D
Clock Source Settings	
SIM3	

Figure 30: Product Types for LMBC

Array Splay: This is the sum total of the splay angles of the array.

To calculate **Array Splay** using the MAPP System Design Tool:

1. Subtract the **Rotation About Reference Point** value from the **Array Splay** value shown at the bottom element of the Flown Loudspeaker System.
2. Enter the result in the Compass or Compass Go **Array Splay** column.
3. Set the splay angle between the top grid and the first element to 0°.

For example: If the MAPP **Rotation About Reference Point** = -2 and **Array Splay** = -56, then the LMBC **Array Splay** = 54°.

Associated Outputs: This shows the device outputs in use with that LMBC array.

For example in Figure 29, the array starts on output 1, has 1 element per output, and 12 elements, so **Associated Outputs** is 1–12.



NOTE: If there is an error in the configuration, the **Associated Outputs** row turns red and its name changes to **Error**. A non-optimal configuration shows a warning in yellow.

Low Mid Beam Control Operational Tips

The following tips will help LMBC be more effective:

- Signal drive lines must have correct polarity.
- Apply LMBC before any other EQ.
- Gain Tapering can make LMBC ineffective.
- Do not treat array zones with different processing and/or gain below 1 kHz. For example, correct for low mid buildup with the same filters on the entire array, but correct for high frequency distance only above 1 kHz on individual zones.
- **Beam Spread** is not optimal above 95° **Array Splay**.
- **Steer Up** is not optimal above 45° **Array Splay**.
- One array element per output is optimal.
- Two array elements per output is maximum, and can only be used in an array with 12 or more elements.

- Compass Software is designed to prevent invalid or non-optimal configurations.
- LMBC is not designed to mix different product types in one array.
- Set all speakers of the same type to the same Delay Integration **pc** setting.
- When loudspeakers use separate outputs without LMBC, one all pass filter can be used to optimize alignment with the LMBC outputs.

LINK GROUPS

Link Groups let you control multiple Inputs or Outputs simultaneously with one control. There are four Input Link Groups, and eight Output Link Groups.

Tap **Link Group Name** to enter a name for the Input or Output Link Group.

Input Link Groups (1–4)

Enable each Input Link Group you wish to control by sliding its button (Group 1, Group 2, etc.) to the right (it turns green). Then enable the Inputs (A–H) to include in that Input Link Group.

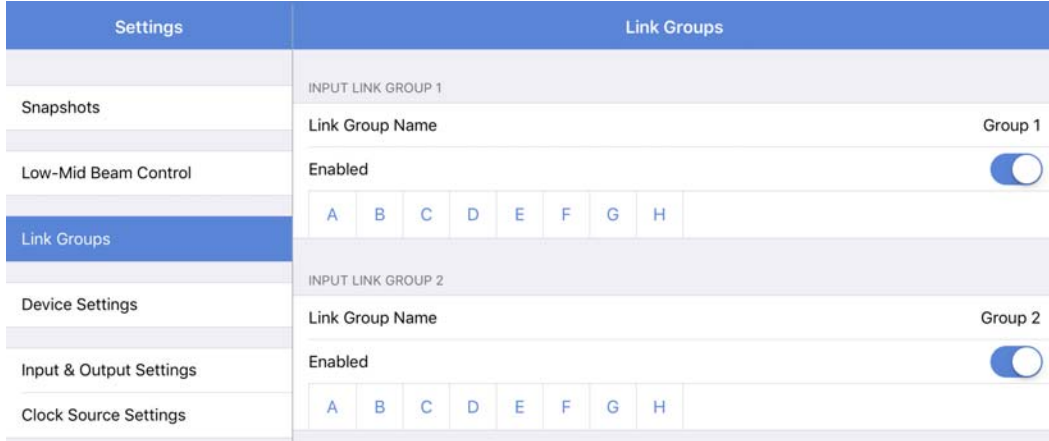


Figure 31: Link Groups tab showing Input Link Groups

Output Link Groups (1–8)

Enable each Output Link Group you wish to control by sliding its button (Group 1, Group 2, etc.) to the right (it turns green). Then enable the Outputs (1–16) to include in that Output Link Group.

Settings	Link Groups															
	OUTPUT LINK GROUP 1															
Snapshots	Link Group Name															Group 1
Low-Mid Beam Control	Enabled															<input checked="" type="checkbox"/>
Link Groups	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	OUTPUT LINK GROUP 2															
Device Settings	Link Group Name															Group 2
Input & Output Settings	Enabled															<input type="checkbox"/>
Clock Source Settings	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Figure 32: Link Groups tab with Output Link Groups

DEVICE SETTINGS

Settings	Device Settings
	NETWORK SETTINGS
Snapshots	Device Name GALAXY-1
Low-Mid Beam Control	Device Group Name
Link Groups	Device Type Galileo GALAXY 816
	Serial Number 1
Device Settings	Device Identify Enabled <input checked="" type="checkbox"/>
	GALAXY TIME
Input & Output Settings	GALAXY Time Not Available in Virtual GALAXY >
Clock Source Settings	
	ENVIRONMENT SETTINGS
SIM3	Temperature °Celsius 20.0 °C
	Temperature °Fahrenheit 68.0 °F
	Humidity 50%
	Altitude Below 800m/264ft >

Figure 33: Device Settings tab

Network Settings

These settings enable each device to uniquely identify itself on a network.

Device Name

Initially each Device receives an automatically generated name. To rename it, tap **Device Name** and use the onscreen keyboard.

Device Group Name

To assign a name to the Device Group, tap **Device Group Name** and use the onscreen keyboard.

Device Type and Serial Number

These parameters are set at the Factory in each device and cannot be edited. Together, they uniquely identify each device (regardless of the user-assigned **Device Name**).

Device Identity Enabled

Slide the button to the right to cause this GALAXY device to identify itself by winking its rear panel Wink LED button and front panel display.

GALAXY Time

The GALAXY Time can be edited using the fields shown by the figure below. Touch the date and time fields to set them manually.

Touch **Set GALAXY Time to Local Time** to set the time and date automatically.

Snapshots	GALAXY Time	Not Available in Virtual GALAXY		
Low-Mid Beam Control				
Link Groups				
Device Settings				
Input & Output Settings				
Clock Source Settings				

	Tue Feb 27	9	26	
	Wed Feb 28	10	27	
	Thu Mar 1	11	28	AM
	Today	12	29	PM
	Sat Mar 3	1	30	
	Sun Mar 4	2	31	
	Mon Mar 5	3	32	

	Set GALAXY Time to Local Time
--	-------------------------------

Figure 34: Setting the GALAXY Time

Environment Settings

These values are used by the atmospheric correction algorithm (if enabled) and should be set to match the current operating environment.

- Temperature Celsius
- Temperature Fahrenheit
- Humidity
- Altitude

INPUT AND OUTPUT SETTINGS

This section lets you specify the types of Inputs and Outputs you wish to use.

Settings	Input & Output Settings
	AVB OUTPUT SETTINGS
Snapshots	Default Presentation Time 2.000 ms
Low-Mid Beam Control	AVB CONTROLLER MODE
Link Groups	AVB Controller Mode Internal >
Device Settings	When set to "Internal", the GALAXY device will manage AVB connections to other devices. To connect an input to a remote source set the input's type to AVB and choose a channel from a remote entity in the AVB browser. When set to "External", you have to manage connections between this GALAXY and remote devices with an external AVB controller. To specify which input stream should be connected to an input, set the input's type to AVB and select the local input stream and channel. Then, use the external AVB controller to connect the remote device's output stream with the chosen input stream.
Input & Output Settings	
Clock Source Settings	INPUT CHANNEL TYPES
	A: Input A AES3 L (Connector A) > Sample Rate: 0 kHz, Clock Status: Not Available in Virtual GALAXY
SIM3	B: Input B AES3 R (Connector A) > Sample Rate: 0 kHz, Clock Status: Not Available in Virtual GALAXY

Figure 35: Input & Output Settings

Default Presentation Time

Devices using the AVB I/O network periodically exchange timing information that allows both sides to precisely synchronize their time base reference clocks. This exchange of timing information allows an AVB *listener* to calculate the worst-case network transit time per stream, which is expressed as **MSRP (Multiple Stream Reservation Protocol) Accumulated Latency**. A network with one switch hop will typically have a smaller measured MSRP latency than one with several switch hops.

The **Default Presentation Time** (shown in Figure 26) lets the user obtain the lowest latency for AVB output streams in a given network topology without losing any audio samples.

Consider the following before choosing a **Default Presentation Time** setting:

- The **MSRP Accumulated Latency** indicator displays the worst case transit time through the network.
- The **Presentation Time Offset** indicator is the maximum transit time handled by the AVB listener.
- The **Remaining Transit Time** indicator is the time remaining between the packet reception and presentation time at the output.
- Higher **Default Presentation Time** settings result in higher audio latency in the AVB streams.
- Using a lower **Default Presentation Time** setting than the **MSRP Accumulated Latency** will lose audio samples, resulting in lower quality audio. Therefore, always set the **Default Presentation Time** value higher than the MSRP. Include a margin of error to support possible changes to the network topology or bandwidth.



NOTE: The **Time Align with AVB** button applies an additional 0.5 ms to the timing of an analog or AES format selected input to synchronize an AVB stream with incoming audio *only if the **Default Presentation Time** is also set to 0.5 ms*. If the **Default Presentation Time** is not set to 0.5 ms, deselect the **Time Align with AVB** button, and add an appropriate Input delay value to the desired non-AVB inputs.

Input Channel Types

Input Types can be Analog, AES3, or AVB.

When the AES3 input and the GALAXY's sample rate are the same, you can disable **Enable Asynchronous Sample Rate Converter** to reduce the latency introduced by the clock recovery. When disabled, you must use another method to synchronize the AES3 input with the GALAXY's clock signal.

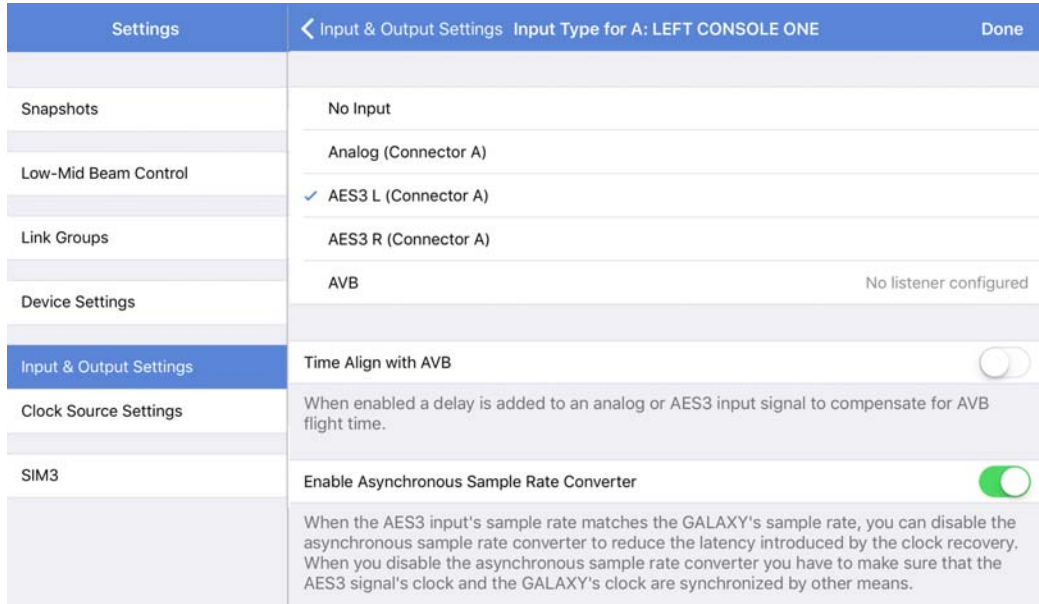


Figure 36: Input Channel Types

If **Time Align with AVB** is enabled, a delay is added to Analog or AES3 input signals to compensate for the flight time of the AVB signal.

AVB Controller Mode

An AVB Stream functions much like an analog multi-cable. Each stream can vary in number of channels and format, similar to AES3 and standard analog multi-cables. The difference is that many audio streams can flow down a single Ethernet cable.

Unlike traditional multi-cables, AVB streams do not stay connected when the audio devices are turned off. An AVB software controller creates and maintains these connections running on a computer attached to the network or inside one of the audio devices being controlled. An AVB controller in the audio device will maintain persistent connections and remake connections after power cycle or other interruptions like unplugging an Ethernet link.

Each GALAXY has a built-in AVB controller. If GALAXY B's inputs are subscribed to GALAXY A's outputs for the first time using Compass software, GALAXY B's AVB controller will attempt to remake that connection in case of any interruption.

GALAXY AVB streams are 24-bit/96 kHz 8-channel AM824 packet format. AM824 supports the transport of multi-channel 24-bit linear audio. Since GALAXY inputs can choose up to eight individual AVB channels from up to eight different streams, it is possible to send up to 8 eight-channel streams (64 channels) into the unit. However, only eight of them are available for input processing. There are 24 additional AVB inputs available into the Gain, Delay, and Router matrices without input processing (see figure below).

Clear Delay Matrix	1: LEFT	2: RIGHT	3: CENTER	4: SUB	5: Surr Left	6: Surr Right	7: Output 7	8: Output 8	9: Output 9	10: Output 10	11: Output 11	12: Output 12	13: Output 13	14: Output 14	15: Output 15	16: Output 16
A: LEFT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B: RIGHT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C: CENTER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D: SUB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E: Surr Left	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F: Surr Right	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G: Input G	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
H: Input H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9: Input 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10: Input 10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11: Input 11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12: Input 12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13: Input 13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14: Input 14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15: Input 15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16: Input 16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17: Input 17	3.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	3.00	0.00	0.00
18: Input 18	0.00	3.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19: Input 19	0.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20: Input 20	0.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21: Input 21	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.00	0.00	0.00
22: Input 22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00	0.00	0.00	3.00	0.00	6.00
23: Input 23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00
24: Input 24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00
25: Input 25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.00
26: Input 26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27: Input 27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28: Input 28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29: Input 29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30: Input 30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31: Input 31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32: Input 32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Figure 37: Expanded Matrix Inputs

GALAXY outputs use two AM824 formatted streams: Outputs 1–8 are available in the first 8-channel stream, outputs 9–16 are available in the second 8-channel stream. If no units have subscribed to these streams, the GALAXY will stop transmitting altogether. The analog outputs are always active.

Network digital source signals can be connected to the AVB/Network port connectors (labeled 1 and 2) on the GALAXY rear panel. Standard AM824 eight-channel AVB streams are supported (24 bit, 48/96 kHz). The AVB Controller Mode can be set to External or Internal.

Internal AVB Controller Mode

Internal mode is used to make AVB connections between available Meyer Sound GALAXY outputs and the current GALAXY's inputs. GALAXY manages the AVB connections to other devices.

External AVB Controller Mode

External mode is specific to third-party AVB controllers. The AVB connection browser shows the available streams and channels only. Once selected, where they are used is clearly indicated.



NOTE: External Controller Mode does not show GALAXY Device Groups. Available channels from selected GALAXY streams will populate the AVB Browser when an appropriate sink is selected from the Streams list. The selected channels and streams indicate their assignments when selections are completed.

Outputs from available AVB devices populate the AVB connection browser using standard terminology (Sink-1, Sink-2, etc.). You can connect (and disconnect) Sinks to GALAXY (listener) Inputs. If there are any connections, the output displays where it is used below the input number. To disconnect that input from the AVB output, press the **Delete Connection** button.

You must manage the AVB connections between this GALAXY and remote devices with an external AVB controller.

Making AVB Connections

Outputs from available GALAXY devices populate the AVB connection browser when that device is selected from the available Device Group (listed below as *Entities*.) The Device Group label is displayed above the available devices in that group. Use the AVB connection browser to connect and disconnect configurations. If there are connections present, the output displays where it is used next to the output index number. To disconnect that input from the AVB output, press the **Delete Connection** button.

The following figures illustrate making a typical AVB connection. Note that these Device Names and Groups are part of an example configuration.

1. Select the **Input & Output Settings** tab from the left side of the Settings Page.

This tab lets you select your input channel types, **Input & Output Voltage Range** (not shown below but part of the **Input & Output Settings** tab), AVB controller mode, and view output channel types.

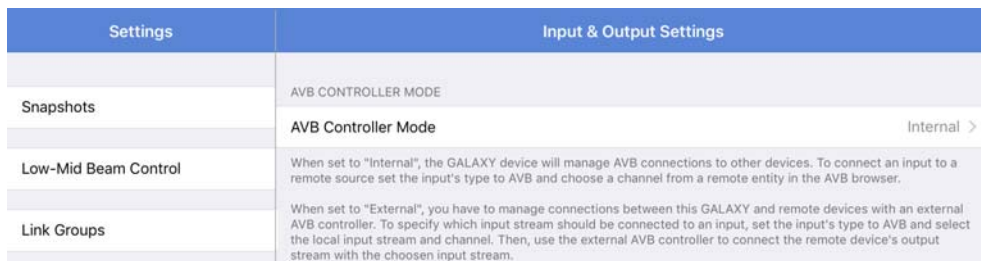


Figure 38: AVB Controller Mode field in the Input & Output Settings tab

2. Tap to the right of **AVB Controller Mode** field (on **Internal** in Figure 38).

The AVB Controller Mode screen appears.

3. Select **Internal**.

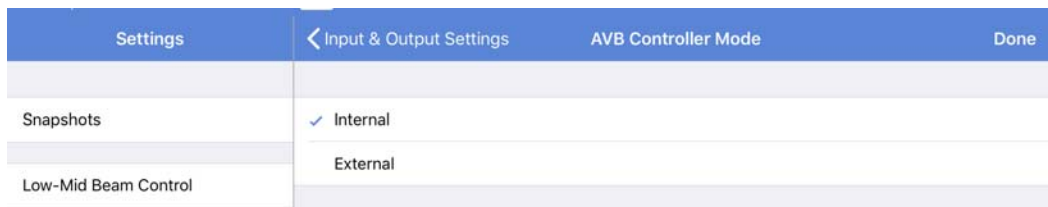


Figure 39: Selecting Internal AVB Controller Mode

4. Select available AVB Entities and Channels.

Cancel	Entities	Select AVB Channel for A: RIGHT MAIN	Done
	LYON	OUTPUT STREAM: OUTPUTS 1-8 (STREAM FORMAT: IEC 61883-6 AMB24 96 KHZ 8 DATA BLOCKS NON-BLOCKING 8 MBLA)	
	FOH MAIN AES	<input checked="" type="checkbox"/> FOH MAIN A Output Index 0, in use by Input A	
	<input checked="" type="checkbox"/> Saturn Distro	FOH MAIN B Output Index 1, in use by Input B	
		FOH MAIN C Output Index 2, in use by Input C	
		FOH MAIN D Output Index 3, in use by Input D	
		FOH MAIN E Output Index 4, in use by Input E	

Figure 40: Selecting AVB Entities and Channels

The figure below shows the results of using the **Internal AVB Controller Mode** to make Input channel assignments.

	AVB CONTROLLER MODE
Snapshots	AVB Controller Mode Internal >
Low-Mid Beam Control	When set to "Internal", the GALAXY device will manage AVB connections to other devices. To connect an input to a remote source set the input's type to AVB and choose a channel from a remote entity in the AVB browser.
Link Groups	When set to "External", you have to manage connections between this GALAXY and remote devices with an external AVB controller. To specify which input stream should be connected to an input, set the input's type to AVB and select the local input stream and channel. Then, use the external AVB controller to connect the remote device's output stream with the chosen input stream.
Device Settings	INPUT CHANNEL TYPES
Input & Output Settings	A: RIGHT MAIN Connected Talker: LYON.Saturn Distro.Outputs 1-8.FOH MAIN A Listener: Sink-1.Input 1 Sample Rate: 96 kHz, Clock Status: Locked AVB >
Clock Source Settings	B: RIGHT LFC Connected Talker: LYON.Saturn Distro.Outputs 1-8.FOH MAIN B Listener: Sink-1.Input 2 Sample Rate: 96 kHz, Clock Status: Locked AVB >
SIM3	C: RIGHT OUT FILL Connected Talker: LYON.Saturn Distro.Outputs 1-8.FOH MAIN C Listener: Sink-1.Input 3 Sample Rate: 96 kHz, Clock Status: Locked AVB >
	D: RIGHT SPOT FILL Connected Talker: LYON.Saturn Distro.Outputs 1-8.FOH MAIN D Listener: Sink-1.Input 4 Sample Rate: 96 kHz, Clock Status: Locked AVB >
	E: CENTER Connected Talker: LYON.Saturn Distro.Outputs 1-8.FOH MAIN E Listener: Sink-1.Input 5 Sample Rate: 96 kHz, Clock Status: Locked AVB >

Figure 41: Input Channel assignments using the Internal AVB Controller Mode

The figure below shows the Device Group, Device, available Stream, and Channel (to the right of the selected AVB) for a configuration using the Internal AVB Controller Mode.

Settings	< Input & Output Settings	Input Type for A: RIGHT MAIN	Done
Snapshots	No Input		
Low-Mid Beam Control	Analog (Connector A)		
Link Groups	AES3 L (Connector A)		
Device Settings	AES3 R (Connector A)		
Input & Output Settings	<input checked="" type="checkbox"/> AVB	LYON.Saturn Distro.Outputs 1-8.FOH MAIN A	

Figure 42: Results of an Internal AVB Controller Mode configuration

The figure below shows Outputs that have not yet been connected.

LYON	OUTPUT STREAM: OUTPUTS 1-8 (STREAM FORMAT: IEC 61883-6 AM824 96 KHZ 8 DATA BLOCKS NON-BLOCKING 8 MBLA)
<input checked="" type="checkbox"/> FOH MAIN AES	Output 1 Output Index 0
Saturn Distro	Output 2 Output Index 1
	Output 3 Output Index 2
	Output 4 Output Index 3
	Output 5 Output Index 4
	Output 6 Output Index 5
	Output 7 Output Index 6
	Output 8 Output Index 7

Figure 43: Outputs not yet connected

The figure below shows a completed AVB connection.

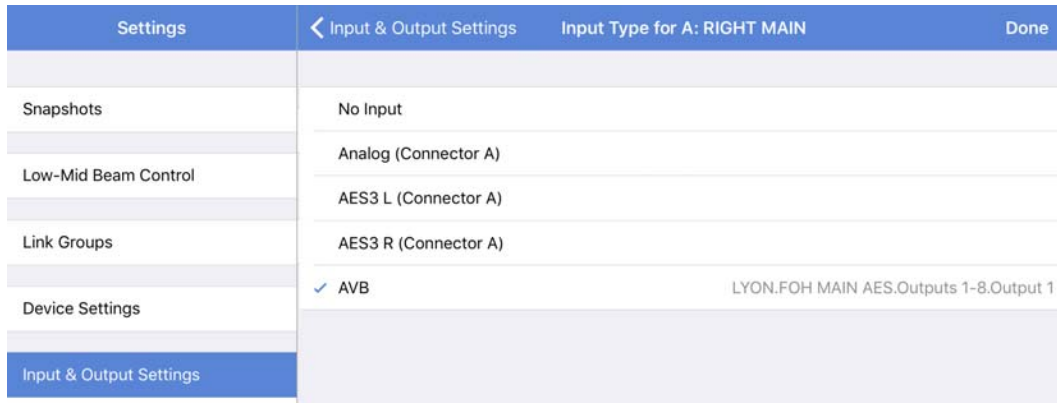


Figure 44: Verifying the completed AVB connection

Input and Output Voltage Range

The Input & Output Voltage Range can be set to +26 dBu or +16 dBu. To toggle the voltage range, tap the current value, select the other setting, and tap Done.

Settings	Input & Output Settings	
Snapshots	6: Output 6	Analog, AVB
	7: Output 7	Analog, AVB
Low-Mid Beam Control	8: Output 8	Analog, AVB
	9: Output 9	AVB
Link Groups	10: Output 10	AVB
	11: Output 11	AVB
Device Settings	12: Output 12	AVB
	13: Output 13	AVB
Input & Output Settings	14: Output 14	AVB
	15: Output 15	AVB
Clock Source Settings	16: Output 16	AVB
SIM3		
	VOLTAGE RANGE	
	Input & Output Voltage Range	+26 dBu >

Figure 45: Input & Output Voltage Range

Figure 45 shows that **AVB** and **Analog** are available as channel types for Outputs 1–8 but only **AVB** is available for Outputs 9–16.

CLOCK SOURCE SETTINGS

These settings control how this device is synchronized within its system.

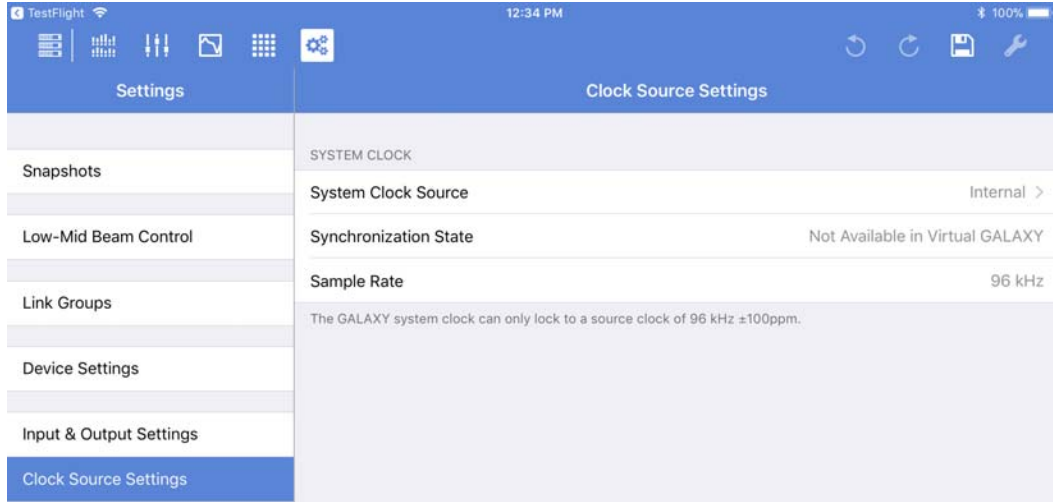


Figure 46: Clock Source Settings tab

System Clock Source

The **System Clock Source** can be set to **Internal**, **AES3**, **AVB** (if AVB connections have been established), or **Word Clock (BNC)**,

Settings	< Clock Source Settings	System Clock Source
		INTERNAL
Snapshots		✓ Internal
		AES3
Low-Mid Beam Control		Input A
		Input B
Link Groups		WORD CLOCK (BNC)
Device Settings		Word Clock (BNC)
Input & Output Settings		
Clock Source Settings		

Figure 47: System Clock Source Settings

If using **AES3**:

- Specify which Input to use as the **System Clock Source**.
- The input and output system clocks may be different.



NOTE: If each device uses its own internal clock source, they will not stay synchronized.

Synchronization State

This field shows the status of the **System Clock Source** assignment: locked, unlocked, or no signal.

Sample Rate

Sample Rate is set globally for the system and cannot be changed here.

GALAXY accepts a wide range of sample rates for both AVB and AES inputs. (see below).

Accepted Input sample rates and bit depth based on format

Format	Input Sample Rates Accepted (kHz)	Bit Depth
AES3	20 – 216	up to 24 bit
AVB	48 or 96	24 bit

If an AES3 or Word Clock input is selected as the AES output clock source (GALAXY 816-AES3 unit only), then the following sample rates may be used:

- 44.1 kHz
- 48.0 kHz
- 88.2 kHz
- 96.0 kHz
- 176.4 kHz
- 192.0 kHz

AES3 Output Clock

This setting controls the synchronization of AES3 outputs.

AES3 Output Clock Source

The AES3 Output Clock Source can be set to **System Clock**, **AES3**, or **Word Clock (BNC)**. If using **AES3**, specify which Input to use as the Clock Source.

Settings	< Clock Source Settings	AES3 Output Clock Source	Done
		SYSTEM CLOCK	
Snapshots		✓ System Clock	
		AES3	
Link Groups		Input A	
Device Settings		Input B	
Input & Output Settings		WORD CLOCK (BNC)	
Clock Source Settings		Word Clock (BNC)	

Figure 48: Setting the AES3 Output Clock Source

Synchronization State

This field shows the status of the **System Clock** assignment: locked, unlocked, or no signal.

Sample Rate

Sample Rate is set elsewhere and cannot be changed here.

Enable AES3 Output Asynchronous Sample Rate Converter

Slide the button to the right to enable the **AES3 Output Asynchronous Sample Rate Converter**.

SIM3

The Meyer Sound SIM3 Measurement and Correction System can be interfaced with GALAXY devices.

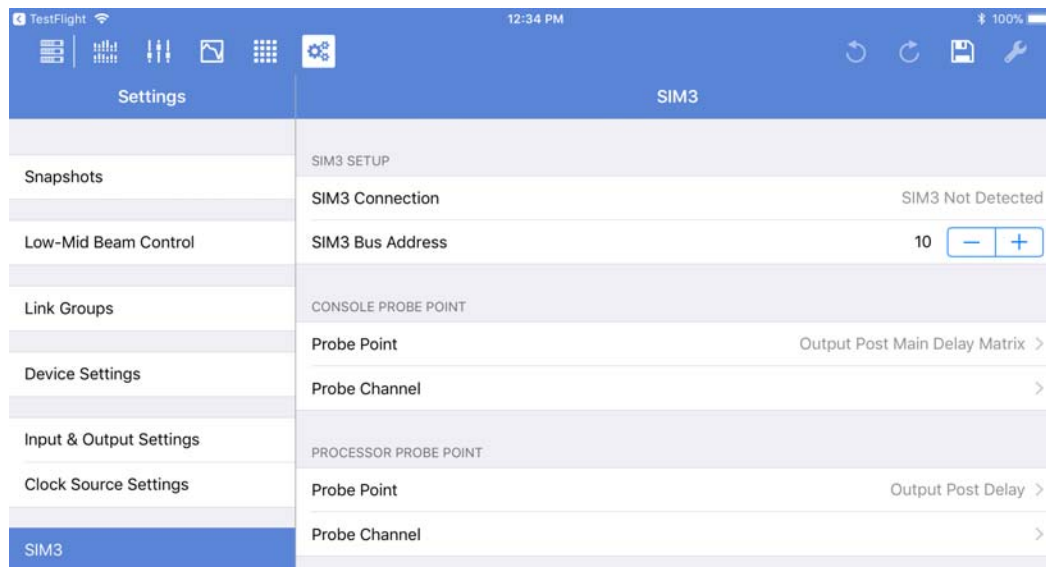



Figure 49: SIM3 options

SIM3 Setup

Consult the SIM3 machine to determine its Bus address. In Compass Go, enter it in the **SIM3 Bus Address** field using the +/- buttons.

The **SIM3 Connection** field should now display **SIM3 Detected**.

 **NOTE:** SIM3 can also be interfaced using the AVB network. Contact Meyer Sound Technical Support for help with SIM3 (page 12).

Console and Processor Probe Point and Channel

The **Console Probe Point**, **Console Probe Channel**, **Processor Probe Point**, and **Processor Probe Channel** can be set to the following options:

- Input Post Source Select
- Input Post Processing
- Output Post Main Delay Matrix
- Output Post Delay
- Output Post Processing

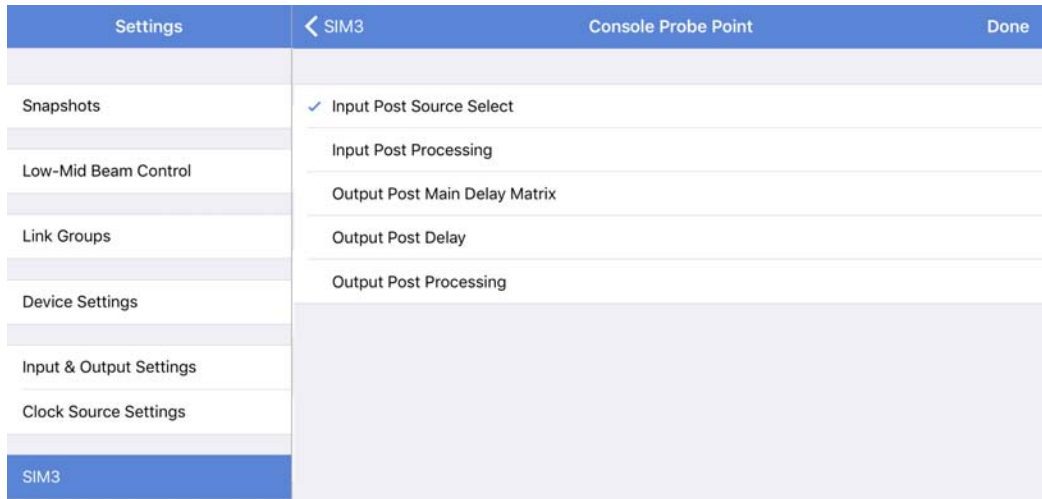


Figure 50: SIM3 Console and Processor Probe options

GLOBAL CONTROLS

The Global Controls are at the top-right of each page.

Tools

The wrench icon accesses the Tools options, which differ for each page. See the end of the Overview, I/O, EQ, and Matrix Page sections for details. Note that the Tools icon is dim and not available from the Settings Page.

Disk

The disk icon opens a dialog to update, create, and recall Snapshots.

1. Tap the disk icon to open the following dialog:

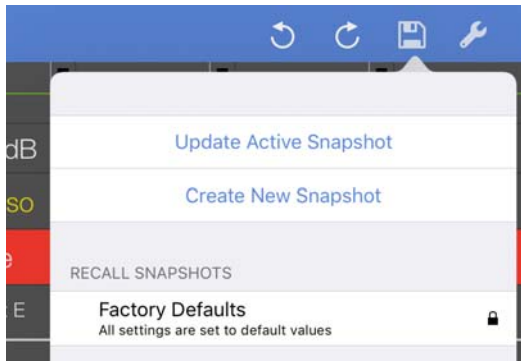


Figure 51: Disk icon with Snapshot options

2. Do one of the following:

Tap **Update Active Snapshot** to update the current Snapshot.

- OR -

Tap **Create New Snapshot** to create and name a new Snapshot.

- OR -

Tap a Snapshot in the **RECALL SNAPSHOTS** column to restore its saved settings.


Undo/Redo Editing

The most recent editing operation can be undone/redone with the standard circular controls.

CHAPTER 7: CUSTOM LAYOUTS

Custom Layouts let you use a single control to adjust settings on multiple Galileo, Galileo GALAXY, and Galileo Callisto devices. Custom Layouts can be spread across multiple pages and can include background images. Pages can be reordered and deleted.

Users with an iPad Pro can take advantage of the larger screen size by setting the **Canvas Size** to **Large Canvas** from the Tools menu (**Small Canvas** is the default setting).

 **NOTE:** Setting a normal iPad to **Large Canvas** makes part of the screen not visible. Tap and drag to scroll the screen to see the extra screen space.

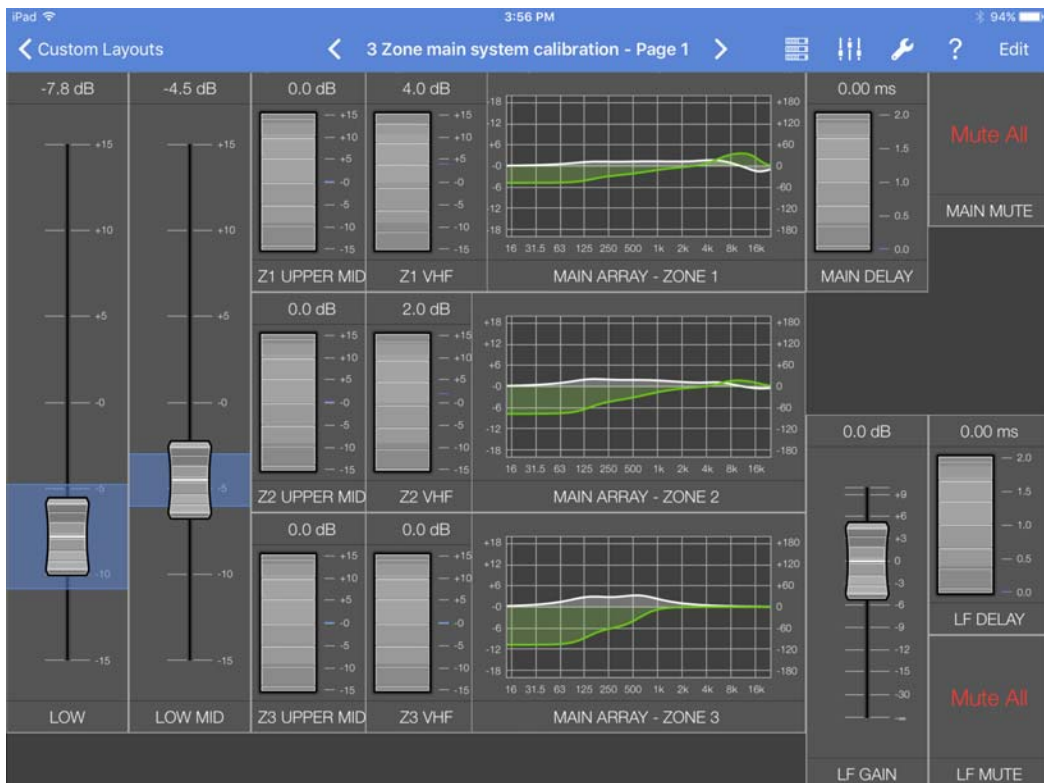


Figure 52: Custom Layouts page

CREATING A CUSTOM LAYOUT

To create a Custom Layout:

1. Tap **Custom Layouts** on the Devices page.
2. Tap **Add Custom Layout**.

A blank Custom Layout appears along with a keyboard to name it.

3. Name the Custom Layout.

ADDING A DEVICE TO A CUSTOM LAYOUT

1. Tap the Devices Icon from the top-right of your Custom Layout.
2. Tap **Add Device**.

The **Add Device** dialog appears.

3. Tap in the **Device Name** field and use the keyboard to assign a unique name so it is easy to identify.
4. Tap **Device Type** and choose from the corresponding Galileo, Galileo Callisto, or Galileo GALAXY types to match device in use.
5. Enable **Device Auto Mapping** by moving the switch to the right so it lights green.

Compass Go will automatically map this device next time the app is launched.

6. Tap the Devices Icon and select the devices to include in your Custom Layout.

Devices on the network are listed. A red dot to the left of the device shows it is not yet mapped. A yellow triangle shows it is mapped but disconnected.

7. If a device has a red dot, tap **Map Devices**.

The **Map Devices** dialog opens showing Devices already in this Custom Layout on the left and **Discovered Devices** on the right. Lines between the columns indicate valid mappings.

8. Tap a Device in either column that you wish to map.

Note that only the same Device Types can be mapped to each other; incompatible device types are grayed out in each column.

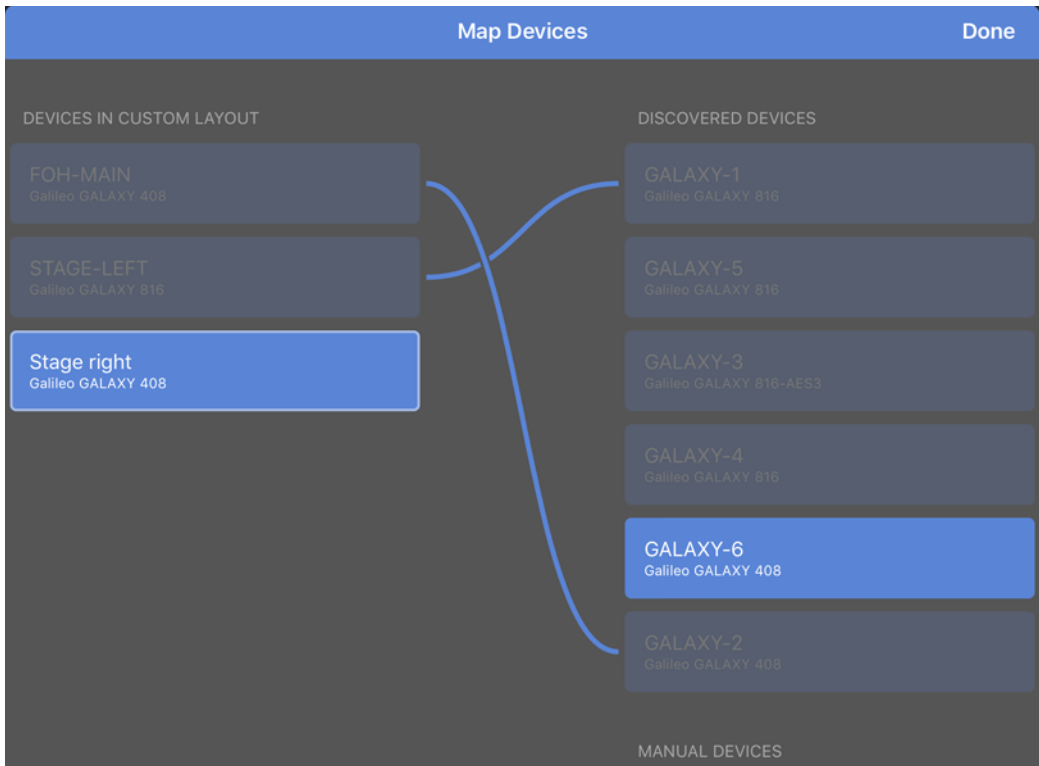


Figure 53: Devices valid for mapping

9. Tap the corresponding Device (in the other column) that you wish to connect to.

A line between the Devices shows the mapping was successful.

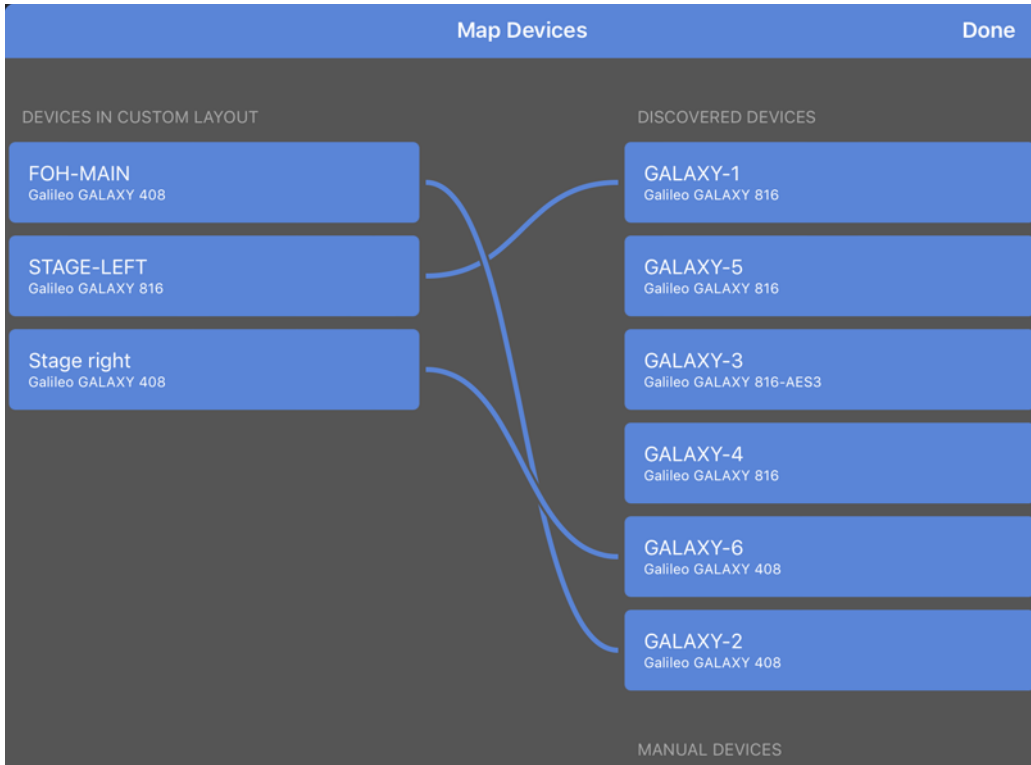


Figure 54: Devices successfully mapped

10. To unmap a mapped Device, tap the Device in either column, then tap the X that appears in the center of the line connecting them.

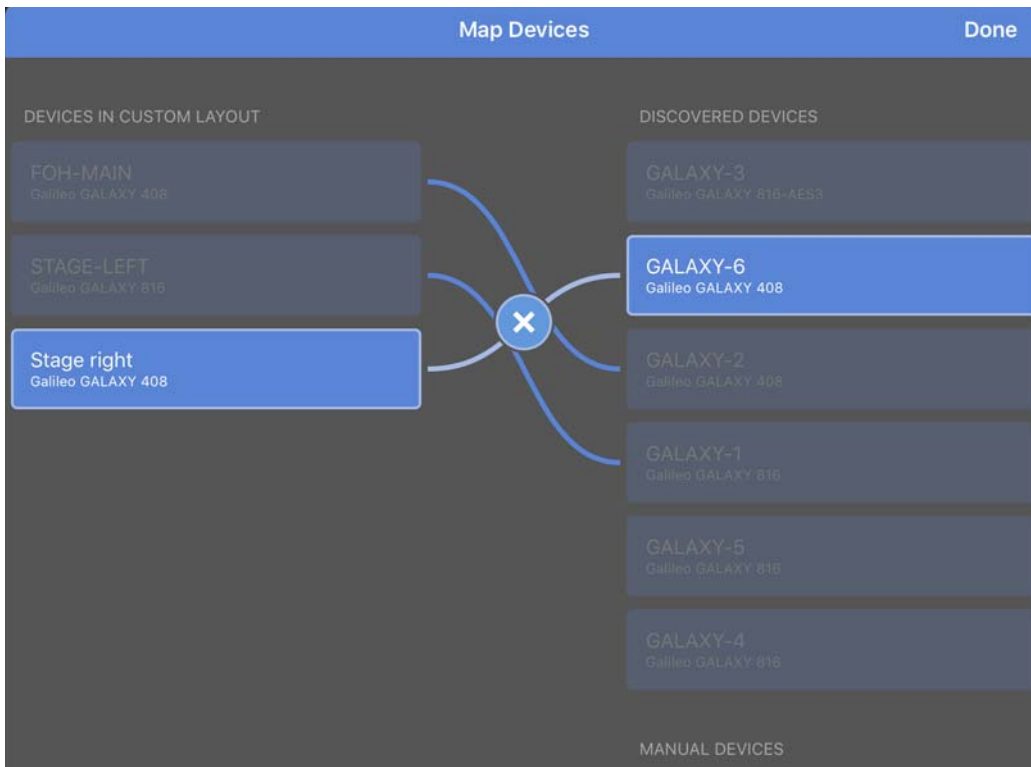


Figure 55: Devices being unmapped

11. Map each Device.

In the Devices menu, all Devices should have a green circle on their left.


Select a mapped Device to disconnect it but leave it mapped (yellow triangle).

ADDING CONTROLS TO A CUSTOM LAYOUT

Fader

To add a Fader to your Custom Layout that controls the gain of selected output channels:

1. Tap the I/O Icon in the menu bar, and select **Fader**.
The Fader dialog opens.
2. Tap in the **Control Label** field and assign a name.
3. Tap in the **Control Point Type** field and select **Gain**.
4. Tap **Channel Type** and select **Output**.
5. Tap in the **Channel Assignments** section to select the Output channel(s) to control.

 **TIP:** Most controllers attempt to preserve the relative values of the multiple parameters they adjust if they differ. A blue band appears on the controller if this is the case.

Rotary

To add a Rotary control to your Custom Layout that adjusts the delay of selected output channels:

1. Tap the I/O Icon in the menu bar, and select **Rotary**.
The Rotary dialog opens.
2. Tap in the **Control Label** field and assign a name.
3. Tap in the **Control Point Type** field and select **Delay**.
4. Tap **Channel Type** and select **Output**.
5. Tap to select the Output channel(s) from the **Channel Assignments** section.

Wheel

To add a Wheel to your Custom Layout that controls the gain of a parametric EQ band:

1. Tap the I/O Icon in the menu bar, and select **Wheel**.

The Wheel dialog opens.

2. Tap in the **Control Label** field and assign a name.
3. Tap in the **Control Point Type** field and select **Parametric EQ**.
4. Tap **Channel Type** and select **Output**.
5. Tap **Parametric EQ Attribute** and select **Gain**.
6. Select a parametric **Band**.

If a **Band** greater than five is selected for an Output, only Callisto 616s are available as they have 10 bands of filters.

If **Input** is the selected **Channel Type**, Callisto 616s are not available as they do not have parametric EQs on their inputs.

7. Tap to select the Output channel(s) from the **Channel Assignments** section.

Mute Button

To add a Mute Button to your Custom Layout:

1. Tap the I/O Icon in the menu bar, and select **Mute Button**.

The Mute Button dialog opens.

2. Tap in the **Control Label** field and assign a name.

The **Control Point Type** field is automatically set to **Mute**.

3. Tap **Channel Type** and select **Output**.
4. Tap to select the Output channel(s) from the **Channel Assignments** section.

If Mute states differ among controlled channels, the label on the control changes from **Mute All** (or **Unmute All**) to **Mute/Unmute**. When tapped, a dialog appears with the following choices: **Mute All**, **Unmute All**, **Toggle All**, and **Cancel**.

Snapshot Recall

To add a Snapshot control to your Custom Layout:

1. Tap the I/O Icon in the menu bar, and select **Snapshot Recall**.
2. Tap in the **Control Label** field and assign a name.
3. Tap the +/- controls to set the **Snapshot ID** to use for each device.

When the Snapshot control is tapped, the selected Snapshots are recalled into their respective devices.

Meter

To add a Meter to your Custom Layout for an Input Channel:

1. Tap the I/O Icon in the menu bar, and select **Meter**.
The Meter dialog opens.
2. Tap in the **Control Label** field and assign a name.
The **Control Point Type** field is automatically set to **Meter**.
3. Tap **Channel Type** and select **Input**.
4. Tap to select an Input channel from the **Channel Assignments** section.

Response Curve

To add a Response Curve to your Custom Layout for an Input Channel:

1. Tap the I/O Icon in menu bar, and select **Response Curve**.
The Response Curve dialog opens.
2. Tap in the **Control Label** field and assign a name.
The **Control Point Type** field is automatically set to **Response Curve**.
3. Tap **Channel Type** and select **Input**.
4. Tap to select an Input channel from the **Channel Assignments** section.

Background Image

Background images add context to a Custom Layout, making it easier to find and use controls.

To add a Background Image to your Custom Layout:

1. Tap the I/O Icon in menu bar, and select **Background Image** (from the Miscellaneous section).

The Photos dialog from your iPad opens.

2. Tap the folder containing your background image and select it.

The image appears as a background in your Custom Layout.

Background Images can be resized and moved when a Custom Layout is in Edit Mode.

To resize the background image:

1. From your Custom Layout page, tap **Edit** in the top-right of the menu bar.
2. To resize the image, use two fingers to pinch inward or expand outward to shrink or enlarge the image, respectively.
3. To move the image, tap it with two fingers and drag to the desired location.
4. Tap **Done** when finished.

Label

Labels add context to a Custom Layout, making it easier to remember how to use the controls.

To add a Label to your Custom Layout:

1. Tap the I/O Icon in the menu bar, and select **Label** (from the Miscellaneous section).

The Label dialog appears.

2. Tap to assign a name using the onscreen keyboard then tap **Done**.

The new Label appears in your Custom Layout.

To delete a Label from your Custom Layout:

1. From the Custom Layout containing the Label, tap **Edit**.
2. Edit handles now surround all controls and Labels on the Custom Layout.
3. Tap a Label.

The Label dialog appears.

4. Tap **Delete Label**.

Tapping the Label name also lets you rename the Label instead of deleting it.

EDITING CONTROLS IN A CUSTOM LAYOUT

Any control that appears in a Custom Layout can be cut, copied, deleted, and pasted within that Custom Layout, but you cannot edit between two Custom Layouts.

To use editing commands on controls within a Custom Layout:

1. Tap **Edit** on the upper-right of the menu bar.
Editing handles appear surrounding each control.
2. Tap and hold a control until you see **Cut Control**, **Copy Control**, **Paste Control**, **Delete Control** appear on top of it.
3. Touch to select **Cut Control**, **Copy Control**, or **Delete Control**.
4. With a control copied to the clipboard, tap and hold a blank area of the Custom Layout until you see **Paste Control** appear.
5. Touch **Paste Control** to paste the copied control onto that area.

Each editing command behaves as follows:

- **Cut** copies the control into the Custom Layout's clipboard, then deletes that control from the page. **Paste** is now active.
- **Copy** copies the control into the Custom Layout's clipboard. **Paste** is now active,
- **Paste** inserts the copied control into the current Custom Layout page. The clipboard retains its contents for repeated **Paste** commands.
- **Delete** removes the control from the page without copying it to the clipboard. Note that a previous **Copy** command may still reside in the clipboard.

SELECTING A NEW CUSTOM LAYOUT

To select a new Custom Layout:

1. Navigate to the Compass Go Custom Layouts Library.
2. Tap a Custom Layout.

The new Custom Layout will automatically load.

MOVING AND RESIZING CONTROLS IN A CUSTOM LAYOUT

To move and resize controls in your Custom Layout:

1. From your Custom Layout page, tap **Edit** in the top-right of the menu bar.

Note that each control is surrounded by editing handles.

2. Tap and drag within the control to move it.
3. Tap and drag an editing handle to resize it.
4. Tap **Done** when finished.

MANAGING PAGES IN CUSTOM LAYOUTS

Pages can be added, deleted, and reordered.

Adding a Page

To add a page to your Custom Layout:

1. In your Custom Layout (any page), tap the title at the top.
The Custom Layout Pages dialog opens showing the current pages.
2. Tap **Add Page**.
A blank page is added at the end of your current page list.

Deleting a Page

To delete a page from your Custom Layout:

1. In your Custom Layout (any page), tap the title at the top.
The Custom Layout Pages dialog opens showing the current pages.
2. Swipe the desired page left.
A red **Delete** button appears at the right of the dialog.
3. Tap the **Delete** button to delete the page.

Reordering a Page

To reorder pages in your Custom Layout:

1. In your Custom Layout (any page), tap the title at the top.
The Custom Layout Pages dialog opens showing the current pages.
2. Tap and hold a page you wish to reorder.
A shadow appears around the outside of the page's rectangle when it is selected.
3. Drag the page to its new location and release your finger.

STORING AND SHARING CUSTOM LAYOUTS

To store or share Custom Layouts:

1. From the Custom Layouts Library page, tap **Edit** in the top-right of the menu bar.
All Custom Layouts appear with a selection circle to the left of each, and three horizontal bars to the right.
2. Tap anywhere (except on the three bars) to select the Custom Layouts to share or store.
Selected Custom Layouts display a check mark to their left.
3. Tap the Upload Icon in the top-right of the menu bar.
Choose **Share** or **Save to iTunes**.
4. To reorder the Custom Layouts in your Library, tap and hold the three bars at the far-right of a Custom Layout until a rectangular shadow appears, then drag it to a new location.

To share Custom Layouts:

1. Select **Share** and name the uploaded file.
2. Choose an available sharing method from the options presented (i.e., Message, Mail, DropBox, etc.).

To save Custom Layouts to iTunes:

3. Choose **Save to iTunes**.
4. Name the saved file.



TIP: All Custom Layouts are saved in one file with a .cgocl extension regardless of the number included.

ACCESSING CUSTOM LAYOUTS IN iTunes

To access Custom Layouts in iTunes:

1. Tap the iPad icon at the top-left of the iTunes window, then tap **Apps** from the **Settings** column.
2. Scroll down to the File Sharing section and tap **Compass Go**.

A list of stored Custom Layout files appears in the **Compass Go Documents** section with a **.cgocl** extension.

IMPORTING CUSTOM LAYOUTS FROM iTunes

To import Custom Layouts from iTunes:

1. In the Compass Go Custom Layouts Library, tap **Edit** in the top-right of the menu bar.
2. Drag the gray bar down below the title **Custom Layouts**.

All saved Custom Layouts populate within the Library.



NOTE: Custom Layouts saved to iTunes will repopulate within the library every time a drag down action is performed if the file is saved to iTunes.

DELETING CUSTOM LAYOUTS

To delete Custom Layouts, do either of the following:

1. In the Compass Go Custom Layouts Library, tap **Edit** in the top-right of the menu bar.
2. Tap to select the Custom Layouts you wish to delete.

A check mark appears beside selected Custom Layouts.

3. Tap the Trash icon.
4. Tap **Done** when finished.

- OR -

1. In the Compass Go Custom Layouts Library, swipe the Custom Layout you wish to delete to the left (do not tap **Edit** first).

A red **Delete** rectangle appears at the far right of the selected Custom Layout.

2. Tap **Delete** to confirm you wish to delete that Custom Layout.



Meyer Sound Laboratories Inc.
2832 San Pablo Ave.
Berkeley, CA 94702

www.meyersound.com
T: +1 510 486.1166
F: +1 510 486.8356

© 2018
Meyer Sound. All rights reserved.
Compass Go User Guide Version 2.3.2, PN 05.141.142.02 A