Lake Contour Designer Mode Manual

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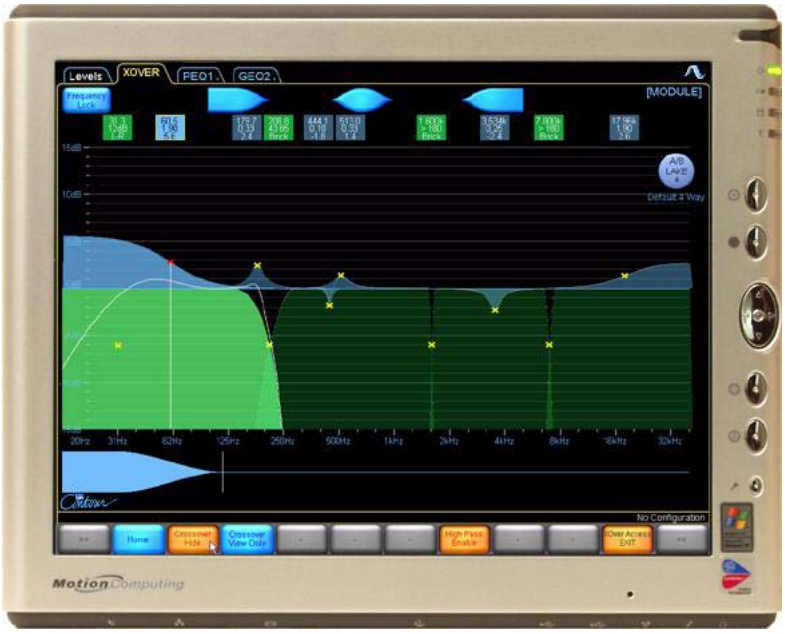

www.contour.lake.com

Important Safety Instructions and Warnings

Standards Compliance

This product has been certified to comply with:

- **Safety** UL6500, EN 60065, CB scheme.
- **EMC** FCC part 15 Class A

And carries the CSA mark and FCC required marking.

NOTE: *This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.*

Explanation of Symbols

These symbols are internationally accepted symbols that warn of potential hazards with electrical products.

The lightning flash in an equilateral triangle alerts the user to the presence of uninsulated “dangerous voltage” within the product enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

The exclamation mark in an equilateral triangle alerts the user to the presence of important safety, operating or maintenance (servicing) instructions in the literature accompanying the appliance.

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. **WARNING!** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
7. Clean only with dry cloth.
8. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
9. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
10. **Warning!** This is a Class 1 device. The electrical safety design of Class 1 devices depends on proper grounding. To maintain electrical safety ensure that a grounded mains lead is used and that it is properly connected to a grounded mains wall outlet.
11. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
12. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
13. Only use attachments/accessories specified by the manufacturer.
14. Unplug this apparatus during lightning storms or when unused for long periods of time.
15. **WARNING!** Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
16. **WARNING!** To reduce the risk of electric shock, DO NOT REMOVE COVER. No user serviceable parts inside.

Table of Contents

Chapter 1: Introduction to Designer Mode

The Lake Contour Controller software provides two modes of operation: User and Designer Mode. This manual describes the Designer Mode and should be used in conjunction with the *Lake Contour User Mode Manual*.

The important functions that Designer Mode activates include:

- Global Access Security
- Overlay Access Security
- Level Limits
- Factory Settings
- Password Protection of Modules and Base Configurations

This document provides detailed descriptions of these functions. An example system design illustrates the utility of Designer Mode functions. A quick reference guide provides a high level overview of Designer Mode functions.

We recommend reading the *Lake Contour User Mode Manual* before reading this document.

1.1 Security Levels

Designer Mode provides three levels of password-protected security that can be applied to a Contour system configuration.

1.1.1 Global

At the Global level, a simple selection makes system-wide changes that affect what can be seen or adjusted in User Mode. A system designer can choose to hide any combination of EQ Overlays, Crossover tabs, levels, and meters. These items can also be set to *View Only*, allowing a User Mode operator to view, but not change the specified item.

NOTE: *Global settings are saved in the system configuration file.*

1.1.2 Module

Individual EQ Overlays and Crossover tabs can be hidden or set to *View Only*. Additional settings normally invisible in User Mode can also be adjusted and hidden at Module level.

At the Module level, changes are specific to individual Modules and Groups. Discrete password protection can be applied to Modules, providing an additional level of security.

1.1.3 Base Configuration

Base Configuration is the lowest level of security, enabling the system designer to define an underlying base EQ curve and crossover settings along with factory levels and level limits. A system designer can restrict what can be seen or adjusted and provide optional password protection to the underlying settings.

1.2 Designer Mode

The functions available in Designer Mode can be used with or without password protection. By default, the Designer Mode password is empty, allowing unprotected access to Designer Mode in a new installation of the Contour Controller software.

To access Designer Mode:

1. From the Home level, tap **User Preferences**.
2. Tap **Designer Mode**.

Additional buttons on the button bar become active, providing functions specific to Designer Mode as shown in Figure 1-1.

Figure 1-1

1.2.1 Password Protection of Designer Mode

Each software installation has one Designer Mode password. This password is stored on the host computer and is relevant for any system configuration.

To password-protect Designer Mode:

1. Tap the **Change Password** button.
2. Enter a password and tap **OK**.
3. Confirm the password and tap **OK**.

It is important that you record the Designer Mode password in a safe place. Once the password is set, it will always be required to enter Designer Mode.

1.2.2 Simple Designer Mode System Security

If multiple levels of security are not required for your Contour Controller installation, exiting Designer Mode activates all security features described in this document without needing to lock or password-protect individual Modules or Base Configuration files.

1.3 Designing and Protecting a Contour System

This section discusses how to use Designer Mode to protect your system by developing an example system with one hardware processor. The example includes explicit instructions to define a Base Configuration, lock individual Module level settings, and enforce Global security.

NOTE: *You must have properly networked the Contour Processor and the Contour Controller host computer. Refer to the Lake Contour User Mode Manual if you have not completed this yet.*

1.3.1 System Setup for Designer Mode Tutorial

Follow the steps below to prepare for the tutorial:

Access Designer Mode:

1. Double Tap the Contour Controller icon to open the software.
2. Tap **No** when asked whether to *recall last configuration.*
3. If a keyboard appears requesting a password, enter your Designer Mode password and go to step 6. Otherwise, tap **User Preferences**.
4. If the **Designer Mode** button is blue, tap **Designer Mode** and enter your Designer Mode password if prompted.

   If the **Designer Mode** button is orange, you are already logged in to Designer Mode.
5. Tap **Home** to return to the main menu.

Place both Modules of the Contour Processor in the work area:

6. Tap **Modules**.
7. Tap *Module A* on the Scrollbar and tap again in the work area.

   The Contour Controller synchronizes with the Processor.
8. Tap *Module B* on the Scrollbar and tap again in the work area.

Load a 3-way configuration into both Modules:

9. Tap the *Module A* icon to select it.
10. Tap **Module Store/Recall**.
11. Select the *Default Modules* folder on the Scrollbar and tap **Open**.
12. Select the *Default 3 Way* Module from the Scrollbar and tap **Recall**.
13. Tap *Module B* to select it, select *Default 3 Way* Module, and tap **Recall**.

Label the frame and save the system:

14. Tap **Store/Recall Exit** then tap **Label & Lock**.
15. Tap **Label Frame**, enter *LAKE* as the frame name, and tap **OK**.
16. Tap **Home** then **System Store/Recall**.
17. Navigate to, or create a folder in which to store the file.
18. Tap **New Store**, enter the filename as *Designer Mode Tutorial*, and tap **OK**.

Your system configuration is now ready for the following tutorials.

Chapter 2: Designer Mode Security

2.1 Security for the Base Configuration

A Base Configuration file contains Crossover, EQ, and Levels information for a particular speaker type. A Base Configuration file can be used to create a standard starting point for a particular make and model of speaker; this can then be used in a variety of system configurations and fine-tuned using Module and Group settings.

The Base password is saved with the Base Configuration file, and is stored at the hardware level when loaded into a Contour processor. This prevents access to certain data stored in the Base Configuration file, even if you are in Designer Mode in the Contour Controller. Using a Base password allows hiding of your custom settings from any of user of the Contour system.

2.1.1 Crossover and Output EQ

All information in the XOVER screen is stored in the Base Configuration file, including crossover frequencies, crossover type (i.e., Bessel, Butterworth, or Linkwitz/Riley) along with any output-specific EQ, high pass filter, and crossover access status. All data in the XOVER screen can be adjusted for each Module, unless the designer has applied security to the Base Configuration file. See Section 3.4.2 on page 28 for further information on locking a Base Configuration file.

A Base Configuration file cannot be loaded into a Module running a different DSP program. For example, a 2-way Base Configuration file cannot be loaded into a Module that is currently running a 3-way program; a 2-way Module program must be loaded first.

2.1.2 PEQ and GEQ

All Module and Group EQ Overlays are combined and stored as an invisible default EQ curve for the new Base Configuration. This default EQ curve cannot be viewed or adjusted, although further EQ Overlays can be created at the Module or Group level. When the new Base Configuration file is loaded into a different Module, the main EQ appears flat. Output-specific EQ from the XOVER or Output EQ screens can still be viewed or adjusted, unless the system designer has protected it.

NOTE: *The EQ curve created in the PEQ and GEQ Overlays is separate from any output-specific EQ created on the XOVER page.*

2.1.3 Levels

With the exception of Limiter and Soft Clamp Corners, current Module and Group Levels are combined and stored as *factory levels* when a Base Configuration file is saved. The factory levels can be viewed and adjusted in Designer Mode after activating the **Adjust Factory** option in the **Levels/Meter Options** menu.

Level Limits, also stored with a Base Configuration file, can be viewed and adjusted from **Levels/Meter Options->Levels Limits**.

2.1.4 Base Configuration Tutorial

This tutorial illustrates important features about Base Configuration files.

Adjust Levels and Level Limits:

1. Navigate to the **Gain** levels page of *Module A*.
2. Adjust the *Output 2* gain to *-9 dB*.
3. Tap the **Delay** button and increase *Output 3* delay to *6.00 ms*.
4. Tap **Meter Options** then tap **Level Limits**.
5. Select **Gain/Delay Limits**.
6. Tap the **Max Delay** value highlighted in blue for the Input channel.

   This is located on the left of the screen, 2nd from bottom and should initially read *1800.00*
7. Enter **0** (zero) and tap **OK**.

Setting a maximum value identical to the minimum value removes the fader when in User Mode, or when the Base Configuration file or Module is locked.

Adjust Crossover Settings:

8. Tap the **EQ** tab (top-left) and select **XOVER**.
9. With the first output (low frequency) selected, tap **Crossover Select**.
10. Select *36dB Butterworth* from the Scrollbar.
11. Tap **XOVER Set** then tap **YES** to the warning message.
12. Tap **XOVER Access** then **High Pass Enable**.
13. Tap **Crossover View Only**.

    This hides the crossover page in User Mode or when the Base Configuration file or Module is locked.

Add EQ:

14. Tap PEQ1 and add a low shelf filter around 80 Hz, with 3 dB of gain.
15. Tap **Home**.

Lock the Base Configuration:

16. Tap **Modules** then tap *Module A* to select it.
17. Tap **Label & Lock**.

    The options shown in Figure 2-1 are displayed.

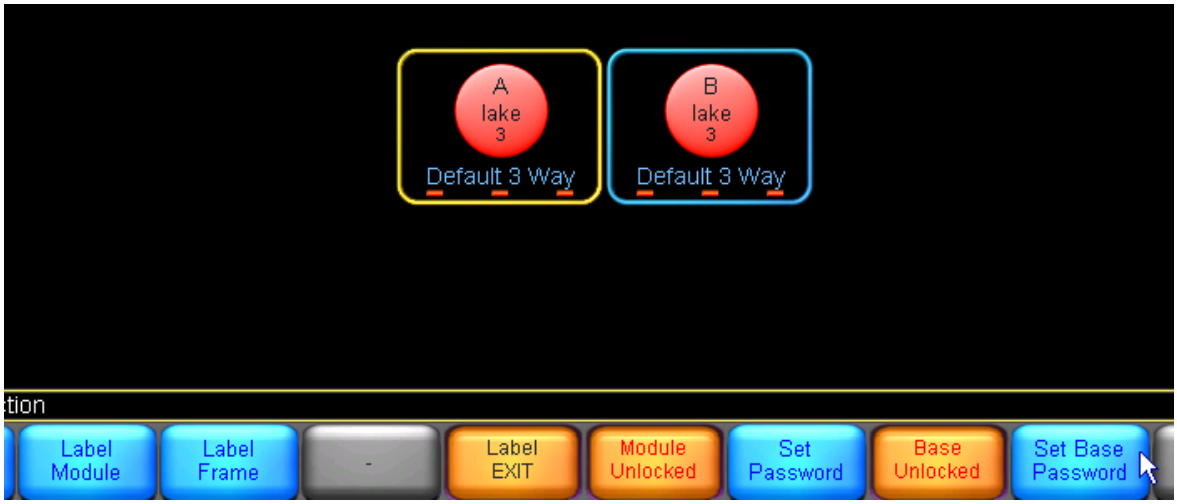

Figure 2-1

18. Tap **Set Base Password**, type *demo*, and tap **OK**.
19. Type *demo* again to confirm, tap **OK**, and tap **OK** to message.
20. Tap **Base Unlocked**.

    This changes to read **Unlock Base** and the password is now required to unlock this Base Configuration file. The XOVER page will be displayed as *View Only* until it is unlocked. Any user, even in Designer Mode, cannot adjust the settings unless they unlock the Base Configuration file.

    Level Limits and **Adjust Factory** options are locked out in both User and Designer Modes, and the input delay fader is removed when in User Mode.

Save the new Base Configuration file:

21. Tap **Label Exit** then **Module Store/Recall**.
22. Tap **Base Configuration**.
23. Navigate to the desired folder location or create a new folder.
24. Tap **New Store**, enter *3way test*, and tap **OK**.

    The file is stored in the folder you navigated to prior to storing and the screen appears similar to Figure 2-2.

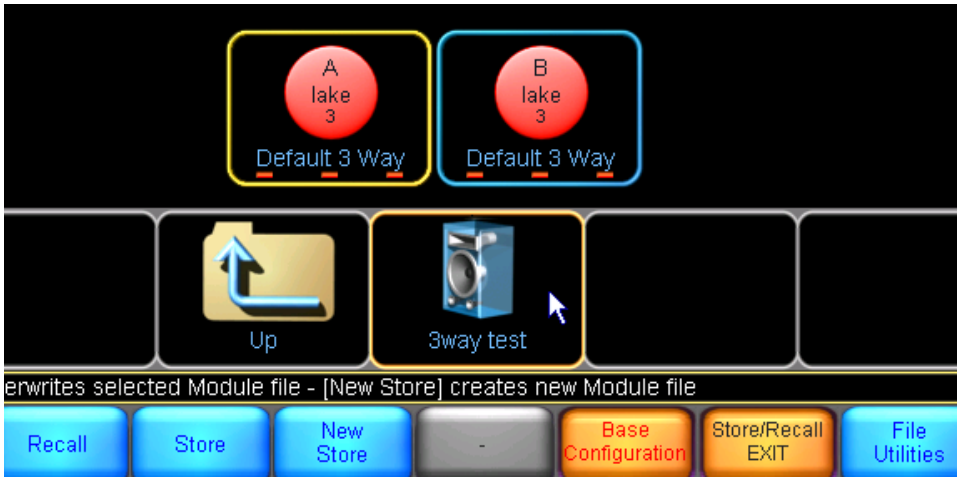

Figure 2-2

In addition to locking the crossover of a Base Configuration file, the entire file can be protected from accidental deletion.

Secure the Base Configuration File:

25. Tap **File Utilities**.
26. Select the *3way test* Base Configuration file from the Scrollbar.
27. Tap **Read Only**.

    Notice that the **Delete** button is now disabled for this file.

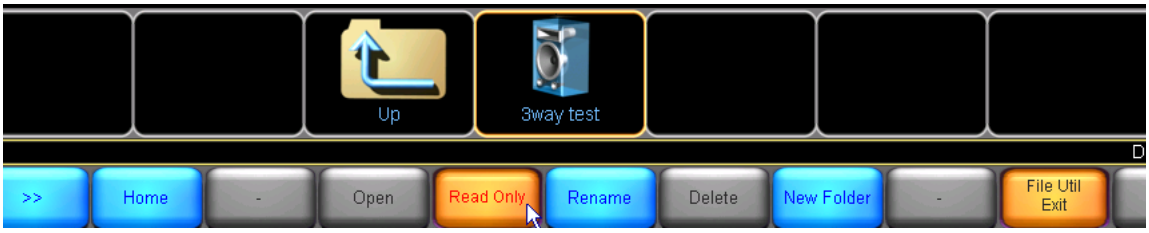

Figure 2-3

NOTE: *For further protection, Base Configuration File Utilities are disabled when in User Mode.*

Load the new Base Configuration file into Module B of the Processor:

28. Tap **File Util Exit**.
29. Tap the *Module B* icon to select it.
30. Select the *3way test* file on the Scrollbar and tap **Recall**.
31. Tap **Yes** to the warning message.

All data changed during this tutorial is loaded into Module B, and because the Base Configuration was locked, some data is now invisible or protected. Navigate to the various sections of Module B to verify the changes made to the Base Configuration file.

Table 2-1

To Check...	Navigate to...
Factory Levels are locked.	**Levels -> Meter Options** – the **Adjust Factory** button normally present is not available until the Base Configuration file is unlocked.
Level Limits are locked.	**Levels -> Meter Options** – the **Level Limits** button normally present is not available until the Base Configuration file is unlocked.
The Input Delay Max Level Limit is set to zero.	In Designer Mode, attempt to move the input delay fader, found under **Levels->Delay** (In User Mode, this delay fader is removed)
Crossover settings have been transferred and are set to *view only.*	EQ->XOVER Tab
The EQ setting has been transferred.	**NOT APPLICABLE** – PEQ and GEQ settings saved in Base Configuration files cannot be viewed, although an audio comparison can be made between Module A and B to verify they are identical.

2.1.5 Summary

Base Configuration files enable low level security allowing control over individual aspects of the system. The system designer can fine tune a speaker configuration, and protect the settings by *hiding* or setting them as *view only*.

The Base Configuration files can be saved and loaded into other Modules in the same system, or in different systems. This provides a starting point from which the Module can be fine-tuned by another designer or user.

NOTE: *The Module Properties screen displays the name of the Base Configuration file that was originally loaded, or most recently saved. Properties can be found under the Modules menu.*

2.2 Security for Module Functions

All settings that can be protected for a Base Configuration can also be protected for a Module. Base Configuration settings are overwritten by Module settings, unless access has been restricted in the Base Configuration file, in which case certain parameters will not be accessible. The Base Configuration file itself will not be affected by any changes made to a Module after the file is loaded.

The Module password is saved with the Single Module file, and is stored at the hardware level when loaded into a Contour processor. This prevents access to certain data stored in the Module file, even if you are in Designer Mode in the Contour Controller. Using a Module password allows hiding of your custom settings from any of user of the Contour system.

The following features are available for both Base Configuration and Module files:

- Adjust and lock factory levels
- Adjust and lock access to crossover settings
- Hide unused channels
- Adjust level limits
- Disable individual level faders or entire level sections from other designers (using Level Limits and Module Lock)

In addition to these features, a system designer can also adjust and lock access to individual PEQ and GEQ overlays.

2.2.1 Module Tutorial

The tutorial below illustrates Designer Mode's most important features about Modules. It also includes some functions that relate to both Base Configuration and Module files, such as Level Limits. Use the same *Designer Mode Tutorial* system configuration from Section 2.1.4 *Base Configuration Tutorial*. Ensure you are in Designer Mode and the Base Configuration is unlocked before proceeding.

Add PEQ and set the Overlay to *View Only:*

1. Navigate to the PEQ1 page of *Module A*.
2. Add a High Shelf Filter (Gain: 10 dB; Freq: 10 kHz; Bandwidth: 3.00).
3. Tap **Overlay Functions** then **Overlay Access**.
4. Tap **Overlay View Only** (illuminates orange).

Add GEQ and hide the Overlay:

5. Tap **GEQ2**.
6. Reduce the 125 Hz filter by 6 dB.
7. Tap **Overlay Access**.
8. Tap **Overlay Hide** (illuminates orange).

NOTE: *When an EQ Overlay is hidden, the effect its filters have on the overall EQ curve are not visible in normal User Mode, or when the Module is locked.*

Remove an unused channel meter and fader:

9. Tap the **Levels** tab.
10. Tap **Meter Options** then **Label Channel**.
11. Tap the mute/label button of Output 3.
12. Type *unused* and tap **OK**.

Change the polarity of an output:

13. Tap **Invert Polarity**.
14. Tap the mute/label button of Output 2.

    A symbol appears to the right of the mute button indicating polarity inversion.

Lock the Module:

15. Tap **Home** then **Modules**.
16. Tap the icon for *Module A* to select it.
17. Tap **Label & Lock** then **Set Password**.
18. Type *demo* then tap **OK**.
19. Type *demo* again to confirm, tap **OK**, and tap **OK** to the message.
20. Tap **Module Unlocked**.

Save the new Module file:

21. Tap **Label Exit** then **Module Store/Recall**.
22. Navigate to the required folder.
23. Tap **New Store**, type *demo module*, and tap **OK**.

Load the saved file into Module B:

24. Tap the icon for Module B.
25. Tap the *demo module* file on the Scrollbar.
26. Tap **Recall** then **Yes** to the warning messages.

Exit Designer Mode to see the effect of the changes on Module A (Module B is already locked following loading the Module file). All updates made in Section 2.1.4 *Base Configuration Tutorial* also remain.

2.2.2 Summary

Modules can store and secure all data that a Base Configuration can. In addition, the Module can restrict access to EQ overlays.

2.3 Security for Group Functions

Groups are used to connect and adjust multiple Modules. Groups cannot be locked or password-protected, but individual EQ pages can be hidden. Global Access settings described in Section 2.4 *Security for Global Access Functions* also apply to Groups. Security for Levels and Crossovers is not relevant to Groups.

Group level metering is represented by a Module within the Group. The Group may contain various types of Modules, each with different security settings. However, Group levels are restricted by the level limits set for the Modules within the Group. For example, if changing a Group level causes one or more Modules to exceed their min/max level limits, the action is not permitted.

2.3.1 Group Tutorial

Add a Group to the configuration:

1. From **Home**, tap **Groups**.
2. Tap *Group 1* from the Groups Scrollbar and tap again in the work area.
3. Tap **Assign** then tap the *Module A* and *Module B* icons.
4. Tap **Assign** again to exit this mode.
5. Tap **EQ/Levels** and navigate to the PEQ1 page of Group 1.

Add PEQ and Hide the Overlay:

6. Add a Band Pass Filter (Gain: -6 dB; Freq: 125 Hz; Bandwidth: 1.00).
7. Tap **Overlay Functions** then **Overlay Access**.
8. Tap **Overlay Hide** (illuminates orange) then **Overlay Access EXIT**.

NOTE: *When an EQ Overlay is hidden, its filters remain audible, but do not have a visible effect on the overall EQ curve in User Mode.*

Add GEQ and set the Overlay to *View Only*:

9. Tap **Overlay New**.

   The Overlay *Group 1 – PEQ2* is created.
10. Tap **Overlay GEQ** then **YES** to warning message.
11. Reduce the 4 kHz filter by 4 dB.
12. Tap **Overlay Access** then **Overlay View Only** (illuminates orange).

Verify the effect of the changes:

13. Tap **Home** then **User Preferences**.
14. Tap **Designer Mode** to return to User Mode.
15. Tap **Home** then tap the *Group 1* icon and navigate to **EQ**.

PEQ1 is hidden and its filter is not displayed on the overall EQ curve, although its effect is still audible. GEQ2 is displayed as *View Only* and all functions except **Overlay Functions** -> **Overlay Copy** are disabled.

2.3.2 Summary

Because a Group may contain various types of Modules with different security settings, Group security is limited to EQ Overlays only. Crossovers are not relevant to Groups, and all security for Levels is controlled via individual Modules.

2.4 Security for Global Access Functions

Global Access settings affect all Modules and Groups within a system configuration. **Global Access** is located under **User Preferences** when **Designer Mode** is active. See Section 1.2 *Designer Mode* to access Designer Mode.

Figure 2-4

The following options are available:

Figure 2-5

Table 2-2

Function	Result when in normal User Mode
EQ Hide	Hides all EQ pages for all Modules and Groups.
EQ View Only	Protects all EQ pages from adjustment for all Modules and Groups.
Crossover Hide	Hides all crossover pages for all Modules and Groups.
Crossover View Only	Protects all crossover pages from adjustment for all Modules and Groups.
Levels Hide	Hides all levels pages for all Modules and Groups.
Levels View Only	Protects all levels pages from adjustment for all Modules and Groups.

2.4.1 Global Access Tutorial

Hide all crossover and EQ pages in a system:

1. From **Home**, tap **User Preferences**.
2. Tap **Global Access**.
3. Tap **EQ Hide**.
4. Tap **XOver Hide**.

   The selected buttons illuminate orange when active.

Activate these Global settings:

5. Tap **Glbl Access EXIT**.
6. Tap **Designer Mode**.

   The button becomes blue in normal User Mode.

2.4.2 Summary

The Global Access functions apply an overall security to a particular Contour Controller system and can be used in addition to the system security described in Sections 2.1, 2.2, and 2.3.

Chapter 3: Designer Mode Quick Reference

This section provides an overview of the steps required for each Designer Mode process. This can be used as a quick reference for the features described throughout the tutorial based on the procedure or function.

NOTE: *Designer Mode must be active to access the functions described in this section (see Designer Mode* on page 8*).*

3.1 Crossover Functions

These functions apply to Base Configurations and Modules only.

3.1.1 Set Hide/View Only Status for an Individual Crossover

1. Navigate to the XOVER Page in EQ/Levels.
2. Tap **Crossover Access**.
3. Tap **Crossover View Only** or **Crossover Hide**.

   The selected status is illuminated orange.

3.1.2 Set Hide/View Only Status for All Crossover Pages

This affects *all* Crossover pages in the current system confirguration.

1. From **Home** tap **User Preferences**.
2. Tap **Global Access**.
3. Tap **Crossover Hide** or **Crossover View Only**.

   The selected status is illuminated orange.

3.2 EQ Functions

These functions apply only to Modules and Groups.

3.2.1 Set Hide/View Only Status for an Individual EQ Overlay

1. Navigate to the Module or Group Overlay in EQ/Levels.
2. Tap **Overlay Functions** then **Overlay Access**.
3. Tap **Overlay View Only** or **Overlay Hide**.

   The selected status is illuminated orange.

3.2.2 Set Hide/View Only Status for All EQ Overlays

This affects *all* EQ pages in the current system confirguration.

1. From **Home** tap **User Preferences**.
2. Tap **Global Access**.
3. Tap **EQ Hide** or **EQ View Only**.

   The selected status is illuminated orange.

3.3 Levels Functions

3.3.1 Invert Polarity of an Output Channel

Inverting the polarity of an output channel can only be performed in Designer Mode, although all users can invert the polarity of an input channel. Polarity inversion settings are stored at either the Base Configuration or Module level and are not available for Groups.

To invert the polarity of an output channel:

1. Navigate to the relevant Module Levels page.
2. Tap **Meter Options**.
3. Tap **Invert Polarity**.
4. Tap the mute/label button of the channel to be inverted.

NOTE: *Inverting polarity momentarily mutes the output while the changes are made.*

3.3.2 Restrict Level Adjustments

Level Limits are used to restrict minimum and maximum levels for a Module. Although a Group's Level Limits cannot be set, they adhere to the limits of all Modules assigned to it. For example, if changing a Group level causes any of its Modules to exceed their allowable range, the action is not allowed.

1. Navigate to the relevant Module Levels page.
2. Tap **Meter Options**.
3. Tap **Level Limits**.
4. Tap **Gain/Delay Limits** or **Limiter/Soft Clamp Limits**.
5. Tap the relevant min/max level.

   Each channel is displayed in the same order as the channel faders (from left to right: Input, Output 1, Output 2 etc.).
6. Enter the limit and tap **OK**.

Figure 3-1 shows Output 1 Minimum Gain adjusted to -6 dB.

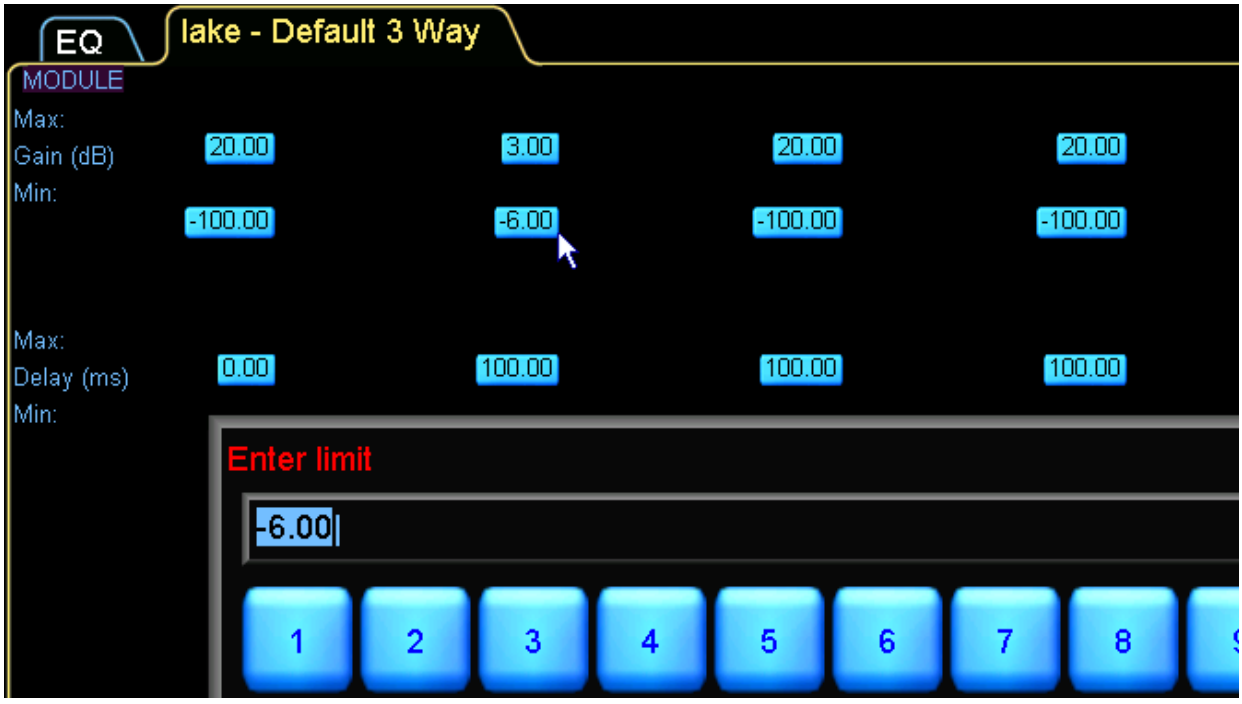

Figure 3-1

3.3.3 Disable Level Adjustments

If the minimum and maximum level limits are identical for a particular channel and level type, that control is effectively disabled. The fader for the associated channel and level type is not visible in User Mode or when the Module is locked.

Follow the steps in *Restrict Level Adjustments* on page 25 and set both the minimum and maximum values of a particular level output and level type to the same value. To verify that the fader has been removed and the level fixed, either lock the Module or Bas Configuration, or switch to User Mode.

3.3.4 Disable Access to a Levels Function

To disable access to an entire level function (i.e., Delay) set identical minimum and maximum delay level limits for every channel for the Module. Follow the steps in *Restrict Level Adjustments* on page 25 to set level limits.

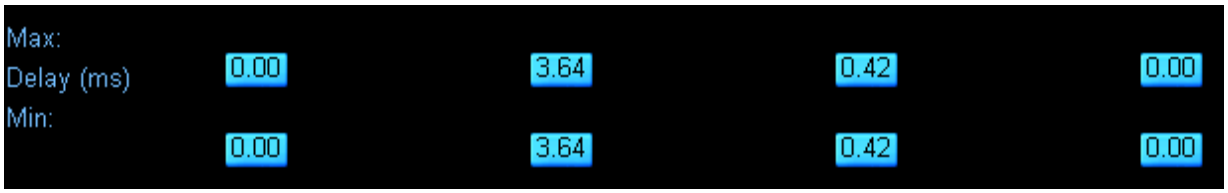

Figure 3-2

Figure 3-2 shows an example of identical min/max settings for delay. These settings disable the levels function on the EQ/Levels menu (Figure 3-3) in User Mode or when the Module or Base Configuration is locked.

Figure 3-3

3.3.5 Disable/Enable Unused Output Channels

To completely hide a levels meter/fader, set the name of fader to *unused*:

1. Navigate to the relevant Module Levels page.
2. Tap **Meter Options**.
3. Tap **Label Channel**.
4. Tap the mute/label button of the relevant channel.
5. Type *unused* and tap **OK**.

The meter and fader will be invisible on the software controller and the meter is also disabled on the front panel of the Contour Processor. To enable the channel again, change the channel label to something other than *unused*.

3.3.6 Set Hide/View Only Status for All Levels Pages

This function affects *all* Levels pages in the current system configuration.

1. From **Home**, tap **User Preferences**.
2. Tap **Global Access**.
3. Tap **Levels Hide** or **Levels View Only**.

   The selected button is illuminated orange.

3.4 Additional Designer Mode Functions

3.4.1 Switch between Designer and User Mode

To access Designer Mode:

1. From **Home**, tap **User Preferences**.
2. Tap **Designer Mode**.
3. Enter the password (if set) and tap **OK**.

See *Designer Mode* on page 8 to learn about Designer Mode passwords.

To switch to User Mode:

1. From **Home**, tap **User Preferences**.

   The Designer Mode button is orange when Designer Mode is active.
2. Tap **Designer Mode**.

   The Designer Mode button is now blue, showing that Designer Mode is inactive.

3.4.2 Lock and Password-Protect a Module or Base Configuration

Locking a Module or Base Configuration enables the access security, such as hiding EQ Overlays, setting Crossover pages to *view only*, and disabling level functions. The **Label & Lock** function activates security in both User and Designer modes, allowing certain settings to be protected from other system designers.

1. From the **Modules** menu, tap a Module icon to select it.
2. Tap **Label & Lock**.
3. Tap **Set Password** (for Module) or **Set Base Password** (for Base).
4. Enter a password and tap **OK**.
5. Confirm password, tap **OK**, and tap **OK** to message.
6. Tap **Module Unlocked** or **Base Unlocked** to lock the relevant settings.

3.4.3 Unlock a Locked Module or Base Configuration

1. From the **Modules** menu, tap a Module icon to select it.
2. Tap **Label & Lock**.
3. Tap **Unlock Module** or **Unlock Base**.
4. Enter the associated password and tap **OK**.

3.4.4 Properties Page Designer Mode Features

The Module Properties page contains two additional technical support functions in Designer Mode: **Clear** (FPGA) **Counters** and **Update ARM Boot** (Code).

The **Clear Counters** button resets the FPGA Counters, which assist Lake's Technical Support engineers but are rarely used. If there is a requirement to **Update ARM Boot** code, a new file will be sent by Lake Technical Support with installation instructions.