

DREAM
Console
DMP1/DMP2

DREAM Console Meter Panels Installation Manual

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NOTES:

Chapter 1 - Introduction

INTRODUCTION

The DREAM Console Main Meter and Channel Meter Panels provide high resolution signal level metering for the Fairlight DREAM Console. The DREAM Console is part of a new family of products from Fairlight which marries together QDC processing with an ergonomic physical control surface in a combination that has a significant impact on productivity and efficiency. The DREAM Console offers a flexible solution to a range of audio production and post-production tasks.

ABOUT THIS MANUAL

The DREAM Console Meter Panels Installation Manual provides the information necessary to install and operate the meter panels with a DREAM Console. This manual should be used in conjunction with the DREAM Console Installation and User Manual to obtain complete instruction in the use and installation of the complete system.

This manual is designed to familiarize sound editors and engineers with the facilities provided by the DREAM Console Meter Panels. The terminology and concepts used in this manual assume a reasonable knowledge regarding audio principles and studio procedures.

USING THE CONSOLE MAIN METER PANEL

The DMP2 Main Meter Panel includes eight, 55mm multi-segment bargraph LED signal level meters, plus eight LED meter legend windows. The DMP2 also includes two high quality analogue VU level meters which may be connected to external analogue sources.

The Main Meter Panel displays the signal level of each element of the Main bus. The name of each element is displayed in the LCD window below each bargraph. The number of active bargraphs is determined by the user-defined format of the Main bus. For example, if the Main bus format is stereo, only LEFT and RIGHT bus element meters are displayed. If the Main bus format is 7.1, all eight elements are displayed. These are: LEFT, INNER LEFT, CENTRE, INNER RIGHT, RIGHT, LEFT SURROUND, RIGHT SURROUND, BOOM.

The Console Main Meter Panel displays peak program level.

Peak Hold Reset

Signal levels in excess of 0dB full scale are indicated by a fixed orange peak hold display. To reset the peak hold display, press the **Meter Sets** key in the Fader Sets section of the DREAM Channel Select Panel.

USING THE CONSOLE CHANNEL METER PANEL

The DMP1 Channel Meter Panel includes twelve, 55mm multi-segment bargraph LED signal level meters. The Channel Meter Panel displays the signal level of the feeds associated with the faders in the current fader set. Each meter is associated with a single fader panel. Meters display feed levels only. If a bus or link group is included in a fader set, those meters will show no signal.

Use the fader set keys to display the feeds you wish to meter.

The Console Channel Meter Panel displays peak program level.

NOTES:

Chapter 2 - Installation

INTRODUCTION

The DREAM Meter Panels are designed to be mounted directly on to the universal mounting channel at the top of the console above the panels. The meter units are fitted with an adjustable angle bracket at the rear of the unit. This bracket allows the meter to be mounted in one of three viewing angles.

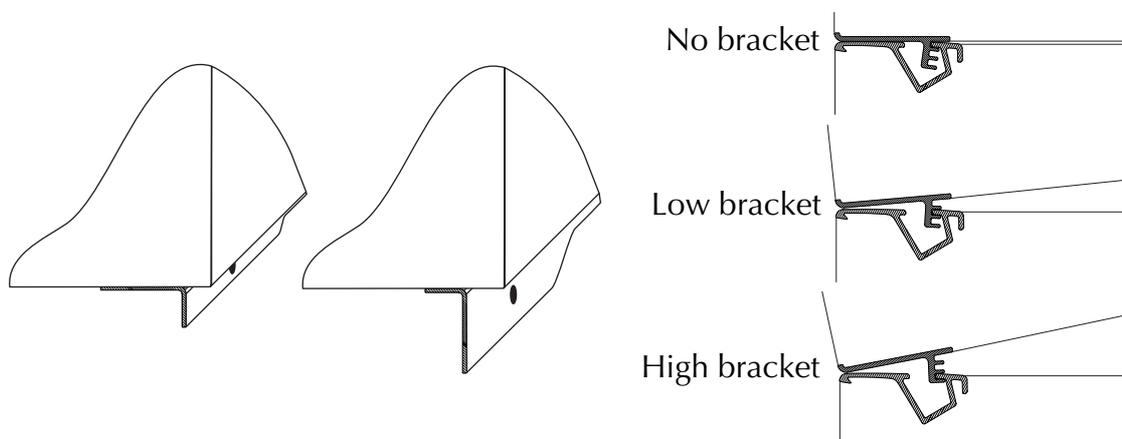
One simple cable connection between the Console and Channel Meter Panel using the five pin XLR cable supplied, is also required. The Main Meter unit includes two extra balanced audio inputs for the analogue meters.

Tools Required

- 1 x #2 pozi-drive screw driver

MECHANICAL INSTALLATION

- Step 1** Carefully unpack the DREAM Console Meter Panel.
- Each channel meter unit is associated with a particular fader panel. The units are numbered from 1 to 4. Unit number 1 must be located above the left hand fader panel. The units are installed from 1 to 4, left to right.
- The Main Meter unit is normally located above the editor and selection panels.
- Step 2** Select the viewing angle by removing the angle bracket at the rear of the unit or by reversing the bracket, if necessary.
- Step 3** Carefully locate the front extrusion on the underside of the meter unit into the universal mounting channel on the top of the console.
- Make sure the extrusion latches into the channel to prevent the meter unit from moving.



Angle bracket at rear reverses for tilt adjustment. Extrusion at front secures meter unit.

Figure 1: Meter Mounting Fittings

CONNECTING THE CHANNEL METER PANEL

- Step 1 Connect the 5-pin XLR USB cable (part no. AMIX119-A) from the female XLR on the rear of the Console to the male XLR on the rear of the Meter Panel.

CONNECTING THE MAIN METER PANEL

- Step 1 Connect the 5-pin XLR USB cable (part no. AMIX119-A) from the female XLR on the rear of the Console to the male XLR on the rear of the Meter Panel.
- Step 2 Connect the two 3-pin female XLRs on the rear of the Meter Panel to a balanced analogue line level source. The inputs feed the two analogue meters.

CONFIGURATION

If the Meter Panels have been purchased separately from the Console, the Console must be configured to establish communication with the Meter Panels via USB. Follow these steps to configure the Meter Panel:

1. Connect the Meter Panel prior to turning on the Console.
2. Turn on the Console. During start-up Windows will detect the new Meter Panel hardware. Install the USB drivers as described below.
3. Run the console configuration utility *Cons-con* to add the Meter Panel to the Console configuration.
4. Finally, run the FMC calibration utility to calibrate the Meter Panel LCDs.

USB Installation

The USB driver for the Meter Panel must be installed the first time it is connected to the system.

- Step 1 Ensure the Meter Panels are connected to the Console and that the Console is running.
- Step 2 During boot-up the Windows **Found New Hardware** dialog box will appear. Click the **Browse** button and navigate to the following directory: *C:\DREAM Drivers\USB drivers\W2000*. Select *FairUsb.inf* and click **OK** to complete the driver installation.

Cons-con

The Meter Panel must be added to the Console configuration. This is achieved with the *Cons-con* application.

- Step 1 While the DREAM Start splash screen is displayed, hold down the **Shift** key and press **Pause/Break** and type **SU Enter** to enter super user mode.
- Step 2 Use the trackball to click on the Binnacle **Cut** key to launch *Cons-con*, the console configuration utility. Alternatively, click on **My Computer** on the Windows desktop and navigate to *C:\Projects\mixers\fmc\system\Cons-con.exe*.
- Step 3 Select **Console** console type and click the **Add Panel** button to add the meters one at a time.

- Step 4 To add a Main Meter panel. Select panel number **Panel 4**, then select **MainMetering** type. Click **OK** to add the panel.
- Step 5 To add a Channel Meter panel. Select panel number **Panel 15**, then select **ConsoleChannelMeters** type. Click **OK** to add the panel.
- Step 6 Add the remaining Channel Meters which are number **Panel 16**, **Panel 17**, and **Panel 18** respectively.
- Step 7 To remove an accidentally added panel, select the panel and click **Remove Panel**. To modify a panel, select the panel and click **Modify Panel**.

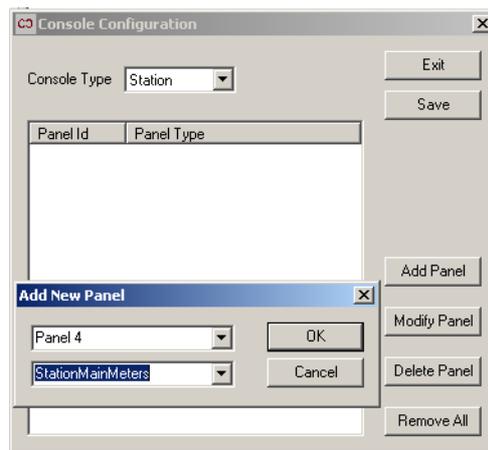


Figure 2: ConsCon Window

LCD Calibration

To calibrate the contrast on the Meter Panel LCD, run FMC. Hold down the **Shift** key and press the **Pause/Break** key (Shift+Pause/Break toggles the keyboard focus between FMC and the QDC engine) then type U. This will bring up the calibration window.

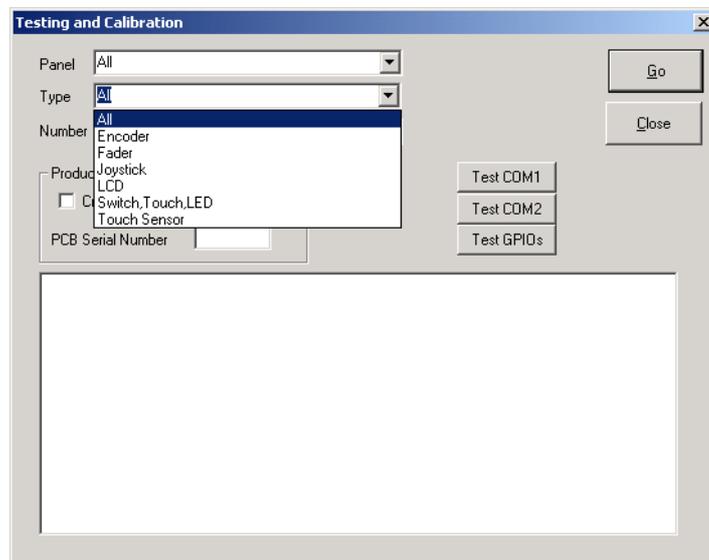


Figure 3: Console Calibration Dialogue

The Meter Panels should be selected from the **Panel** drop down list and then calibrated as described below. If correctly entered in Cons-con, the panels are listed as **Panel 4, MainMetering**, and **Panel 15 ConsoleChannelMeters**, etc.

Select **LCD** from the **Type** list. LCDs 1 to 4 are adjusted by LCD number 3, LCDs 5 to 8 are adjusted by LCD number 7. Select 3 or 7 from the **Number** list, then click **Go**.

The LCD dialogue box will be displayed. Click the **Contrast +/-** buttons to change the contrast. Click the **Backlight +/-** buttons to change the backlight level. Click **OK** to move on to the next LCD.

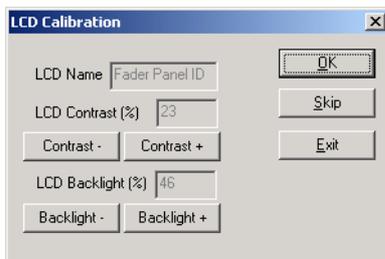


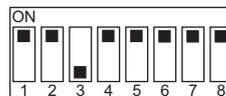
Figure 4: LCD Calibration Window

CHANGING METER PANEL IDS

Each meter is labelled to indicate the current panel ID. If channel meters are ordered separately, their factory set panel IDs may need to be changed. Remove the rear panel to access the panel ID DIP switch on the main circuit board. The following DIP switch settings should be used:

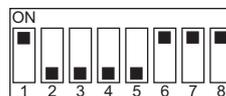
Console Main Meter (MIX-MLM1):

4



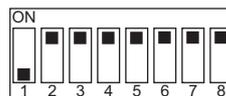
Console Channel Meter 1 (MIX-DCM):

15



Console Channel Meter 2 (MIX-DCM):

16



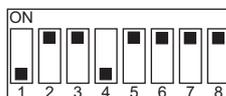
Console Channel Meter 3 (MIX-DCM):

17



Console Channel Meter 4 (MIX-DCM):

18



TESTING AND COMMISSIONING

Once the Console Meter Panels have been installed, configured and calibrated, refer to the Console manual for operational procedures that will assist in testing its operation within the studio environment.

NOTES:

Chapter 3 - Specifications

CONSOLE WIRING AND CONNECTION DETAILS

Connector sex described is the panel mount connector on the rear of the unit.

Meter USB

Description: USB and DC Power connection.

Connector: 5 Pin XLR Male

XLR5	SIGNAL	PAIR
PIN 1	USB +	1
PIN 2	0 V	
PIN 3	12 V	
PIN 4	0 V	
PIN 5	USB -	1
SHELL	SHIELD	1

Meter Analogue Input

Description: Balanced Line Level Audio Input.

Connector: 3 Pin XLR Female

XLR3	SIGNAL
PIN 1	GND
PIN 2	Signal +
PIN 3	Signal -

DIMENSIONS AND WEIGHT

DREAM Console Meter Panel

Width	488 mm / 19.2"
Depth	248 mm / 9.8"
Height	120 mm / 4.7"
Net Weight	2.8 kg

Note: All specifications subject to change without notice.

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