QSC®

DCM 100 / DCM 300 Digital Crossover/ Monitor

Features

- Analog inputs accept audio from cinema processors or other 8 channel analog audio sources

- QSC Intrinsic Correction DSP settings for optimal performance of QSC cinema speakers

- Booth monitor with front panel control for easy operation

- Passive or 2-way crossovers for three screen channels (DCM100)

- 3- or 4-way crossovers for three screen channels (DCM300)

- Compatible with all existing QSC DCA amplifiers

- Bypass mode – routes audio around failed components to ensure that the show will go on

- Control and monitoring via Ethernet including full SNMP support

- Continued development of software and firmware will add new capabilities via easy updates

Introduction

DCM Series crossover/monitors are a powerful solution for today's D-Cinema audio systems for installations that use a separate cinema processor such as QSC USL JSD Series processors. The new DCM builds on the legacy of QSC's DCP and DPM products to provide loudspeaker crossover and monitoring functions for Digital Cinema in a single integrated system. Designed to be used with QSC's Digital Cinema Amplifiers (DCA) and featuring advanced Intrinsic Correction™ settings for QSC's Digital Cinema Speakers (DCS), the DCM optimizes loudspeaker performance while simplifying cinema sound system wiring and configuration. The DCM 100 is configurable for passive and bi-amp operation of three screen channels, and the DCM 300 is configurable for tri- or quad-amp operation for three screen channels. Both models accommodate 2 or 4 surround channels (5.1 or 7.1).

When used with QSC DCS Series cinema loudspeakers, QSC's proprietary Intrinsic Correction adjusts for the intrinsic behaviors of loudspeakers, removing any anomalies from the equation of factors that affect measured response and, ultimately, the quality of sound. The result is optimal "out of the box" performance while minimizing on-site room tuning.

Less Wiring, Faster Set-up

The DCM 100/DCM 300 greatly simplifies system wiring and set-up, significantly reducing installation time and labor cost. Connections to DCA amplifiers for input and monitor signals are made through QSC DataPort VGA-style cables. Set-up is accomplished by a front panel USB cable connection, using menu-driven, DPM Manager software for configuration. The program includes a database of QSC Intrinsic Correction settings for QSC cinema speaker models.

Advanced Monitor Functions

In addition to audio monitoring of DCA Series* amplifier inputs and outputs, DCM 100/DCM 300 includes QSC's exclusive "load fault" detection. It monitors all amplifier outputs and indicates any opens and shorts in the loudspeakers, providing confirmation that all amplifier outputs are functioning properly.

DataPort connection also works with QSC ISA Series amplifiers, but will not provide open/short detection or standby function with ISA Series.

DCM 100 / DCM 300

Specifications

System Details

Dimensions (HxWxD)	3.5 (2 RU) x 19 x 15 in
Line voltage requirements	100 VAC – 240 VAC, 50/60 Hz
Accessories included	6 ft UL/CSA line cord, Connector Kit

Front Panel Controls and Indicators

Monitor Volume/parameter adjust	Rotary encoder
Setup mode indicator	Yellow LED
LCD	128 x 64 bit Monochrome LCD
Power on indicator	Green LED
Fault detect indicator	Yellow LED
USB Type B port	Config and management interface
Monitor output	3.5 mm TRS

Rear Panel Connectors

Network RJ45	10/100 Mbps network management
RS232	DB-9 Serial Interface
Analog Inputs (1-8)	DB-25
DataPort connectors	HD-15 (DCM100 - 8, DCM300 - 11),QSC amplifier interface
H.I. and Monitor output	5-pin Euro-style (x1) – common GND
Power switch	Rocker switch

Monitor Speaker

Speaker	2"x 3.5" full-range
Amplifier output power	10 watts Class D

Audio Performance

A/D conversion	24-bit delta-sigma, 48 kHz
Frequency response	20 Hz to 20 kHz (+- .5dB)

Main Analog Input

Connector	DB25F - 8 channel
Input stage type	Active balanced input
Input impedance	20k Ohms
Max analog input level	+14.2 dBu (4.0 Vrms)
THD+N at 2 dB below clip	< .003%

DataPort Outputs (HD15)

Max output level	14 dBu

H.I. and Monitor outputs

Connector	5-pin Euro-style with common GND (LCR sum)
Output stage type	Balanced output
Max output level	18 dBu (adjustable)

Monitor Headphone Output

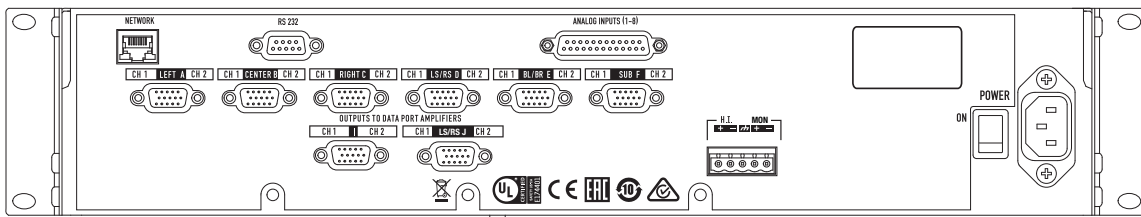|	
Connector	Front Panel 3.5mm mini jack
Output stage type	Unbalanced output
Max output level	21 dBu

Network / SNMP

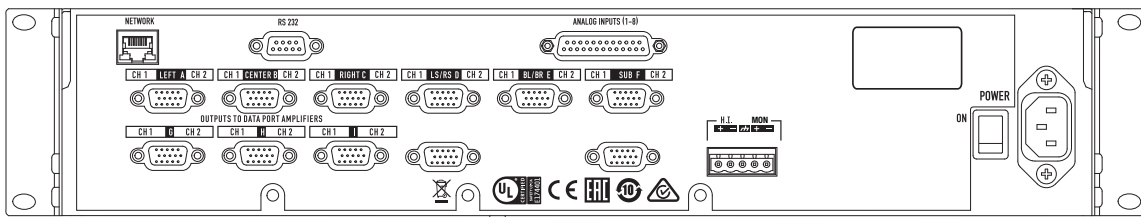|	
Protocol	Standard TCP/IP implementation over Ethernet or Fast Ethernet. 3rd party interface may use UDP/ IP or TCP/IP. Also supports connection to DPM Manager and SNMP
Data rate	10/100 Mbps
Connection requirements	Cat-5 UTP cable or better (100m maximum length), direct connection to wired network switch ports only, dedicated LAN or VLAN.

Specifications subject to change without notice.

DCM 100 Back View

DCM 300 Back View

DCM 100 / DCM 300 Spec Sheet 03/09/2018

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