QSC®

DCIO / DCIO-H

Features

- Digital Cinema Inputs/Outputs for Q-SYS™ enabled cinemas and cinema complexes

- Routes inputs/outputs from projector IMB and alternate content sources to Q-SYS Core over Q-LAN, QSC's network distribution technology

- 16 channel AES/EBU inputs from IMB

- Mic/line input

- Line level monitor output

- Powered monitor output to passive speaker

- HDMI 2.0/HDCP 2.2 input/output for non-sync sources (DCIO-H version only)

- Dolby Audio™ (featuring Dolby Digital Plus™ and Dolby® Surround 7.1) and DTS-HD® decoding (DCIO-H version only)

- Four relay control outputs

- HI/VI outputs

- Automation inputs include RS-232 and GPI

Introduction

DCIO is a cinema-specific interface that serves as the audio I/O for each screen in a Q-SYS enabled cinema complex.

The DCIO – along with Q-SYS™ Cores, DPA-Q amplifiers and DCS loudspeakers – provides a cost-effective way to realize the full benefits of a Q-SYS enabled cinema for every room in a multiplex, by delivering a full-system approach to cinema audio design. Using Q-SYS Designer and custom UCIs, touchpanels, and mobile apps, the user can configure, control, and monitor their theatre audio equipment through a seamless system view.

DCIO / DCIO-H Details

General

Dimensions (HxWxD)	1.75 (2 RU) x 19 x 11.2 inches (44 x 483 x 282.5 mm)
Line voltage requirements	100 VAC – 240 VAC, 50/60 Hz
Accessories included	1m UL/CSA line cord, Euro-style connectors for outputs and relay connections

Front Panel Controls and Indicators

Parameter adjust	Rotary encoder
Power On indicator	Blue LED
Display	Monochrome 304x96 blue OLED graphics display
Other	Momentary mute button
	Mute LED (red)
	Screen Navigation (Next) and ID buttons

Rear Panel Audio Connectors

AES3 inputs (AES/EBU)	Ch. 1-8, 9-16 (2xRJ45)
Mic/Line input	XLR — Mic (+ phantom power) or line level
Line input	3.5 mm TRS, unbalanced
H.I./V.I. outputs	5-pin Euro-style (x1) — common GND
Monitor Line/Speaker outputs	Line: 3-pin Euro-style, Speaker: 2-pin Euro-style, 10 W max output

Audio Performance

A/D conversion	32-bit delta-sigma, 48 kHz
Frequency response	20 Hz to 20 kHz (+/- .5dB)

DCIO / DCIO-H Details

Stereo Line Inputs

Connector	3.5mm TRS mini jack
Input stage type	Unbalanced input
Input impedance (4dBu sens)	> 10k Ohms
Max analog input level (4dBu sens)	15 dBu (4.4 Vrms)
Input impedance (-10dBV sens)	2.7k Ohms
Max analog input level (-10dBV sens)	1 dBV (1.2 Vrms)

Other

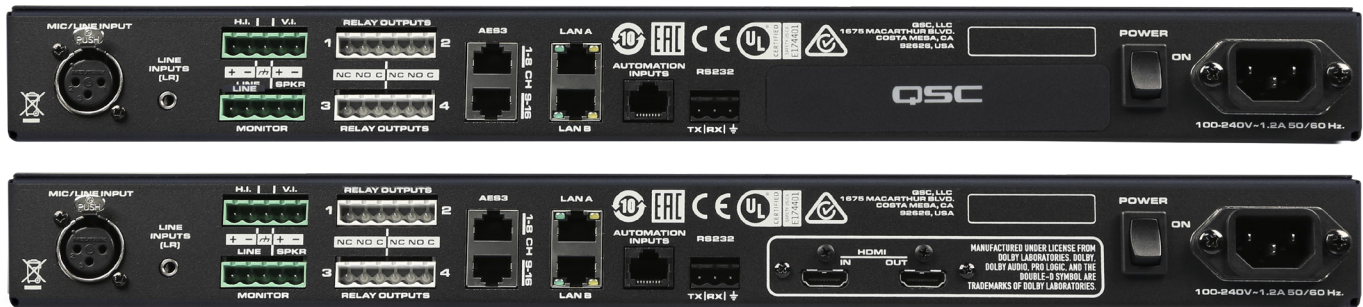|	
Relay outputs (4)	3-pin Euro-style
	Normally open (NO), normally closed (NC), and common
	Max 30 VDC @ 1A
Automation inputs (RJ45 - 6 GPI)	Max input voltage 5V (3.3V typical)
	TTL compatible dry contact closure
RS-232 input	3-pin Euro-style
Dual Gigabit Ethernet Q-LAN ports	LAN A, LAN B (RJ45 x2)
HDMI input/output (DCIO-H only)	HDMI 2.0, Type A female connectors
Power switch	Rocker switch
IEC Power Connector	

AES/EBU Digital Inputs (RJ45)

Input stage type	Balanced input
Input impedance	110 ohms
Input sample rate	48 kHz or 96 kHz

Mic/Line Input (XLR)

Input stage type	Active balanced input
Input impedance	2.2k Ohms
Max analog input level	26 dBu
Phantom power voltage	15V

Specifications subject to change without notice.

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