



This equipment complies with the EMC Directive 89/336/EEC and LVD 73/23/EEC and 93/68/EEC

EMC was achieved using TDIF screened cable with metal D backshells, and RCA Phono cables using GAC-I cable with Deltron gold plated connectors.

For further details contact the address on the left

www.spirit-by-soundcraft.co.uk
www.digital328.com



Part No: ZM0239

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H A Harman International Company

SPiRiT

digital

three two eight

328

AES/EBU INTERFACE

USER GUIDE

Refer also to the Digital 328 User Guide

SPiRiT DIGITAL THREE TWO EIGHT



Introduction

Congratulations on your purchase of the AES/EBU Interface from Spirit by Soundcraft. You are about to enjoy one of the great features of the Digital 328 - Expandability.

The AES/EBU Interface is designed to meet the following requirements:

- As an 8 channel interface to a Digidesign™ 888 Interface.
- As an 8 channel Interface to any single / multiple AES/EBU source or destination.

The Interface is an external accessory for the Digital 328 and other forthcoming Spirit Digital consoles, although it may also be used for other applications. The interface provides 4 stereo pairs (8 channels) of digital AES/EBU which can be routed to and from either of the console TDIF ports.

Operation

Connect the TDIF cable from the Interface to the port required on the console. Select TDIF as the port type from the Tape Port Select Menu on the Digital 328.



You will now be able to bring in the connections to the interface on Tape Returns 17-24 (Port A), or 25-32 (Port B). The outputs from the interface can be fed directly from the Mic/Line channels by selecting T.SND DIR on the appropriate channel.

When T.SND DIR is not selected on any of the Mic/Line channels, the ports will be fed with Groups 1-8 sequentially.

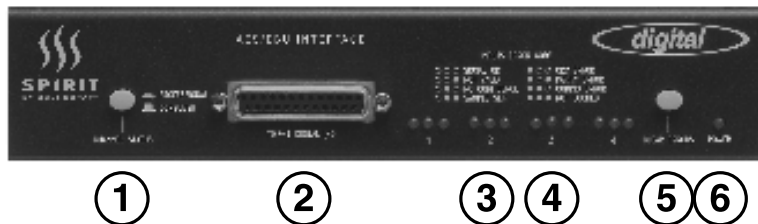
Connection Leads

This unit should be connected to the 328 using a standard TDIF cable. These are available through your Spirit dealer.

Note that the cable must be constructed using 110 ohm digital audio cable.



Front Panel



1 Professional/Consumer audio data format selection switch - when set to 'Pro' mode, the AES/EBU sample frequency flag is always 'Not indicated'. When set to 'Consumer' mode, the flag is set to 48kHz, 44.1kHz, 32kHz or 'Other' according to the status of the TDIF sample rate in the Tape.

2 TDIF-1 25-pin female D-type connector - This port is used to transfer the digital audio to and from the Digital 328, or compatible hardware.

3 Input Error Code Map - This map on the front panel of the unit describes how the unit indicates the following errors in the incoming AES/EBU datastream:

E2	E1	E0	Error
0	0	0	No error - signal OK
0	0	1	Not valid
0	1	0	No confidence
0	1	1	Sample Slip
1	0	0	CRC Error
1	0	1	Parity Error
1	1	0	Coding Error
1	1	1	Not Locked

4 Channel Error Indication - Four sets of three error flag indicators - each set for one stereo AES input.

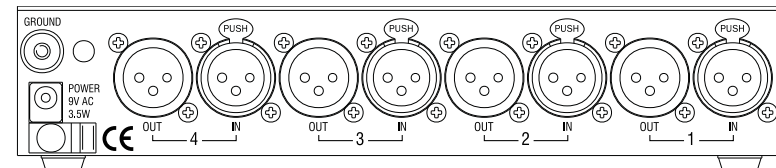
5 Clear Error Switch - This will reset the error detection circuit - and clear any errors presently indicated.

6 Power Indicator - this indicates that the unit is receiving power from the input on the rear panel.

Digital Audio Synchronisation

The interface has no internal clock source, and is always synchronised to the incoming TDIF clock signal. The external device connected to the AES/EBU device must either be synchronised from the Digital 328 wordclock output, or from the interface AES/EBU output. It is not possible to synchronise the interface from the AES input.

Rear Connections



Specifications

Bit Depth	16/20/24 bits selectable from source
Sampling Rate	44kHz to 50kHz selectable from source
Dimensions	220mm (W) x 157mm (L) x 48mm (H)
Power Supply	9v AC 3.5W