Dan Dugan
SOUND DESIGN

Model E-3 Automatic Mixing Controller
AES Digital I/O

APPLICATIONS

Conference reinforcement, video trucks

Television news and sports panels, reality shows, game shows

Multiple wireless mics for theater

Boardrooms, civic meeting rooms, community TV

Teleconferencing and distance learning

Houses of worship

MODES

8-Channel (AES)
  Dugan Speech System
  Dugan Music System
  Dugan Gain Limiting
  Pre/Post mix matrix for six aux outputs

14-Channel (AES)
  Dugan Speech System

16-Channel (ADAT)
  Dugan Speech System

BENEFITS

Eliminates late upcuts

Reduces PA feedback and studio noise

Reduces comb filtering from adjacent mics

CAPABILITIES

Link up to eight Dugan controllers into one system

Partition channels into one to three groups that can span linked units

Control physically from front panel and Model CP-2 Control Panel (sold separately)

Control remotely from Dugan Control Panel for Java (included) and Dugan Control Panel for iPad (sold separately)

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Specifications

DIGITAL AUDIO I/O	
MAIN (AES/EBU)	Eight inputs, eight outputs.
AUXILIARY (AES/EBU)	Six inputs and TTL word clock in Six outputs and TTL word clock out
OPTICAL (ADAT)	Eight channels in and eight channels out 16-Channel mode: eight additional I/O channels using LINK connectors

GAIN	Unity
SAMPLE RATE	**Input:** 32 - 96 kHz (integral sample rate conversion) **Output:** 48 kHz
BIT DEPTH	24 bits
AUDIO LATENCY	2 ms
FREQUENCY RESPONSE	10 Hz - 22 kHz, +/- 0.0075 dB
OUTPUT NOISE	-125 dBFS (20 Hz - 20 kHz), -128 dBAFS
DISTORTION	-125 dBFS
LINKING	Up to eight units can be linked into one system in an optical ring network

SYNCHRONIZATION	
SOURCES (48 kHz only)	ADAT, Word Clock, DARS, AES Inputs 1-8, MST Inputs 1-3, Internal (for SRC)
OUTPUT	48 kHz word clock

CONNECTORS	
AUDIO	**Main:** DB-25 wired to TASCAM digital audio standard **Aux:** DB-25 wired to TASCAM standard except pairs 7-8 that carry TTL for Word Clock I/O **ADAT:** Optical in and out
CONTROL	**Control Panel (CP-2):** 4-pin mini-XLR female **RJ-45 x 4:** 4-port internal switch for network **Linking:** ADAT optical in and out, connectors reassign for audio I/O 9-16

POWER	
CONNECTOR	Coaxial with locking collar, 5.5 mm o.d., 2 mm i.d.
ELECTRICAL	Nominal 12 VDC, 1.5 A maximum; accepts 12–24 VDC, either polarity, or 9–18 VAC
EXTERNAL SUPPLY	**Input:** 100-240 VAC, 50-60 Hz, 0.7 A **Output:** 18 VDC, 1.33 A Approved UL, GS, CE, FCC, CCC, LPS

PHYSICAL	
DIMENSIONS	1 RU **H** = 1.75 in (4.5 cm) **D** = 8.3 in (21 cm) **W** = 8.75 in (22.2 cm)
WEIGHT	3.5 lb (1.6 kg) 7 lb (2.5 kg) in shipping box with power supply