D-2008SP CU

DIGITAL MIXING PROCESSOR UNIT

Key features

- 32 preset memories for user convenience
- Up to 32 different routing and parameter configurations can be stored for frequent changes in staging, seating and speaker arrangements
- Intuitive GUI
- Mixing console option offers easy user operation
- User-friendly VCA control

Specifications

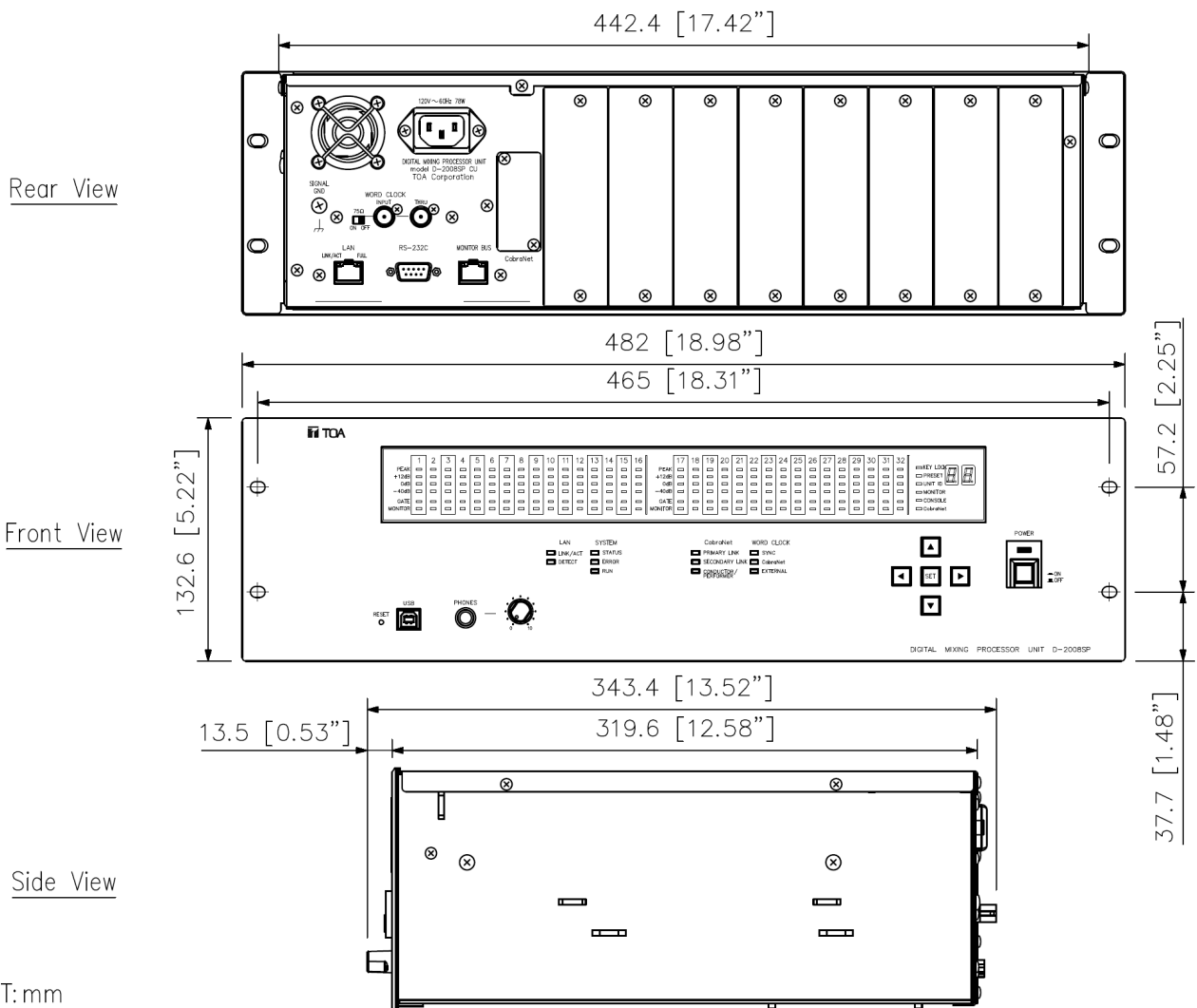|	
Power Source	120 V AC,60 Hz
Power Consumption	78 W
Frequency Response	20 Hz – 20 kHz, ±1 dB (±4 dB* input)
Input/Output	Input: Max. 32 channels, modular construction (modules optional) Output: Max. 32 channels, modular construction (modules optional) Monitor bus: 1 stereo input, 1 stereo output Connector: RJ45 connector Connection cable: Shielded twisted pair (STP) Cat 5 or higher LAN cable (data lines: 2 pairs) Maximum cable distance: 100 m or 109.36 yd (between D-2008SP and D-2012C) Headphones: 1 stereo
Sampling Frequency	48 kHz
Preset Memory	32
Feedback Suppressor (FBS)	12 filters (auto/dynamic), Max. 4 bus channels
Auto-Mixing	Ducker (auto muting), NOM attenuation
Auto-Mixing Group	4 groups
Compressor/Auto-Leveler	Threshold: –20 to +20 dB (1 dB steps) Ratio: 1:1, 1.1:1, 1.2:1, 1.3:1, 1.5:1, 1.7:1, 2:1, 2.3:1, 2.6:1,3:1, 4:1, 5:1, 7:1, 8:1, 10:1, 12:1, 20:1, ∞:1 Attack time: 0.2 ms – 5 s Release time: 10 ms – 5 s Gain: –∞ to +10 dB Knee Type: Hard knee, Soft knee 1, Soft knee 2(Auto-leveler mode) Target level: –20 to +20 dB (1 dB steps) Maximum gain: 0 to +20 dB (1 dB steps) Attack time: 10 ms – 10 s Release time: 100 ms – 10 s
Output Delay	Delay time: 0 – 1360 ms (0.021 ms steps)
Bus Delay	Delay time: 0 – 677 ms (0.021 ms steps)
Matrix	Input: Max. 34 (32 + 2) channels x 24 bus Output: Max. 44 (24 + 4 + 16) bus x 32 channels
Cobranet Matrix	Input: Max. 16 channels x 24 bus Output: Max. 28 (24 + 4) bus x 16 channels
Crosspoint Gain	–∞ to 0 dB (1 dB steps)
Auxiliary Function	Key lock function
LAN	Network I/F: 1 10BASE-T/100BASE-TX circuit (selectable by automatic recognition), RJ45 connector for maintenance use, connection via a switching hub Network Protocol: TCP/IP Connection Cable: Category 5 or higher shielded twisted pair cable for LAN (CAT5-STP or better) Maximum Cable Distance: 100 m or 109.36 yd (between this unit and a switching hub or PC)
Control	RS-232C: D-sub connector (9 pins), for external control Module: Remote control module slot x 2
Operating Temperature	5 °C to 40 °C (41 ºF to 104 ºF)
Finish	Panel: Aluminum, hair-line finish, black Case: Pre-coated steel plate
Dimensions	482 (W) x 132.6 (H) x 343.4 (D) mm (18.98" x 5.22" x 13.52")
Weight	6.3 kg (13.89 lb)

TOA

Included Accessories	Power cord (2m (6.5 ft) x 1, Module mounting screw (spare) x 4, Blank panel (preinstalled on the module slot) x 8, CD (Set-up software) x 1

PC requirements

PC Requirements

Hardware	CPU: 1 GHz or faster 32-bit (x86) or 64-bit (x64) processor Memory: 1GB or more RAM (for 32-bit CPU) or 2 GB or more RAM (for 64-bit CPU) Display: 1024 x 768 resolution or higher Free Hard Disck Space: 16 MB or more (for D-2000 Setting Software installation) 500 MB or more (when ".NET Framework" needs to be installed) LAN Card: Compatible to 10BASE-T or faster connection
OS	Windows 10 Pro (32/64-bit) Windows 11 Pro (64-bit)
Required Component	.NET Framework3.5SP1

Dimensions

Rear View

Front View

Side View

UNIT:mm

442.4 [17.42"]

482 [18.98"]
465 [18.31"]

132.6 [5.22"]

57.2 [2.25"]

37.7 [1.48"]

343.4 [13.52"]
13.5 [0.53"]   319.6 [12.58"]

A&E specifications

Digital audio mixing platform with up to 32 channels flexibly configurable in different input / output combinations. Four units with optional CobraNet card to a 128-channel expandable system. Module base frame with rear slots for various input and output modules to the flexible expansion of the system to the desired requirements. The device must feature an associated graphical user interface based on software. All available DSP blocks must be fully usable without capacity restrictions. Thus prevents that DSP limits restrict the parameterization of the system and further functions are no longer available. The mixing platform includes following DSP functions:

Feedback suppressors with 12 filters individually differentiating in automatic and dynamic mode. Automatic mixer with variable NOM parameterization in 4 groups and Ducker function (signal-controlled mute) with different priority levels.

DSP functions of the input channels: trim (gain), pad, attenuator, phase reversal, compressor with 3 transfer characteristics (1 hard and 2 soft knee) and auto leveller function variable low-pass filter, 4 parametric equalizers, car mixing with NOM group assignment.

Mixing matrix with 24 audio buses, bus delay up to 677 ms.

DSP functions of the output channels: attenuator, delay until 1360 ms, compressor with 3 transfer characteristics (1 hard and 2 soft knee), 2-, 3-, 4-way crossover filter slopes up to 24 dB/octave with different characteristics (Bessel, Butterworth, Linkwitz Rayley and variable Q up 69,249) and 6 multi function filter with selectable filter types parametric equalizer, low all-pass filter, notch filter, shelving filter for lows and highs, CD Horn equalization.

32 Configurations in the appliance mains can be saved and via keypad or remote control, configurations directly from front panel buttons available. VU-meter for each input and output channel. LED display for LAN, system status, CobraNet and Word clock. Access lock on front panel controls individually adjustable. The system must have connections Word clock input and "LinkThru", to be fully usable also for video and Studio applications. Networking of control functions, parameterization and CobraNet standard hardware thus also possible for fibre optic networks apply.

PC based of Windows software can manage all devices in full expansion. Configuration and all parameters can be saved to disk; Display the amplitude, phase and time frequency response; Stereo and universal parameter links; Access lock in different layers for each DSP function, inputs, outputs. In the real time mode display the signal level of the inputs and outputs. Programming the remote control parameter.

Possibility of a simple remote control to the configuration dial, mute, and volume control with control input module. Easy control of the system by AMX, Crestron, cue, and other similar units simply held protocol via RS232C interface or TCP/IP. Different control modules, analog and digital (AES/EBU, SPDIF) input / output modules can be used. Remote control via network through optional high-quality motorized more possible.