

**DESCRIPTION**

The D-2008SP Digital Mixing Processor Unit is designed to have up to 32 audio inputs and outputs in total, and to be mounted in an EIA standard equipment rack (3U size). A built-in powerful signal processing function permits the unit to be used as both a mixer and a signal processor. Its audio input/output and control ports can accept optional plug-in modules, making the unit have a maximum of 32 inputs or 32 outputs and up to 2 control modules. Using the following optional modules enables the unit to perform their functions: Two D-983s for providing a maximum of 48 contact inputs and 32 contact outputs, D-984VC for VCA control, and D-2000CB for audio data transfer between multiple D-2008SP units. Each function is set by the dedicated setting software on a PC. Setting contents can be stored in the unit's internal memory as preset memory, which can be recalled by the D-2008SP without using a PC.

**SPECIFICATIONS**

\* 0 dB = 0.775 V

|                               |  |
|-------------------------------|--|
| Power Source                  | 120 V AC, 60 Hz  |
| Power Consumption             | 78 W   |
| Frequency Response            | 20 Hz - 20 kHz, $\pm 1$ dB (+4 dB* input)  |
| Sampling Frequency            | 48 kHz   |
| Input and Output              | Input: Max. 32 channels, modular construction (modules optional)<br>Output: Max. 32 channels, modular construction (modules optional)<br>Headphone: 1 stereo   |
| Signal Processing             |  |
| Feedback Suppression Function | 12 filters (auto + dynamic), maximum 4 bus channels  |
| Auto-Mixing Function          | Ducker (automatic muting), NOM attenuation   |
| Auto-Mixing Group             | 4 groups   |
| Equalizer/Filter              | Parametric equalizer: 20 Hz - 20 kHz, $\pm 15$ dB, Q: 0.267-69.249<br>Filtering: High-pass filter 20 Hz - 20 kHz, 6 dB/oct, 12 dB/oct<br>Low-pass filter 20 Hz - 20 kHz, 6 dB/oct, 12 dB/oct<br>Notch filter 20 Hz - 20 kHz, Q: 8.651 - 69.249<br>All-pass filter 20 Hz - 20 kHz, Q: 0.267 - 69.249<br>High shelving filter 6 - 20 kHz, $\pm 15$ dB<br>Low shelving filter 20 - 500 Hz, $\pm 15$ dB<br>Horn equalizer 20 kHz, 0 to +18 dB (0.5 dB steps)<br>Crossover filter: 20 Hz - 20 kHz,<br>6 dB/oct, 12 dB/oct, 18 dB/oct, 24 dB/oct |
| Compressor/Auto-Leveler       | (Compressor mode)<br>Threshold: -20 to +20 dB (1 dB steps)<br>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,<br>5:1, 7:1, 8:1, 10:1, 12:1, 20:1, $\infty$ :1<br>Attack time: 0.2 ms - 5 s<br>Release time: 10 ms - 5 s<br>Gain: $-\infty$ - +10 dB<br>Knee type: hard knee, soft knee 1, soft knee 2<br>(Auto-leveler mode)<br>Target level: -20 to +10 dB (1 dB steps)<br>Maximum gain: 0 to +20 dB (1 dB steps)<br>Attack time: 10 ms - 10 s<br>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. 32 channels $\times$ 24 buses,<br>Output: Max. 44 (24 + 4 + 16) buses $\times$ 32 channels   |
| CobraNet Matrix               | Input: Max. 16 channels $\times$ 24 buses,<br>Output: Max. 28 (24 + 4) buses $\times$ 16 channels  |
| Crosspoint Gain               | $-\infty$ - 0 dB (1 dB steps)  |
| Preset Memory                 | 32   |
| Auxiliary Function            | Key Locking function   |
| LAN                           | Network I/F: 10BASE-T/100BASE-TX (Automatic-Negotiation)<br>Connected via a switching hub<br>Network protocol: TCP/IP<br>Connection cable: Shielded Category 5 or higher twisted pair LAN cable(CAT5-STP)<br>Maximum cable distance: 100m(between D-2008SP and switching hub)  |

## SPECIFICATIONS

|                       |   |
|-----------------------|---|
| Control               | RS-232C: D-sub connector (9 pins) Used for external control<br>Module: Remote control module slot: 2  |
| Operating Temperature | +5 °C to +40 °C (41 °F to 104 °F)   |
| Finish                | Panel: Aluminum, hair-line finish, black<br>Case: Surface-treated 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)   |
| Accessory             | Power cord (2 m (6.5 ft)) ---1, Module mounting screw (spare) ---4,<br>Blank panel (preinstalled on the module slot) ---8, CD (Set-up software) ---1  |
| Option                | Mic/line input module: D-2000AD1, D-921E, D-921F, D-922E, D-922F<br>Stereo select input module: D-936R<br>Digital input module: D-923AE, D-937SP<br>Line output module: D-971E, D-971M, D-971R, D-2000DA1<br>Digital output module: D-961SP, D-972AE<br>CobraNet interface module: D-2000CB<br>Remote control module: D-981, D-983<br>VCA control module: D-984VC |

### Personal Computer Requirements

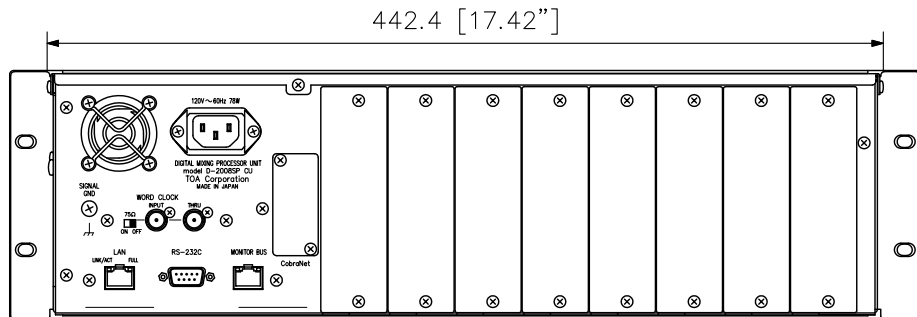
|                      |  |
|----------------------|--|
| CPU                  | Intel Pentium4 2 GHz or higher   |
| Memory               | 1.5 GB or more (2 GB or more recommended)  |
| Display              | 1024 X 768 resolution or higher  |
| Free Hard Disk Space | 16 MB or more (for D-2000 Setting Software installation)<br>500 MB or more (when ".NET Framework" needs to be installed) |
| LAN Card             | Compatible to 10BASE-T or faster connection  |
| OS                   | Windows XP SP2 or later, Windows Vista (32/64-bit edition),<br>Windows 7 (32/64-bit edition)                             |
| Required Component   | .NET Framework3.5SP1   |

\*Pentium is a registered trademark of Intel Corporation.

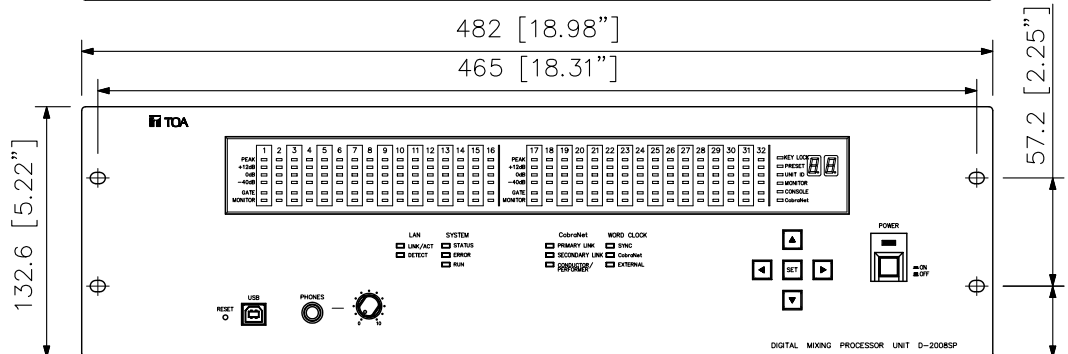
\*Windows, Windows Vista is a registered trademark of Microsoft Corporation.

## APPEARANCE

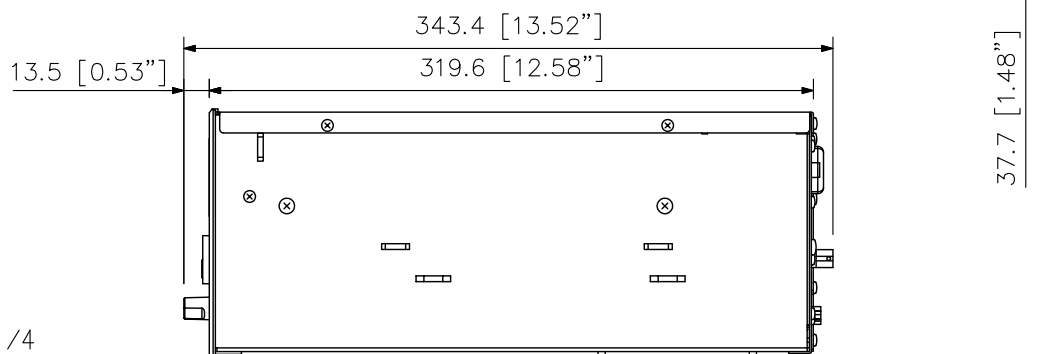
Rear View



Front View



Side View



UNIT:mm SCALE:1/4