

## DESCRIPTION

The A-9120DL Matrix Mixer is designed to be used in conjunction with optional modules and can be configured for up to 8 inputs and 8 outputs. 9000 series modules as well as existing 900 series input modules can be used. The most appropriate modules can be selected depending on applications. Since it comes with two 120 W power amplifiers, it can individually perform multi-origin broadcasts. It is equipped with signal processing and control functions necessary for sound reinforcement, permitting all parameters to be set at the mixer. Settings data can be stored inside the unit and called up using the keys on the front panel.

## SPECIFICATIONS

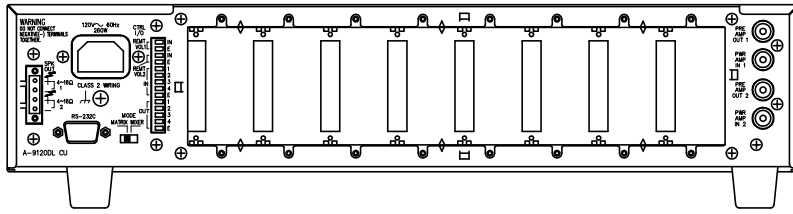
(\*1) 0 dB = 1 V

|                                      |  |
|--------------------------------------|--|
| Power Source                         | 120 V AC, 60 Hz  |
| Power Consumption                    | 260 W  |
| Audio Input                          | Max. 8 channels, modular construction (modules optional)<br>Power amplifier input 1, 2: 0 dB(*1), 10 kΩ, RCA pin jack  |
| Audio Output                         | Preamplifier output 1, 2: 0 dB(*1), 300 Ω, unbalanced, RCA pin jack<br>Speaker output 1, 2: 4 – 16 Ω, unbalanced, removable terminal block (4 pins)<br>120 W × 2 (4 Ω load), 70 W × 2 (8 Ω load), 40 W × 2 (16 Ω load)   |
| Module Slot                          | Analog input (slot 1 – 8): -10 dB(*1), 10 kΩ, unbalanced<br>Digital input (slot 1 – 4): 24 bit/48 kHz<br>MIX output (slot 1 – 8): -14 dB(*1), 330 Ω (CH 1 pre-fader output), unbalanced<br>Digital output (slot 5 – 7): 24 bit/48 kHz<br>Power supply (slot 1 – 8): +24 V, -24 V, +6 V DC  |
| Digital Audio Signal Reference Level | -20 dBFS   |
| Power Bandwidth                      | 20 – 20,000 Hz, 0.02% THD  |
| Frequency Response                   | Power amplifier section: 20 – 20,000 Hz, +0, -1 dB<br>Analog input module to speaker output: 20 – 20,000 Hz, +1, -3 dB   |
| Total Harmonic Distortion            | Power amplifier section: 0.0008% (8 Ω, 16 Ω rated power)<br>0.002% (4 Ω rated power)<br>Analog input module to speaker output: 0.008% (22 kHz LPF, 1 kHz, rated power)   |
| S/N Ratio                            | At Input short, 20 – 20,000 Hz, set to ALL FLAT or OFF setting<br>Output volume min.: 90 dB (pre-amplifier output)<br>Output volume max.: 61 dB<br>(pre-amplifier output, Input 1 volume: 0 dB, Other Inputs: OFF)<br>Power amplifier section: 110 dB  |
| Cross Talk                           | Over 64 dB (at 20 kHz)   |
| Tone Control                         | Bass: ±12 dB (at 100 Hz)<br>Treble: ±12 dB (at 10 kHz)   |
| Parametric Equalizer                 | 10 bands, Frequency: 20 – 20,000 Hz, 31 steps, Variable range: ±12 dB, Q: 0.3 – 5  |
| Speaker Equalizer                    | 15 (compatible with TOA speakers only)   |
| High-pass Filter                     | -12 dB/oct, Variable frequency range: 20 – 400 Hz, 14 steps  |
| Low-pass Filter                      | -12 dB/oct, Variable frequency range: 4,000 – 20,000 Hz, 8 steps   |
| Compressor                           | Depth: 1 – 5   |
| Delay                                | 0 – 40 ms (1 ms steps), maximum 40 ms (CH 1 + CH 2), mixer mode only   |
| Scene/Event Memory                   | 32   |
| Operation Mode                       | Matrix mode/Mixer mode (selector switch)   |
| Auxiliary Function                   | Key lock function  |
| Control Input/Output                 | RS-232C(*2), D-sub connector (9 P, female)<br>Control input: 4 inputs, no-voltage make contact input, open voltage: 3.3 V DC, short-circuit current: Under 1 mA, removable terminal block (14 pins)<br>Control output: 4 outputs, open collector output, withstand voltage: 27 V DC, control current: 50 mA, removable terminal block (14 pins)<br>Remote volume: 2 channels, connect a 10 kΩ/linear taper variable resistor or input the DC voltage of 0 to +10 V, removable terminal block (14 pins) |
| Operating Temperature                | -10°C to +40°C   |
| Operating Humidity                   | 35% to 80% RH (no condensation)  |
| Finish                               | Panel: Aluminum, hair-line, black<br>Case: Surface-treated steel plate, black, paint   |
| Dimensions                           | 420 (W) × 107.6 (H) × 395 (D) mm   |
| Weight                               | 11 kg  |
| Accessory                            | Power cord (2 m) ---1, Rack mounting bracket ---2, Bracket mounting screw ---4, Blank panel ---7, Blank panel mounting screw ---14, Removable terminal plug (4 pins) ---1, Removable terminal plug (14 pins) ---1, CD-ROM ---1, Start guide ---1   |

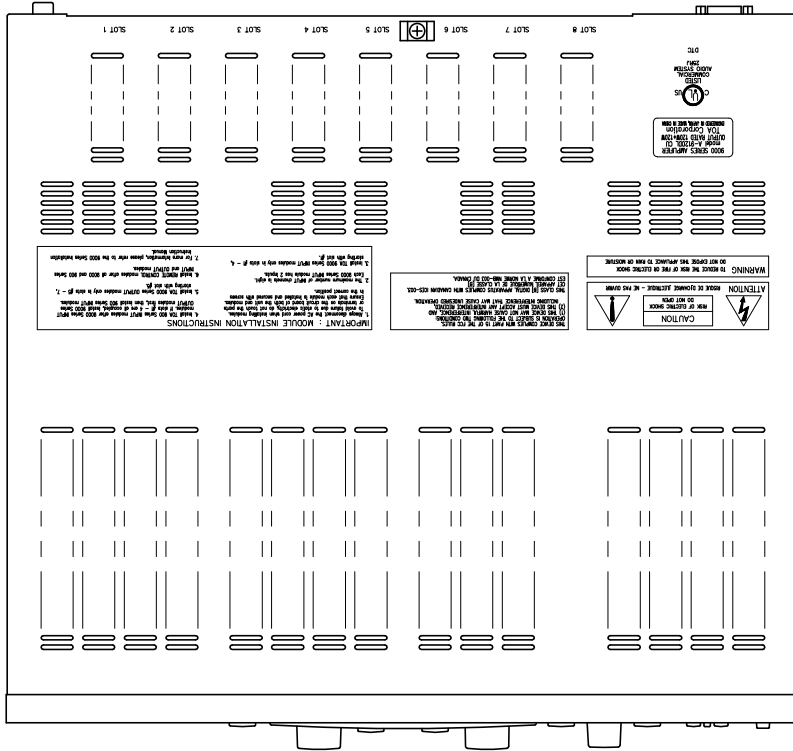
(\*2) Allowing it to be controlled by a control system such as AMX and Crestron through RS-232C port.

Notes: AMX is a trademark of AMX Corporation.  
Crestron is a trademark of Crestron Electronics, Inc.

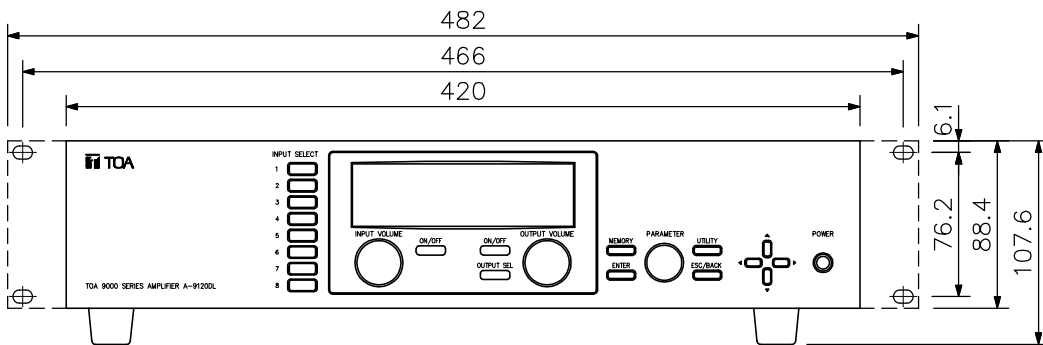
■ APPEARANCE



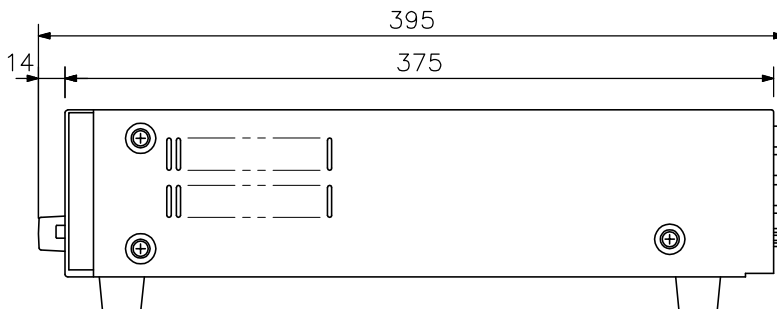
Rear View



Top View



Front View



Side View

UNIT:mm SCALE:1/4