

D-2000 SERIES DIGITAL MIXING SYSTEM



Integrating high-performance mixing, matrixing and processing functions to meet a wide scope of sound reinforcement applications

Expandable a operation, a system contr

Expandable to a massive 128 input/output configuration, the D-2000 Series includes various modules and peripherals that can be combined to create the best possible sound in

small to medium-size venues of all types, including hotel banquet and function rooms, indoor sports facilities, multipurpose halls and places of worship and many others.



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Creating the ideal sound environment

Auto-mixing advantages

NOM (Number of Open Microphones) - automatically adjusts output level based on the total number of open microphones.

Ducker function (Auto-Mute function) - automatically works to attenuate outputs of channels with low priority.

Highly effective feedback suppression

The D-2000 Series provides feedback elimination for up to 4 channels. In addition, each channel can control 12 problem frequencies. This makes it convenient for feedback suppression in different areas of the same hall.

2 versatile suppression modes

Either presettable **Auto Mode** or realtime **Dynamic Mode** can be selected to suit the situation and eliminate feedback.

Essential audio processing

Delay, High-, Low-Pass and Notch Filters, Parametric Equalizers, Compressor/Auto Leveller, Gate, Crossovers and Crosspoint Gain.

D-2012C

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all-in-one designs ideal offering easy dvanced functions and ol capabilities

User-friendly design facilitates operation by any user

32 preset memories for user convenience.

Up to 32 different routing and parameter configurations can be stored in memory and called up to handle venues such as multi-purpose halls and conference rooms that require frequent changes in staging, seating and speaker arrangements.

Intuitive GUI

The dedicated software's graphic, visually attractive user interface helps streamline settings and adjustments.

Mixing console option

The D-2008SP can be connected via network to the D-2012C mixing console with 12 motorized faders and 8 rotary encoders. This enables simplified mixing operation that suit non-professional users. Using the D-2012C, allows input and output channel signal levels to be monitored, volume changes made as well as recalling preset memory settings, and contact control.

VCA control

D-2000 Series units used in conjunction with the optional D-911 VCA Fader Unit provides more of an analog mixer user interface.

RS-232C control

The RS-232C port allows external control when connected to external devices such as AMX^{*1} and Crestron^{*2} control units. This also allows full control over venue lighting and power curtains (blackout) from a central remote location. This feature is particularly suited for AV presentation rooms, conference rooms and hotel banquet rooms.

Configuration flexibility and intelligent functions provide solutions for any situation

User-specific configurations

The D-2000 Series fully modular design makes it a simple matter to create a configuration that meets specific user requirements.

24-bus matrix

Totally flexible input-to-output signal routing for zoning or roomcombining as needed.

Extending operational use for more advanced applications

A 128 input/output system can be constructed by connecting four units of the D-2008SP using the CobraNet*³ module.

LAN-connected D-2008SP units can be remotely operated from the console or PC software.



Display of signal flow



*1 AMX is a registered trademark of AMX Corporation.

- *2 Crestron is a registered trademark of Crestron Electronics, Inc.
- *3 CobraNet is a registered tradmark of Cirrus Logic Corporation.





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Input Modules



D-2000AD1

 4-channel XI B connectors • A/D converter: 24 bit • Phantom power supply (48V) • THD : 0.008% or less

- D-921E 2-channel, Removable terminal block • A/D converter: 24 bit
- Phantom power supply (15V)
- THD : 0.05% or less

Mic/Line Input Module (Stereo type)

D-936R • 4-channel, RCA pin jack • A/D converter: 24 bit •THD : 0.05% or less



Line Output Modules

D-921F

Mic/Line Input Modules (Monaural type)

• 2-channel, XLR connectors

• A/D converter: 24 bit Phantom power supply (15V)

D-923AE

2-channel line input

Applicable Format: AES/EBU

• THD : 0.05% or less



D-922E 2-channel, Removable terminal block • A/D converter: 20 bit

· Phantom power supply (15V) • THD : 0.05% or less

Digital Input Modules



D-937SP 1-channel stereo line input Applicable Format: S/PDIF



Output Modules



D-2000DA1 •4-channel, XLR connectors • D/A converter: 24 bit •THD : 0.008% or less

D-971M • 4-channel. XLR connectors • D/A converter: 24 bit • THD : 0.05% or less

D-971E terminal block



D-971R • 4-channel, RCA pin jack • D/A converter: 24 bit

• THD : 0.05% or less



D-961SP

- 2-channel stereo line output · Coaxial RCA jack
- Applicable Format: S/PDIF

Digital Output Modules

D-922

• 2-channel. XLR connectors

Phantom power supply (15V)

A/D converter: 20 bit

• THD : 0.05% or less



D-972AE

- 4-channel line output
- XLR connectors
- Applicable Format: AES/EBU

Remote Control Modules Remote Control Modules









VCA Control Module











VCA Fader Unit



VCA Fader Unit for controlling 12 inputs/ 8 outputs, channel gains and 8 contact controls when used with the D-984VC.



CobraNet Interface Module

D-2000CB • Allows audio transmission among D-2008SPs.







Municipal Hall Application



Fitness Club Application



D-2008SP Digital Mixing Processor Unit

| *1 | 0dB | = | 0 | 77 | 75\ |
|----|-----|---|----|----|-----|
| | oub | _ | Ο. | | 0. |

| Power Source | AC mains, 50/60Hz | | | |
|------------------------|--|--|--|--|
| Power Consumption | 76W | | | |
| Frequency Response | 20Hz – 20kHz, ±1dB (±4dB* ¹ Input) | | | |
| Sampling Frequency | 48KHz | | | |
| Input and 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 Headphone: 1 stereo | | | |
| Signal Processing | Feedback Suppression Function, Auto Mixing Function, Auto Mixing Group, Parametric equalizer High-pass filter, Low-pass filter, Notch filter, All-pass filter, High shelving filter, Low shelving filter, Horn equalizer, Crossover filter, Compressor/Auto-Leveler, Output Delay, BUS Delay, Matrix, CobraNet Matrix, Crosspoint Gain | | | |
| Preset memory | 32 | | | |
| Auxiliary Function | Key Locking function | | | |
| LAN | Network I/F: 10BASE-T/100BASE-TX (Automatic-Negotiation) connected via a switching hub Network protocol: TCP/IP Connection cable: Shielded Category 5 or higher twisted pair LAN cable (CAT5-STP) Maximum cable distance: 100m (109.36 yd) (between D-2008SP and switching sub) | | | |
| Control | RS-232C, D-sub connector (9 pins) Used for external control Module: Remote control module slot: 2 | | | |
| Operating Temperature | +5°C to +40°C (41°F to 104°F) | | | |
| Dimensions | 482 (W) × 132.6 (H) × 343.4 (D)mm (18.98" × 5.22" × 13.52") | | | |
| Weight | 6.3kg (13.89 lb) | | | |
| Accessory | Power cord $(2m (6.5 ft)) \times 1$, Rack mounting screw $\times 4$, Module mounting screw (spare) $\times 4$, Blank panel (preinstalled on the module slot) $\times 8$, CD (Set-up software) $\times 1$ | | | |
| Personal Computer Re | quirements | | | |
| Personal computer | PC-AT compatible | | | |
| Personal computer requ | :ement CPU: Pentium4 2GHz or more Memory: 1.5GB or more (2GB or more recommended) Display adapter: XGA (1024 x 768) or more Network adapter: 10BASE-T or more | | | |
| OS | Windows Vista, Windows XP (SP2) or later | | | |

Other .NET Framework 3.5 SP1 (included in the supplied CD) installation required

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

■D-2012C Remote Console Unit

| Power Source | AC mains, 50/60Hz |
|-------------------|---|
| Power Consumption | 18W |
| Volume Adjustment | 100 mm motorized fader × 12, Rotary encoder x 8 |
| Line Input | 1 channel (stereo), +10 to -20dB* ¹ , 10k Ω , unbalanced, RCA Pin-jack |
| Headphone Output | Stereo 100mW + 100mW (32Ω load), standard stereo phone-jack |
| Monitor Bus | 1 stereo input, 1 stereo output |
| LAN | Network I/F: 10BASE-T/100BASE-TX (Automatic-Negotiation) RJ45 connector, Connected via a switching hub Network protocol: TCP/IP Connection cable: Shielded twisted pair (STP) Category 5 or higher LAN cable Maximum cable distance: 100m (109.36 yd) (between D-2008SP and switching sub) |
| Control | RS-232C, D-sub connector (9 pins) Used for maintenance use |
| Dimensions | 482 (W) × 266 (H) × 138 (D)mm (18.98" × 10.47" × 5.43") |
| Weight | 6.6kg (14.55 lb) |
| Accessory | Power cord (2m (6.5 ft)) × 1, Rack mounting screw × 4, Fader knob (yellow) × 3, Fader knob (red) × 3, Cord clamp (fitting screw) × 1 |

D-2000AD1 Mic/Line Input Module

| D-2000AD1 Mic/Line Input Module | | D-2000DA1 Line Output Module | | D-2000CB CobraNet Interface Module | | |
|---------------------------------|---|---|--|------------------------------------|---|--|
| Input | 4 channels, Mic/Line selectable Mic: -50/-36dB* ¹ , 2.6kΩ, electronically-balanced Line: -10dB* ¹ , 2.6kΩ/+4dB* ¹ , 7kΩ, electronically-balanaced Connector: XLR-3-31 equivalent Phantom power supply (48V DC, | Output 4 channels, +4dB*1/-10dB*1 (changeable), adaptable load of 600Ω or more, balanced (electronically-balanced)/ unbalanced (changeable), XLR-3-32 equivalent D/4 Converter 24 bit | | Network I/F Co | CobraNet: 100BASE-TX, PRIMARY/ SECONDARY 2 system, RJ45 connector, Enables decentralized installation, Audio transmission only) Connection cable: Shielded twisted pair (STP) Cat 5 or higher LAN | |
| | can be used when set for the Mic) Ground lift switch | THD | 0.008% or less | | cable (note: This network should be completely independent of | |
| A/D Converter 24 bit | | | | | other LAN.) | |
| THD | 0.008% or less (+4dB*1 input) | (for desk-top use) | | | Max. 4 | |
| | | Finish | Side Panel: MDF, black, paint, mat Armrest: MDF, leather, black, mat Decorative panel: Stainless steel, silver | | Switching sub stage: Max. 7 Max extend distance: 100m (328.1 ft) (connected via a switching hub) | |
| | | Dimonsions | EQE (M) + 107 E (U) + 200 4 (D) mm | Input | 16 channels, 20/24 bit | |

505 (W) × 127.5 (H) × 333.4 (D) mm (19.88" × 5.02" × 13.13") (assembled)

Input

Output

Human Society with Sound & Communication

Dimensions

TOA Corporation www.toa.jp

16 channels, 20/24 bit

*CobraNet is a registered trademark of Cirrus Logic Corporation.