
TOA PROFESSIONAL SOUND SYSTEM

INTERFACE UNIT

DI-1616



DESCRIPTION

TOA's compact DI-1616 Interface Unit is a dedicated remote control interface device that has been specially designed to enable external computer control of TOA's IP-Series Dual Channel Power Amplifiers in large sound system applications such as halls, theaters and sports facilities. Able to monitor and control up to 8 amplifiers per unit and configurable into systems containing up to 30 Interface Units, the DI-1616's remote control capability facilitates sound system design and installation by permitting the system's amplifiers to be freely positioned—even in close proximity to the speakers—instead of requiring that they be kept close to the control booth. Control and monitoring of the entire system can thus be performed from a single personal computer.

With its Windows 95®-compatible computer control software and user-friendly graphic interface, the DI-1616 provides at-a-glance monitoring of such amplifier operating parameters as power and protection circuitry status, fan operation, and input and output signal levels, as well as easy control of individual input signal levels and mute settings for all the amplifiers in the system.

TOA's DP and DX-Series Signal Processors can be incorporated into the DI-1616's system and controlled with the same program for fully integrated sound system operation. The program's memory function also permits up to 16 patterns of signal level input setup to be saved and quickly recalled by either the PC or the Signal Processors for optimal system configuration versatility.

Sleekly designed with a 1-unit height to fit in a standard 19-inch equipment rack, the DI-1616 features rugged steel chassis construction and an attractive black finish. Optionally available Mini DIN cables provide easy connection to power amplifiers.

FEATURES

1. Slim, lightweight rack-mountable design and 1-unit height facilitate multi-unit rack installations.
2. Capable of controlling up to 8 TOA or IP-Series amplifiers (16 channels) per unit.
3. Up to 30 linked Interface Units can be controlled by a single computer using standard RS-485 control lines.
4. Windows 95®-based computer control software features easy-to-understand graphic interface for easy, at-a-glance monitoring of such amplifier system parameters as power (ON/OFF), protection circuitry (ON/OFF), fan operation (ON/OFF), and input and output signal levels.
5. Computer program also permits connection and simultaneous remote control of TOA's DP or DX-Series Digital Signal Processors (combined systems may total no more than 30 units).
6. Internal memory permits 16 patterns of preset input levels to be called up from a personal computer or from connected DP or DX series signal processors.
7. RS-232C and RS-485 communications ports both provided.
8. CX-9CC-2 (Mini DIN 2 m 9-pin plug) and CX-9CC-5 (Mini DIN 5 m 9-pin plug) accessory cables optionally available.

SPECIFICATION

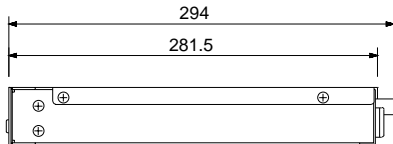
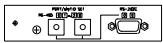
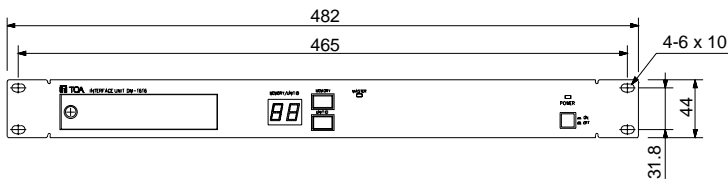
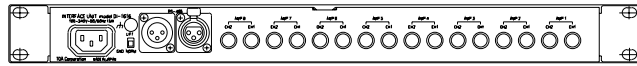
Power requirements	100 – 240 VAC 50/60 Hz
Power consumption	15 W
Frequency response	200 Hz – 20,000 Hz (+0 dB, –2 dB)
T.H.D	Less than 0.07 % (1 kHz, +4 dB*)
Level control	Signal input : 16 channels, +4 dB* (Max. 20 dB*), 10 kΩ, unbalanced, Mini-DIN connector Signal output : 16 channels, +4 dB* (Max. 20 dB*), 2 kΩ, unbalanced, Mini-DIN connector Level setting : 0 to –∞ dB, changeable in 1 dB steps (muting : –∞ dB)
Monitoring	Power supply status, protection, fan operation, input/output signal levels
Memory	16 memory patterns
Control	Control software : PC software (for Windows 95®) Communication system : RS-232C (when controlling only one DI-1616 unit), 9-pin D-sub connector : RS-485 (when controlling Max. 30 units), XLR-3-31 and XLR-3-32 (or equivalent)
Panel function	Memory/ unit ID No. selection switch (16 memories) Memory/ unit ID No. display (2 digits LED)
Finish	Front panel : SPCC t 1.6, black painting Case : Colored steel plate, black
Dimensions (W x H x D)	482 x 44 x 294 mm
Weight	4 kg
Standard accessories	Power cord (2 m) 1, Rack mounting screw4
Optional accessories	Cable : CX-9CC-2 (9 pin Mini-DIN Plug, 2 m) CX-9CC-5 (9 pin Mini-DIN Plug, 5 m)

0 dB = 0.775 Vrms

GUI EXAMPLE OF PC SOFTWARE

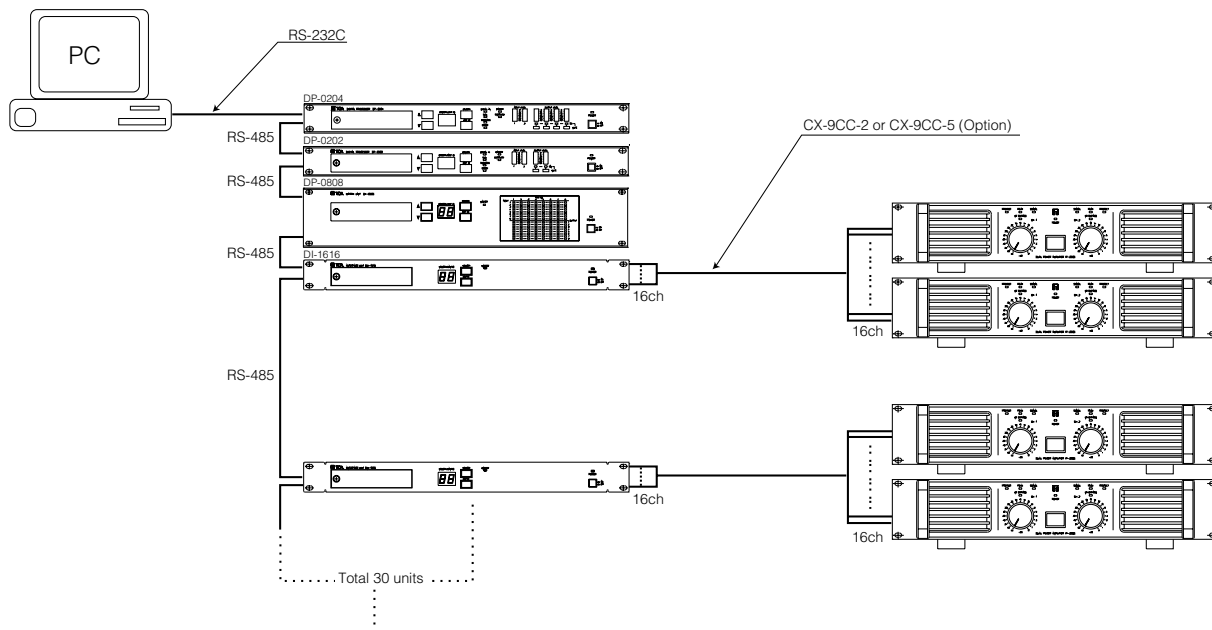


APPEARANCE AND DIMENSIONAL DIAGRAM



Unit : mm

SYSTEM BLOCK DIAGRAM



Specifications are subject to change without notice.
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