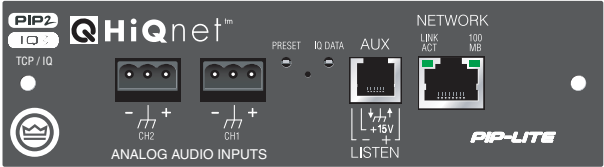


# NETWORKED &

Crown PIP Modules and Accessories

# PRODUCTS ACCESSORIES





## PIP LITE

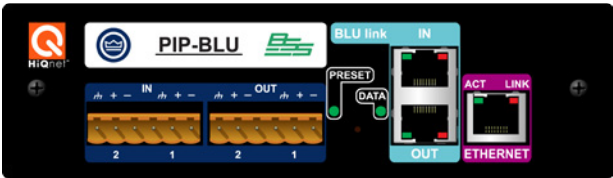
SmartAmp Automation for Networked Audio



The Crown PIP LITE is a PIP (Programmable Input Processor) input module for CTs 2 channel amplifiers. The PIP-LITE connects to an audio control network via 100 Mb Ethernet. The audio path in the PIP LITE is processed totally in the analog domain. The SmartAmp™ feature set offers a range of automation functions which provide greater control over amplifier operation and helps to save both time and money.

### ► FEATURES

- A Programmable Input Processor with system networking capabilities (connects via 100 Mb Ethernet)
- Remote control and monitoring of CTs 2 channel
- Can be connected to the same network used to transmit CobraNet™ audio
- Implements SmartAmp features: input compressors, multimode output limiters, error reporting and load monitoring
- AUX connector with AUX input, AUX output, or Foldback

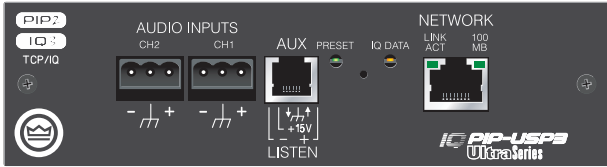


## PIP BLU



The BSS & Crown® PIP-BLU is a PIP™ (Programmable Input Processor) input module for CTs 2 Channel Amplifiers (CTs 600,1200, 2000, 3000). It connects the amplifier to a 100 Mb Ethernet network allowing it to be remotely controlled and monitored using HiQnet™ London Architect as well as providing digital audio transport via BLU link.

The PIP-BLU offers 2 channels of audio via the Soundweb London digital audio bus informally known as BLU Link. This high bandwidth digital audio bus provides easy connectivity with fault tolerance. BLU link features a low latency, fault tolerant digital audio bus of 256 channels which uses standard Category 5e cabling giving a distance of 100m between compatible devices. The BSS Audio MC-1 fiber optic media converter can be used to increase the distance between devices to over 10km (6.2 miles) using single mode fiber.



## PIP USP3/CN

SmartAmp Automation for TCP/IQ



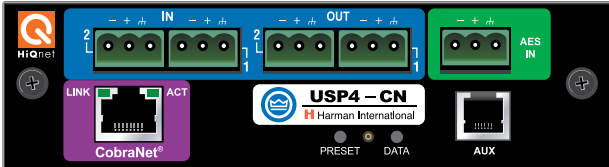
The Crown PIP-USP3/CN is a 3rd generation DSP-based PIP™ (Programmable Input Processor) input module for CTs 2 channel amplifiers.\* It connects the amplifier to a 100 Mb Ethernet network allowing it to be remotely controlled and monitored. In addition, the USP3/CN allows the transport of real-time digital audio via CobraNet™ over the same Ethernet network.

### ► FEATURES

- 100 Mb Ethernet single-plug solution for both CobraNet™ audio and networked control and monitoring
- Analog audio inputs allow audio input to the CobraNet™ network, CobraNet™ audio redundancy, or a hardwire emergency override of CobraNet™ audio
- Foldback amplifier output monitor via CobraNet™
- 24 bit digital to analog conversion with 32 bit, floating point DSP processing
- 64 assignable filters with 9 different filter types including all-pass filters

### ► FEATURES

- Digital Audio Transport via BLU link
- Programmable Input Processor with HiQnet Control
- Remote control and monitoring of CTs 2 channel amplifiers
- 2 analog line level inputs and outputs for 2 x 2 BLU link I/O expansion
- Five Year, No-Fault, Fully Transferable Warranty completely protects your investment and guarantees its specifications
- Implements SmartAmp™ features
- Input compressors
- Multimode output limiters
- Error reporting
- Real time load monitoring



## PIP USP4-CN



The Crown® PIP-USP4 is a 4th generation DSP-based PIP™ (Programmable Input Processor) input module for CTs Series two channel amplifiers. The USP4 connects to an Ethernet network allowing it to be remotely controlled and monitored via HiQnet, System Architect or London Architect. In addition, the USP4 allows the transport of real-time digital audio via AES3 and CobraNet™.

The USP4 is a HiQnet™ series component and connects to the audio control/monitor network using 100Mb Ethernet hardware (switches, Network Interface Cards, and cables). The CobraNet audio signal is available over the same 100Mb Ethernet network, providing a simple to install, single plug solution for audio distribution, control, and monitoring.

The USP4's OMNIDRIVEHD™ processor gives the user an enormous amount of digital signal processing. LevelMAX™ limiters, proprietary FIR and IIR filters, audio routing, faders, meters, polarity & mute, compressors, delays, error reporting and load monitoring are all available. Built in noise and sine-wave generator provide noise masking and test capabilities. The enhanced AUX port allows users to interface with the USP4 to provide additional external control and monitoring.

Offering crisp clear sound and the widest dynamic range possible, the PIP-USP4 provides unprecedented power and flexibility in one compact—and very affordable—module.

### ► FEATURES

- Onboard high-definition 96kHz OMNIDRIVEHD™ processing with 24-bit, 192 kHz Cirrus Logic A/D and D/A converters
- World-class FIR and IIR filters
- LevelMAX™ peak, RMS and transducer thermal voltage power limiters combine for a smooth and accurate response, better sound, and higher usable SPL
- 100Mb Ethernet single-plug solution for CobraNet™ audio and HiQnet™ control and monitoring
- Auto Standby for increased energy efficiency
- Multiple Input Options Include: Analog, CobraNet™ or AES3 Digital Audio
- Digital Audio On/Off Ramp allows users to send pre or post processed analog signal out of the module to adjacent amplifiers
- Amplifier output monitor using the Foldback control through the CobraNet network
- SLM (Sweep Load Monitoring) with system-level diagnostics
- 64 assignable filters with 9 different filter types including all-pass filters
- Over 4 seconds of delay available per channel
- Input compressors for each channel
- Full error reporting
- Firmware upgrades via the network
- 50 user selectable presets
- Reliable FLASH memory backup of all parameters
- Five Year, No-Fault, Fully Transferable Warranty completely protects your investment and guarantees its specifications
- Ambient Leveler senses the ambient sound level of a room via the connected loudspeakers



# ACCESSORIES



## 1-VCAP & 4-VCAP

### ► FEATURES

- 1-VCAP provides remote volume control for one or more CTs amplifier channels
- Fits into a 1-gang electrical box
- 4-VCAP provides remote volume control for four or more CTs amplifier channels
- Fits into a 2-gang electrical box

### Wall-Mount Controllers

Crown VCAP panels are wall-mounted panels with potentiometers that provide remote control of the volume of Crown CTs amplifier channels via a VCA-MC4 or VCA-MC8 module installed in the amplifier. Two models are available: 1-VCAP and 4-VCAP.

**1-VCAP:** Used in conjunction with a VCA-MC module, this is a 1-gang panel with one potentiometer that provides remote volume control for one or more CTs amplifier channels. The potentiometer on the panel is wired directly to the VCA connectors on the VCA-MC.

**4-VCAP:** This is a 2-gang panel with four potentiometers that provide remote volume control for four or more CTs amplifier channels. The potentiometers on the panel are wired directly to the VCA connectors on the VCA-MC.



## VCA-MC4A & VCA-MC8

### ► FEATURES

- Independent remote level control for each channel
- 4-pin removable Phoenix-style barrier connectors provide the +10VDC control voltage, ground, and control lines for two amplifier channels
- Optional wall-mount level control panels for use with VCA modules: 1-VCAP and 4-VCAP

### Remote Level Control

The Crown VCA-MC4A and VCA-MC8 are optional level-control modules for the Crown CTs multi-channel power amplifiers. The VCA-MC4A is for the CTs 4200, and the VCA-MC8 is for the CTs 8200.

A VCA-MC module provides independent remote level control for each channel. 4-pin removable Phoenix-style barrier connectors provide the +10VDC control voltage, ground, and control lines for two amplifier channels. Thus, the 4-channel CTs 4200 uses two connectors; the 8-channel CTs 8200 uses four connectors. Crown CTs 4200 and 8200 amplifiers can be supplied with a VCA-MC module already factory-installed, or your choice of MC modules can be easily added to the amplifier by any authorized Crown Service Center.

### Choosing the Right Module

To order accessory modules for your amplifier, please refer to the model tag (located on the back panel of the amplifier) for your amplifier's specific model number. Then refer to the information below to select the correct accessory for your requirements.

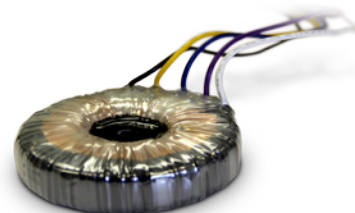
**CTs 4200:** VCA-MC4 or IQ-MC4

**CTs 4200A:** VCA-MC4A or IQ-MC4A

**CTs 8200 or CTs 8200A:** VCA-MC8 or IQ-MC8

### Regulatory Certifications

For all CTs Multi-Channel Amp Accessories:



## T-170V Constant-Voltage Transformer

The Crown **T-170V** is a single autoformer that provides impedance matching between an amplifier output and "constant voltage" loudspeakers. It allows amplifiers without direct 70V or 100V output capability to drive distributed speaker systems designed to operate at those voltages.



## TP-170V Constant-Voltage Transformer Panel

The Crown® **TP-170V** is a rack-mountable panel with four autoformers to provide impedance matching between amplifier outputs and "constant voltage" loudspeakers. This unit allows amplifiers without direct 70V or 100V output capability to drive distributed speaker systems designed to operate at those voltages. The TP-170V is constructed of sturdy steel, and hinged on one side to allow easy access to the inside connections.

**cya**

(cover your amp)

### 3PLUS3 3+3 Extended Warranty

Crown's No-Fault, **3+3 Extended Warranty** package extends the terms of your original full warranty for an additional three years, thus covering years four through six. Available for Crown amplifiers only.

# ACCESSORIES

## XFMR-4 & XFMR-8

### ► FEATURES

- Transformers provide four and eight channels of impedance matching for Constant-Voltage operation
- Provides 70V and 100V output when used only with Com-Tech DriveCore (CT 475, CT 875, CT 4150 and CT 8150)
- Allows amplifiers without direct Constant-Voltage capability to be easily integrated into distributed systems
- "Jumper" cables are provided to easily incorporate the XFMR unit with a Com-Tech DriveCore amplifier



### Constant-Voltage Transformers

The Crown XFMR-4 and XFMR-8 are rack-mountable transformers to provide impedance matching between amplifier outputs and "constant voltage" loudspeakers. This unit allows amplifiers without direct 70V or 100V output capability to drive distributed speaker systems designed to operate at those voltages.

# COMMERCIAL AUDIO ACCESSORIES

## RM1 Rack-Mounting Kit

The Crown **RM1** is a single-unit rack-mounting kit. It is designed to be used with Commercial Audio models 135MA and 160MA mixer-amplifiers.

## IST Isolation Transformer

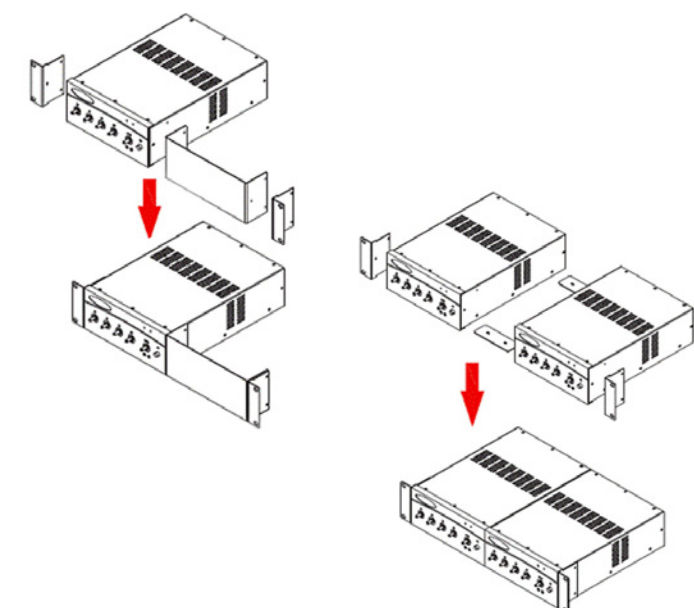
The Crown **IST** is a 600-ohm to 600-ohm isolation transformer used for telephone connectivity. It is designed to be used with Commercial Audio models 135MA and 160MA mixer-amplifiers.

## RM2 Rack-Mounting Kit

The Crown **RM2** is a dual-unit rack-mounting kit. It is designed to be used with Commercial Audio models 135MA and 160MA mixer-amplifiers.

## S-COVER Security Cover Bulk Pack

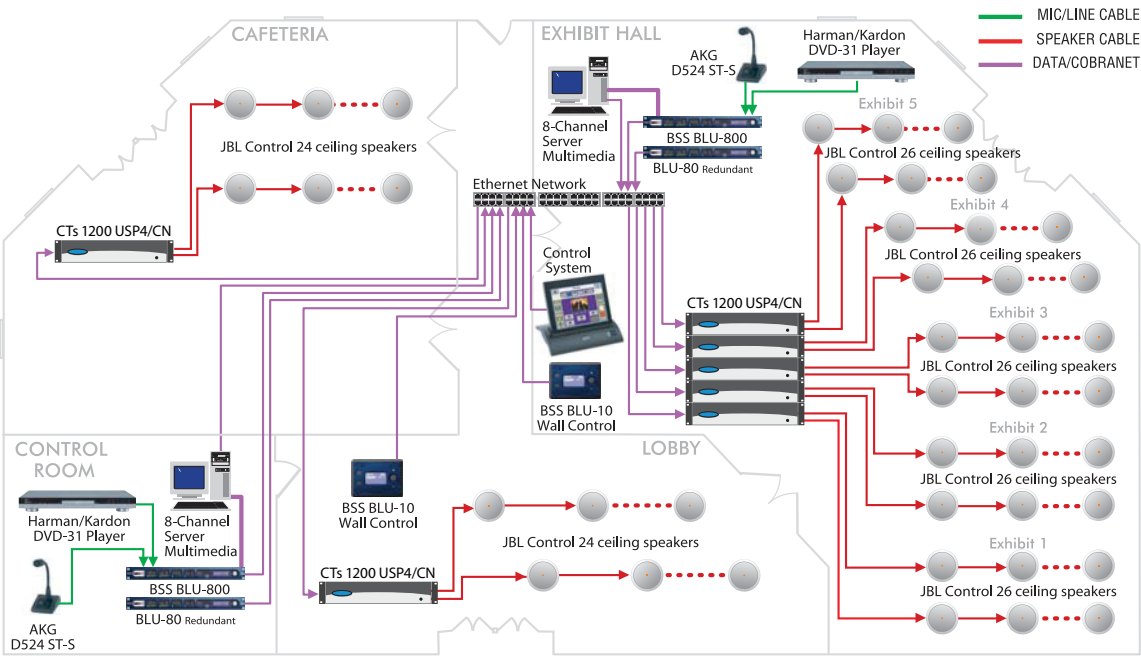
The Crown **S-COVER** is a 10-pack of security covers. It is designed to be used with Commercial Audio models 135MA and 160MA mixer-amplifiers.



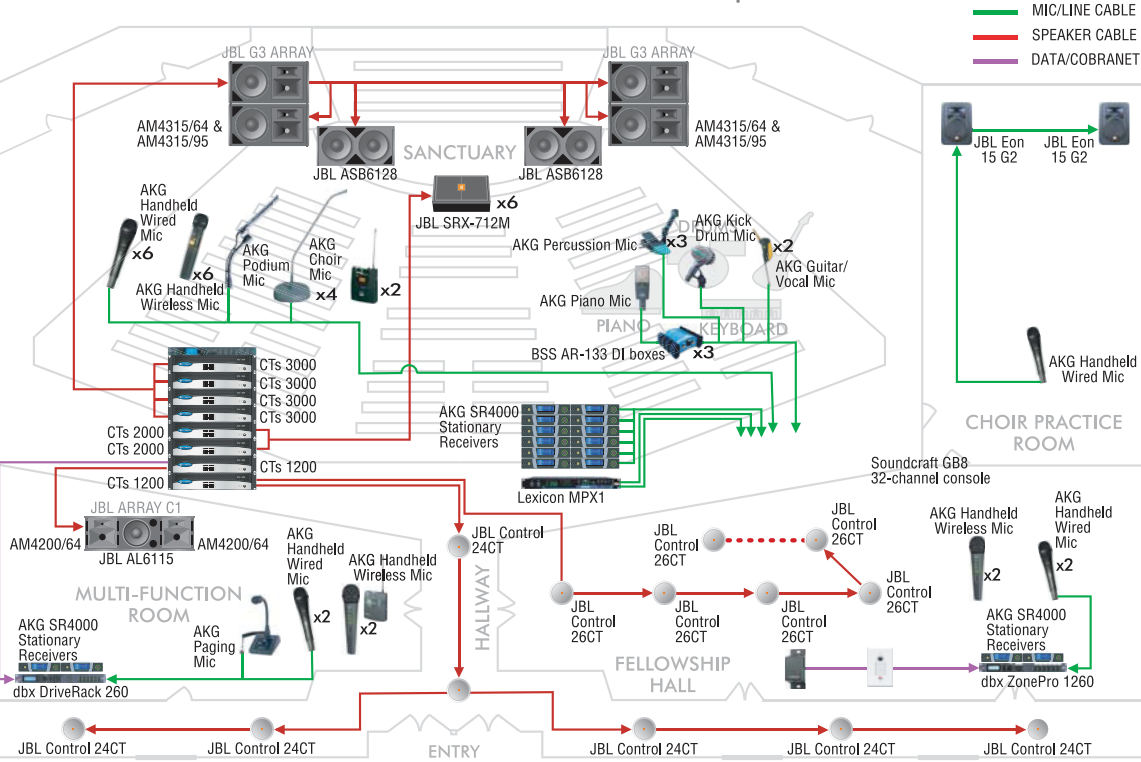
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# PRODUCT APPLICATIONS

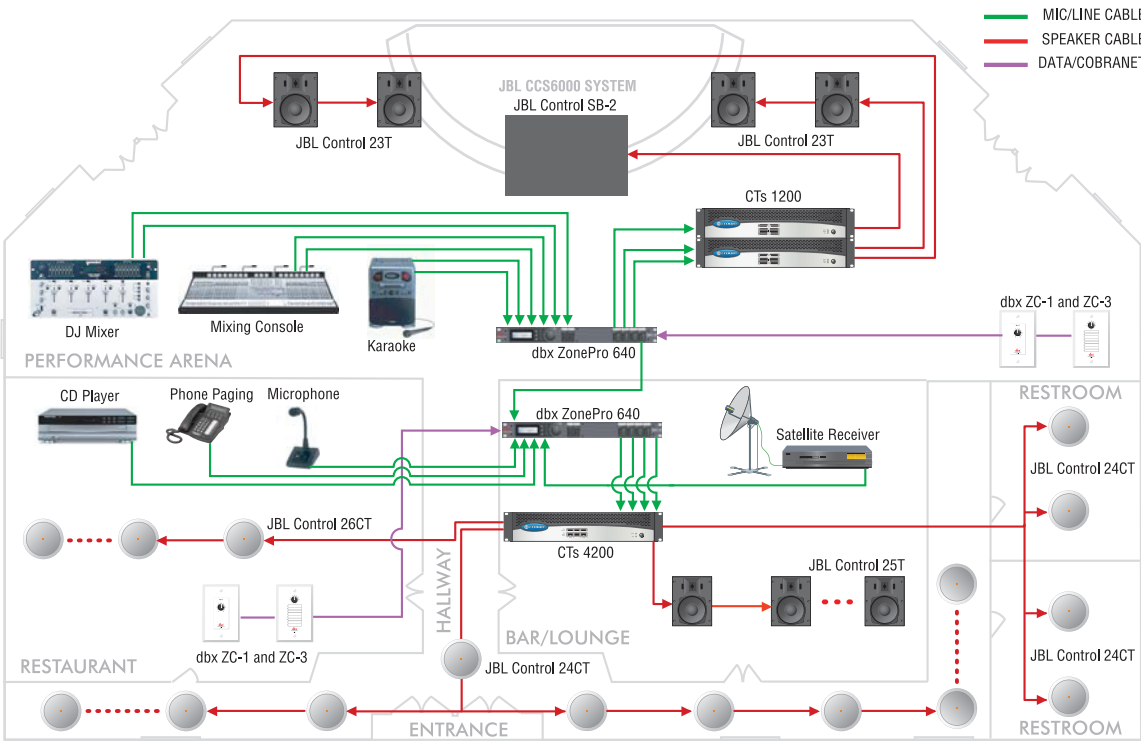
## Museum Installation



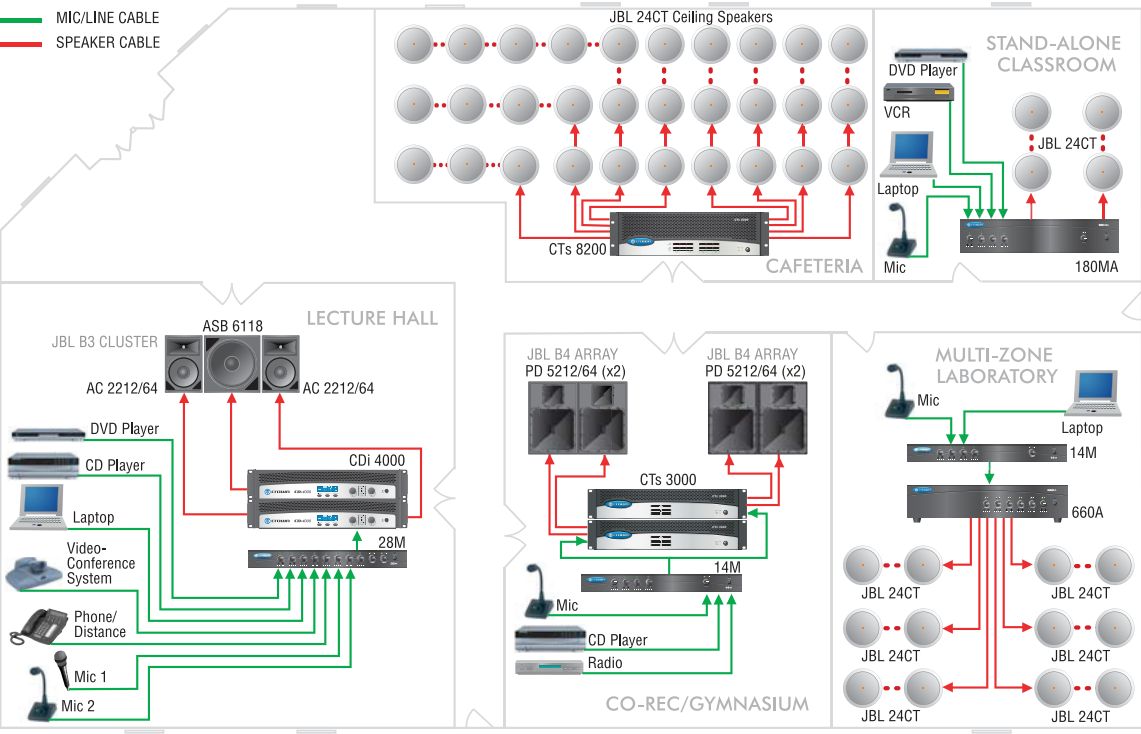
## House of Worship



## Nightclub & Restaurant



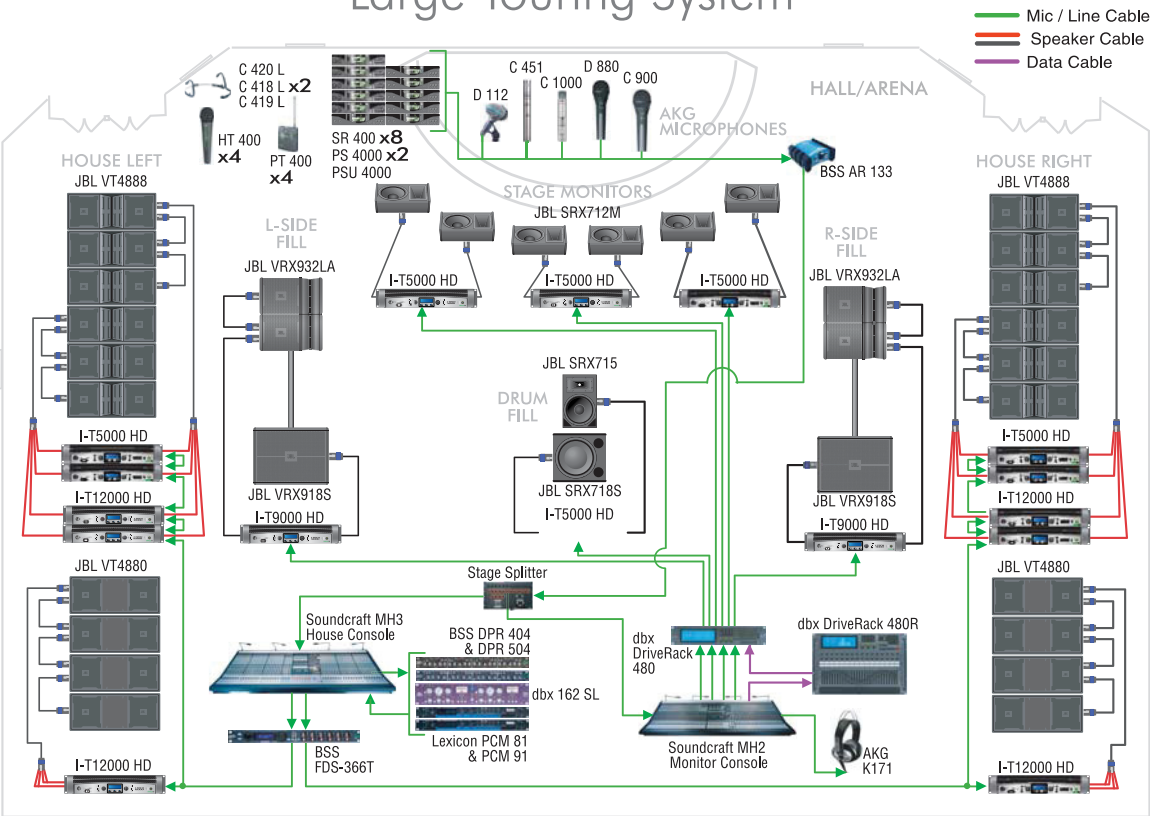
## Education Facility



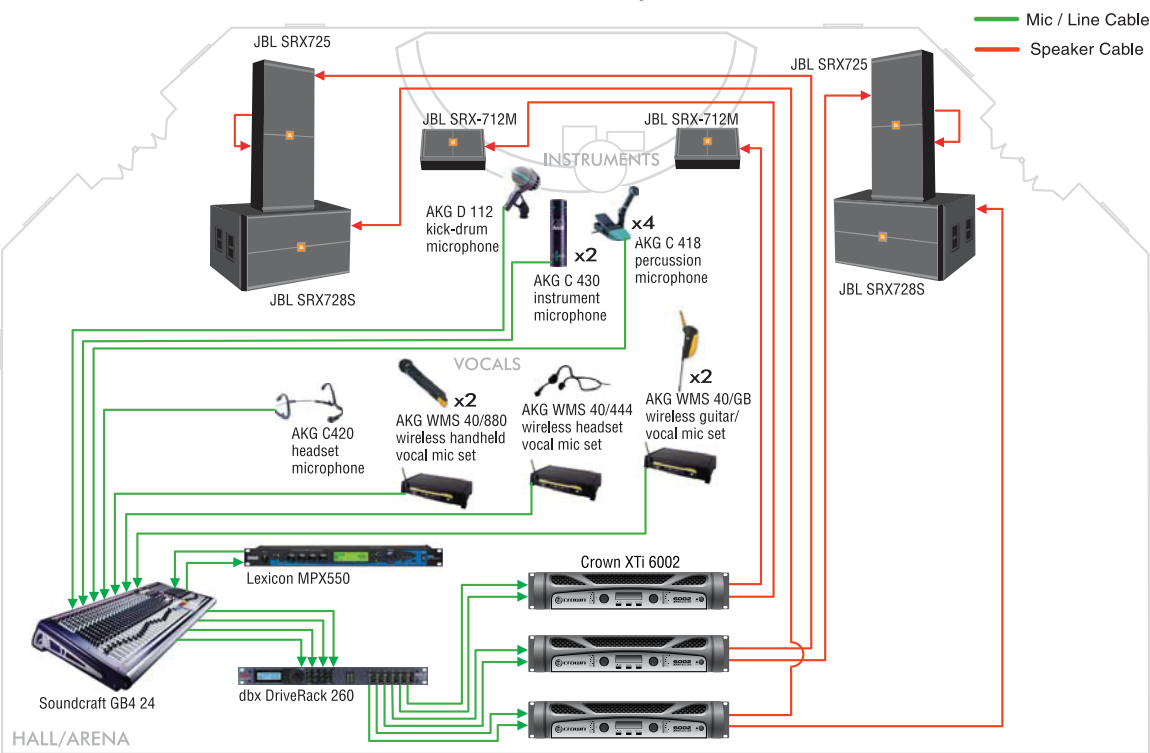


# PRODUCT APPLICATIONS

## Large Touring System



## Live Band System



## Crown Amplifier Warranty USA AND CANADA

### SUMMARY OF WARRANTY

Crown International, 1718 West Mishawaka Road, Elkhart, Indiana 46517-4095 U.S.A. warrants to you, the ORIGINAL PURCHASER and ANY SUBSEQUENT OWNER of each NEW Crown product, for a period of three or five (3 or 5) years from the date of purchase by the original purchaser (the "warranty period") that the new Crown product is free of defects in materials and workmanship. We further warrant the new Crown product regardless of the reason for failure, except as excluded in this Warranty. Products having a five (5) year warranty period include the CTs series, the MAi series, and the ITHD series; all other Crown products have a three (3) year warranty period.

Warranty is only valid within the country in which the product is purchased.

### ITEMS EXCLUDED FROM THIS CROWN WARRANTY

This Crown Warranty is in effect only for failure of a new Crown product which occurred within the Warranty Period. It does not cover any product which has been damaged because of any intentional misuse, accident, negligence, or loss which is covered under any of your insurance contracts. This Crown Warranty also does not extend to the new Crown product if the serial number has been defaced, altered, or removed.

### WHAT THE WARRANTOR WILL DO

We will remedy any defect, regardless of the reason for failure (except as excluded), by repair, replacement, or refund. We may not elect refund unless you agree, or unless we are unable to provide replacement, and repair is not practical or cannot be timely made. If a refund is elected, then you must make the defective or malfunctioning product available to us free and clear of all liens or other encumbrances. The refund will be equal to the actual purchase price, not including interest, insurance, closing costs, and other finance charges less a reasonable depreciation on the product from the date of original purchase. Warranty work can only be performed at our authorized service centers or at the factory. Warranty work for some products can only be performed at our factory. We will remedy the defect and ship the product from the service center or our factory within a reasonable time after receipt of the defective product at our authorized service center or our factory. All expenses in remedying the defect, including surface shipping costs in the United States, will be borne by us. (You must bear the expense of shipping the product between any foreign country and the port of entry in the United States including the return shipment, and all taxes, duties, and other customs fees for such foreign shipments.)

### HOW TO OBTAIN WARRANTY SERVICE

You must notify us of your need for warranty service within the warranty period. All components must be shipped in a factory pack, which, if needed, may be obtained from us free of charge. Corrective action will be taken within a reasonable time of the date of receipt of the defective product by us or our authorized service center. If the repairs made by us or our authorized service center are not satisfactory, notify us or our authorized service center immediately.

### DISCLAIMER OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

YOU ARE NOT ENTITLED TO RECOVER FROM US ANY INCIDENTAL DAMAGES RESULTING FROM ANY DEFECT IN THE NEW CROWN PRODUCT. THIS INCLUDES ANY DAMAGE TO ANOTHER PRODUCT OR PRODUCTS RESULTING FROM SUCH A DEFECT. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATIONS OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

### WARRANTY ALTERATIONS

No person has the authority to enlarge, amend, or modify this Crown Warranty. This Crown Warranty is not extended by the length of time which you are deprived of the use of the new Crown product. Repairs and replacement parts provided under the terms of this Crown Warranty shall carry only the unexpired portion of this Crown Warranty.

### DESIGN CHANGES

We reserve the right to change the design of any product from time to time without notice and with no obligation to make corresponding changes in products previously manufactured.

### LEGAL REMEDIES OF PURCHASER

THIS CROWN WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE. No action to enforce this Crown Warranty shall be commenced after expiration of the warranty period.

THIS STATEMENT OF WARRANTY SUPERSEDES ANY OTHERS CONTAINED IN THIS MANUAL FOR CROWN PRODUCTS.

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