

# Installation

*This chapter gives installation hints and instructions*

## 2. Unpacking & Inspection

**U**pon opening the shipping container, examine your **CDQPrima** for mechanical defects. Report any problems promptly to MUSICAM USA or your sales representative. Plug the unit into the main power and turn on the unit by the rear panel power switch. No adjustments for line voltage or frequency are required. The front panel LCD should illuminate and display the power-up boot sequence. The power-up sequence will take about 30 seconds to complete.

### 2.1 Location of Units

The **CDQPrima** has been designed to allow installation at locations with high RF fields and unstable power supplies. The **CDQPrima** may be used with any AC source between 85 and 250 VAC, 47 to 63 Hz. The only consideration when rack mounting your **CDQPrima** is that **the side mounted cooling fan cannot be blocked**.

### 2.2 Environmental Considerations

It is important that the ambient temperature specifications are met. It is usually possible to stack **CDQPrima** units directly on top of other electronic equipment; however, this should be avoided if the lower equipment produces a lot of heat. It is important that the **CDQPrima** not be exposed to condensing humidity or fungal environments.

Rev. 6

**CDQPrima** now comes with a thermostatically controlled cooling fan that can be turned off by the user when silent operation is required. The fan will automatically turn on if an over-temperature condition exists.

### 2.3 Configuration Dependencies

The **CDQPrima** can be used with a variety of digital transmission facilities. Typical applications consist of ISDN, satellite and dedicated facilities. The cable lengths for the interconnections can be from centimeters to kilometers, and are determined by the specifications of the interface you are using. It is important to use twisted pair cable with an overall shield for the compressed audio. Flat ribbon cable should be avoided.

The digital audio interconnections are much less tolerant to longer cable lengths. Distances of 100 feet (30 meters) should be considered an upper limit. Good cable construction is a necessity for digital audio cables. High quality cables and connectors should be used for all interconnections, both analog and digital. Remember, whatever impairments are introduced before the signal reaches the encoder will appear at the output of the decoder. The cable adapters required for AES/EBU audio on the 100 series models can be found in Appendix B.

### 2.4 Remote Control Considerations

The **CDQPrima** may be completely remote controlled by a host computer or terminal. The computer or terminal can be co-located with the **CDQPrima**, or can be located thousands of miles away and connected through a modem. The remote control connection can be made directly, through a modem on some models, or even through the network carrying the compressed audio bit-stream. A rich command set can be used to control the entire operation of the **CDQPrima**. See the [CDQPrima Remote Control Manual](#) and the [CDQPrima Technical Reference Manual](#) for a complete description of **CDQPrima** remote control commands. A powerful and easy-to-use remote control program which operates under Microsoft Windows<sup>®</sup> is also available. Alternatively, any terminal emulation program can be used on any computer platform as long as up to 9600 Baud, 8 data bits, 1 stop bit, and no parity is supported.

#### 2.4.1 Remote Control of Models 110 and 120

The 100 Series can be locally controlled and configured via either RS232 or RS485. On all models, the RS232 and RS485 ports share the same physical connector. Refer to the [CDQPrima Technical Reference Manual](#) for the wiring of the required adapter cables. Control and configuration from a remote location can also be accomplished through the digital network. The Model 120 provides an additional front panel RS232 remote control port for quick local access.

#### 2.4.2 Remote Control of Models 210, 220, and 230

The 200 Series shares the same remote control capabilities as the 100 Series models, but the 200 Series also supports full modem control on the rear panel remote control port. In addition to the combined RS485/RS232 as on the 100 Series, there are also separate RS485 and RS232 ports available whose functions are for custom applications (contact us for details if required). An additional front panel RS232 port is standard on models 220 and 230. Refer to **CDQPrima** Technical Reference Manual for the necessary cables.