



# ***MDS-6A***

## ***Music Distribution System***



- **Six Source/Six Zone Configuration**
- **12 Channel x 40 Watts per Channel Power Amplifier**
- **Zone on/off Status Indicators**
- **Quick and Easy Programming**
- **User Feedback to all Back-lit System Keypads**
- **Easy to Install and Maintain**
- **Six Source-Specific, Routed IR Output ports**
- **Easy Telecom Expansion (available at a later date)**

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## **INTRODUCING...**

### **The New MDS-6A Multi-Room, Multi-Source Music Distribution System**

#### **Features...**

- **Six Source/Six Zone Configuration**
  - ◆ *Independently listen to and control up to six different audio sources in six distinct listening areas (zones)*
- **12-Channel x 40 Watts-per-Channel Power Amplifier**
  - ◆ *More than enough power to drive a house full of speakers*
- **Zone On/Off Status Indicators**
- **Quick and Easy Programming**
- **User Feedback to all Back-lit System Keypads**
  - ◆ *Source Selection, Zone On/Off, Volume Level, Mute, Do-Not-Disturb, Whole-House Music Status, and more*
- **Easy to Install and Maintain**
  - ◆ *Removable Speaker Terminals*
  - ◆ *RJ-45 Keypad Jacks*
- **Six Source-Specific, Routed IR Output ports**
  - ◆ *Allows the use of multiple "same make/model" source components without conflict or interference*
  - ◆ *An ALL IR port is also provided*
- **Easy Telecom Expansion (available at a later date)**

The MDS-6A is an all-in-one music distribution system that can accept up to six different music sources. It offers 480 Watts of system power, 40 Watts per channel, with up to 12 channels available.

The MDS-6A offers the installer a Page/Doorbell input jack as well as a Music-on-hold output jack for interconnection of an optional Communications Controller. Volume level adjustments are provided to customize the level of each of these features. (Contact your ChannelPlus sales representative for information about the addition of this feature set.)

Music Control is provided via either the MCS-1A or MCS-2A keypads. Each provides you with flexible control over the MDS-6A and connected music sources and gives the user feedback on the status of the system. The keypads are **back-lit** and are supplied with white and almond bezels.

The MCS-1A is a single-gang Decora™ style controller with volume, mute, and source selection buttons. An IR target is provided that allows complete control of the connected music source. Learning Remotes can be configured to duplicate the MCS-1A's volume, source and mute control.

For complete system control, use the MCS-2A double-gang control. Equipped with all of the functions found in the MCS-1A, the MCS-2A adds total source control to the MDS-6A system. A full learning keypad with onboard universal code library, the MCS-2A will learn IR codes from each of the six sources including track selection, play, start, stop and other key functions. In addition, the keypad can learn up to 25 macros with 10 steps each. Macro codes are permanently stored and can be cloned between additional MCS-2A controllers.

## MCS-1A



### MCS-1A—Source, Volume Control Keypad

- Single-gang mounting
- Connects via RJ-45 connector
- Decora™ style wall plate provided in White and Almond
- Allows selection of any source
- Allows Volume Up/Down and Mute per each zone
- Multi-colored, back-lit LED keys:
  - ◆ Red—selected source
  - ◆ Green—normal backlight color
  - ◆ Yellow—Whole House Music on selected Source button, Do-Not-Disturb on Mute button
- Full IR pass-through
- Button caps can be customized for the installation (32 additional button caps provided)
- Two keypads can be used in the same speaker zone

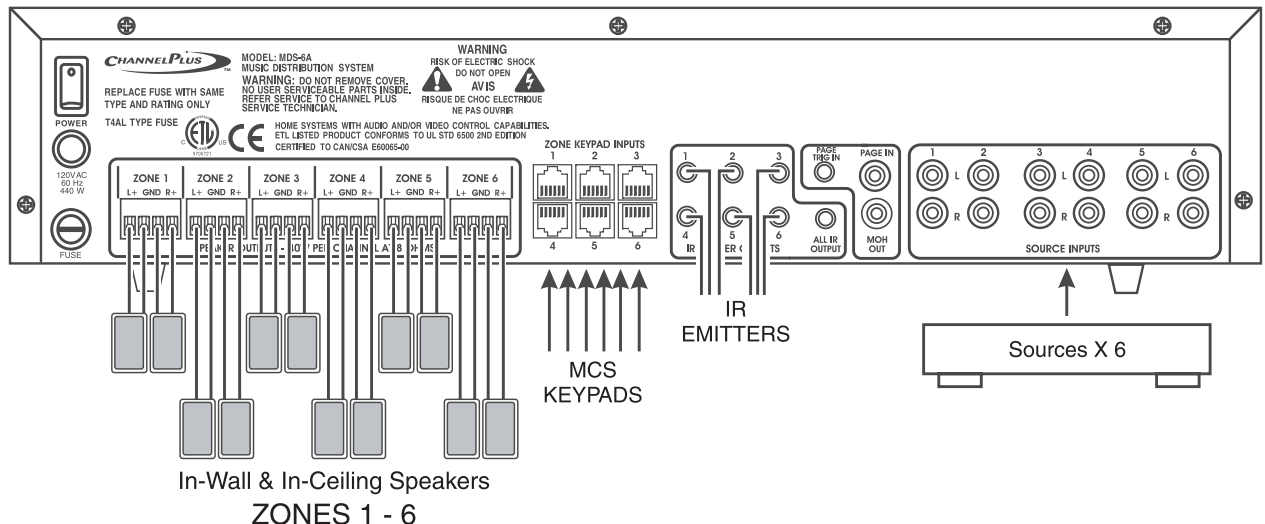
## MCS-2A



### MCS-2A—Multi-function Control Keypad

- Double-gang mounting
- Same Features as MCS-1A plus.....
- Programmable transport buttons:
  - ◆ Play
  - ◆ Stop
  - ◆ Pause
  - ◆ Skip Forward
  - ◆ Skip Backward
  - ◆ Next Track
  - ◆ Previous Track
- Can learn up to 25 macros with 10 steps each
- User assignable delays for macros
- Data cloning between keypads
- Extensive On Board IR Code library simplifies source IR code programming

**WARRANTY**—The MDS-6A, MCS-1A, and MCS-2A are warranted for a period of two years.





## SYSTEM SPECIFICATIONS

### MDS-6A FRONT PANEL INDICATORS & CONTROLS

Zone status indicators	..... Lit LED Indicates Zone On
Power Indicator	..... Lit LED Indicates Power On
IR Activity Indicator	..... Flashes When IR is Received and During Keypad Activity
Music-on-hold Volume	..... Hidden Gain Adjustment
Page/doorbell Volume	..... Hidden Gain Adjustment

### MDS-6A INPUTS

Source Inputs	..... 6 Left-right Pairs of RCA Jacks
Keypad Zone Inputs	..... 6 RJ-45 Jacks
Page/doorbell Audio Input (future use)	..... 1 RCA Jack (47K $\Omega$ Impedance)
Page/doorbell Trigger Input	..... 1/8" Phono Jack, Triggers on Contact Closure

### SOURCE INPUT SPECIFICATIONS

Input Sensitivity	..... .2 Volts RMS Max.
Input Impedance	..... 47K $\Omega$

### MDS-6A OUTPUTS

Speaker Zone Connectors	..... 6 Quick-connect Removable Terminal Blocks
IR Emitter Outputs	..... 1/8" Phono Jacks, 1 for Each Zone + 1 Combined Output
Music-on-hold (MOH) Output	..... 1 RCA Jack (1K $\Omega$ Impedance)

### AMPLIFIER OUTPUT

Output Power Per Channel	..... 40W @ 8 $\Omega$
Number Of Channels	..... 12 (6 Left-right Pairs)
Total Output Power	..... 480W @ 8 $\Omega$
Speaker Impedance	..... 8 $\Omega$
Frequency Response	..... 20Hz to 20kHz $\pm$ 1 db
THD + Noise (@ 1KHz)	..... .02%
Signal-to-noise	..... >95dB
Crosstalk (Zone To Zone)	..... >70dB

### KEYPAD BACK-LIT BUTTON INDICATORS

Source Buttons	
Green	..... Source is Off
Red	..... Source is On
Yellow	..... Source is in Whole-house-music Mode
Mute Button	
Green	..... Speaker Zone at Normal Volume Setting
Red	..... Speaker Zone Muted
Yellow	..... Speaker Zone in Do-not-disturb Mode