

# MX-980 Master Remote

Simplify the Complex, Customize for Every User and Enchant Your Clients with Color.

## Stunning QVGA Color LCD

The 2.4" 240 x 320 pixel screen provides a visual feast for your clients with an incredibly detailed 160 pixel per inch view. Capable of 262,144 colors, the screen labels eight hard buttons with icons and sharply readable text.

MX-980 Editor provides thousands of icons in galleries for every purpose, from selecting activities to favorite Satellite Radio stations.

## Whole House Device Control

Transparently to your client, the MX-980 routes commands three ways: line of sight IR, RF via an MRF base station or MSC Trigger to an MSC-400. Thus, one macro step might command the drapes to open via line of sight IR, while the next step powers on the local TV via RF to a locally placed MRF base and still another step configures the correct Satellite Receiver in the equipment closet via an MSC-400 trigger command.

## Perfect MSC-400 Integration

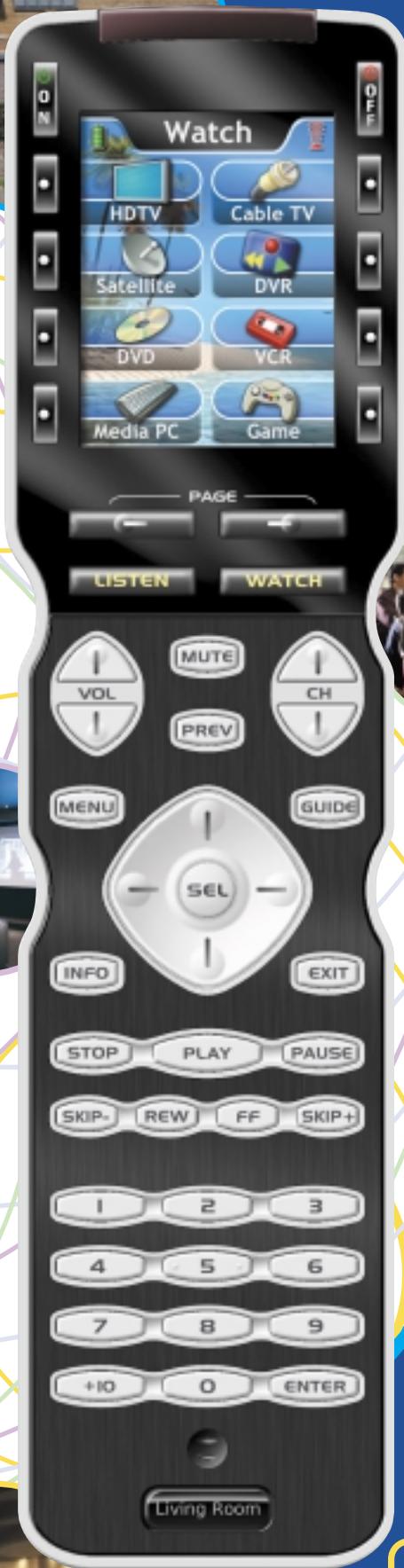
The MX-980's OpenArchitecture™ PC Editor unleashes the possibilities of Master System Control automation via MSC-400. Any button, any screen can be programmed with MSC Triggers, providing your system designs with perfect reliability and predictability (and maximum referrals).

## Animated Status Screens

When the MX-980 is "busy" reconfiguring your client's system with a macro, the screen can be filled with customizable animations that lets the client know that your programming is automating their system with a cool, colorful animated graphic.

## Elegant Recharging Base

The MX-980's Lithium Ion battery can be used without rules. The battery does not retain a "memory" like other rechargeable batteries and can be kept charging for any length of time. When the MX-980 needs charging, your client simply places it in the convenient charging base.



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# MX-980 OpenArchitecture™

## Incredibly Fast, Structured Programming with a New File

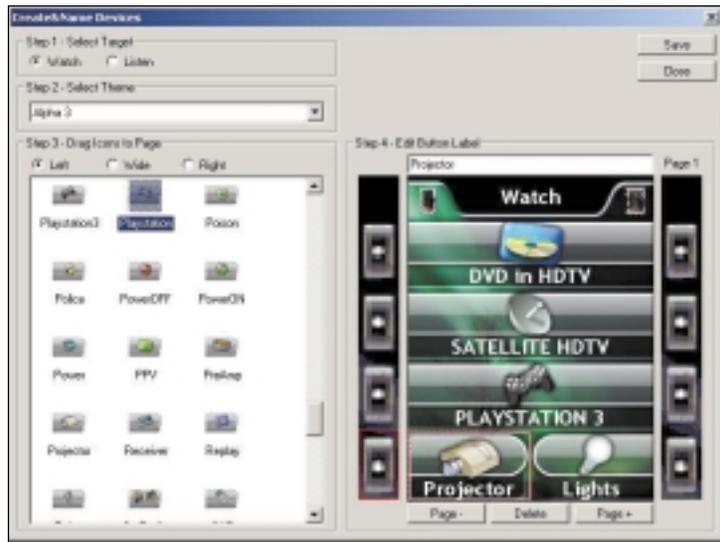
When starting from scratch, MX-980's OpenArchitecture enables you to start a new project with any template.

You can start from a file with no devices prebuilt and create your own freely, or opt to delete from a template with 8 or 16 devices.



## Drag to Create New Devices Complete with Icons and Text

Editing the layout of the Watch and Listen Main Menus is a snap with the newly designed Create and Name Devices window. Simply choose whether your label is Left, Right or Joined (combines two buttons into one) then drag the appropriate icon to the menu position. Once you click on Save, the empty device is created (complete with a pre-programmed Page Jump).



## Build Graphic Layouts Your Way

Before applying any IR codes or MSC triggers, the programmer builds button layouts for each device the MX-980 controls. Instead of the laborious creation of each button graphic, MX-980 Editor offers an automated process. Simply select the kind of device you want, create it, then apply the correct button layout to the device.

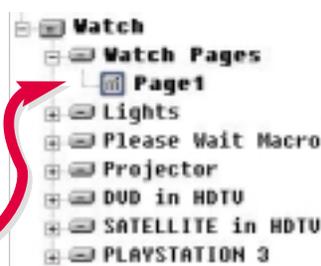
## Label Buttons Freely Via Drag and Drop Navigator

Customize the LCD button layout with new text labels via the IR Database Navigator, now improved with text replacement to any button you drag to. In seconds, a programmer can completely revise the layout of a device. Simply replace the text and the IR command.



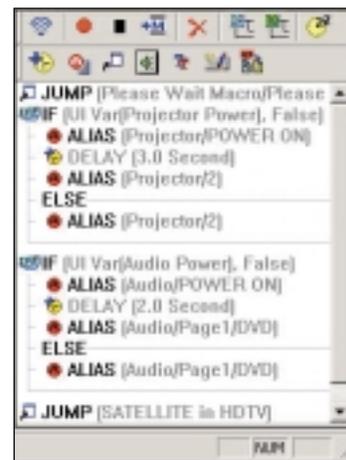
## Instantly Navigate Existing Files

Like all OpenArchitecture MX Editors, you can open an existing file and instantly access any part of the file by clicking in Tree View.



## Fast Powerful Macro Programming with Advanced MS-400 Logic

The MX-980 Editor opens the door to IF/ELSE and TOGGLE logic, enabling sophisticated automation of complex systems. You can view all the details of a macro by simply clicking on the button in Simulator View. In the Macro Window, you can inspect your programming, drag to rearrange the order or logic of steps and copy and paste commands or groups of commands from one macro to another.



# PC Editing

## At a Glance, Identify or Test any Button's Programming

In Simulator View any button with programming is FLAGGED, giving you an instant glimpse into the functionality of each page.

**T** An MSC-400 Trigger Command

**M** A Macro

**PT** Punch Through

**P** Pre Programmed IR Database Command

**L** Learned IR Command

By simply navigating through the pages of a customer's file you can easily identify a missing command. More importantly, by selecting a button you can view any command in the button's action list and test it individually.



## Quickly Drag and Drop Codes and Triggers

As with all OpenArchitecture MX Editors, you can import codes from work you've done on other remote controls using the Universal Browser. When programming triggers, a quick drag from the browser to either the selected button or the macro window is all that it takes to harness the sophistication of the MSC-400.



## MX-980: Narrow Band RF and MSC-400 Compatible

Any audio video system, by its very nature, includes components with high speed microprocessors which produce wide band localized RF interference. The combination of the MX-980 Narrow Band RF Transmitters with the RFX-250 provides ultra reliable RF via the extraordinarily specific narrow band reception of the RFX-250.



*RFX-250 Narrow Band RF Receiver (Included with the MRF-350 and MSC-400 System)*

The RFX-250 is included with both the MRF-350 Routing Base Station and the MSC-400 Master System Controller.



*MSC-400 Master System Controller*

The MX-980 is compatible with the new MSC-400 "Trigger" protocol, which enables complex macros, stored in the MSC-400, to be individually triggered with a single button push on the MX-980 regardless of the interference and noise in the environment.

The combination of very narrow transmission of digitally encoded packets sent THREE times at digital speeds in milliseconds, assures that every button press on the remote will be received by the MSC-400. The MSC-400's instantaneous error correction compares the three packets. Once two packets are identified as identical, the MSC-400 goes to work.



*Narrow Band RF Transmission*

This new technology not only increases range, but increases reliability by a vast margin. The MX-980 is equipped with both the new Narrow Band Transmitters and the new RF Protocol for the MSC-400.

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# The Ultimate IR/RF User Interface

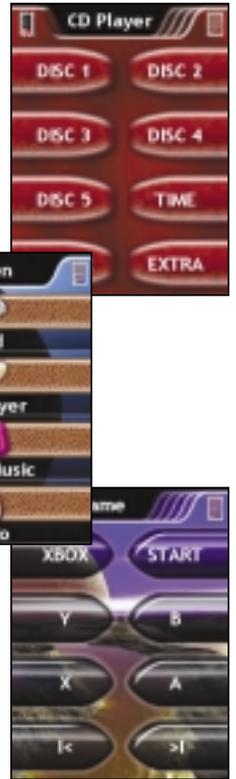
## One Handed, No Rules Operation

### Automatic Backlighting

The integral motion sensor detects any movement of the remote control and automatically backlights the screen. You do not have to press any button to display the screen. Any movement of the MX-980 renews the backlighting.

### An MX-980 in Every Room

Specify a customized MX-980 for every room in a house. Use the included set of preprinted room labels to fit in the coiled area at the base of the control to identify which remote is customized for each room.



### Customize with Themes, Icons, Animations & Sound

Like the MX-3000, the MX-980 displays any of the acclaimed factory themes or your own customized versions via the galleries of icons, animations and sounds. Additionally, you can play back a WAV file with a button press or as a step in a macro.

### Specifications

- Microprocessor:** ARM9 32bit 202MHz
- LCD:** 2.4" TFT(QVGA) 262,144 Colors
- Memory:** 64 Megabytes of SDRAM & 34 Megabytes of Nand Flash
- Devices:** Supports up to 255 Devices with text, less with heavy graphics usage
- Pages:** Supports up to 255 Pages on each Device with text, less with heavy graphics usage
- Learning Capability:** Standard frequencies (15kHz to 455kHz)
- Macro Capability:** Up to 255 steps each, however nesting is allowed

- IR Range** (Line of Sight via Infrared): 30 to 50 feet, depending upon the environment
- RF Range** (Radio Frequency): 50 to 100 feet, depending upon the environment
- RF Frequency:** 418 MHz (Narrow Band)
- Batteries:** 3.7 Volt Lithium Ion battery pack included
- Battery Life:** 120 minutes continuous use, 6000 minutes in standby mode.
- Weight:** 7 oz. (with battery)
- Size:** 2.4" x 9.2" x 1"D



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