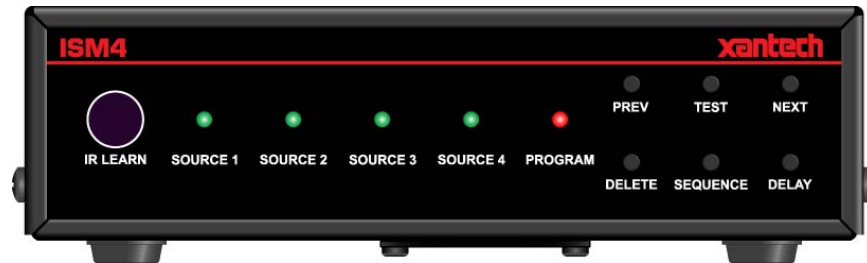


TYPICAL SYSTEM CONNECTIONS ISM4 INTELLIGENT SYSTEM MANAGER PROGRAMMING QUICK START GUIDE

Front



Rear



This ISM4 Programming Quick Start Guide provides the basic instruction to programming an ISM4. To use the Quick Start Guide, fill out the Macro Programming Table and follow the Programming Instructions. For complete instructions on installation, connections and additional programming capabilities, refer to the ISM4 Installation & Programming Manual.

The System shown on the back cover illustrates a typical Home Theater System. In the configuration as shown, when the TV is turned ON, the ISM4 will sense the TV ON state, look at Sources 2-4 (A/V Receiver, Cable Box and DVD Player) and if any of them are OFF, automatically output the Source ON Macros for those devices to turn them ON. If at any time, while the TV is ON, any of Sources 2-4 turns OFF, the ISM4 will automatically turn it back ON. When the TV is turned OFF, the ISM4 will sense the TV OFF state, look at Sources 2-4, and if any of them are ON, automatically output the Source OFF Macros for those devices to turn them OFF.

There are endless applications for this type of power management. Two other system examples are shown in the ISM4 Installation & Programming Manual for reference. See Section: System Applications.

PROGRAMMING INSTRUCTIONS

The following instructions cover the basic Source programming procedure. Each **Source ON** and **OFF Macro** can include up to **five IR Commands**. Please refer to the ISM4 Installation & Programming Manual for complete programming instructions.

To properly Program and Test IR Commands, each of the Source IR Emitters must be connected to the appropriate ISM4 Source IR Out Port, and attached to the appropriate device over the IR Eye.

If Source 1 is going to be turned ON/OFF manually or with a remote control, and there are no additional commands in the ON or OFF Macros, it is not necessary to program the Source 1 ON or OFF Macros. The ISM4 will sense the **ON or OFF condition of Source 1** and automatically sync **Sources 2-4**.

Learn IR

1. **Enter Edit Mode:** Press and hold the **SEQUENCE** button until Source 1 LED blinks once and release. The ISM4 will default to the **SOURCE 1 (ON Macro)**. **SOURCE 1** and **PROGRAM** LED's will turn ON solid green.

Note: Read Steps 2 and 3 before entering macro commands.

2. **Teach Command (SOURCE 1 (ON Macro)):** Press and release the **SEQUENCE** button again to enter **IR Learn Mode** for **SOURCE 1 (ON Macro)**. The **Source 1** LED will flash for about 5 seconds. This is the amount of time allowed to teach an **IR Command**.
3. Position the remote control for the System Reference Device (Source 1) directly in front of the **IR Learn** window on the ISM4 (1- 4 inches depending on the remote) and press and hold the **ON** or **Power** button on the remote control until the **PROGRAM** LED flashes **green** three times. If the **PROGRAM** LED flashes **red** three times (the IR command was not learned), return to **Step 2**.
4. **Test Command:** Press the **TEST** button and confirm the function of the learned command on the **SOURCE 1** device.
5. **Save Command:** If the **SOURCE 1** device responded properly to the learned command press and release the **SEQUENCE** button again to save the command. The **PROGRAM LED** will flash once. The ISM4 will automatically return to **Edit Mode** upon save. To return to **Edit Mode** without saving, press the **PREV Button**.
6. Repeat **Steps 3-5** as necessary until the command is learned, tested, confirmed and saved.

Note 1: If a delay is required proceed to **Step 9**.

7. If there is no delay required for **IR Macro Command 1**, and there is at least one more **IR Command** in the **Macro**, press and release the **NEXT** button. **SOURCE 1** LED will flash twice indicating the ISM4 is ready to learn the **IR Command** for **IR Macro Command 2**. Repeat **Steps 2-5** to add the IR Command.

Note 2: To add IR commands 3-5 repeat the sequence (Step 7). The selected source LED will blink the number of times for the IR command that it is presently on.

8. **Teach Command (SOURCE 1 (OFF Macro)):** To enter **SOURCE 1 (OFF Macro)** press and hold the **NEXT** button until the **SOURCE 1** LED blinks once and release. **SOURCE 1** LED will turn ON solid green and **PROGRAM** LED will turn ON solid orange. Repeat **Steps 2-7**.

Adding Delays

9. To add a **DELAY** after the **IR Command** (following Step 5), press the **DELAY** button. The **PROGRAM** LED will flash once to indicate that the ISM4 has entered delay mode.
10. Press the **NEXT** button *once for each second* of delay to be added to the **IR Macro Command**. Press the **PREV** button *once for each second* of delay to be subtracted. To save the Delays, press and release the **SEQUENCE** button.

NOTE: The first press of the **NEXT** button will add one second of delay. Each additional press will add one second up to 60 seconds after which the timer will reset back to 0 seconds. The first press of the **PREV** Button will add 60 seconds of delay. Each additional press will subtract one second down to 0 seconds after which the timer will reset to 60 seconds.

Test Macro

11. A fully programmed (Source ON or OFF) Macro can be tested by pressing the **TEST** button while in EDIT mode.

NOTE 1: If the IR Commands and Delays within the IR Macro Commands were not properly saved, the Macro cannot be tested and the Program LED will flash red to indicate error.

NOTE 2: To Test a Macro starting from Normal Operation Mode, Press and hold **SEQUENCE** until the active source blinks once and release to enter Edit Mode, (Source 1 and Program LEDs will turn ON solid green), Navigate to the Macro to be tested (2 second press of PREV or NEXT) and then press the **TEST** button.

Advance to Source 2 – 4

12. To advance to **SOURCE 2** (from Source 1 (OFF Macro)), press and hold the **NEXT** button again until the SOURCE 1 LED blinks once and release. The **SOURCE 2** LED and the **PROGRAM** LED will turn ON solid green. Repeat the sequence to advance to SOURCES 3 and 4.

NOTE: Pressing and holding the **PREV** button until the active Source LED blinks once, will shift programming to the previous Macro. (i.e. pressing and holding the **PREV** button while in **SOURCE 1** (ON Macro) Edit Mode, will shift Edit Mode to the SOURCE 4 OFF Macro. (**SOURCE 4** LED will turn ON solid green and the **PROGRAM** LED will turn on solid orange.)

13. Repeat **Steps 2-11** above until all **SOURCE ON** and **OFF Macros** have been programmed, tested and saved. It is vitally important to program *both* the **SOURCE ON** and **OFF Macros**. The **ISM4** will not function properly if both sets of Macros have not been programmed.

Exit Edit Mode

14. To exit **Edit Mode**, press and hold the **PREV** button, release after the selected SOURCE LED blinks a second time (about 2 seconds apart). The ISM4 will return to **Normal Operating Mode**.

Test ISM4 (All Macros)

NOTE: All system devices and components must be properly setup and connected to test ISM4 Macro Programming. Be sure that all Sensors are connected to the appropriate device and the Source Sense Input Ports on the ISM4. Also be sure all IR Emitters are connected to the appropriate Source "IR Out " Ports on the ISM4 and attached to the correct device over the IR eye for that device.

15. With **all Sources OFF**, turn the **System Reference Device (SOURCE 1)** ON. All **Sources** should turn ON and any additional setup programming (source select, play, etc) should execute as programmed. If any functions were 'missed', test the individual **ON Macro** for that **Source**. Re-learn **IR Commands** and adjust **delays** as necessary until the system powers up correctly.
16. Repeat **Step 15** for System OFF. (Turn the **System Reference Device, SOURCE1, OFF**).

Deleting IR Commands and Macros

17. **Delete a Single IR command** (must be in **EDIT** mode): Press and release the **DELETE** button. The **PROGRAM** LED will blink once indicating that the IR command was deleted.
18. **Delete a Macro**: Press and hold (approximately 2 seconds) the **DELETE** button until the **SOURCE** (active Source) blinks once. The **PROGRAM** LED will blink once indicating that the Macro was deleted.
19. **Delete All Macros**: Press and hold (approximately 4 seconds) the **DELETE** button until the **SOURCE** (active Source) blinks twice. The **PROGRAM** LED will blink once indicating that all Macros were deleted.

NOTES

NOTES

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Remote Control Switchers	Limited Lifetime
Modules and Connecting Blocks	Limited Lifetime
Accessories	Limited Lifetime
Speakers	Limited Lifetime
Volume Controls and Speaker Selectors	5 year Limited
MRC, BX, ZPR and Commercial Products	2 year Limited
Amplifiers	2 year Limited
Control Interfaces	2 year Limited
Hand Held Remote Controls	1 year Limited
SPLCD Products	1 year Limited
Source Components	1 year Limited
HDMI	2 year Limited