



MANUAL PART NUMBER: 400-0072-002
PRODUCT REVISION: 1

RC5251IR

INFRA-RED REMOTE CONTROL

USER'S GUIDE

REMOTE CONTROL

INTRODUCTION

Thank you for purchasing the **RC5251IR** Infrared Remote Control. We are sure you will find it reliable and simple to use.

Superior performance for the right price, backed by solid technical and customer support is what Altinex has to offer.

The product you are holding in your hands is designed using state-of-the-art technology and is superior to anything available on the market. You will find this and our other products reliable, long lasting, and simple to operate.

We are committed to providing our customers with signal management solutions to the most demanding audio-visual installations at very competitive pricing.

We appreciate your selection of our products and are confident that you will join the ranks of our many satisfied customers throughout the world.

This manual covers:

RC5251IR Infra-Red Remote Control
(Wired Receiver & Remote Transmitter)

TABLE OF CONTENTS

	Page
PRECAUTIONS / SAFETY WARNINGS	2
GENERAL.....	2
INSTALLATION	2
CLEANING.....	2
FCC / CE NOTICE	2
ABOUT YOUR REMOTE CONTROL	3
TECHNICAL SPECIFICATION.....	3
PRODUCT DESCRIPTION	4
APPLICATION DIAGRAM.....	5
INSTALLING YOUR REMOTE CONTROL.....	6
OPERATION	6
CONNECT INPUT TO OUTPUT	6
SELECT CHANNELS.....	7
CLEAR THE SELECTION.....	7
RECALL MEMORY	7
FAQ (FREQUENTLY ASKED QUESTIONS).....	7
TROUBLESHOOTING GUIDE	7
ALTINEX POLICY	8
LIMITED WARRANTY	8
RETURN POLICY	8
CONTACT INFORMATION	8

PRECAUTIONS / SAFETY WARNINGS 1

Please read this manual carefully before using your **RC5251IR** Infrared Remote Control. Keep this manual handy for future reference. These safety instructions are to ensure the long life of your **RC5251IR** and to prevent fire and shock hazard. Please read them carefully and heed all warnings.

1.1 GENERAL

- Unauthorized personnel shall not open the unit since there are precise electronic components inside. Static electricity can easily damage sensitive components inside, so do not open the unit.
- Qualified Altinex service personnel, or their authorized representatives must perform all service.

1.2 INSTALLATION

- For best results, place the receiver of **RC5251IR** on a flat, level surface in a dry area away from dust and moisture within 6 ft. of the **MAX** Series Switcher.
- To prevent fire or shock, do not expose this unit to rain or moisture. Do not place the **RC5251IR** Receiver or Transmitter in direct sunlight, near heaters or heat radiating appliances, or near any liquid. Exposure to direct sunlight, smoke, or steam can harm internal components.
- The transmitter of **RC5251IR** Infrared Remote Control uses 3 AAA alkaline batteries. The battery life of transmitter is estimated at 6 months depending on its usage.
- When traveling, we recommend removing the batteries from the remote to reduce the chance of accidental discharge.
- To avoid potential explosion of batteries of the transmitter, please keep the transmitter away from fire and water.
- Handle the **RC5251IR** carefully, since dropping or jarring can damage internal components.
- Do not place heavy objects on top of the **RC5251IR**.

- Do not pull the cord that is attached to the **RC5251IR** Receiver.
- If the **RC5251IR** and the **MAX** Switcher are not used for an extended period, disconnect the power cord from the power outlet.

1.3 CLEANING

- Clean the surfaces of the receiver or transmitter with a dry cloth. Never use strong detergents or solvents such as alcohol or thinner. Do not use a wet cloth or water to clean the unit.

1.4 FCC / CE NOTICE

- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to the FCC rules. The FCC ID no. of this unit is KBM-PE21
- Any changes or modifications to the unit not expressly approved by Altinex, Inc. could void the user's authority to operate the equipment.

REMOTE CONTROL

ABOUT YOUR REMOTE CONTROL 2

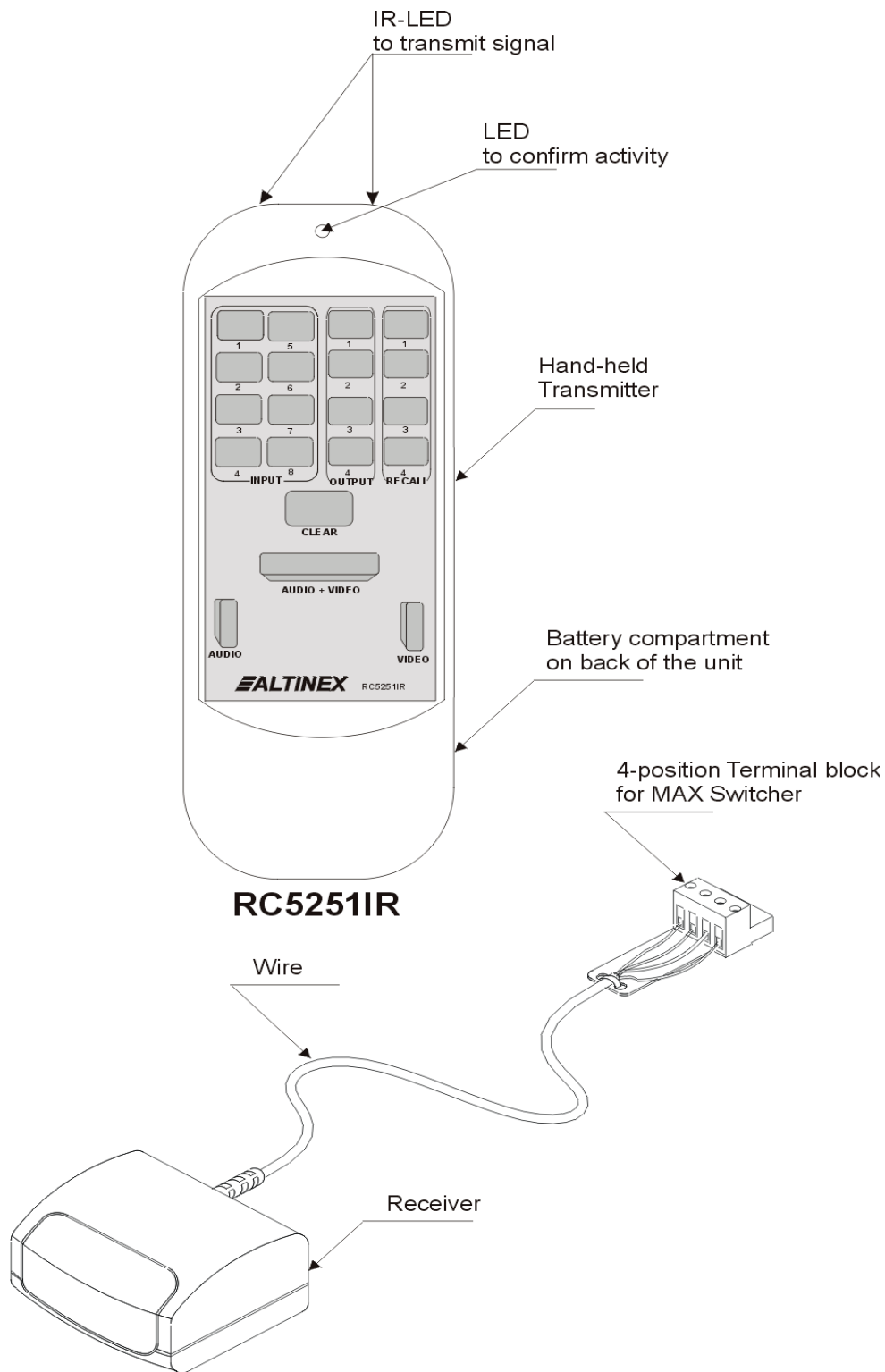
The **RC5251IR** Infrared Remote Control shipped as an option with **MAX** Series Switcher consists of two components: Hand-held Remote Infrared Transmitter and the Wired Infrared Receiver

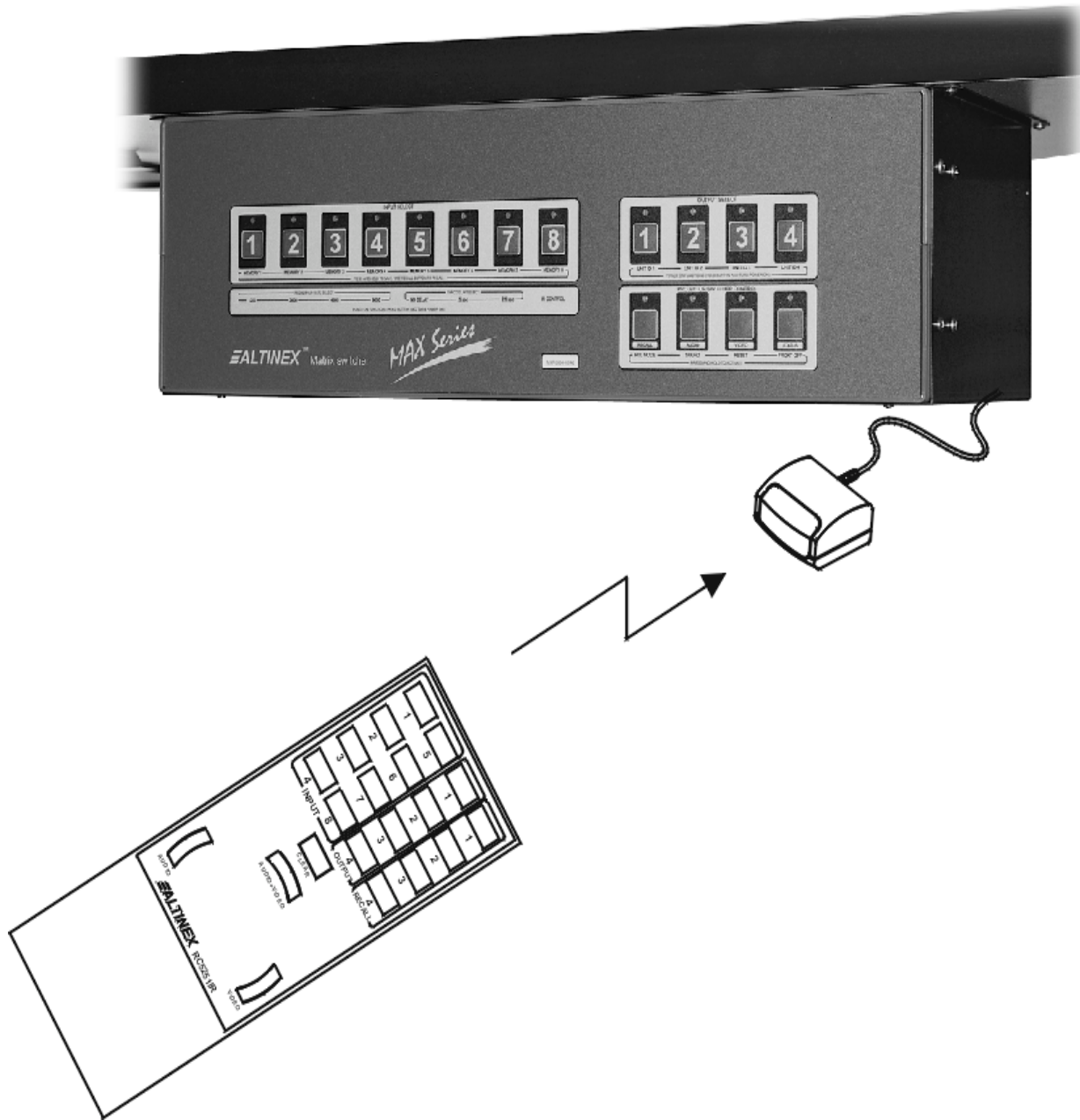
The Infrared Transmitter transmits switching commands to the receiver. The Receiver then conveys an RS-232 code to **MAX** Switcher.

The distance between the Transmitter and the Receiver can be up to 40 feet and at a 30° angle. The Transmitter of the **RC5251IR** works much like the remote you use at home for your TV. The LED light in both the Transmitter and Receiver will flash to confirm the activity of pushing a button.

TECHNICAL SPECIFICATION 3

FEATURES/DESCRIPTION	RC52521IR
RECEIVER	
No. of keys	24
Wire Length	6 ft.
Baud Rate	1200 bps
TRANSMITTER	
Range	40 ft., 30 ° angle
Carrier frequency	38.5 kHz.
Protocol	Proprietary
Operating Temperature	-20° to 50° C
POWER	
Receiver	through MAX Switcher
Transmitter	3 AAA battery (included)
Battery life	4 month with normal usage
INCLUDED	
IR Transmitter	X
IR Receiver	X
Battery	X
Manual	X





INSTALLING YOUR REMOTE CONTROL 6

Hand-held Remote Infra-Red Transmitter

The Transmitter uses 3 AAA alkaline batteries should be installed first.

- Step 1.** Turn the remote over so that the battery compartment is facing you.
- Step 2.** Open the battery cover by gently pulling on the tab.
- Step 3.** Remove the batteries.
- Step 4.** Replace the batteries to match the polarities (+ and -) shown in the battery compartment. If the batteries are placed in opposite polarity then the Transmitter will not function properly.
- Step 5.** Gently place the cover back into battery compartment by first inserting the bottom part of the cover.

Wired Infra-Red Receiver

- Step 1.** Make sure that the **MAX** Switcher is in the OFF position.
- Step 2.** Plug in the 4-position terminal plug located at the end of the cable into RS-232 Port 1 located on the top-right corner on the backside of the switcher.
Note: Inserting the 4-position terminal connector on RS-232 port 2 will damage the Receiver.
- Step 3.** Please put the Receiver within a range of 40 feet of the Transmitter and within a 30° angle for optimum operation.

MAX Switcher

The IR mode is now active. This mode stays enabled on **MAX** Switcher until the unit is reset.

Note:

1. When the IR mode is enabled on the **MAX** Switcher, neither of the two RS-232 ports is available for remote control; however, the front panel is always available for manual control of the Switcher.
2. When IR-Control is enabled for the first time, the first command sent through the key will not work since it is used to initialize the

system; however all subsequent commands for the **MAX** Switcher will execute.

3. At certain times, when using the commands, INPUT 2>OUTPUT 2, the switcher may switch the RS-232 function to port 2 and therefore, IR control will not work. By pressing INPUT 1>OUTPUT 1 will not enable port 1 for IR control again.
4. To cancel the IR control mode on the **MAX** Switcher, please reset the unit by pressing the RESET key for 2 seconds. The RESET key is located in PROJECTOR/SWITCHER CONTROL section of the front panel.
5. Please note that once the IR-mode is canceled, both remote controls through the RS-232 ports are available in addition to manual control through the front panel. To enable the IR mode again, follow the procedure mentioned above.

CONGRATULATIONS! YOU ARE DONE.

If you experience any problems, please call 1-800-258-4623 or 1-714-990-2300 for international calls.

OPERATION 7

Once all three pieces of equipment: **MAX** Switcher, Hand-held Transmitter and Wired Receiver are configured according to the instructions above, it is ready for operation. The Transmitter of the **RC5251IR** works much like the remote you use at home for your TV. The LED light in both the Transmitter and Receiver will flash to confirm the activity of pushing a button.

7.1 CONNECT INPUT TO OUTPUT

Simply select the desired input from 1 through 8 and press that button on the Transmitter. Follow this immediately by pressing the button of the desired output from 1 through 4 on the Transmitter. The order of the input and output should be maintained to complete the command. If the output is pressed before the input, then switching will not take place.

7.2 SELECT CHANNELS

Press the "AUDIO" button if only audio channels (Mono or Stereo) need to be switched.

Press the "VIDEO" button if only video channels (RGBS, RGBHV, Composite Video, S-Video, & Component Video) need to be switched.

Press the "AUDIO+VIDEO" button to activate both the audio and the video channels for switching.

7.3 CLEAR THE SELECTION

Press the "CLEAR" button once in order to clear the previous selection of Input or Output.

7.4 RECALL MEMORY

The connection salvo stored into memories 1 through 4 of the **MAX** Series Switcher can be recalled by pressing the desired button in the RECALL section of the Transmitter.

FAQ (FREQUENTLY ASKED QUESTIONS) 9

No:	Question	Answer
1	What is the range of the IR Control?	IR will work for a distance up to 40 ft. at 30° angle.
2	May I use other brands of remote transmitters?	No, the Transmitter and Receiver are matched, so they work as a pair only.
3	May I use a learning remote to replace the existing transmitter?	No, the Transmitter uses a proprietary code, so any other transmitter will not work. Also, the label on the transmitter is specific for the MAX Switcher.

TROUBLESHOOTING GUIDE 10

1. Make sure that the **MAX** Switcher has power input. Verify this through the power LED on the front panel of the unit.
2. Make sure that the cable from the receiver is properly connected to only RS-232 port 1 of the **MAX** Switcher. The Tx light on port 1 should be ON at all times and the Rx light should flash when any key is pressed on the Remote Transmitter. Verify that there is no loose connection or damaged cables.
3. If you do not see activity confirmation through the red LED located on both the Transmitter and the Receiver, then replace with fresh new batteries for the Transmitter.
4. If the LED on the Receiver blinks without any key being pressed on the Transmitter then turn OFF the room lights, or cover your hand over the top of the plastic window of the Receiver. If the LED stops blinking, there may be an Infra-Red leak from the florescent lights above the above. If that doesn't work, look for any other IR device in the environment, which may be creating unwanted signal or interference.
5. If the Receiver, Transmitter, and cables are working properly, then please verify that RS-232 port 1 is operative by resetting the unit and connecting it to a computer as described in the user's guide of the **MAX** Series Switcher under the RS-232 Remote Control Section.
6. If a spare **RC5251IR** is accessible, please interchange the Receiver and the Transmitter one at a time. This will help pinpoint the defective part.
7. If a spare **MAX** Switcher is accessible, then try the Receiver and the Transmitter in a pair and one at a time. This will help to check if RS-232 port 1 is working properly on the **MAX** Switcher.

11.1 LIMITED WARRANTY

Altinex warrants that its products and cables are free from defects in materials under normal use and service. This warranty is limited to repairing at company's factory any part or parts of the products, which upon company's examination shall disclose to be, thus defective. Products considered defective should be returned to company with transportation charges pre-paid within 2 years (90 days for cables) from date of shipment to the purchaser. The warranty is expressly instead of all other warranties expressed or implied. Altinex neither assumes nor authorizes any other person to assume for it any other liability in connection with the sale of the products. This warranty shall not apply to any product that shall have been repaired or altered outside of company's factory in any way so as, in its judgment, to affect its stability or reliability, or that has been subject to misuse, negligence or accident.

11.2 RETURN POLICY

It is very important to Altinex that you receive the products that you have ordered and that this product meets your expectations. In the unlikely event that an Altinex product needs to be returned, please follow the policies below:

Altinex will accept product returns for a period of 30 days from authorized Altinex dealers. Products must be returned in an unopened package.

If the product has been opened, the restocking fees will apply. For the restocking fee amount, please contact an Altinex Sales Representative.

If the product is in your possession for more than 30 days, the restocking fees will apply.

Altinex will not accept any returns on cables or custom products.

If your product is in warranty and needs service, contact the Altinex Sales Department for an RMA (Return Material Authorization).

Products returned without an RMA number may experience a delay in service.

If your product is out of warranty and needs service, contact the Altinex Sales Department for an RMA (Return Material Authorization). Products returned without an RMA number may experience a delay in service. The service charges will be quoted to you before the actual repairs are done.

11.3 CONTACT INFORMATION

Sales Department

Phone: 714-990-2300

Fax: 714-990-3303

Accounting Department

Phone: 714-990-6088

Fax: 714-990-5778