MANUAL PART NUMBER: 400-0113-003

ISV3000-I and ISV3000-W

1-IN, 1-OUT INTERA COMPOSITE VIDEO / S-VIDEO + AUDIO INPUT MODULE USER'S GUIDE

ALTINEX®

SIGNAL MANAGEMENT SOLUTIONS®

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PRECAUTIONS / SAFETY WARNINGS 1

Please read this manual carefully before using your **ISV3000**. Keep this manual handy for future reference. These safety instructions are to ensure the long life of your **ISV3000** and to prevent fire and shock hazards. Please read them carefully and heed all warnings.

1.1 GENERAL

- Unauthorized personnel shall not open the unit since there are high-voltage components inside.
- Qualified ALTINEX service personnel or their authorized representatives must perform all service.

1.2 INSTALLATION

- For best results, place the module on a flat, level surface in a dry area away from dust and moisture.
- To prevent fire or shock, do not expose this unit to water or moisture. Do not place the **ISV3000** in direct sunlight, near heaters or heat-radiating appliances, or near any liquid. Exposure to direct sunlight, smoke, or steam can harm internal components.
- Handle the **ISV3000** carefully. Dropping or jarring can damage internal components. Do not place heavy objects on top of the **ISV3000**.
- Never install the **ISV3000** in the same enclosure with high voltage wires or their associated components such as power sockets, dimmers, or switches. Always use proper isolation techniques to ensure that the **ISV3000** is never installed in an enclosure that has high voltages present.

1.3 CLEANING

- Clean surfaces 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 NOTICE

- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
- Any changes or modifications to the unit not expressly approved by ALTINEX, Inc. could void the user's authority to operate the equipment.

ABOUT YOUR INPUT MODULE 2

The **ISV3000-I** and **ISV3000-W** are 1-In, 1-Out Video Input Modules with stereo audio and are designed for installation into a wall. The **ISV3000s** provide stereo audio transmission to a main sound system and the connection of a composite video (C-Video) or S-Video source to a distant display (monitor or projector) with minimal loss of quality.

The front panel of the **ISV3000s** offer a composite video loop insulated input, an S-Video input, and two computer audio inputs. The **ISV3000s** have an LED on the front panel which indicates when power is on or when a signal is present. The front panels are available in ivory or white. Model number **ISV3000-I** is for ivory and **ISV3000-W** is for white.

The back panel offers a buffered video output through a 2-pin terminal block or a buffered S-Video output through a 3-pin terminal block and balanced stereo output through a 5-pin terminal block connector. The **ISV3000s** have a 2-pin terminal block for connection to a 9V 500mA external power adapter on their back panels.

The **ISV3000** is designed to equalize the effects of up to 100 ft (30.5 m) of coaxial cable.

TECHNICAL SPECIFICATIONS 3

FEATURES/DESCRIPTION	ISV3000s
GENERAL	
Inputs	
Input Connector	RCA female/S-Video
Audio Input Connectors	2 RCA female
Outputs	
Video Output Connector	2-pin terminal block
Audio Output Connector	5-pin terminal block
Power	
9VDC 500mA supply	2-pin terminal block
Compatibility	C-Video
	NTSC, PAL, SECAM

Table 1. **ISV3000s** General

MECHANICAL	ISV3000s
Depth (inches)	4.1 in (105 mm)
Width (inches)	1.5 in (39 mm)
Height (inches)	2.1 in (54 mm)
Weight (pounds)	1.0 lb (0.45 kg)
Ship Weight (pounds)	1.6 lb (0.73 kg)
Material	Steel
Finish	Black Zinc
Front Panel	White or Ivory
T° Operating	10°C -35°C
T° Maximum	50°C
Humidity	90% non-condensing
MTBF (calculations)	40,000 hrs.

Table 2. **ISV3000s** Mechanical

ELECTRICAL	ISV3000s
Input Video Signal	
Level	1.5 V max.
Impedance	75 ohm ± 1%
Output Video Signals	
Level	1.5 V p-p max.
Impedance	75 ohm
Frequency Compatibility	
Minimum Video Bandwidth	-3 dB @ 100 MHz
Audio Input	
Impedance	10 kohms
Max Level	0 dBu
Audio Throughput	
Gain	+6 dB balanced, 0 dB unbalanced
Frequency Response	10 Hz to 20 kHz (+/- 0.05 dB)
Noise Floor	-98 dB @ 20 kHz
CMRR	<40 dB, 10Hz-20 kHz
Audio Output	
Impedance	300 ohms unbalanced, 600 ohms balanced
Drive	>10 dBu
Power	
External Power	9 VDC 500 mA

Table 3. **ISV3000s** Electrical

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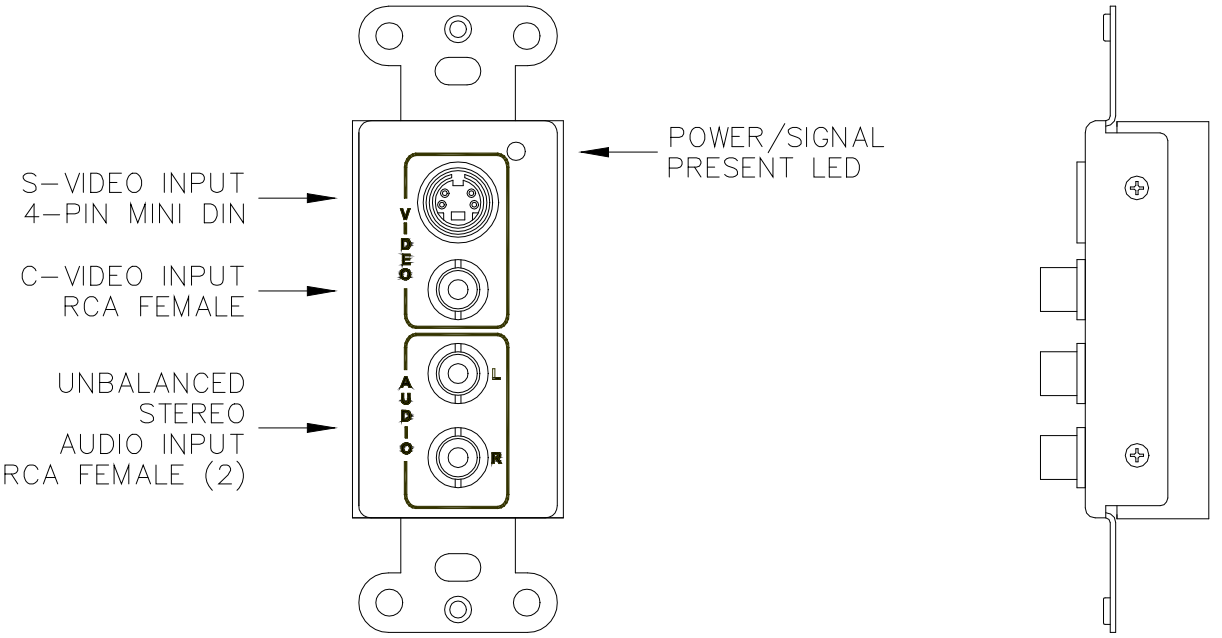
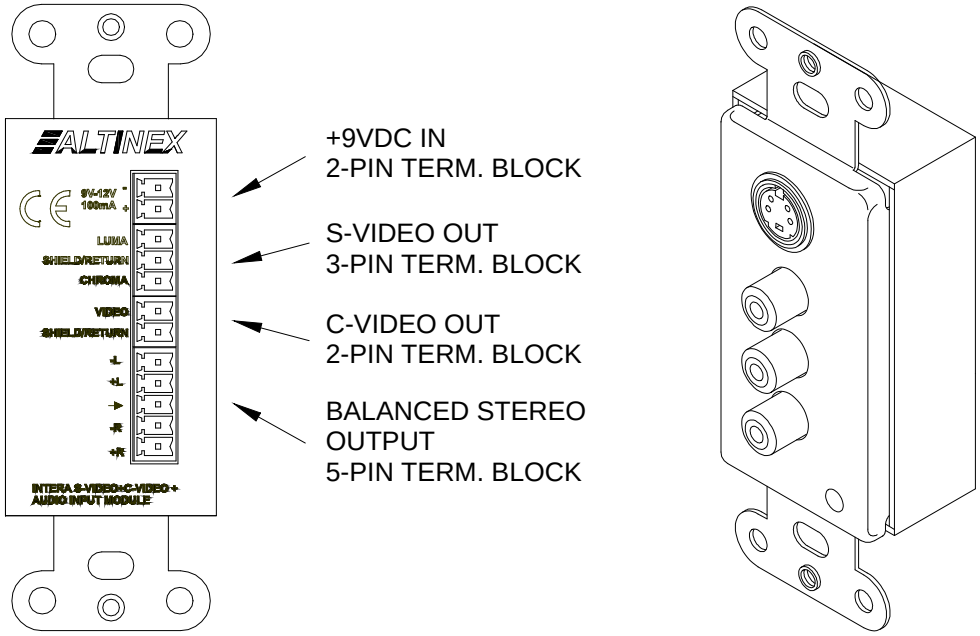
PRODUCT DESCRIPTION 4





APPLICATION DIAGRAMS 5

DIAGRAM 1: TYPICAL SETUP

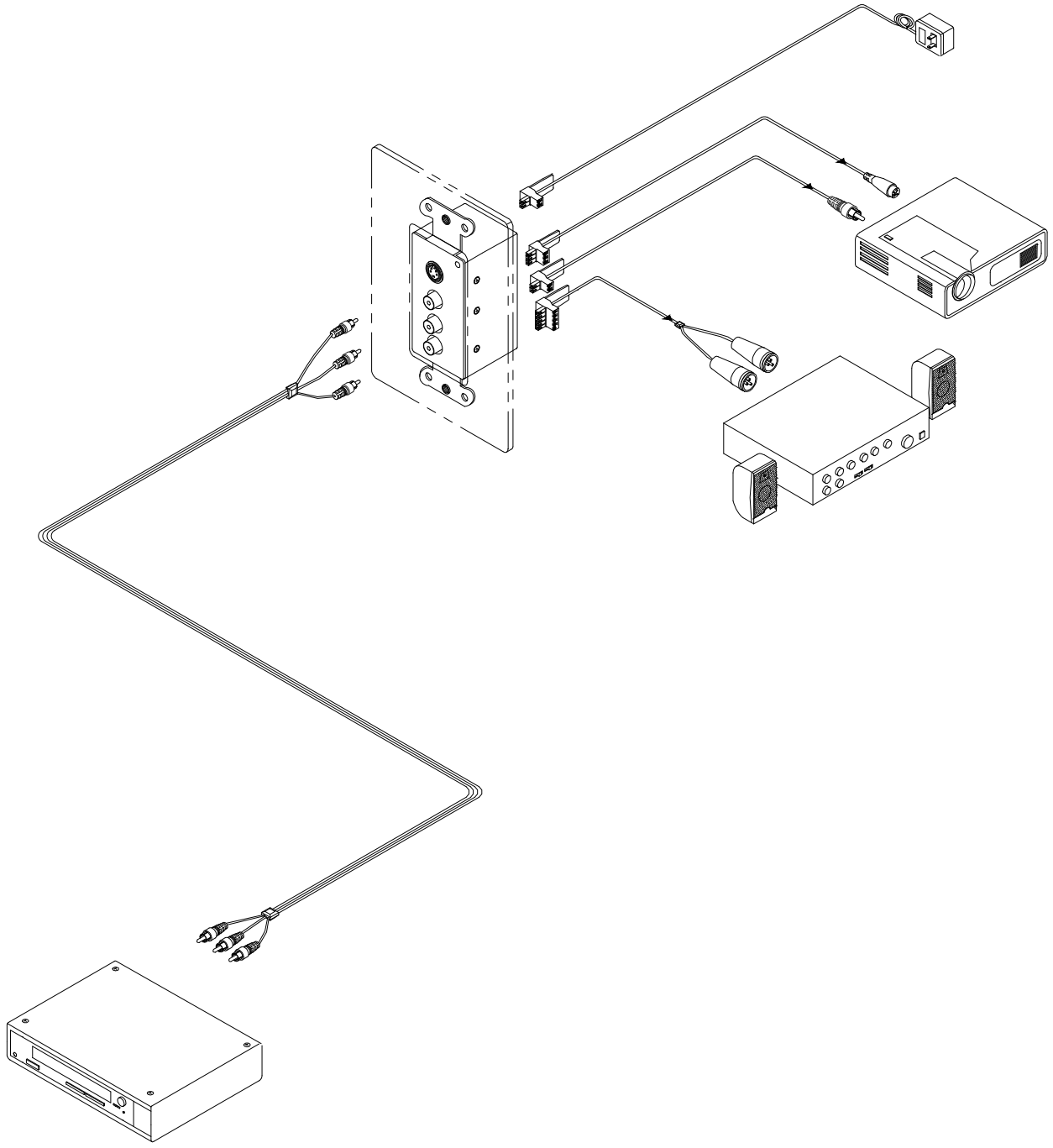
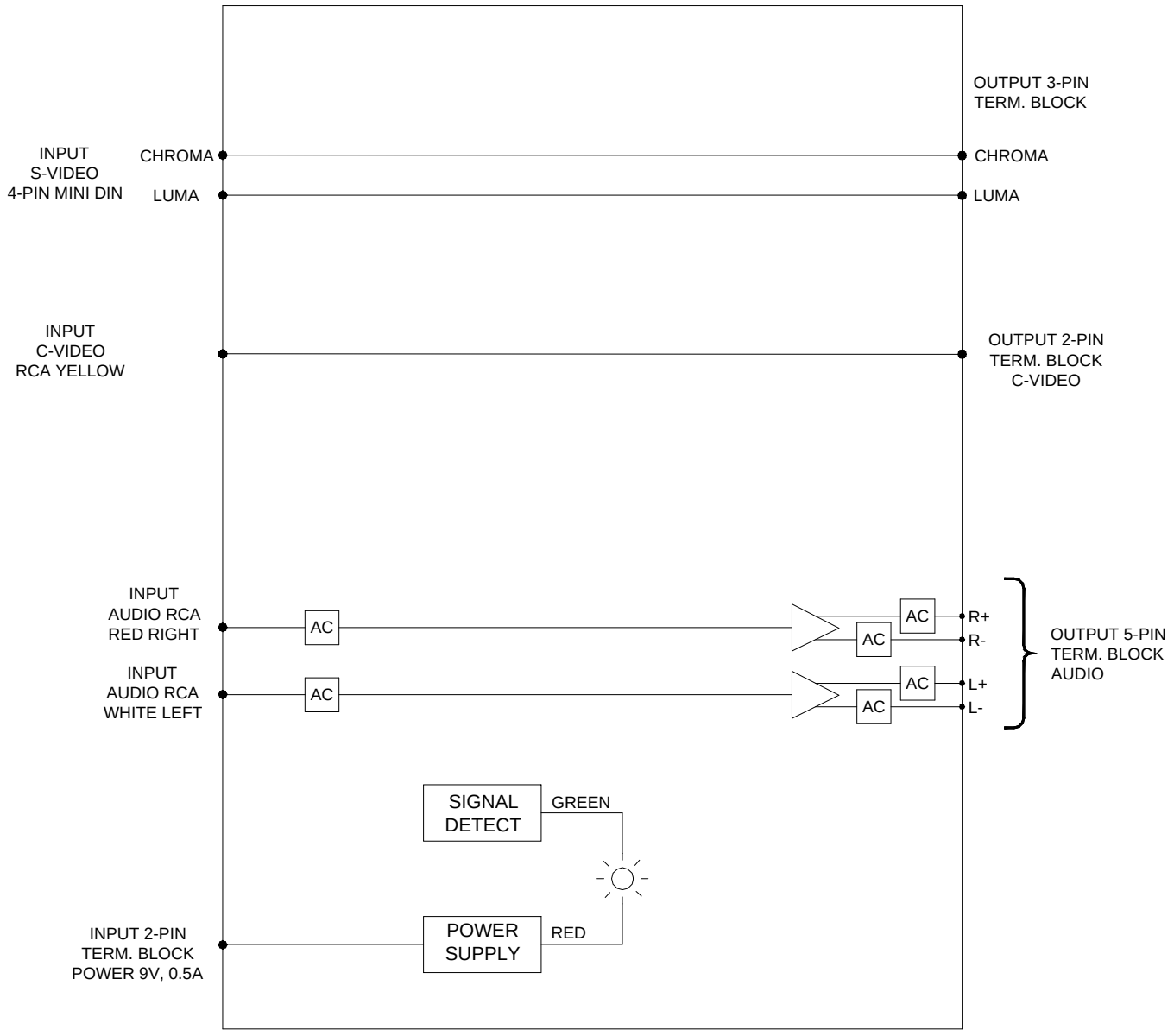


DIAGRAM 2: BLOCK DIAGRAM



INSTALLING YOUR ISV3000 6

The **ISV3000s** will operate successfully as long as all cables are attached properly and other technical specifications are maintained. The **ISV3000s** use terminal block connectors on the back which allow an easy connection to different types of projectors or monitors using ALTINEX cables.

4.1 COMPOSITE (C-VIDEO) INPUT & OUTPUT

The **ISV3000** accepts a C-Video, loop-insulated input through a yellow RCA female connector and offers a buffered C-Video output through a 2-pin terminal block on the back of the **ISV3000**.

2-PIN TERMINAL BLOCK CONNECTIONS

PIN	OUTPUT SIGNAL
1	C-Video
2	Shield/Return

4.2 S-VIDEO INPUT & OUTPUT

The **ISV3000** accepts an S-Video input through a 4-pin Mini DIN connector and offers a buffered S-Video output through a 3-pin terminal block on the back of the **ISV3000**.

3-PIN TERMINAL BLOCK CONNECTIONS

PIN	OUTPUT SIGNAL
1	Luma
2	Shield/Return
3	Chroma

4.3 AUDIO INPUT & OUTPUT

The **ISV3000** accepts audio input and offers balanced stereo output through a terminal block connector on the back panel. There are two RCA female connectors (red and white) for audio input, which may be returned to an amplifier. A 5-pin terminal block is available for stereo audio transmission to the main sound system.

5-PIN TERMINAL BLOCK CONNECTIONS

PIN	OUTPUT SIGNAL
1	+L (Left Channel)
2	-L (Left Channel)
3	SIGNAL RETURN
4	+R (RIGHT Channel)
5	-R (RIGHT Channel)

4.3 POWER INPUT CONNECTOR

The **ISV3000** Input Module has a 2-pin terminal block for connection to a 9 V 500 mA external power adapter. A selection of several power adapters is available for different countries from 110 VAC to 240 VAC.

4.4 POWER/SIGNAL PRESENT LED

The **ISV3000** Input Module has an LED on the front panel which provides feedback to the user. When power is connected to the **ISV3000**, the LED will turn red. When a video source is connected to the **ISV3000**, the LED will turn green, indicating that the unit is receiving a signal.

OPERATION 7

The **ISV3000** will operate successfully as long as all cables are attached properly and other technical specifications are maintained.

TROUBLESHOOTING GUIDE 8

We have carefully tested and found no problems in the supplied **ISV3000.** However, we would like to offer the following suggestions:

1. Make sure that the display equipment is compatible with the source equipment.
2. Make sure the input amplitude of the video analog signal is less than 1.5 Vp-p.
3. Use the ALTINEX provided external AC power adapter which supplies 9 VDC at 500 mA.
4. Verify coaxial cable is being used for component and video signals and that twisted pair cables are being used for audio channels. We recommend ALTINEX-made cables for best results.
5. If a problem arises after continuous usage at high voltages, high temperatures, high humidity, or at other extreme environmental conditions, please correct the problem.

ALTINEX POLICIES 9

9.1 LIMITED WARRANTY/RETURN POLICIES

Please see the ALTINEX website at www.altinex.com for details on warranty and return policies.

9.2 CONTACT INFORMATION

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