



MANUAL PART NUMBER: 400-0329-002

# SR1401XL

## NTSC/PAL in, VGA-SXGA or Y, Pb, Pr out SCALER USER'S GUIDE

**ALTINEX**

SIGNAL  
MANAGEMENT  
SOLUTIONS

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## Table of Contents

### Chapter 1 Introduction

1.1 Important Notices.....	2
1.2 Product Features.....	2
1.3 Package Contents.....	3

### Chapter 2 Installation

2.1 Product Overview.....	4
2.1.1 Front view of SR1401XL.....	4
2.1.2 Rear view of SR1401XL.....	5
2.2 System Installation.....	6

### Chapter 3 Operation Instruction

3.1 Initial Setting.....	7
3.2 IR Control.....	8
3.3 PICTURE Settings.....	9
3.4 PREFERENCE Settings.....	9
3.4.1 RESOLUTION.....	9
3.4.2 FORMAT.....	10
3.4.3 LANGUAGE.....	10
3.4.4 INPUT Source.....	10
3.4.5 VCR Mode/Normal Mode Selection.....	10
3.4.6 RESET.....	10
3.4.7 RS-232.....	10

### Chapter 4 Other Information

4.1 Troubleshooting.....	11
4.2 Specifications.....	12

## Chapter 1 Introduction

Thank you for purchasing Altinex SR1401XL video scalar. With SR1401XL, you can turn your existing standard video into a high quality picture on your display devices. The system set up is very easy and no additional hardware or software required. You don't need to learn a complicated set up procedure and you can enjoy your SR1401XL with just plug and play.

### Important Notices

Please use the SR1401XL under a normal environment

1. Try to avoid following circumstances:

- Avoid exposure to direct sunlight or high temperatures
- Avoid exposure to moisture or high humidity
- Avoid positioning in unstable places

2. Do not attempt repair yourself, the warranty does not cover repair or attempted repair by unauthorized personnel.

3. Unplug this product from AC outlet and remove batteries from the IR control when this product is left unused for a long time.

### Product Features

- Advanced video processing technology to improve video quality.
- Advanced digital noise reduction.
- Advanced color edge enhancement.
- Adaptive static detect de-interlacing.
- Full screen, true color display.
- Double scan conversion and automatic pull down detection.
- Dynamic frame/scan rate conversion.
- Accept all PAL/NTSC standards.
- Easy operation with one button to select signals coming from composite VIDEO, S-VIDEO, or YCbCr.
- Easy on screen display operation with hot key on the IR control.
- Easy to use RS-232 protocol

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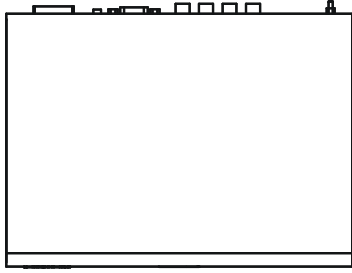


## Package Contents

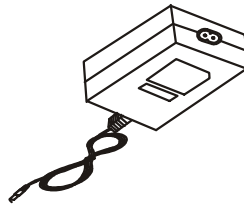
As you unpack the SR1401XL, please make sure the following items were included. If any of these items are missing, call your local agencies.

1. SR1401XL.....x1
2. Power supply.....x1
3. Video cable.....x1
4. S-Video cable.....x1
5. VGA cable.....x1
6. VGA to YPbPr cable.....x1
7. AAA battery.....x2
8. IR control.....x1
9. User manual.....x1

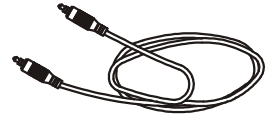
1 SR1401XL



2. Power supply



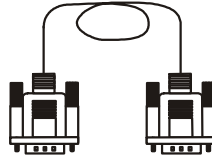
3. VIDEO cable



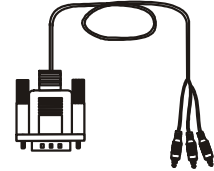
4.S-VIDEO cable



5. VGA cable



6. VGA to YPbPr cable



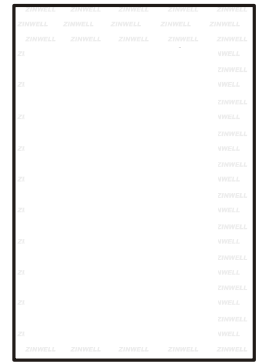
7. AAA battery x2



8. IR control



9. User manual



## Chapter 2 Introduction

### 2.1 Product Overview

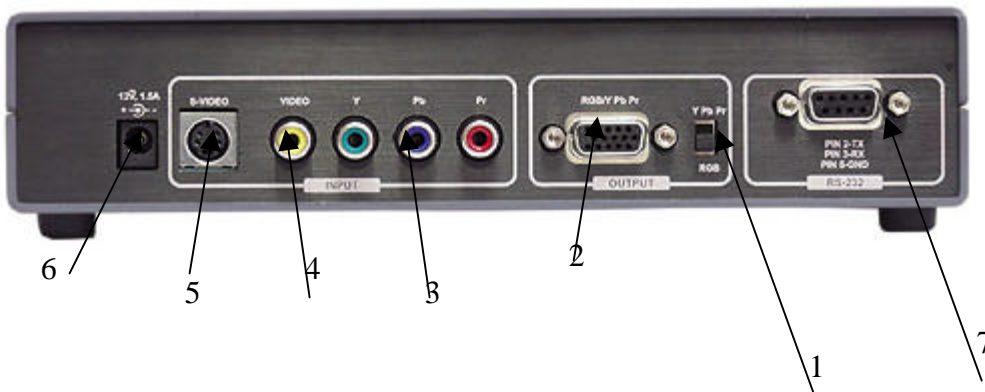
#### 2.1.1 Front view of SR1401XL



#### Power indicator and IR receiver

Using blue LED to indicate the status of power and IR receiver.

#### 2.1.2 Rear view of SR1401XL



#### ① OUTPUT SOURCE SWITCH

Please check your output device and switch YPbPr or RGB to select output signal.

#### ② VGA OUTPUT

Please use the VGA OUTPUT to connect your Plasma Display, LCD Monitor, Projector, etc.

#### ③ YCbCr INPUT

Please connect the RCA cable to DVD player.

#### ④ VIDEO INPUT

Please connect the external video from VCR, LD, V8 or Video Game to the VIDEO INPUT of box.

#### ⑤ S-VIDEO INPUT

If the external video has an S-VIDEO output, please connect to the S-VIDEO INPUT of box.

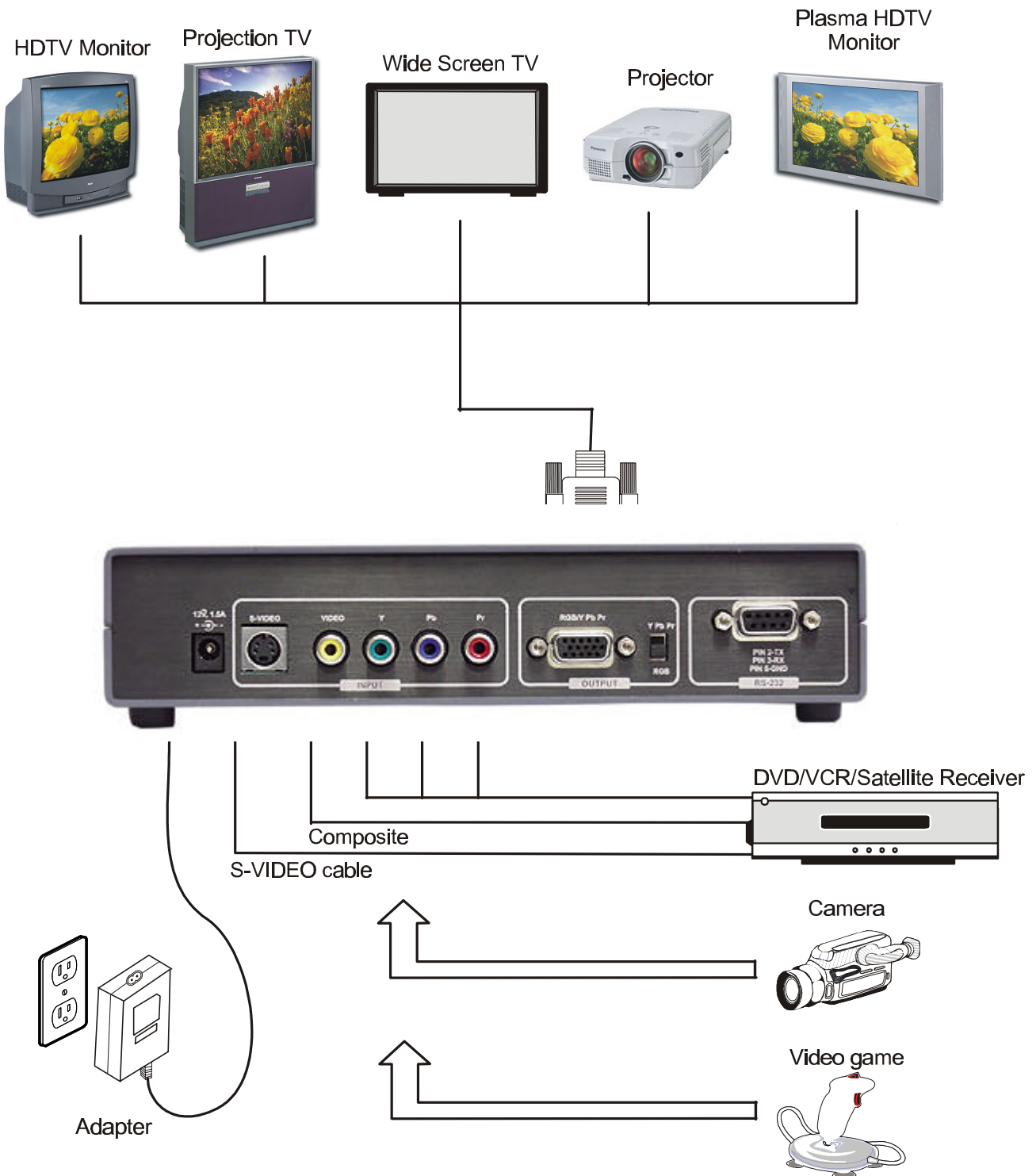
#### ⑥ DC IN

Please connect to your 12V power supply.

#### ⑦ RS-232

Control Scalar using PC or control system.

## 2.2 System Installation :



**! Warning: please turn off the power to all devices before connection.**

## Chapter 3 Operation Instruction

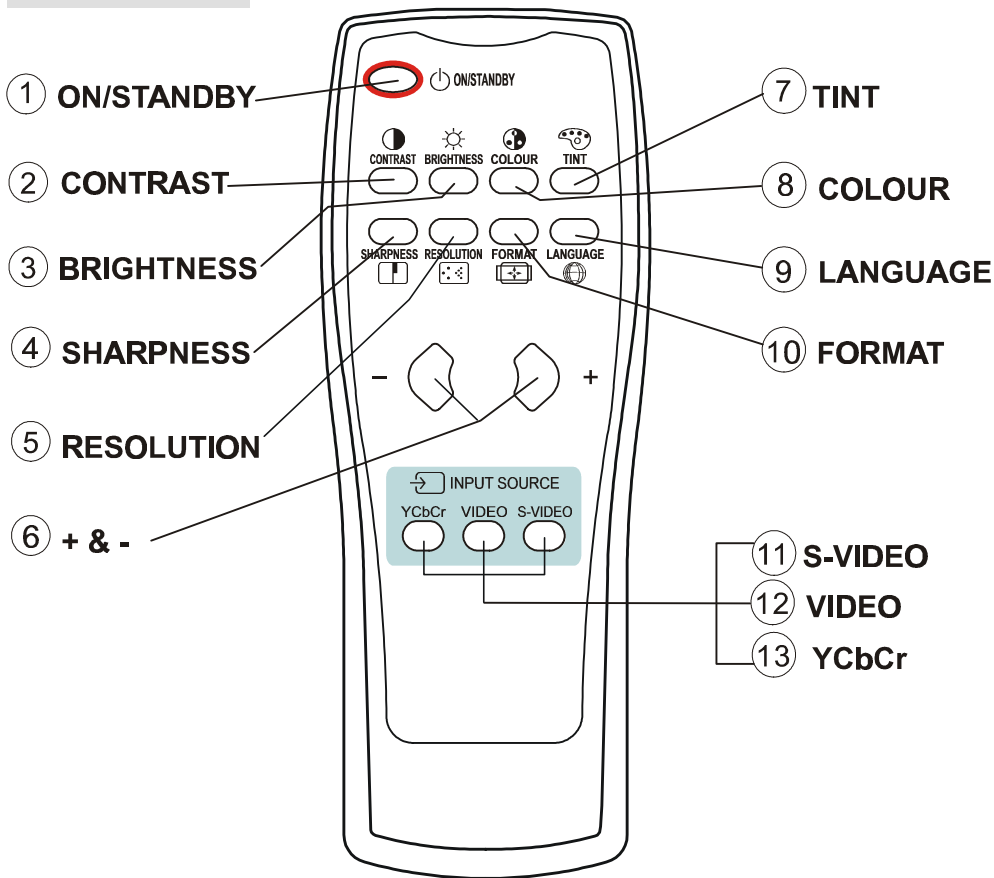
### 3.1 Initial Setting

When you finish the connection of SR1401XL, please refer to the following instructions of IR control and start the system setting, because all the function settings are on the IR control.

#### Steps:

1. Please install 2 AAA batteries into the IR control.
2. Please refer to page 6 for your configuration.
3. Switch YPbPr or RGB on SR1401XL to select output signal.
4. Check if the power at the backside of SR1401XL is applied.
5. Press the "VIDEO", "S-VIDEO" or "YCbCr" button on the IR control to select Input signal source.

### 3.2 IR Control





### ① **ON/STANDBY**

Switch between power ON and STANDBY.

### ② **CONTRAST**

Display CONTRAST bar, press " + " or " - " to do adjustment.

### ③ **BRIGHTNESS**

Display BRIGHTNESS bar, press " + " or " - " to do adjustment.

### ④ **SHARPNESS**

Display SHARPNESS bar, press " + " or " - " to do adjustment.

### ⑤ **RESOLUTION**

Switch to select RESOLUTION of 1280\*1024, 1024\*768, 800\*600, 640\*480.

### ⑥ **+ & -**

Adjustment keys.

### ⑦ **TINT**

Display TINT bar, press " + " or " - " to do adjustment.

### ⑧ **COLOUR**

Display COLOUR bar, press " + " or " - " to do adjustment.

### ⑨ **LANGUAGE**

Press LANGUAGE button to select English, German (Deutsch), or French (Français) to have On Screen Display in the language you select.

### ⑩ **FORMAT**

Switch to select ratio 4:3 or 16:9.

### ⑪~⑬ **INPUT SOURCE**

Select one of S-VIDEO, VIDEO, YCbCr to set up input source.

## 3.3 PICTURE Settings

**PICTURE** can be adjusted by hot key selection and pressing "+" and "-" button on the IR control. When you press the **CONTRAST**, **BRIGHTNESS**, **COLOUR**, **TINT** and **SHARPNESS** buttons on the IR control, an adjustment bar shall show up on the middle down screen; press "+" or "-" to adjust the value to have your personal favorable picture settings; the bar shall disappear automatically after 5 seconds.

## 3.4 PREFERENCE Settings

### 3.4.1 RESOLUTION

Press RESOLUTION button on the IR Controller to select.

RGB mode : 640 x 480, 800 x 600, 1024 x 768, 1280 x 1024.

YPbPr mode : 480p, 720p, 1080i.

A small indicator shall show up on the right top of screen.

☞ When you press RESOLUTION button the first time it displays the current setting, and the second time it displays next setting.

### 3.4.2 FORMAT

Press FORMAT to select ratio 4:3 or 16:9.

☞ This selection is available only for RGB output mode.

### 3.4.3 LANGUAGE

Press **LANGUAGE** button to select **English**, **German (Deutsch)**, or **French (Français)** to have On Screen Display in the language you select.

### 3.4.4 INPUT Source

Press **VIDEO** (Composite Video), **S-VIDEO**, or **YCbCr**, button to select input signal. A small indicator shall show up on the right top of screen.

### 3.4.5 VCR Mode/Normal Mode Selection

Press **TINT** and **LANGUAGE** buttons on the IR control serially to enter **VCR mode**; repeat the procedure to return to **Normal mode**. When you power off/stand by, it shall return to Normal mode.

### 3.4.6 RESET

Press **FORMAT**, **"-"**, and **"+"** buttons on the IR control serially to return all system settings (including **PICTURE** settings, **RESOLUTION**, **FORMAT**, **LANGUAGE** and **INPUT** source) to factory default value; all the previous personal settings shall be cleared when you press the three buttons serially.

### 3.4.7 RS-232 protocol

The communication is at 9600, no parity, 8 bits, 1 stop.

- 1) [ZOOM]: Zoom the image vertically and horizontally to switch between ratio 3x4 and 16x9.  
Feedback [OK] after command is executed
- 2) [HUE]: Adjust hue.  
Feedback [OK] after command is executed  
Hue can be adjusted in two ways:
  - a) [HUE+] or [HUE-] increase/decrease hue level
  - b) [HUE] [ + ][ + ][ + ][ - ][ - ][ - ][ - ] select hue and then adjust level
- 3) [COLOR]: Adjust color  
Feedback [OK] after command is executed  
Color can be adjusted in two ways:
  - a) [COLOR+] or [COLOR-] increase/decrease color level
  - b) [COLOR] [ + ][ + ][ + ][ - ][ - ][ - ][ - ] select color and adjust level
- 4) [BRIGHT]: Adjust brightness  
Feedback [OK] after command is executed  
Brightness can be adjusted in two ways:
  - a) [BRIGHT+] or [BRIGHT-] increase/decrease brightness level
  - b) [BRIGHT] [ + ][ + ][ + ][ - ][ - ][ - ][ - ] select brightness and adjust level
- 5) [CONTR]: Adjust contrast  
Feedback [OK] after command is executed  
Contrast can be adjusted in two ways:
  - a) [CONTR+] or [CONTR-] increase/decrease contrast level
  - b) [CONTR] [ + ][ + ][ + ][ - ][ - ][ - ][ - ] select contrast and adjust level
- 6) [SHARP]: Adjust sharpness  
Feedback [OK] after command is executed  
Sharpness can be adjusted in two ways:

- a) [SHARP+] or [SHARP-] increase/decrease sharpness level
- b) [SHARP] [+] [+] [+] [-] [-] [-] [-] select sharpness and adjust level

7) [MODE] Mode Resolution for interlaced input. Alternates between different output resolutions. Send command one time to show current resolution; send command two times to switch between resolutions.  
Feedback [OK] after command is executed

<u>RGB Video</u>	<u>Component Video</u>
640x480	480p
800x600	720p
1024x768	1080i
1280x1024	

11) [INx]: Select input:  
Feedback [OK] after command is executed  
x=0 to select S-video input  
x=1 to select Video input  
x=2 Select Component Video input

12) [VER]: Return Software Version  
Ex: [VER] will return [VER1.0]

## Chapter 4 Other Information

### 4.1 Trouble shooting

Symptom	Solution
No picture on display	<ul style="list-style-type: none"><li>● Make sure the power cord is connected to an AC outlet, DC plug is connected to DC IN port and the power LED is on.</li><li>● Make sure the display's power is on.</li><li>● Check the connection of your source signal.</li><li>● To reset the SR1401XL, unplug the DC IN adapter from the unit and then plug it back in again.</li></ul>
Video distorted	<ul style="list-style-type: none"><li>● Check all of the connection.</li></ul>
The IR control out of function	<ul style="list-style-type: none"><li>● Make sure batteries are installed.</li><li>● Check remaining battery life.</li></ul>

If you still have trouble not resolvable by using the tips described above, please unplug and plug in the AC cord to reset your SR1401XL; otherwise, please call Altinex for servicing.

### 4.2 Specifications

POWER	100 ~ 240VAC 0.4A 50/60HZ - 12VDC 1.25A OUTPUT
Video Standard	NTSC/PAL
VIDEO INPUT	Composite 1 Vpp Composite Video RCA Connector
S-VIDEO INPUT	Y: 1Vpp, C: 0.3 Vpp S-Video 4-pin Mini DIN
YCbCr INPUT	Y: 1Vpp, CbCr: 0.7 Vpp 3 RCA Connector
VGA / YPbPr OUT	D-Sub 15-pin Female Connector RGB : VGA, SVGA, XGA, SXGA 60 Hz refresh rate Analogue 0.7V at 75Ohm YPbPr :480p, 720p, 1080i
Power Consumption	15W Typical
Operating Temperature	5 ~ 45
Operating Humidity	5% ~ 80%
Dimensions	206(L) x 157(W) x 45(H) mm
Weight	1080g
IR Control	14 Buttons (AAA battery x2)