

CV-910S

VGA to Component & CVBS Scaler Converter

User Manual



Full HD
1080

WUXGA
1920
x
1200

 x.v.Color

7.1 CH
AUDIO



rev: 161111
Made in Taiwan



Safety and Notice

The **CV-910S VGA to Component & CVBS Scaler Converter** has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, the **CV-910S** should be used with care. Please read and follow the safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

- Follow all instructions and warnings marked on this unit.
- Do not attempt to service this unit yourself, except where explained in this manual.
- Provide proper ventilation and air circulation and do not use near water.
- Keep objects that might damage the device and assure that the placement of this unit is on a stable surface.
- Use only the power adapter and power cords and connection cables designed for this unit.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.



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INTRODUCTION

The **CV-910S VGA to Component & CVBS Scaler Converter** offers an easy and instant approach for converting analog PC video (VGA) to analog Component video (YPbPr) / CVBS in real time. With this module, YPbPr/CVBS based receivers such as TV can be readily connected to VGA based devices such as PC. This cost effective solution lets you keep using your non-HDMI/DVI display to access VGA source.

FEATURES

- IR remote control
- OSD control interface
- Input video maximum pixel rate : 165MHz
- Output video maximum pixel rate: 74.25MHz
- Supports noise reduction and video enhancement features
- Video enhancement support
- Over / Under scanning adjustable
- Video H/V mirror supported
- Active video area adjustment supported
- USB firmware upgradable for expanding compatibility
- Wall-mount housing design for easy installation

PACKAGE CONTENTS

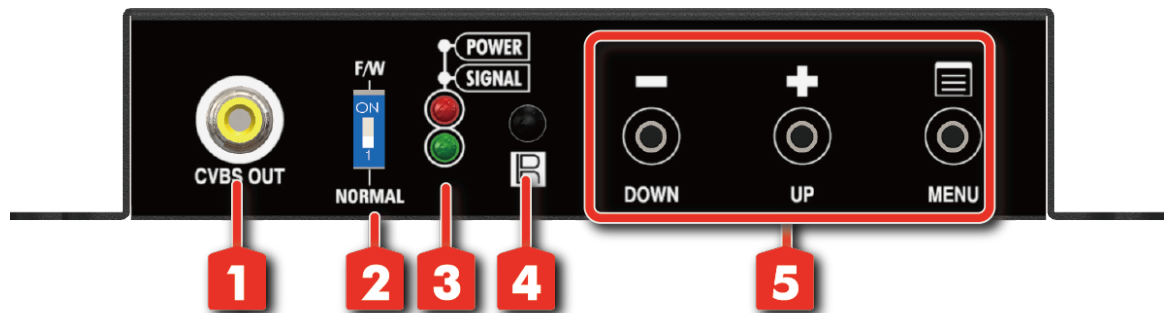
- 1x CV-910S
- 1x 5V/4A power supply unit
- 1x IR Remote control
- 1x User Manual
- 1x Installation software CD

SPECIFICATIONS

Model Name	CV-910S	
Technical		
Role of usage	VGA to Component & CVBS Scaler Converter	
Input Video Frequency bandwidth	165 MHz	
Output Video Frequency bandwidth	74.25MHz	
ESD protection	Human body model — ±15kV [air-gap discharge] & ±8kV [contact discharge]	
PCB stack-up	4-layer board [impedance control — differential 100Ω; single 50Ω]	
Firmware update	Feasible via USB Port	
Input	1x VGA	
Output	1x 3 RCA (YPbPr) + 1xRCA (CVBS)	
VGA connector	HD-15 [15-pin D-sub female]	
USB connector	Mini B	
Mechanical		
CV-910S		
Housing	Metal enclosure	
Dimensions [L x D x H]	Model	156 x 82 x 27mm [6.1" x 3.2" x 1"]
	Package	198 x 137 x 74mm [7.8" x 5.4" x 2.9"]
	Carton	420 x 400 x 300mm [1'4" x 1'3" x 11.8"]
Weight	Model	280g [9.8oz]
	Package	640g [1.4 lbs]
Fixedness	Wall-mounting case with screws	
Power supply	5V 4A DC	
Power consumption	5 Watts [max]	
Operation temperature	0~40°C [32~104°F]	
Storage temperature	-20~60°C [-4~140°F]	
Relative humidity	20~90% RH [no condensation]	

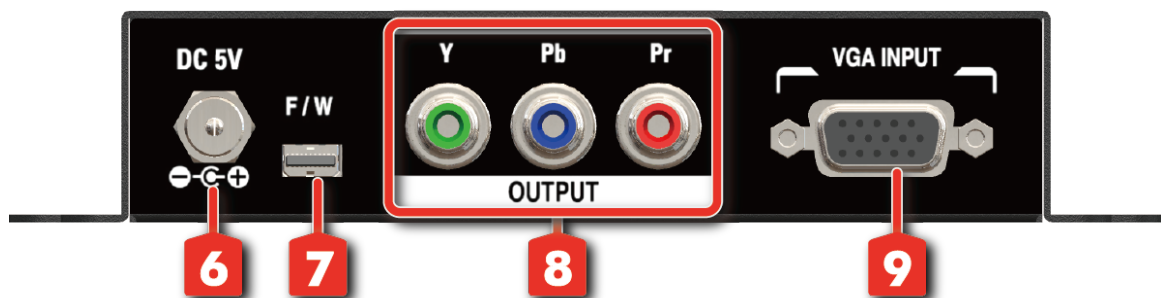
PANEL DESCRIPTION

Front Panel



- 1. CVBS OUT:** Connect to a CVBS display with a CVBS male-male cable here
- 2. DIP Switch:** For firmware update
ON [↑]: firmware update mode
OFF [↓]: normal mode
- 3. LED INDICATOR:**
[RED]: power indicator LED
[GREEN]: signal indicator LED
- 4. IR SENSOR:** IR sensor for receiving the IR commands from IR remote
- 5. PUSH BUTTON**
[LEFT]: Down Button
[MID]: Up Button
[RIGHT]: Menu/Enter Button

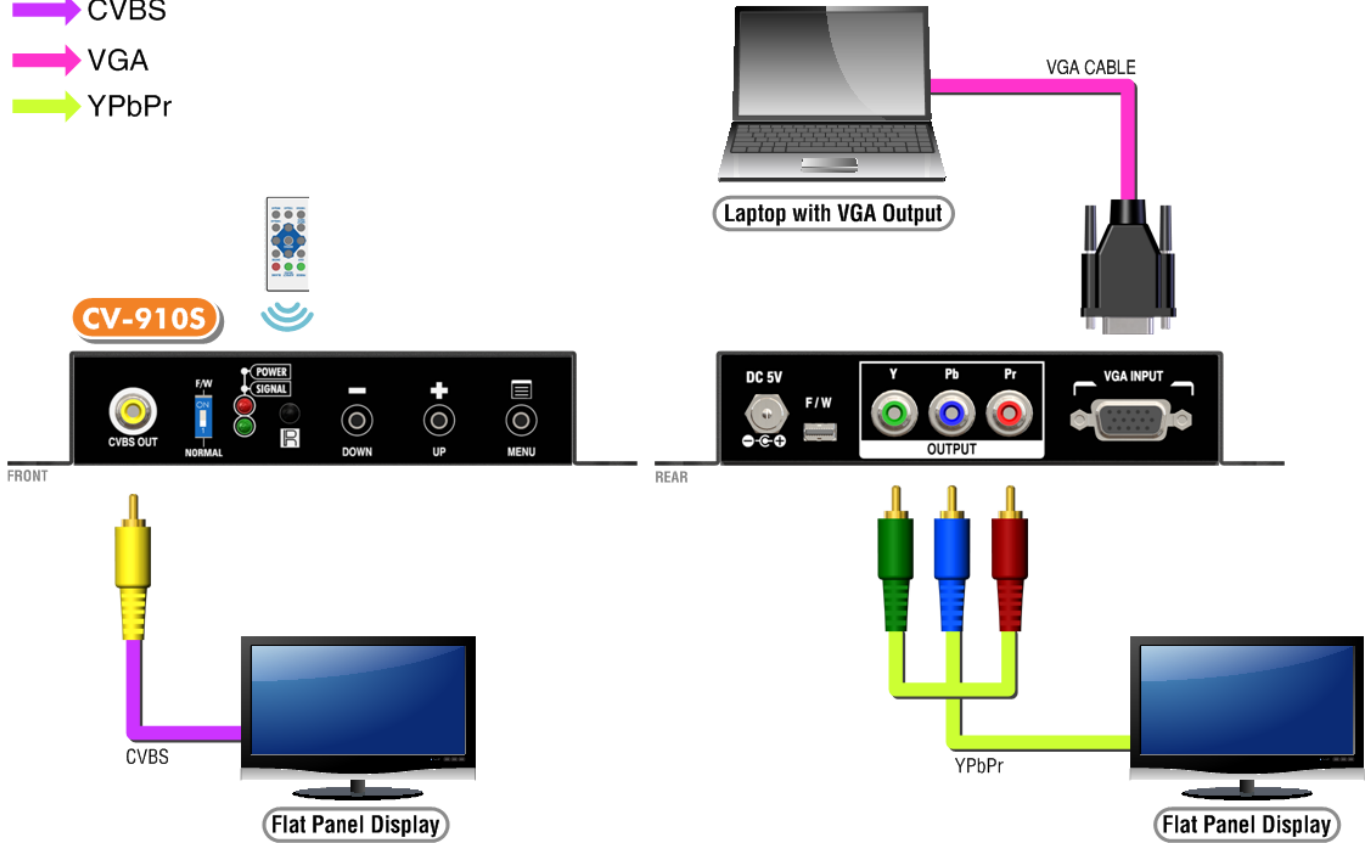
Rear Panel



- 6. +5V DC:** Interlocking power jack for 5V DC power supply unit
- 7. Mini USB:** F/W update
- 8. COMPONENT – YPbPr OUTPUT**
- 9. VGA IN:** connect to a VGA source

CONNECTION DIAGRAM

- CVBS
- VGA
- YPbPr



OSD MENU

Menu	Items	
01. Output Setup	Output Resolution	HD(720p)60
		HD(720p)59
		HD(720p)50
		HD(720p)30
		HD(720p)25
		HD(1080i)60
		HD(1080i)59
		HD(1080i)50
		HD(1080p)60
		HD(1080p)59
		HD(1080p)50
		HD(1080p)30
		HD(1080p)25
		HD(1080p)24
		Bypass
	SD(480i)60	
	SD(576i)50	
	SD(480p)60	
	SD(576p)50	
	Output Mode	YCbCr422
Default Pattern	Disable	
	White	
	Cross	
	Hatch	
	Color	
	Gray	
	Window	
	H-Ramp	
	W-HRamp	
	W-VRamp	
Diagonal		
02. Image	Contrast	0~255 of Contrast Level
	Brightness	0~255 of Contrast Level
	Saturation	0~255 of Saturation Level
	Hue	0~255 of Hue Level
	B/W Extension	Off
		On
	Color Tone	Off
		Skin
		Green
	Edge Enhance	Typ
		Mid
		Max
Off		
Sharpness	0~127 of Sharpness Level	

Menu	Items	
03. Adjustment	Under/Over Scan	-50%~50% of Scan Level
	Aspect Ratio	16:9
		4:3
	H-Mirror	On
		Off
	V-Mirror	On
		Off
H-Shift	-100~100 of H-shift Level	
V-Shift	-50~50 of V-Shift Level	
04. System	Input Res. Infor	
	FW Version	
	Factory Reset	

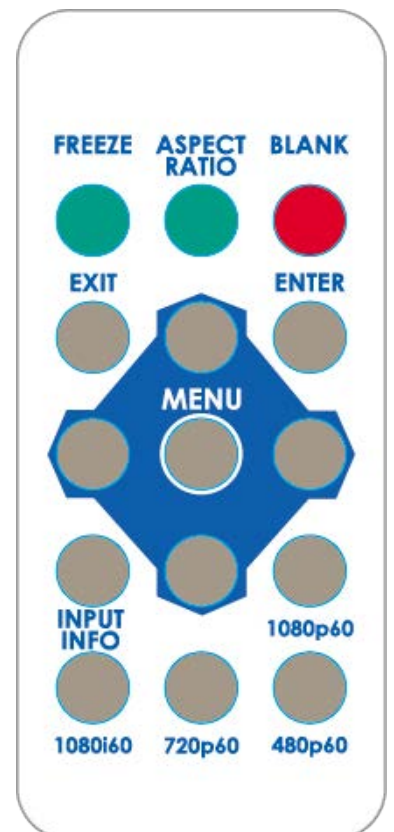
OPERATION APPROACH

Method A: Push-in Button

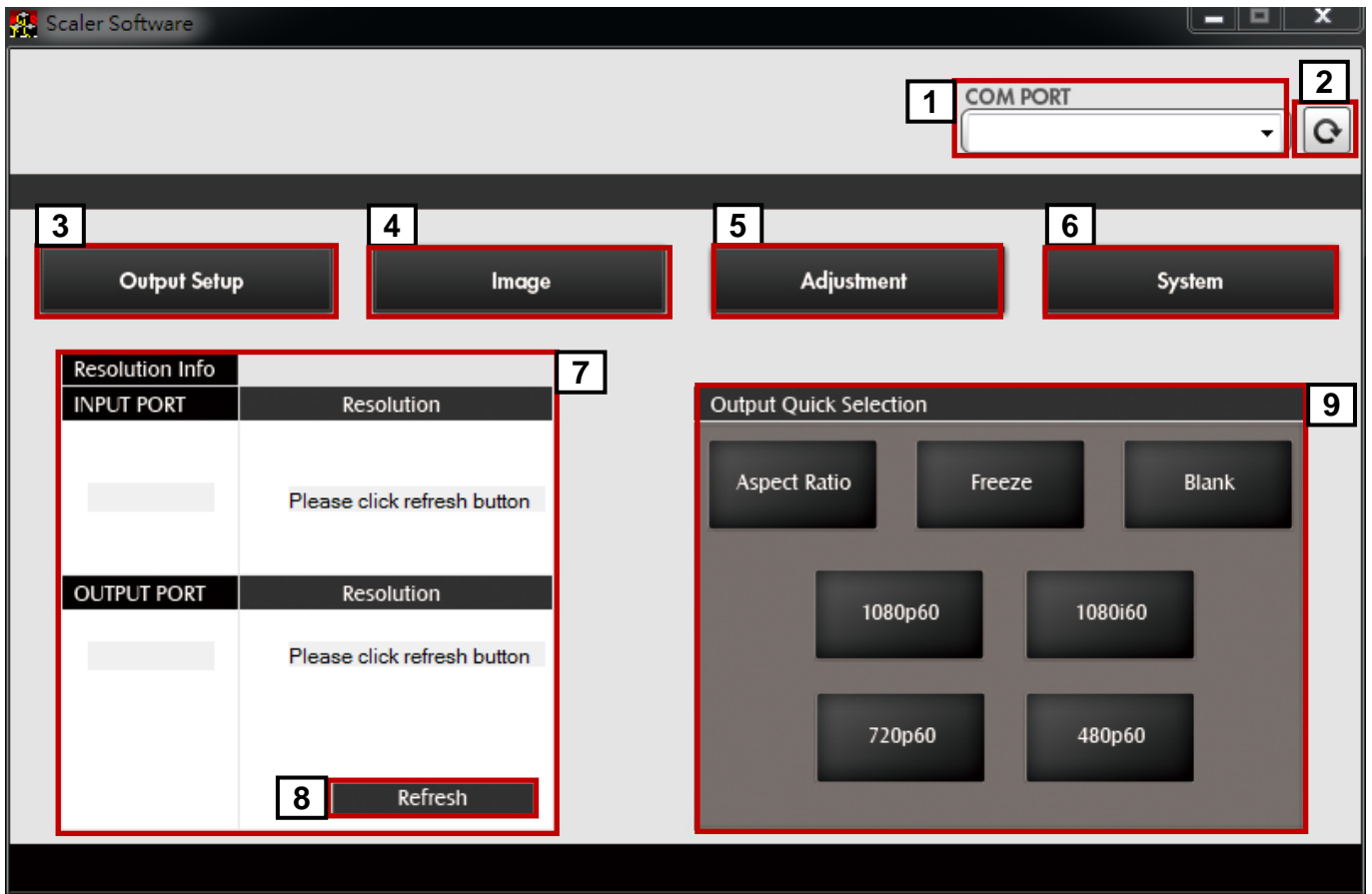


Method B: IR Remote Control

Button	Function
FREEZE	Freeze video
ASPECT RATIO	Aspect ratio change
BLANK	Blank video
EXIT	Exit OSD
ENTER	Enter key
UP	Up key
LEFT	Left key
RIGHT	Right key
DOWN	Down key
MENU	Menu on
INPUT INFO	Source resolution information
1080p60	Select 1080p60 output resolution
1080i60	Select 1080i60 output resolution
720p60	Select 720p60 output resolution
480p60	Select 480p60 output resolution



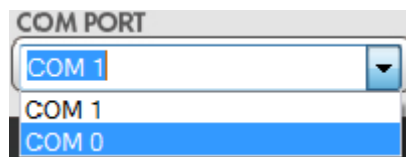
Method C: IR Remote Control through Mini-USB port



1	COM Port Selection
2	COM Port Detection Button
3	Output Setup Button
4	Image Button
5	Adjustment Button
6	System Button
7	Input / Output Resolution Info
8	Refresh Input / Output Resolution Info Button
9	Output Quick Selection Button

1. COM Port Selection

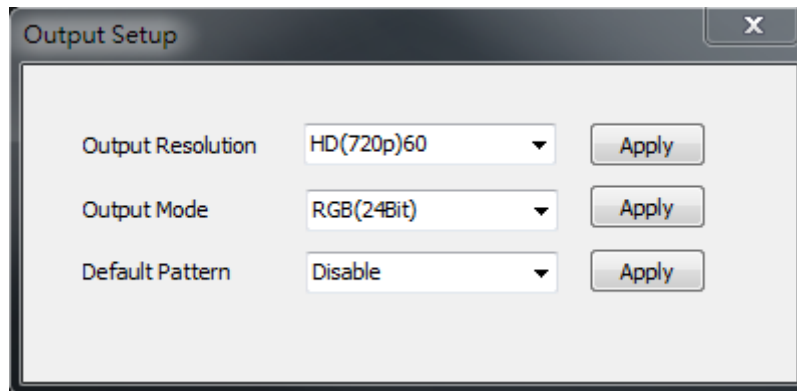
Please select the application COM Port



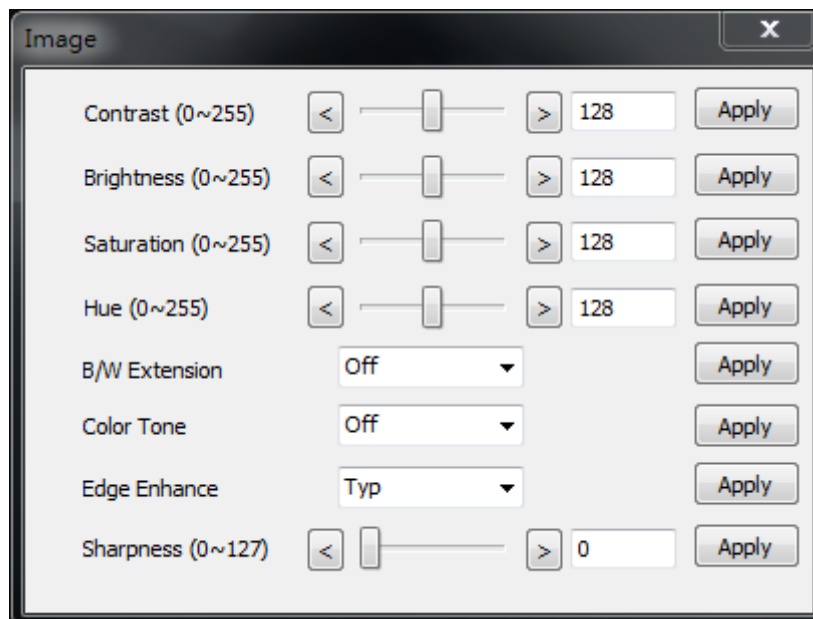
2. COM Port Detection Button

Click this button  to detect the COM Port

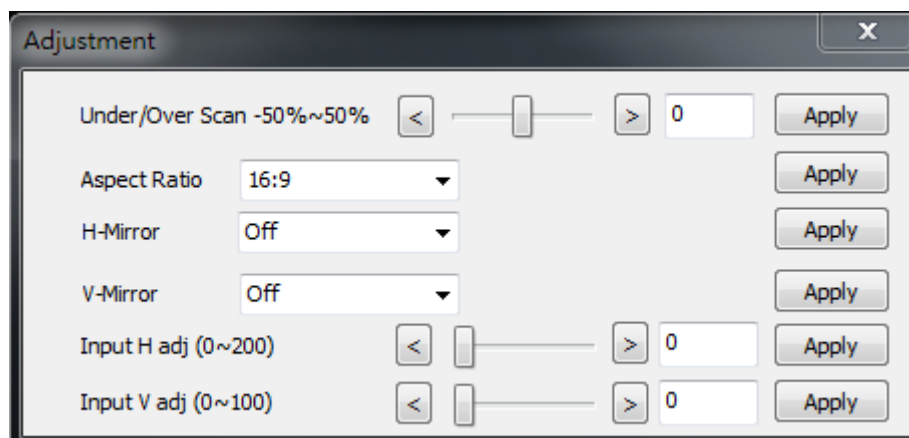
3. Output Setup Button



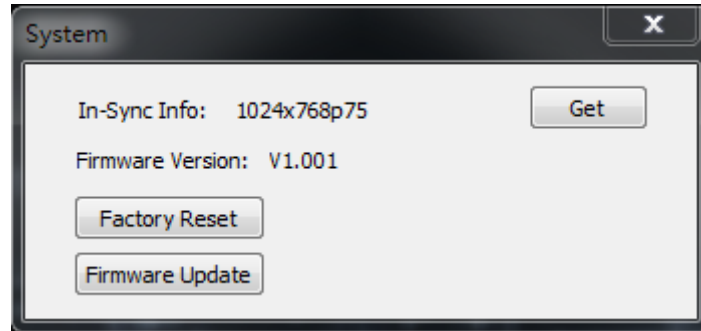
4. Image Button



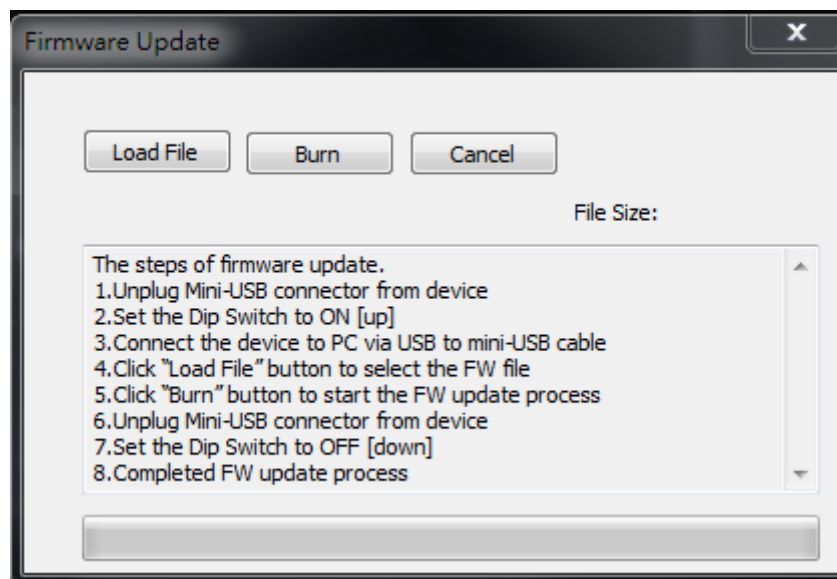
5. Adjustment Button



6. System Button



- 1) In-Sync Info:
To view the current input resolution
- 2) Factory Reset Button
- 3) Firmware Update Button



The steps of firmware update:

- a) Unplug Mini-USB connector from device
- b) Set the Dip Switch to **ON [↑]**
- c) Connect the device to PC via USB to mini-USB cable
- d) Click the FW Update button on software
- e) Click "Load File" button to select the FW file
- f) Click "Burn" button to start the FW update process
- g) Unplug Mini-USB connector from device
- h) Set the Dip Switch to **OFF [↓]**
- i) Completed FW update process

7. I/O Port and Resolution Info

To display the information about the I/O Port and the applied Resolution

8. Refresh Button

To refresh the status of the converter

9. Output Quick Selection Button

Common functions for quick setting

LIMITED WARRANTY

The SELLER warrants the **CV-910S VGA to Component & CVBS Scaler Converter** to be free from defects in the material and workmanship for 1 year from the date of purchase from the SELLER or an authorized dealer. Should this product fail to be in good working order within 1 year warranty period, The SELLER, at its option, repair or replace the unit, provided that the unit has not been subjected to accident, disaster, abuse or any unauthorized modifications including static discharge and power surges.

Unit that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for 90 days from the day of reshipment to the BUYER. If the unit is delivered by mail, customers agree to insure the unit or assume the risk of loss or damage in transit. Under no circumstances will a unit be accepted without a return authorization number.

The warranty is in lieu of all other warranties expressed or implied, including without limitations, any other implied warranty or fitness or merchantability for any particular purpose, all of which are expressly disclaimed.

Proof of sale may be required in order to claim warranty. Customers outside Taiwan are responsible for shipping charges to and from the SELLER. Cables are limited to a 30 day warranty and cable must be free from any markings, scratches, and neatly coiled.

The content of this manual has been carefully checked and is believed to be accurate. However, The SELLER assumes no responsibility for any inaccuracies that may be contained in this manual. The SELLER will NOT be liable for direct, indirect, incidental, special, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. **Also, the technical information contained herein regarding the CV-910S features and specifications is subject to change without further notice.**