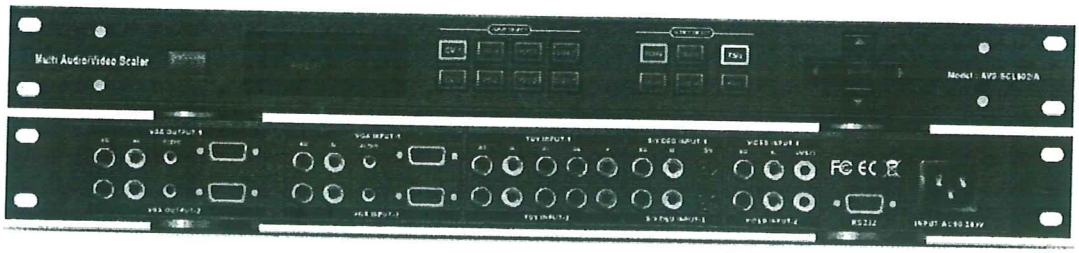
Multi Audio/Video Scaler

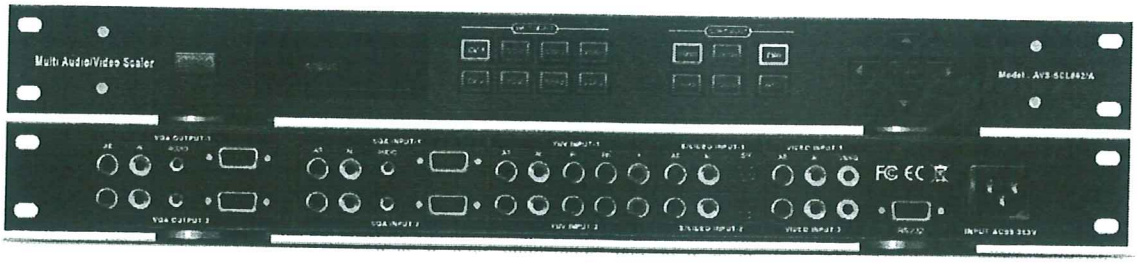
MODEL : AVS-SCL802A

ABTUS®

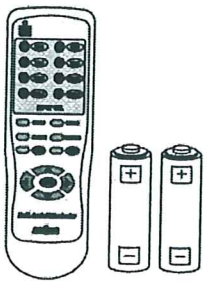
SCALER USER MANUAL



Package Contents

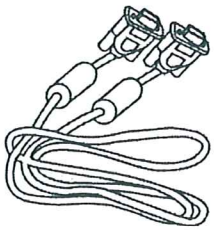


Scaler



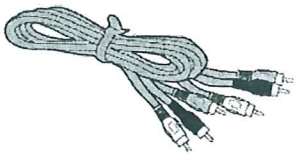
Remote Control
AAA Batteries

D-SUB Cable



RS232 Cable

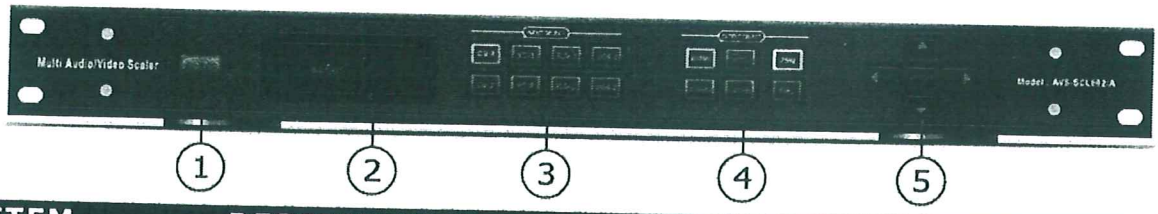
POWER Cord



AV Cable

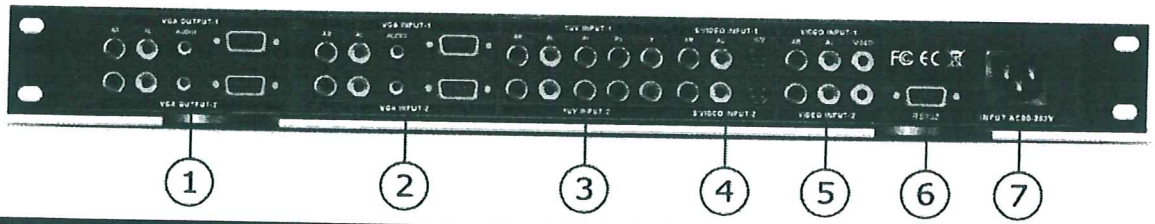
USER MANUAL

SCALER-Front views



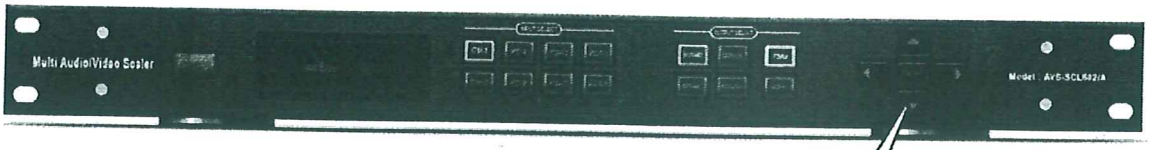
ITEM	DESCRIPTION
1 POWER	Push power to turn on or off the system
2 IR	Inferred receiver
3 Source	Signal input (1). CV-1/CV2: signal input from VIDEO INPUT-1 / VIDEO INPUT-2. (2). SV-1/SV-2 : signal input from S-VIDEO INPUT-1 / S-VIDEO INPUT-2. (3). YUV-1/YUV-2 : signal input from YUV INPUT-1 / YUV INPUT-2. (4). VGA-1/VGA-2 : signal input from VGA INPUT-1 / VGA INPUT-2.
4 Scaler	Select output resolution Selectable range: 640x480/800x600/1024x768/1280x1024 and 60/75HZ
5 Function Key	(1). Enter : Enter or leave OSD menu (2). ◀ ▶ : Volume control when not using OSD. When in OSD menu it is used to change selected item. (3). ▲ ▼ : When in OSD menu, it is used to scroll up or down.

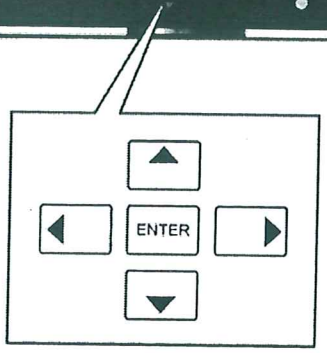
SCALER-Rear views



ITEM	DESCRIPTION
1	VGA OUTPUT-1/2
2	VGA INPUT-1/2
3	YUV INPUT-1/2
4	S-VIDEO INPUT-1/2
5	VIDEO INPUT-1/2
6	RS232 input port : can use RS232 cable to remote control the input
7	power input plug. Before plugging in the power please check if the power is: AC 100 ~230 V ,50/60HZ

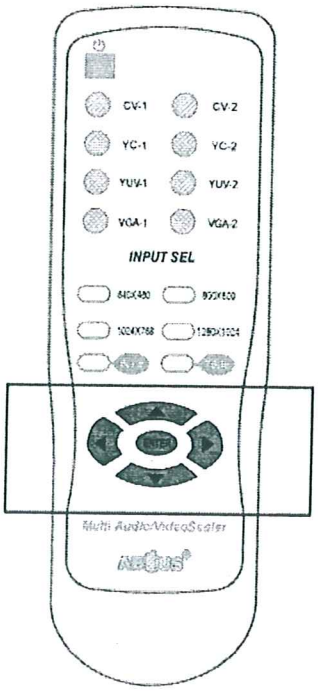
How to use the remote and the control panel to change setting in OSD.



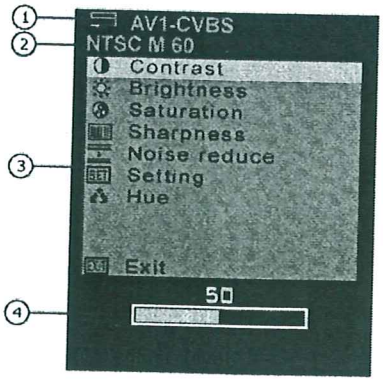


This scaler machine comes with OSD menu function, it can store the user desired contrast, brightness and other settings. All function in the OSD menu can be change from the remote or the control panel, different setting for different setting will be store separately.

1. When the machine is operating press "ENTER" on the remote or the control panel, to open the main menu.
2. Press "▲","▼" from the remote or the front panel to select item in the OSD menu.
3. Press the "◄" ,"►" from the remote or the front panel, to change the setting or enter the next OSD.
4. Press "ENTER" from the remote or the front panel, to go back to the last OSD menu or to leave the OSD menu.



OSD menu structure



ITEM	DESCRIPTION
1	Display the current input source
2	Display the current input source format
3	OSD menu options
4	Display the current setting of the selected item

OSD menu explanation

ITEM	DESCRIPTION
1. Contrast	Change picture contrast.
2. Brightness	2. Change picture brightness.
3. Saturation	3. Change picture color, to make it more colorful or faded.

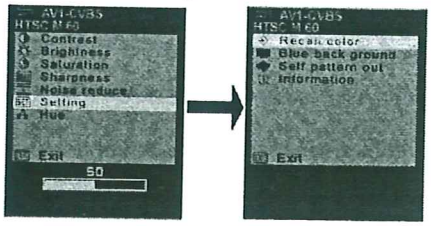
ITEM	DESCRIPTION
4. Sharpness	Change picture sharpness
5. Noise reduce	5. Reduce the interference. The higher the setting the less interference you will get, but it could cause picture distortion, so it is advised that the user should change the setting to their own preference.

OSD menu explanation

ITEM-DESCRIPTION

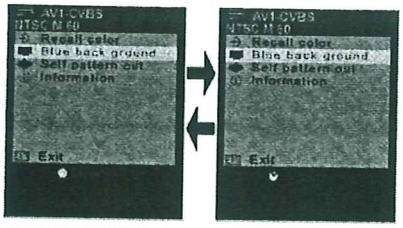
6. Setting:
Enter other setting menu.

7. Recall color



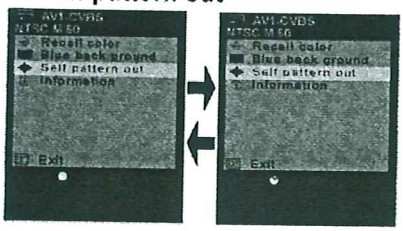
Recall current source Contrast, Brightness, Saturation, Sharpness, Noise reduce and Hue to factory setting.

8. Blue back ground



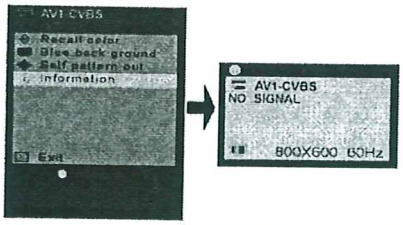
When there is no single input the back ground will be blue.

9. Self pattern out



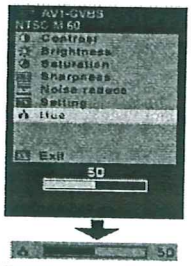
Out puts a white page for people to tune the screen.
(Its recommended to use this setting, when the auto adjust doesn't work, and there is no abnormal with the screen.) This setting will auto tune the current input source to white.

10. Information



Display current signal input source, input format and output resolution.

11. Hue



Changing picture hue. Increasing the hue will make the picture red, decreasing the hue will make the picture green.

12. EXIT

Leaving the OSD Menu.

13. Volume

When OSD menu is closed, use the "◄" ,"►" key on the remote or front panel to control the volume.

RS232 Protocol and Control Codes

1. Communication Protocol

Baud rate : 9600bps.

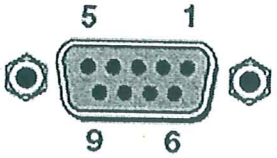
Data length : 8 bits.

Parity : No parity.

Stop bit : One bit.

X on/off : None.

2. RS232 Connection



RS232 connector

Pin		Function
1	-	Not used
2	TX	Transmit data
3	RX	Receive data
4	-	Not used
5	Gnd	Signal ground
6	-	Not used
7	-	Not used
8	-	Not used
9	-	Not used

3. RS232 Control Code

Control code format are follow standard ASCII code, For more detail descript please check with under below.

Item	Function	Transmission	Receiver
1	Power ON	SETC10P31	RETC10P31
2	Power OFF	SETC10P30	RETC10P30
3	Select Source	SETC60S3xxx001 xxx is select source. xxx = 001,002,....,008.	RETC60S3xxx001 xxx is select source. xxx = 001,002,....,008.
4	Volume Level	SETC70V30001xxx xxx is volume level. xxx = 000 ~ 032.	RETC70V30001xxx xxx is volume level. xxx = 000 ~ 032.
5	Audio Mute	SETC10A31	RETC10A31
6	Audio Un-Mute	SETC10A30	RETC10A30
7	Panel Lock	SETC10L31	RETC10L31
8	Panel Unlock	SETC10L30	RETC10L30
9	Setting output resolution to 640x480	SETC30R3000	RETC30R3000
10	Setting output resolution to 800x600	SETC30R3001	RETC30R3001
11	Setting output resolution to 1024x768	SETC30R3002	RETC30R3002
12	Setting output resolution to 1280x1024	SETC30R3003	RETC30R3003
13	Setting output frequency to 60HZ	SETC30F3000	RETC30F3000
14	Setting output frequency to 75HZ	SETC30F3001	RETC30F3001
15	Get Power state	SETC01P0	RETC11P2x x is Power state. 0: Power off 1: Power on
16	Get Source state	SETC01S0	RETC61S1xxx001 xxx is select source. xxx = 001,002,....,008.
17	Get Volume Level	SETC41V30001	RETC31V3xxx xxx is volume level. xxx = 000 ~ 032.
18	Get Audio Mute state.	SETC01A0	RETC11A2x x is Audio mute state. 0: Un-mute 1: Mute.

RS232 Protocol and Control Codes

3. RS232 Control Code

Item	Function	Trans	Res
19	Get Panel Lock state	SETC01L0	RETC11L2x x is Panel Lock state. 0: Lock 1: Un-Lock.
20	Get output resolution state.	SETC01R0	RETC31R3xxx. xxx is Output resolution. 000 is 640x480. 001 is 800x600. 002 is 1024x768. 003 is 1280x1024.
21	Get output frequency state.	SETC01F0	RETC31F3xxx. x is Output Frequency. 000 is 60HZ. 001 is 75HZ.
22	Recall Color	SETC40C0xxx	RETC40C0xxx
23	Factory Reset	SETC00U0	RETC00U0
24	RS232 control code no support.		RETC0!

Product Specification

Model		AVS-SCL802A
Output VGA timming		640X480 / 800X600 / 1024X768 / 1280X1024
Max. Resolution		60/75HZ
Video system		1280X1024_75HZ
Input connectors	VIDEO INPUT-1	NTSC / PAL / PAL-M/PAL-N / SECAM (Auto detect)
	VIDEO INPUT-2	RCA jack(Video-In) x 1 & RCA jack x 2 (Audio in L/R)
	S/VIDEO INPUT-1	RCA jack(Video-In) x 1 & RCA jack x 2 (Audio in L/R)
	S/VIDEO INPUT-2	S-Video jack x 1 & RCA jack x 2 (Audio in L/R)
	YUV INPUT-1	S-Video jack x 1 & RCA jack x 2 (Audio in L/R)
	YUV INPUT-2	Component Y/Cb/Cr (480i,576i) x 1 set & 2 (Audio in L/R)
	VGA INPUT-1	Component Y/Cb/Cr (480i,576i) x 1 set & 2 (Audio in L/R)
	YUV INPUT-2	D-SUB-15 pin & RCA jack x 2 (Audio in L/R),Earphone jack x 1
Output Connectors	VGA OUTPUT-1	D-SUB-15 pin & RCA jack x 2 (Audio in L/R),Earphone jack x 1
	VGA OUTPUT-2	D-SUB-15 pin & RCA jack x 2 (Audio out L/R),Earphone jack x 1
Feature set		D-SUB-15 pin & RCA jack x 2 (Audio out L/R),Earphone jack x 1
		3D Motion adaptive de-interlacing/interlacing
		3D Noise reduction. (NTSC/PAL)
		3D Combfilter (NTSC/PAL)
		Film-mode detection 2:2/3:2 pull down
		Support Remote control
		Support RS232 control interface
		Support friendly Windows AP.
		OSD full function control
Sound system	Volume	32 step digitial volume control
OSD	language	English
Power Consumption		