

## Aurora Design SCRF-405A-NTSC Standards Converter

625/25i (PAL) to 405/25i NTSC with System A modulator.  
(Positive video, AM audio, audio carrier level -6db)

Selector Position	Channel Assignment	Video Frequency	Audio Frequency
0	Disabled		
1	1	45.00 MHz	41.50 MHz
2	2	51.75 MHz	48.25 MHz
3	3	56.75 MHz	53.25 MHz
4	4	61.75 MHz	58.25 MHz
5	5	66.75 MHz	63.25 MHz
6	6	179.75 MHz	176.25 MHz
7	7	184.75 MHz	181.25 MHz
8	8	189.75 MHz	186.25 MHz
9	9	194.75 MHz	191.25 MHz
A	10	199.75 MHz	196.25 MHz
B	11	204.75 MHz	201.25 MHz
C	12	209.75 MHz	206.25 MHz
D	13	214.75 MHz	211.25 MHz
E	14	219.75 MHz	216.25 MHz
F	Disabled		

Selector Position	Option Function
0	Converter Enable/Bypass Mode
1	Sleep Mode
2	Default Audio Tone
3	Equalization Pulses
4	Color Enable
5	Cross Color Filter
6	Fixed Chroma Reference

Momentarily press Aux button to toggle between stored default images.

Note: To change an Option Setting, depress the Option Button for 1 second to enter the Option Setting Mode. Turn the Selector Switch to the desired position. The Status LED will blink Green for enabled, Red for disabled, and Yellow for not supported. Momentarily press the Option Button to toggle the setting. When finished, depress the Option Button for 1 second to exit the Option Setting Mode. Note: the Option Setting Mode will automatically exit if no changes are made for 1 minute.

www.tech-retro.com v4.0

## Aurora Design SCRF-405A-NTSC Standards Converter

625/25i (PAL) to 405/25i NTSC with System A modulator.  
(Positive video, AM audio, audio carrier level -6db)

Selector Position	Channel Assignment	Video Frequency	Audio Frequency
0	Disabled		
1	1	45.00 MHz	41.50 MHz
2	2	51.75 MHz	48.25 MHz
3	3	56.75 MHz	53.25 MHz
4	4	61.75 MHz	58.25 MHz
5	5	66.75 MHz	63.25 MHz
6	6	179.75 MHz	176.25 MHz
7	7	184.75 MHz	181.25 MHz
8	8	189.75 MHz	186.25 MHz
9	9	194.75 MHz	191.25 MHz
A	10	199.75 MHz	196.25 MHz
B	11	204.75 MHz	201.25 MHz
C	12	209.75 MHz	206.25 MHz
D	13	214.75 MHz	211.25 MHz
E	14	219.75 MHz	216.25 MHz
F	Disabled		

Selector Position	Option Function
0	Converter Enable/Bypass Mode
1	Sleep Mode
2	Default Audio Tone
3	Equalization Pulses
4	Color Enable
5	Cross Color Filter
6	Fixed Chroma Reference

Momentarily press Aux button to toggle between stored default images.

Note: To change an Option Setting, depress the Option Button for 1 second to enter the Option Setting Mode. Turn the Selector Switch to the desired position. The Status LED will blink Green for enabled, Red for disabled, and Yellow for not supported. Momentarily press the Option Button to toggle the setting. When finished, depress the Option Button for 1 second to exit the Option Setting Mode. Note: the Option Setting Mode will automatically exit if no changes are made for 1 minute.

www.tech-retro.com v4.0

## Aurora Design SCRF Quick Start Guide

This Quick Start guide is designed to help you get the converter connected and operating in a minimum of time. Please follow the step-by-step procedure outlined below:

- 1) An AC mains power adapter must be provided separately. It should be capable of supplying 9VDC at 250ma and have a standard 2.1mm X 5.5mm, center positive jack.
- 2) The RF connector used on the converter is the “F” type as used on most consumer video equipment. A 75 ohm coaxial cable must be supplied to connect the converter to the television set’s antenna connector. The antenna connector on the television may be of various types, both coaxial or twin line. If it is of the twin line type, a matching transformer, or balun, will be required to connect the converter to the television. **NOTE** - If the television is of the “hot chassis” type where it is connected to once side of the AC mains, than an isolation transformer should be used between the converter and television.
- 3) The appropriate RF channel should be selected on the switch on the rear panel of the converter to match the television. This switch was set to an appropriate channel for the converter, but may need to be changed for your requirements.
- 4) With the converter connected to the television, apply power to the converter. The Status LED on the front panel should be Red, and a test pattern and tone should be seen and heard on the television. If not, recheck the cables and RF channel selection on both the converter and television.
- 5) You may now connect an appropriate video/audio source to the converter. This can be a DVD, VCR, tuner, satellite receiver, etc. If your source only has a mono audio output, you can connect it to either of the audio input jacks and leave the other one empty. The Status LED should now be Green, and the video and audio should be seen and heard on the television. You may need to adjust the audio gain control on the front panel of the converter if the audio is low or distorted.
- 6) If you wish to replace one of the default images in the converter, connect a stable, stationary video source to the converter, then press and hold the Aux Button on the back panel for 4 seconds. The Status LED will start blinking rapidly. This will take approximately 15 seconds and the unit will return to normal. Note - The video must remain stable and stationary during the flash process. A DVD on pause is a good source for this.

## Aurora Design SCRF Quick Start Guide

This Quick Start guide is designed to help you get the converter connected and operating in a minimum of time. Please follow the step-by-step procedure outlined below:

- 1) An AC mains power adapter must be provided separately. It should be capable of supplying 9VDC at 250ma and have a standard 2.1mm X 5.5mm, center positive jack.
- 2) The RF connector used on the converter is the “F” type as used on most consumer video equipment. A 75 ohm coaxial cable must be supplied to connect the converter to the television set’s antenna connector. The antenna connector on the television may be of various types, both coaxial or twin line. If it is of the twin line type, a matching transformer, or balun, will be required to connect the converter to the television. **NOTE** - If the television is of the “hot chassis” type where it is connected to once side of the AC mains, than an isolation transformer should be used between the converter and television.
- 3) The appropriate RF channel should be selected on the switch on the rear panel of the converter to match the television. This switch was set to an appropriate channel for the converter, but may need to be changed for your requirements.
- 4) With the converter connected to the television, apply power to the converter. The Status LED on the front panel should be Red, and a test pattern and tone should be seen and heard on the television. If not, recheck the cables and RF channel selection on both the converter and television.
- 5) You may now connect an appropriate video/audio source to the converter. This can be a DVD, VCR, tuner, satellite receiver, etc. If your source only has a mono audio output, you can connect it to either of the audio input jacks and leave the other one empty. The Status LED should now be Green, and the video and audio should be seen and heard on the television. You may need to adjust the audio gain control on the front panel of the converter if the audio is low or distorted.
- 6) If you wish to replace one of the default images in the converter, connect a stable, stationary video source to the converter, then press and hold the Aux Button on the back panel for 4 seconds. The Status LED will start blinking rapidly. This will take approximately 15 seconds and the unit will return to normal. Note - The video must remain stable and stationary during the flash process. A DVD on pause is a good source for this.