SIMPLWINDOWS NAME: RGB Spectrum Global Router Version 1

CATEGORY: OTHER

VERSION: 1.0

SUMMARY: Controls all window specific functions

GENERAL NOTES: This module must be used with both the RGB Spectrum Configuration ver1 module and the RGB Spectrum Global Router ver1 module.

It has been written to support any quantity of windows from 1 - xx. Use a different copy of this module for each window.

This module allows full control of source and destination sizing/positioning. Manual controls are included to make fine adjustments. Pressing any of the manual control inputs will increment the corresponding parameter by 1 digit until the minimum or maximum value is reached. The min/max values are set in the parameter fields of the module. Holding any of the inputs for 2sec will activate a "speed mode" that will increase the parameters by 25 digits at a time.

In realtime mode, commands are sent after any adjustment is made. In deferred mode, control commands are not sent until either the "SOURCE-SET-WINDOW" or "DEST-SET-WINDOW" inputs are triggered.

Analog inputs are included to allow external control of the source and destination size/positioning. When an external value is sent to the module, control commands are NOT sent until either the "SOURCE-SET-WINDOW" or "DEST-SET-WINDOW" inputs are triggered.

The priority of the window is set external to the module. In realtime mode, any change of this value will cause the command to be sent out. In deferred mode, the command is not sent until "DEST-SET-WINDOW" is triggered.

Selecting any of the presets will send stored source and destination values.

Preset Information Stored:

- Window On/Off
- Window Priority
- Window Source Size
- Window Source Position
- Window Destination Size
- Window Destination Position

To store a preset:

1. Make all adjustments
2. Select Store
3. Select the preset to store the values to

NOTE: Pressing Store while store mode is active will cancel the mode.

CRESTRON

CNXCOM,

HARDWARE REQUIRED:	ST-COM
SETUP OF CRESTRON HARDWARE:	For RS232: Baud Rate - 9600 Parity - None Data Bits - 8 Stop Bits - 1
VENDOR FIRMWARE:	None
VENDOR SETUP:	Baud Rate - 9600 Parity - None Data Bits - 8 Stop Bits - 1
CABLE NUMBER:	CNSP-121

CONTROL:

REALTIME-MODE	D	Commands are sent in realtime when adjusting window parameters
DEFERRED-MODE	D	Commands are not sent until either "SOURCE-SET-WINDOW" or "DEST-SET-WINDOW" inputs are trigerred
WINDOW-ON	D	Turn the window on
WINDOW-OFF	D	Turn window freeze off
WINDOW-TOG	D	Toggle the window on/off
WINDOW-FREEZE-ON	D	Turn window freeze on
WINDOW-FREEZE-OFF	D	Enable Host Free Mode (you must load a configuration file after setting)
WINDOW-FREEZE-TOG	D	Toggle window freeze on/off
SOURCE-RESET-WINDOW	D	Reset the source window to match the actual source
SOURCE-SET-WINDOW	D	Set the source window parameters (used in deferred mode)
SOURCE-X-POSITION-UP	D	Move the source window X position up
SOURCE-X-POSITION-DOWN	D	Move the source window X position down
SOURCE-Y-POSITION-UP	D	Move the source window Y position up
SOURCE-Y-POSITION-DOWN	D	Move the source window Y position down
SOURCE-X-SIZE-UP	D	Increase the source window X size
SOURCE-X-SIZE-DOWN	D	Decrease the source window X size
SOURCE-Y-SIZE-UP	D	Increase the source window Y size
SOURCE-Y-SIZE-DOWN	D	Decrease the source window Y size
DEST-SET-WINDOW	D	Set the destination window parameters (used in deferred mode)
DEST-X-POSITION-UP	D	Move the destination window X position up
DEST-X-POSITION-DOWN	D	Move the destination window X position down
DEST-Y-POSITION-UP	D	Move the destination window Y position up

DEST-Y-POSITION-DOWN	D	Move the destination window Y position down
DEST-X-SIZE-UP	D	Increase the destination window X size
DEST-X-SIZE-DOWN	D	Decrease the destination window X size
DEST-Y-SIZE-UP	D	Increase the destination window Y size
DEST-Y-SIZE-DOWN	D	Decrease the destination window Y size
PRESET(1-10)	D	Set/Recall preset
STORE	D	Enable store mode
WINDOW	A	The window to control
SOURCE-XSIZE-MAX	A	The maximum adjustable X size of the source window
SOURCE-YSIZE-MAX	A	The maximum adjustable Y size of the source window
SOURCE-XPOS-MAX	A	The maximum adjustable X position of the source window
SOURCE-YPOS-MAX	A	The maximum asjustable Y position of the source window
DEST-XSIZE-MAX	A	The maximum adjustable X size of the destination window
DEST-YSIZE-MAX	A	The maximum adjustable Y size of the destination window
DEST-XPOS-MAX	A	The maximum adjustable X position of the destination window
DEST-YPOS-MAX	A	The maximum asjustable Y position of the destination window
PRIORITY-LEVEL	A	The priority of the window (1-10 , 10 is the highest priority)
SOURCE-X-POSITION	A	Externally set source X position
SOURCE-Y-POSITION	A	Externally set source Y position
SOURCE-X-SIZE	A	Externally set source X size
SOURCE-Y-SIZE	A	Externally set source Y size
DEST-X-POSITION	A	Externally set destination X position
DEST-Y-POSITION	A	Externally set destination Y position
DEST-X-SIZE	A	Externally set destination X size
DEST-Y-SIZE	A	Externally set destination Y size
RX$	S	Input data connected to the proper input signal of the RGB SPectrum Global Router module

FEEDBACK:

REALTIME-MODE-FB	D	Realtime mode is active
DEFERRED-MODE-FB	D	Deferred mode is active
WINDOW-ON-FB	D	Window On/Off feedback
WINDOW-FREEZE-ON-FB	D	Window Freeze On/Off feedback
STORE-FB	D	Store mode is active
SOURCE-X-POSITION-VALUE	A	Source window X position value
SOURCE-Y-POSITION-VALUE	A	Source window Y position value
SOURCE-X-SIZE-VALUE	A	Source window X size value
SOURCE-Y-SIZE-		

VALUE	A	Source window Y size value
DEST-X-POSITION-VALUE	A	Destination window X position value
DEST-Y-POSITION-VALUE	A	Destination window Y position value
DEST-X-SIZE-VALUE	A	Destination window X size value
DEST-Y-SIZE-VALUE	A	Destination window Y size value
TX$	S	Output data connected to the proper input signal on the RGB Spectrum Global Router module

OPS USED FOR TESTING:	v3.015
COMPILER USED FOR TESTING:	SimplWindows Ver 2.0024
SAMPLE PROGRAM:	RGB Spectrum Demo Program Version 1
REVISION HISTORY:	None