

# white label

[www.roughdiamondproductions.com/whiteLABEL](http://www.roughdiamondproductions.com/whiteLABEL)

*stWIP - digital channel v1.1*



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**stWIP** is a stereo or surround channel strip with :

- input boost
- gate
- compression
- low shelf filter
- 3 band parametric eq
- high shelf filter
- distortion
- output gain
- limiter

***New in version 1.1 :***

- +10 dB input boost switch*
- output hard-limiter*
- per channel mutes*
- auto-sensing VU meters*
- improved polyphonic design*
- improved waveform display with user defined update rate*
- CPU-saving auto-sleep implimentation*

## white label

**Credits :**

designed & built by :  
[Daz Disley](#) using [SynthEdit](#).

modules by :  
[David Haupt](#), [Peter Schoffhauzer](#), [Kelly Lynch](#), Oli Larkin and [Daz Disley](#)

dll compression by [UPX - Ultimate Packer for eXecutables](#)

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## Controls :

All knobs are combined coaxial controls with two, three or more values associated with them. The mouse response is always vertical - click and start dragging to turn an element, and to switch a section on or off, use the illuminated button at the bottom of the ring element :



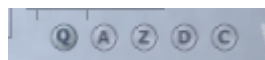
Each control has 3 leds - these light when the element is changed by something other than mouse input - automation, midi, patch change or animation :



Whenever an element is changed, the associated value entry displays the value, and the main screen shows an extended name for the control :



Additionally, every element has a set of keyboard modifiers - simply hold down a different key on the keyboard and click the element. The commands are on the four rows of keys [1-0. q-p. A-l. Z-m for qwerty] and you can choose qwerty, azerty, qwertz, dvorak and colemac layouts - once clicked, this setting persists :



Assuming qwerty layout, key modifiers are like so (hold+click):

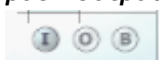
- 1,2,3,4,5,6,7,8,9,0 = set knob position to 0.1,0.2,0.3 etc
- q,w,e,r,t,y,u,i,o,p = set knob position to -.15,0.25,0.35 etc
- g = toggle section on or off
- a = momentary on/off switch, reverting to off - allows to try a section
- z = set element position to 0 - fully down
- x = set element position to 10 - fully up
- c = copy knob position to buffer \*
- v = paste knob position from buffer \*
- b = mirror knob position - 2 becomes 8, 4 becomes 6 and so on ...
- n = decrement knob position
- m = increment knob position

To reset an element to its default position, double-click it

To randomise an element, hold <ctrl> and double-click it

\* = each element has its own buffer which means that copy and paste occurs within the element and not between elements .... copy individual elements between presets by simply holding c and clicking on each element to copy, change preset, and then hold v and clicking on each element to "paste".

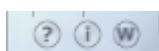
### Input / Output Monitoring / Bypass



I / O = Waveform view Input / Output

B = Bypass (EQ section only)

### Help, Info and Registration



? = double-click for this manual

i = display credits screen

w = [double click to visit the website](http://www.roughdiamondproductions.com/whiteLABEL) [www.roughdiamondproductions.com/whiteLABEL]

## Controls (continued)

### Input Mutes



There are 6 channels available in stWIP(XL) - 2 in the regular version ... when one of these dark-blue buttons (top-left) is visible, the channel is available - to mute it, click it and the led will light bright blue. If there is no led (dark or light) then the channel is sleeping due to no activity on the input (XL) or an unavailable channel. Here, 2 channels are in use, 1 is muted and the remaining 4 are sleeping.

### Gate



*knob : attack [0 to 2000 ms]  
ring : release [50 to 2000 ms]  
outer : threshold [-60 to 0 dB]*

top text input : release  
bottom text input : attack

### Dynamics



*knob : amount / mix [0 to 100 percent]  
ring : release [20 to 500 ms]  
outer : compression mode (curve shape) [1 to 10]*

top text input : release  
bottom text input : amount

### Filters



*knob : gain [-30 to +30 decibels]  
ring & outer frequency [50 to 3000 hz (low shelf), 1 to 15 khz (high shelf)]*

top text input : frequency  
bottom text input : gain

### EQ



*knob : gain [-30 to +30 decibels]  
ring : frequency [50 to 3000 hz, 2.8 to 8 khz, 6 to 16 khz]  
outer : Q [0.1 to 3 octaves]*

top text input : frequency  
bottom text input : gain

### Distortion and Output

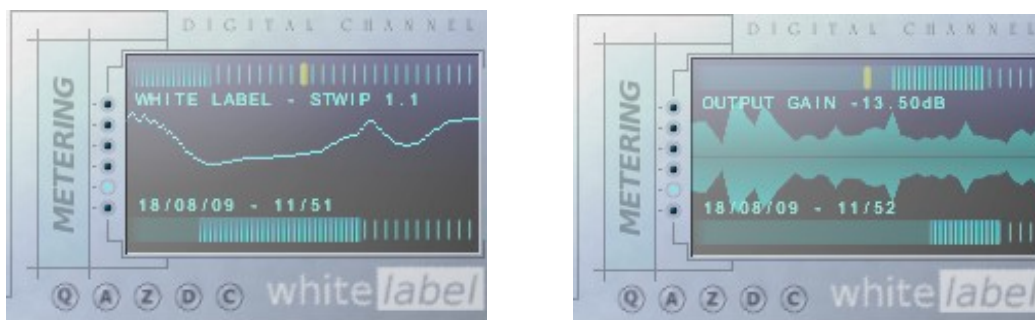


*knob : output gain [-30 to +30 decibels]  
ring : overdrive amount [0 to 10]  
outer : drive contour [0 to 10]*

top text input : overdrive  
bottom text input : gain

note : switch only operates distortion - gain always applies

When you click on an element relating to dynamics (gate, compressor, drive, gain) the screen shows a waveform according to the view selected with the monitoring buttons (above). Whenever you click on an element related to frequency (filters and EQ) a frequency response is plotted.



Clicking on the display screen toggles the view between waveform and frequency response

**Waveform update speed :** the 6 blue leds to the left of the screen determine update rate - click an led to select from : 1, 5, 10, 20, 40, or 80 Hz.

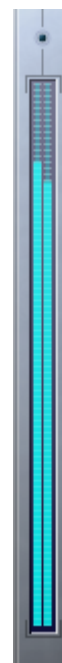
**VU Meters :** stWIP's auto-sensing meters show only the currently available channels. For example, if you use stWIP(XL) [6 channels total] on a 4 channel bus, 2 inputs will be sleeping (see above) and the VU meters will only show 4 channels. The same is true of stWIP(full) [& demo] - when used in stereo, 2 meters are shown, and in mono, only a single meter is visible.



Here the input meter is monitoring 2 inputs and the output meter is monitoring 2 outputs :

**Input Boost :** The blue button above the input meter (top left), when on (dark blue) activates the 10dB input boost across all channels.

**Output Limiter :** The blue button above the output meter (top right), when on (dark blue) activates the output limiter. When the limiter is functioning, the led goes bright blue indicating material that would otherwise be above 0dB(FS) and therefore potentially cause clipping (distortion). The limiter is set at -0.5dB and works across all channels.



whiteLABEL stWIP displays a credits screen once in a while :



If you want this not to happen you can register online by visiting [www.roughdiamondproductions.com](http://www.roughdiamondproductions.com) or simply click on the logos on the credits screen.

stWIP(full) has 2 channels [for mono or stereo operation]  
stWIP(XL) has 6 channels [for mono, stereo, lrc, quad, 5.1 & 6.0 operation]





### Automation and MIDI Control :

Parameter / CC#

Control Element

1	Gate On / Off
2	Threshold
3	Attack
4	Release
5	Compressor On / Off
6	Release
7	Mode
8	Mix
9	Low Shelf On / Off
10	Frequency
11	Gain
12	Low EQ Band On / Off
13	Frequency
14	Q
15	Gain
16	Mid EQ Band On / Off
17	Frequency
18	Q
19	Gain
20	High EQ On / Off
21	Frequency
22	Q
23	Gain
24	High Shelf On / Off
25	Frequency
26	Gain
27	Overdrive On / Off
28	Overdrive Amount
29	OverDrive Limit (Contour)
30	Output Gain
31	Output Limiter On / Off
32	Bypass EQ





**stWIP MK I**

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