roger schult
german audio lab

W2395 Studio Tone Shaper (api ® 500 system)

The W2395 Studio Tone Shaper is a highly flexible three-band equalizer that is well suited for a wide range of creative and corrective applications. The unique combination of the broad stroke Baxandall bands and the parametric filter capabilities provides an extraordinarily effective toolkit for handling any program material. The Baxandall bands were designed to give tonal control of the extremes of the audio spectrum, while the parametric filter allows surgical corrections in the mid band.

The Baxandall tone controls feature fader gain controls offering up to +/- 12 dB of level changes. Due to the circuit design, the high and low bands may influence each other by up to 2 dB depending on the gain setting within each band. Three-position toggle switches allow setting the shoulder frequency of the filter to 45 Hz, 66 Hz, or 90 Hz in the low band, and 1.9 kHz, 3.6 kHz, or 6.3 kHz in the high band.

The semi-parametric mid band filter was taken from Roger Schult's renowned UF1 filter and provides a continuously variable center frequency between 155 Hz and 3.5 kHz with up to +/- 10 dB of gain. A three-position toggle switch allows setting the q-factor of the bell filter to narrow (Q = 1.5), medium (Q = 0.7), and wide (Q = 0.4). The illuminated on-switch allows easy and fast A/B comparisons between the unprocessed original signal and the processed path via noise-free bypass switches.

As all Roger Schult products, the W2395 is hand-crafted and precision-engineered in Germany.

Technical Data
03 / 2015

Low band EQ, adjustable frequency	45 Hz / 66 Hz / 90 Hz
Gain, continously variable	+/- 12 dB range via fader
Mid band frequency	155 Hz to 3.5 kHz, continously variable
Gain, continously variable	+/- 10 dB range via rotary control
Q-factor, 3-position switch	narrow, medium, wide (Q-factor 1.5 / 0.7 / 0.4)
High band EQ, adjustable frequency	1.9 kHz / 3.6 kHz / 6.3 kHz
Gain, continously variable	+/- 12 dB range via fader
„on“, backlit switch	enable / disable filter module hard-bypass

Input (electronically balanced)

Reference input level	+6 dBu
Maximum input level	+15 dBu
Input impedance	10 kOhm

Output (electronically balanced)

Reference output level	+6 dBu
Maximum output level	+22 dBu / (0.05% THD+N)
Output impedance	40 Ohm
Gain at linear setting	0 dB bei 1 kHz (+/- 0.2 dB)
Signal-to-noise ratio	< 76 dB
Noise level (UWTD / WTD)	< 80 dBq / < 75 dBq
Harmonic distortion	THD+N / 0 dBu 0.009%
Frequency range	20 Hz - 40 kHz (+/- 0.2 dB)
Delay time of hard bypass relais	max. 3 ms
Power supply	+/- 16 V über api ® - System + max.110 mA / -16V max. 70 mA
Module dimensions	115 mm x 172 mm (height x depth)
Faceplate dimensions	19”/ 3 RU, 1.5“ x 5.25“ (width x height)
Faceplate finish	Aluminium, chromated
Weight	0.54 kg

Abb.:W2395