

ZÄHL AM1



The best of both worlds.

Consistently analog approach using state-of-the-art technology designed for hands-on, real-time mixing.

Modular Concept:

Mono-, Stereo- and CV-Channels, Link Modules



ZÄHL AM1

pure analog
audio mixing desk



AM1 DETAILS & FEATURES

highly musical circuitry, legendary EQ design

fully featured stereo channels (no stripped down EQ!) with MID/SIDE STEREO conversion at INSERT SEND/RETURN, continuously variable STEREO BASE and dual PANORAMA stage

smart functions like INSERT RETURN with continuously variable DRY/WET mixing for parallel compression, parallel EQing etc. and DIRECT AUX for channel-exclusive effect insertion

numerous unique circuit details in order to preserve signal integrity and minimize noise and crosstalk (e.g. solid state audio switching at potentiometer minimum or zero position)

FORMAT

available in a wide range of formats for musicians studio, PostPro, Mastering or large recording/mixing studio.

8/12/16/24/32/40 mono or stereo channels, CV-Channel occupies 2 slots

DESIGN FEATURES

optimized for hands-on live mixing/
real-time mixing

intuitive, user-friendly,
mostly self-explaining layout

super clean, lowest noise and distortion signal paths, no VCAs in mono- and stereo-channels

click-free audio switching using zero cross detection on parameters relevant when mixing live

unique CV-Channel - CV-controllable

built with highest quality electronic and mechanical components

no microprocessors, no clock pulses,
no switched power circuitry



CV CHANNEL

The unique CV-Channel is both, stereo channel and musical instrument. It links professional audio with the modular analogue synth world. It is a stereo channel with VCA technology which allows controlling parameters by hand and by control-voltage (CV) at the same time. CV can be sourced from external equipment or from integrated CV-stages. Composing, sound designing and mixing are brought together by this thoroughly musical approach.

DETAILS CV CHANNEL

- stereo channel with full feature set as conventional stereo channel except for different EQ/FILTER section, but based entirely on VCA technology
- 21 parameters (every parameter except INPUT GAIN and switches) voltage controllable via a combination of a poti for positive/negative MODULATION AMOUNT and a 12-position rotary switch for selecting a MODULATION SOURCE
- 5 external CV INPUTS for onboard sources available on back panel (1/4" jacks)
- 7 internal CV sources – designed in cooperation with VERBOS ELECTRONICS
 - FLUCTUATION (randomized LFO)



- ENVELOPE FOLLOWER with selectable input SOURCE, SENSITIVITY and DECAY time and curve
 - GATE with HOLD time control (sharing input SOURCE and SENSITIVITY with ENVELOPE FOLLOWER)
 - AR ENVELOPE generator with ATTACK and RELEASE control, selectable trigger
 - CV SUM for mixing any two of the other 11 CV sources or filtered noise
 - FIXED VOLTAGE adjustable between -5V and +5V
 - FIXED VOLTAGE SWITCHED - the same voltage, but switchable manually or by external CV INPUT 2
- all internal CV sources available as CV outputs on back panel (1/4" jacks)
 - 4 CV busses for sharing selected external CV INPUTS 1-4 between CV-A modules
 - VCA-based EQ/FILTER section
 - 1 fully parametric EQ band with GAIN range from -18 dB to +12 dB, extended FREQUENCY range from 200 Hz to 10 kHz and Q control
 - HIGH PASS Filter with cutoff FREQUENCY and DRY/WET RATIO control
 - LOW PASS Filter with cutoff FREQUENCY and DRY/WET RATIO control

