AM1 modular analog audio mixing desk

- consistently analog approach, designed for hands-on, real-time mixing
- legendary EQ design – highly musical without coloring, highly effective yet sensitive
- intuitive, self-explanatory layout
- super clean signal paths meeting highest mastering demands – no VCAs except CV channel, no clock pulses (sequential logic only), no switched power converters
- quiet, vent-free linear external power supply
- zero-cross sensing on all switches relevant in live operation (minimimization of clicks)
- freely configurable with mono, stereo or stereo CV channels
- minimum width 437 mm (optionally for 19" rack installation) with up to 8 stereo channels and master section
- maximum width 1981 mm with up to 46 stereo channels and master section, expandable by external units
- overall depth 885 mm, overall height 318 mm, module depth 673.5 mm, front panel angle 15.5°
- conveniently accessible back panel with XLR audio connectors
- meter bridge output or other options on request

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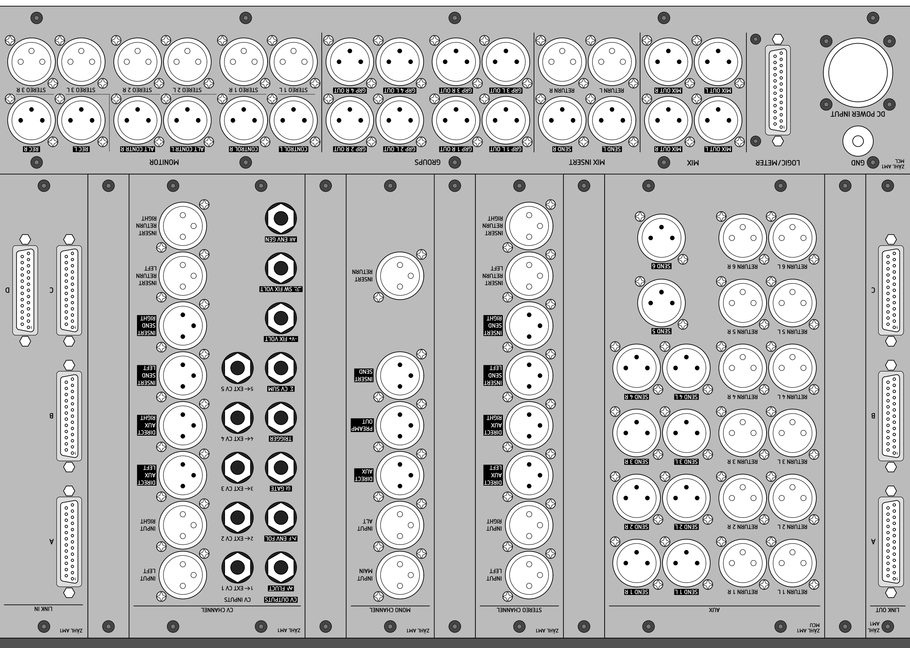
MASTER SECTION (module MM-A)
- 4 STEREO GROUP outputs
- 4 stereo and 2 mono AUX MASTER controls (→ additional AUX functions available on channels)
- 6 STEREO RETURNS, each with 2 band semi-parametric EQ
- comprehensive monitoring section with high quality headphones amp
- smart functions for preparing mute scenes in real-time mixing
- PFL (non-destructive) switchable to SOLO (destructive) logic

MONO CHANNEL (module MC-A)
- extensive EQ section – 4-band plus low cut, each band electronically bypassed when gain is set to zero
- DIRECT AUX control (channel exclusive aux send)
- INSERT with DRY/WET return ratio control – for parallel compression, EQing, etc., or for use as channel-exclusive aux return in combination with DIRECT AUX (freeing up aux busses when using an effect on one channel only)

STEREO CHANNEL (module SC-A)
with full feature set as mono channel (no stripped down EQ as in many other consoles), and additionally including:
- BALANCE control plus PAN controls for left and right channels independently
- STEREO BASE control – from mono to stereo to phase-reversed
- INSERT with M/S (mid/side) option

LINK OUTPUT (module LO-A)
"blind master" – alternatively to module MM-A – for connecting ZÄHL AM1 expander with ZÄHL AM1 or other main console

LINK INPUT (module LI-A)
for merging busses from ZÄHL AM1 expander or other external console/expander with busses of main AM1 console

CV CHANNEL (module CV-A)
- stereo channel with full feature set as conventional stereo channel (module SC-A) 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 pot/for positive/negative MODULATION AMOUNT and a 12-position rotary switch for selecting a MODULATION SOURCE
- 5 external CV INPUTS for outboard 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 SOURCE and MANUAL trigger button.
  - 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