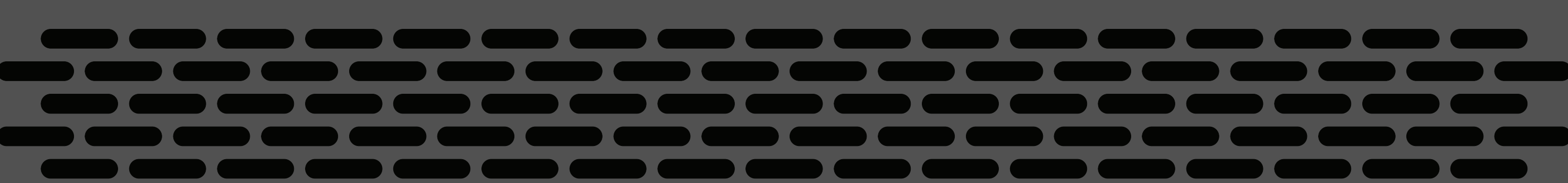
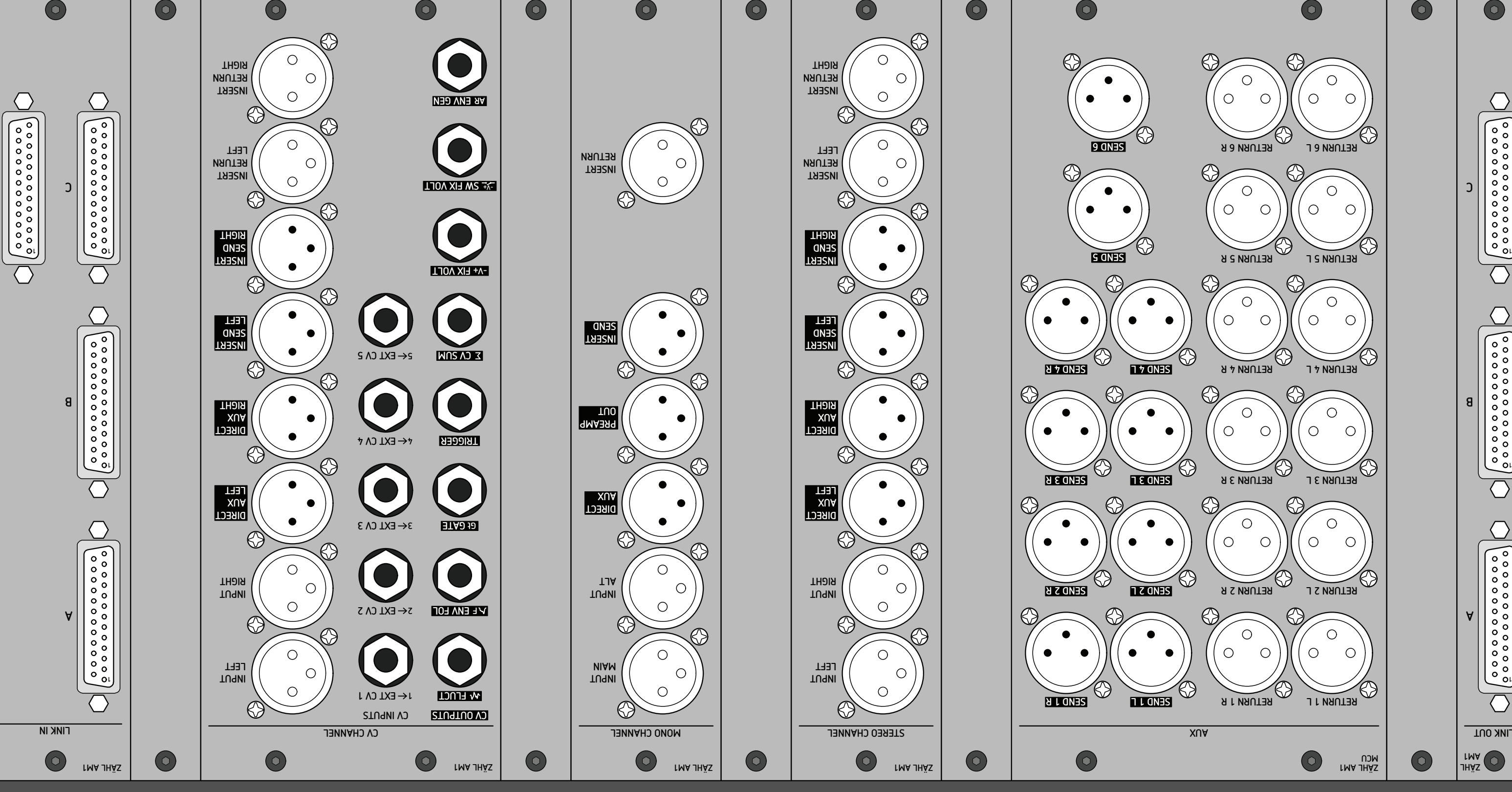
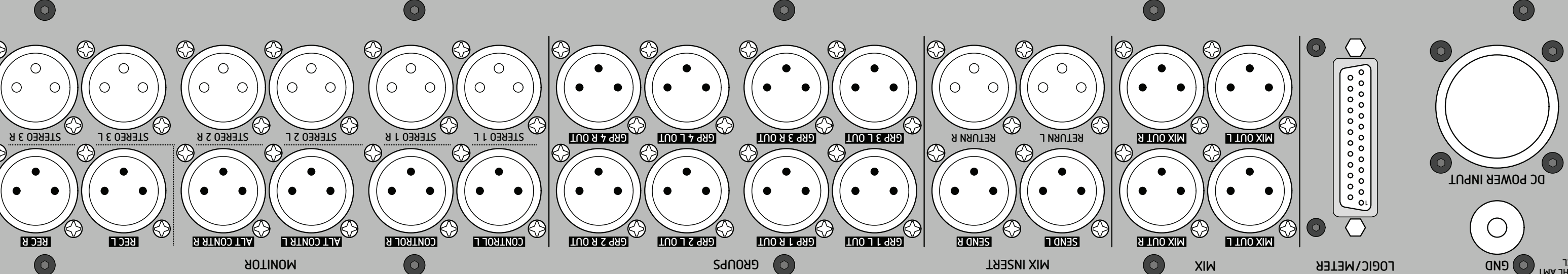


# Zahl AM1 modular analog audio mixing desk

- 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 VCA's 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 (minimization 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

- 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 Zahl AM1 expander with Zahl AM1 or other main console
- LINK INPUT (module LI-A)**
- for merging busses from Zahl 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 potentiometer 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)
  - FLUCTUATION (randomized LFO)
  - ENVELOPE FOLLOWER with selectable input SOURCE, SENSITIVITY and DECAY time and curve
  - GATE with HOLD time control (sharing input SOURCE, SENSITIVITY with ENVELOPE FOLLOWER)
  - AN 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 → between CV-A modules
  - VCA-based EQ/FILTER section
    - 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



The image displays the front panel of the Zahl AM1 modular analog audio mixing desk, organized into several vertical sections:

- CV CHANNEL (CV-A):** Features six CV inputs (CV 1-6) with gain, level, and modulation amount controls. Includes an ENVELOPE FOLLOWER/GATE section with sensitivity, decay, and hold controls, and a RATIO section with DRY/WET and HIGH PASS filters.
- MONO CHANNEL (MC-A):** Includes a MONO input with gain, level, and EQ (LOW, MID, HIGH) controls. Features a PREAMP section with gain and level controls, and a DIRECT AUX section with pre-fader and post-fader faders.
- STEREO CHANNEL (SC-A):** Includes two stereo inputs (STEREO 1-2) with gain, level, and EQ controls. Features a PREAMP section with gain and level controls, and a DIRECT AUX section with pre-fader and post-fader faders.
- MASTER SECTION (MM-A):** Contains four stereo groups (GROUP 1-4) with gain, level, and EQ controls. Includes a MONO 12 channel with gain and level controls. Features a RECORDING MONITOR section with solo, mute, and phase controls, and a CONTROL MONITOR PHONES section with solo, mute, and phase controls.
- MONITOR:** Includes two monitor inputs with gain, level, and EQ controls.
- MIX & MIX INSERT:** Includes two mix inputs with gain, level, and EQ controls, and two mix insert inputs with gain and level controls.
- LINK IN/OUT:** Includes a LINK IN connector and a LINK OUTPUT connector.