Channel EQ:
Bass/Mid/Treble --------- -35dB - +15dB
Talkover Attenuation ---------- -15dB

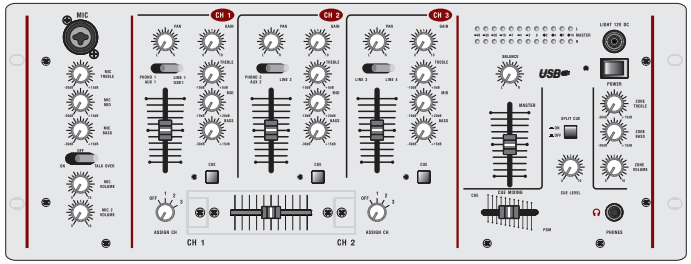
MICROPHONE EQ:
Bass ---------- -30dB/+12dB @ 100Hz
Treble ---------- -30dB/+12dB @ 10KHz
Headphone impedance ------- 16 Ohms

POWER SUPPLY:
~115/60Hz,230V/50Hz switchable

Power Consumption:
5W typical, 7W w/full headphone output
Dimensions: 482×182×83 mm
(4 rack mount spaces)
Weight: 3.9 kg

OWNER'S MANUAL

PROFESSIONAL DJ MIXER



Please read this manual carefully and proper take care of this manual

1. Main Features

★ 2 phono, 4 line, 2 auxiliaries & 2 mic inputs.

★ Balanced XLR Outputs.

★ High quality Alps Feather Fader for smooth,clean crossfading.

★ Bass, mid & treble control for mics

★ Volume control for each Mic.

★ On/Off Channel assign switch.

★ Cue mixing slider.

★ Split Cue monitoring.

★ Zone/Booth volume, treble and bass contro.

★ High level headphone output.

★ On/off/talkover switch for DJ Mic..

★ Soft touch rubber knobs for better contro.

★ Pan and Gain for each channel.

★ 12V BNC light connector for gooseneck light.

★ Left & right turntable ground connectors conveniently located on rear panel.

★ Bass, mid and treble control for each channel.

★ Master volume control.

★ Master Level Indicators w/ peak hold.

★ Left/Right master balance.

★ Cue Level Control Cue button w/ LED for each channel.

★ Microphone connection (6.3mm) /XLR.

★ Independent light control output for touch panels and chase controllers 1/4 connection.

Thank you for purchasing this DJ product. The 401 is ready to be used, there Is no assembly required.
Please read the following Instructions before installing or using your new unit.
CAUTION! - Keep this device away from rain and moisture!

2. Safety Instructions

Always plug in the power last. Make sure that the Power switch is set to the OFF position before connecting other devices to the mixer.

Keep away from heaters and other heating sources!

If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch on the mixer immediately. The arising condensation of water might damage your device. Leave the device switched off until it has reached room temperature.

Never put any liquids on the mixer or close to it. Should any liquid enter the device, disconnect from main power immediately. Have the device by a qualified service technician before operating again.

Never let the AC cord come in contact with other cables! Handle the AC cord and all AC connections with particular care.

Make sure that the available voltage is not higher than stated on the AC voltage selector (35).

(31) MIC 1&2 JACK

Connect your microphone with 1/4 inch (6.3mm) jack plug here. The signals may be controlled by the MIC 1 VOLUME KNOB (18).BASS & TREBLE for MIC 1 can be adjusted by the MIC BASS CONTROL KNOB (19) and the MIC TREBLE CONTROL KNOB (19). MIC 2 volume can be adjusted by the MIC 2 VOLUME KNOB (18). There is also a XLR-plug for MIC 1 (15) on the front panel.

(32) FUSE

Fuse holder. Only replace the fuse when the device is disconnected from main power supply. Only replace with fuses of the same power and rating.

(33) AC CONNECTION

Standard IEC plug with detachable AC power cord.

(34) LIGHT CONTROL

Buffered audio output for light controllers that can use external input. Great for Touch Panels and Chase Controllers.

(35) BOOTH OUT

Left and right RCA output jacks controlled by the ZONE (23, 24) controls on the front panel.

(36) BALANCED OUTPUT

Balanced XLR-plug output for the master signal.

(37) USB

input connector.This is allow the DJ MIXER get the signal from the computer directly, Channel 1 is used for USB signal adjust .

5. TECHNICAL SPECIFICATIONS

INPUTS:
Line ---------- 75mV, 3k Ohm
Microphones ---------- 2.5mV,600 Ohm
Phono ---------- 1.5mV, 47k Ohm
OUTPUT:
Line ---------- 28V, peak to peak
Headphones ---------- 5W @ 47 Ohm
Distortion ---------- <0.03%

SIGNAL TO NOISE RATIONS:
Line ---------- Better than 85dB
Microphone ---------- Better than 78dB
Phono ---------- Better than 80dB

FREQUENCY RESPONSE:
Line ---------- 20Hz 20KHz, ±0.5dB
Microphone ---- 20Hz 20KHz, ±0.5dB

CONTROL to the right, increase the MID s by turning the MIC MID CONTROL to the right, and increase the HIGH s by turning the MIC TREBLE CONTROL to the right.

(19) SPLIT CUE

Control and monitor headphone signal. Slide fader to the left to hear the source music from channel or channels selected by CUE BUTTONS (7). Slide fader to the right to hear PROGRAM MIX (PGM) output.

The smooth CUE MIXING fader is designed for fast and frequent headphone monitoring.

(20) MASTER BALANCE CONTROL

Used to adjust how much of the signal is sent to the left and right MASTER OUT jack (31).

(21) PAN CONTROL

The balance control for each channel, or how much left and right signal for the specific channel. There is a PAN CONTROL for each of the 3 channels.

(22) ZONE VOLUME

(23) ZONE BASS/TREBLE

Use ZONE VOLUME (23) and ZONE BASS & TREBLE (24) knobs to control the output signal for the ZONE.(ie. Other rooms in a club, another amplifier, a satellite speaker system, a microphone paging system or the DJ control booth monitors).

(24) GND (GROUND TERMINALS)

Connect the ground lead of the turntables with these terminals. This will reduce humming and popping noises. There are two convenient ground terminals located on the rear of the mixer.

(25, 26, 27) LINE/PHONO/AUX INPUT JACKS

Input jack for CH-1, CH-2,and CH-3. Connect turntables equipped with MM pickup cartridge to PHONO inputs. CD players or Tape Decks should be connected to LINE input. Line level musical instruments with stereo outputs such as Rhythm Machines or Samplers should also be connected to LINE inputs. CHANNEL 1 (26) features left and right RCA Inputs for LINE 1 and PHONO 1/AUX 1. CHANNEL 2 (27) features left and right RCA inputs for LINE 2 and PHONO 2/AUX 2. CHANNEL 3 (28) features left and right RCA inputs for LINE 3 and LINE 4. Other inputs (ie. CD players) may also be used in the PHONO/AUX RCA jacks (26,27) when the PHONO/AUX SELECTOR SWITCH (29) is set to AUX.

(28) PHONO/AUX SELECTOR SWITCH

Changes phono to an extra line, allows the DJ to use a CD player or other input device in the same line as the phono line. When using a turntable select PHONO, and when using other input devices select AUX. PHONO/AUX line can be used withLINES 1 and 2. The PHONO/AUX SELECTOR SWITCH gives the DJ the possibilities of 2 extra input lines.

(29) REC OUT

Connect to your record unit. The REC OUT level is not influenced by the MASTER FADER (13).

(30) MASTER OUT

Parallel output of P.A.output. Connect with the input of a power amplifier.

Before the device is switched on, all fader and volume controls should be set to 0 or minimum position.

3. OPERATING DETERMINATIONS

★When installing this mixer, please make sure that the device is not exposed to extreme heat, moisture or dust! There should not be any cables lying around. Doing so endangers you as well as others. Do not operate the mixer in extremely hot (more than 30^0/100^0F) or extremely cold (less than 5^0C/40^0F) surroundings. Keep away from direct sunlight and heaters.

★Operate the mixer only after becoming familiar with its functions. Do not permit operation by persons not qualified to operate the mixer. Most damages are the result of unprofessional operation!

★Never use spray cleaners the faders! Never use solvents or abrasive detergentsto clean the mixer! It is recommended that you use a soft damp cloth. Please consider that unauthorized modifications on the device are forbidden due to safety reasons!

CONNECTIONS (Refer to diagrams on pages 5 & 6)

★Make sure that the POWER SWITCH (1) is set to OFF. Before connecting other devices to the mixer, all units have to be switched off and the MASTER FADER (13) is set to 0.

★Make sure that the available voltage is not higher than stated on the voltage selector (35) before connecting to power.

★In order to obtain the highest sound quality, only use high quality DJ, cables for connecting devices. Make sure that the cables are properly fixed.

★Connect your amplifier to the MASTER OUT jacks (31). Make sure that the channels are set properly.

★For recording, connect your tape recorder or cassette deck to the REC OUT jacks (30).

★The REC OUT level will not be influenced by the MASTER FADER (13).

★Connect your microphone to either the 1/4 inch (6.3mm) MIC 1 JACK (15) on the rear panel, or the 1/4 inch (6.3mm) MIC JACK 2 (32) on the rear panel. You can adjust the microphone volume output by turning the MIC 1 or 2 VOLUME (18) knobs. MIC 1 TREBLE, MID & BASS may be controlled by the MIC BASS, MID & TREBLE KNOBS (19) above the TALKOVER switch.

★You can connect 2 turntables using the LEFT & RIGHT RCA PHONO 1 (26) and PHONO 2 jacks (27) on the rear panel. You can only control the turntables signal after you have switched the PHONO /AUX SELECTOR SWITCH (29) on the rear panel to PHONO, plus you must change the PHONO/AUX /LINE SWITCH (5) on the front panel to PHONO/AUX. The signal is then controlled via the CH-1 and CH-2 faders (6).

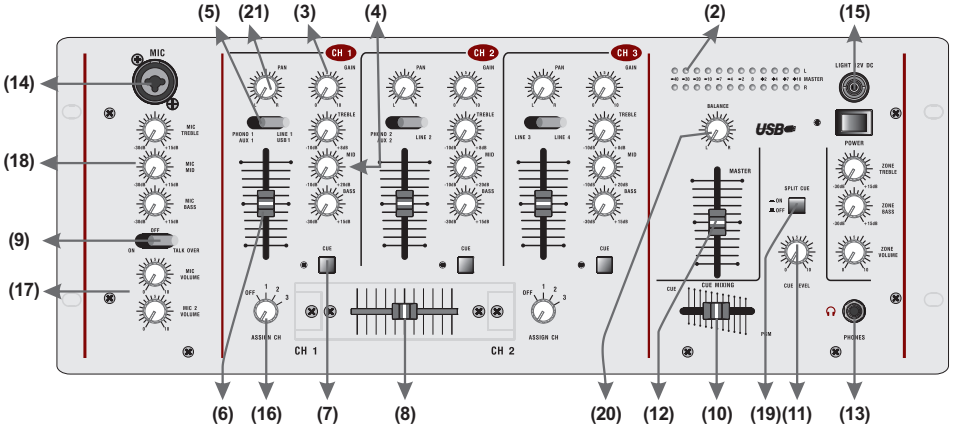
★Connect your tape player, tuner, sound effects, CD player, and cassette decks etc. to the LEFT & RIGHT RCA LINE signals (26,27,28) on the rear panel. The signal is then controlled via the CH-1 and CH-2 AND CH-3 faders (6) when the PHONO/AUX/LINE SWITCH on the front panel(5) is switched to LINE. CD players, cassette decks etc. may also be connected to the LEFT & RIGHT RCA PHONO/AUX jacks (26,27) on the rear of the unit. You can only control this signal after you have switched the PHONO/AUX SELECTOR SWITCH (29) on the rear panel to AUX, plus you must change the PHONO/AUX/LINE SWITCH (5) on the front panel to PHONO/AUX. The signal is then controlled via the CH -1 and CH-2 faders (6).

4. FUNCTIONS (FRONT PANEL)

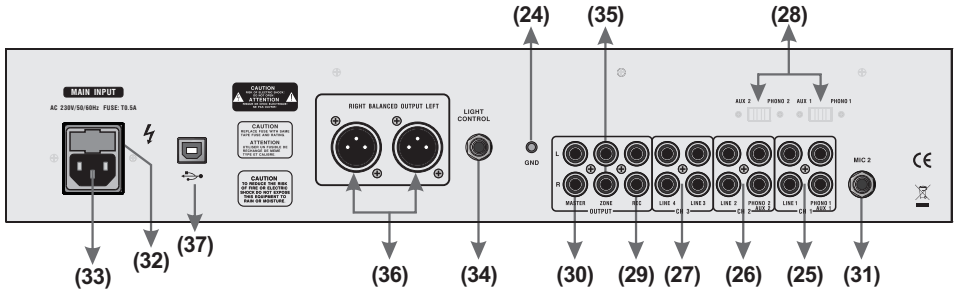
(1) POWER SWITCH

Red LED will light when power is ON.

FRONT PANEL



BANK PANEL



(2) MASTER LEVEL
Dual LED's show the level of the left and right master output.

(3) GAIN CONTROL
Used to set the level of the output signal for its designated channel.

(4) BASS/MID/TREBLE CONTROL
Used to increase or decrease the LOW's, MID s, and HI s of the output signal. The features Rotary Kills with -35dB to +15dB output control.

(5) PHONO/AUX/LINE SWITCH
Used to select the input to be sent to the individual channel. Channels 1 and 2 may be switched PHONO/AUX or LINE. Channel 3 may be switched LINE 3 or LINE 4. The selectors for AUX1/PHOno1 and AUX2/PHONO2 are on the rear panel (29).

(6) CHANNEL FADER
Used to adjust the output level of each channel.

(7) CUE BUTTONS
Engage the CUE button to monitor the assigned channel.

(8) FEATHER FADER CROSSFADER
Mixes the signals of the assigned channels. To assign channels use the ASSIGN SWITCH (16) located on either side of the crossfader. When the crossfader is set in the center position, both assigned channels can be heard at once.

(9) TALKOVER SWITCH
While in the ON position the microphone can be used at any time, while this will not attenuate any other channels. When the switch is in the TALKOVER position, the microphone is hot, meaning that when the microphone is in use all channels attenuate 15dB except the MIC. When the microphone is not being spoken into all channels return to normal. In the OFF position, all signals return to their original level and the microphone is off.

(10) CUE MIXING CONTROL
Mixes the signal to be monitored. The monitor signal comes from the Prefader. This means it will not be affected by the channel faders. You can monitor each channel individually. Connect your headphones to the HEADPHONES jack (14). Slide the CUE MIXING CONTROL (12) to CUE and select the desired channels with the CUE switches (7). When you slide the CUE MIXING CONTROL to PGM (PFL switches without function), you can cue the output signal of the mixer. If the CUE MIXING CONTROL is set to the center position, you can cue both the channel signal you selected and the output signal. With the CUE LEVEL control (11),you can adjust the phones volume without changing the output signal.

(11) CUE LEVEL CONTROL
Adjusts the headphone output level.

(12) MASTER FADER
Adjusts the level of the master output.

(13) HEADPHONES JACKS
Use this jack to connect the headphones. Headphones from 8 Ohms to 600 Ohms can be used. 16 Ohms is recommended. The headphone input is conveniently located on the face panel.

(14) MIC 1 JACK
You can connect microphones with 1/4 inch (6.3mm) jack plug or XLR-plug.

(15) BNC
JACK FOR GOOSENECK LAMP 12V DC

(16) ASSIGN SWITCH
Used to select which channel is to be mixed with another.

(17) MIC 1 & 2 VOLUME CONTROL
Adjust the microphone volume of MIC 1 and MIC 2.

(18) MIC BASS, MID, AND TREBLE CONTROL
Use these controls to fine-tune the MIC 1 signal. Increase the LOW s by turning the MIC BASS