



# VA MIXER

Model # NEB-VA-MIXER

## Introduction

The NEBTEK VA Mixer is the long awaited on-set audio solution for video assist operators. It integrates with our QTAKE NX2 and NX8 systems, rackmount QTAKE systems, as well as most other common digital video recorders (such as a PIX240i, NEBTEK Lightning, or Raptor). It is primarily an audio distribution system that includes talkback and listening capability.

## Features

- Line-level balanced input [XLR input], commonly used as sound mixer input
- Four channel distribution [RCA output], commonly used for recorders (up to four)
- Five-position DVR output selector switch for live passthrough and up to 4 recorders [RCA input]
- Outputs for up to three speakers. Three ¼" TRS mono outputs carry amplified audio for passive speakers, three RCA outputs carry line level output for powered speakers (speakers not included)
- Individually adjustable levels for the three output speakers.
- Intercom for talkback to 1, 2, or all 3 speakers (using built-in microphone)
- Inputs for up to three set microphones [RCA], commonly called listeners. Must be line level (microphones not included).
- Headphone jack [Stereo 1/4" TRS]
- Headphone volume level adjustment
- Headphone mixer for all sources: Intercoms 1,2, and 3, live line-in from sound mixer, and selected DVR
- Built-in speaker with level adjustments independent of the headphone level
- All professional audio circuits with mic de-popping and built-in limiting and compression for comfortable listening
- Mute button w/GPI trigger [4-pin Hirose]
- 12 Volt Power input (2.5MM input with locking ring)

## Specifications

**Material:** Anodized aluminum

**Physical dimensions:** 10.5"x8.75"x1.75"

**Weight:** 2.2 lbs

**Power supply:** 12V 60W AC/DC switching regulator

**Input connectors:** 1 XLR (balanced), 7 RCA, 1 4 pin Hirose

**Output connectors:** 3 ¼" mono TRS, 7 RCA

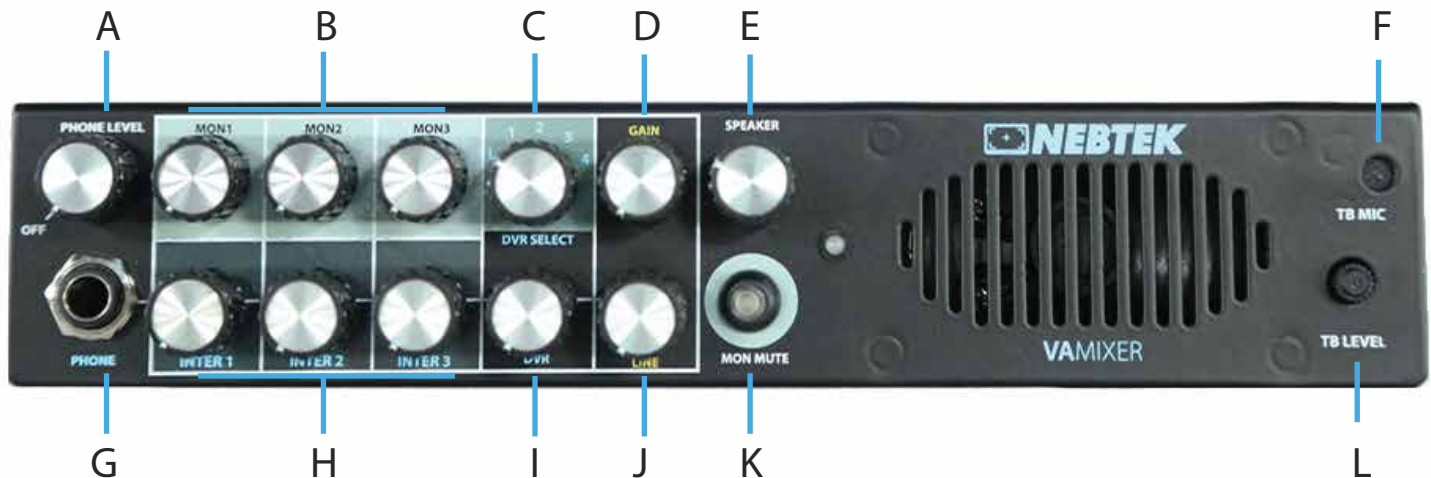
## Available Accessories

**Nebtek JBL Remote Station -**

**Nebtek VA Remote Box -**

**Rack brackets -**

## Front Options



- A Phone Level/Power** - Adjusts your headphone volume. Turn it all the way to the left to turn the unit off.
- B Mon 1-3** - Controls the volume for the output speakers (both Line and Speaker). This changes the volume of program audio/talkback for people listening to the remote speakers, often the director.
- C DVR L,1,2,3,4** - This selects the audio source that will go out Speaker 1-3 and Line 1-3. L (Live) is just passthrough from the XLR feed. 1-4 selects the DVR from which the user wants to play back video and audio. In the QTAKE example, you would switch it to 1 to hear playback from QTAKE, 2 to hear playback from the PIX240i, etc.
- D Gain** - Adjusts the gain of the XLR feed coming into the system.
- E Speaker** - Adjusts the volume of the small internal VA Mixer speaker.
- F Microphone** - For talkback.
- G 1/4" Headphone Jack**
- H Inter 1-3** - Adjusts the volume of lines Inter 1-3 (listener lines) in your headphones or the small VA Mixer speaker. PUSH these buttons to talk on Speaker 1-3 and Line 1-3 (often located by the director). You can adjust your own speaking volume with the small TB LEVEL knob on the far right.
- I DVR** - Adjusts the relative volume of what's being played back on the DVR In 1-4 (from QTAKE, PIX240i, etc.)
- J Line** - Adjusts the relative volume of what's coming in on the XLR.
- K Mon Mute** - Press it (it will turn blue) to mute all external speakers: Speaker 1-3, Line 1-3. This also will flash blue if there is a power fault. This can happen if the volume is too high, in order to protect the internal amplifiers. This also happens in the case of an over/under voltage state, or over/under current.
- L Talkback mic level**

## Back Options



## Inputs

- A Line Input (XLR In)** - Audio into the VA Mixer for distribution to recorders. This is typically the program audio feed from the sound guy.
- B DVR 1-4 In** - These inputs are connected to the outputs of one or more digital video recording devices. For example, in QTAKE systems the output from the Mac typically feeds DVR 1 In. Additional devices for multiple cameras, such as a PIX240i may be connected to DVR 2, and so on. When the user hits play on the recording device, it outputs to the mixer to be distributed to the speakers. Since only one device can play audio out at a time, the playback device is selected by the DVR Select switch on the front.
- C Inter 1-3** - Remote intercom line-level inputs, typically from the director. Often called a listener.
- D GPI Control** - Mutes speakers via GPI Signal
- E 12V DC Input**

## Outputs

- F Speaker 1-3 (1/4" jacks)** - These powered outputs are suitable only for passive speakers, not powered. Ground on the speaker must be isolated from other grounds. Playback from recorders and talkback go through these lines, as determined by the DVR Select switch.
- G DVR Out 1-4** - Responsible for audio distribution. The audio feed in through the XLR is distributed simultaneously to all four of these connectors. The audio input for digital video recorders are connected to these lines. For example, in QTAKE systems these outputs are connected to the input of the Mac. This allows you to record audio while you are capturing video.
- H Line 1-3 (RCA)** - These line level outputs of playback audio and talkback are for powered speakers. Program audio and talkback go through these lines. The exact same thing goes on Line 1 as Speaker 1, Line 2 as Speaker 2, and Line 3 as Speaker 3.

## Connection Example

### QTAKE/Raptor/PIX240i

Connect DVR 1 Out to the audio input of your Mac/Raptor/PIX240i. May require some kind of converter cables or USB audio device, depending on your recorder.

Connect DVR 1 In to the audio output of your Mac/Raptor/PIX240i. May require some kind of converter cables or USB audio device, depending on your recorder.

Connect Speaker 1 to your passive speaker, or Line 1 to your powered speaker. Place this speaker by the director

Connect an RCA carrying a line-level signal from your microphone to Inter 1 on the VA Mixer (if your mic only uses phantom power or mic level, you may need a pre-amplifier in-line before connecting it to the VA Mixer). Place this microphone by the director.

Connect the XLR carrying the program audio to the VA Mixer.

Plug the DC power supply (2.5mm) to the VA Mixer (powers the VA Mixer).

With this configuration, you can record audio from the XLR onto your Mac/Raptor/PIX240i. You can play this audio back onto the speaker you connected. You can also push Inter 1 to talk into the speaker you placed next to the director. You can hear what the director is saying into the microphone placed by him.

