

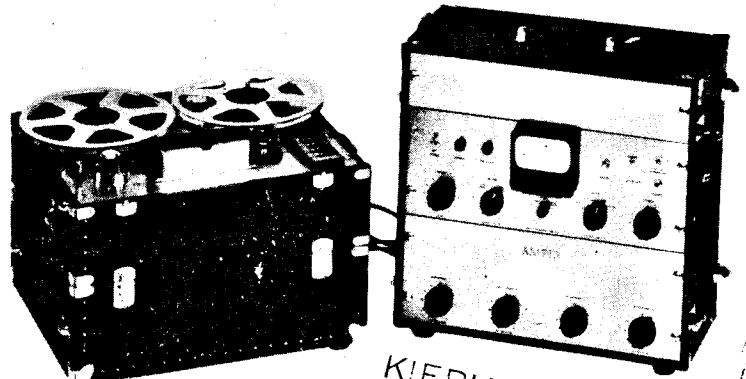
**MODEL** 402-P & 403-P (2 Pc. PORTABLE) &  
4 CHANNEL MIXER

NEW AMPEX

TWO-PIECE

PORTABLE RECORDER

This new unit has been designed to do a remote job of quality recording. The top plate and electronic chassis are the same units that are used in the new 402-403 Console and Rack type recorder. (See Bulletin #A-212.) Cannon screw-type connectors join the two units. A separate compartment in the top plate case is provided for the connecting cables.



KIERULFF SOUND COF  
820-830 WEST OLYMPIC BLVD  
LOS ANGELES 15, CALIF.

A new Four Channel High Level Mixer has been designed when multi-microphones are required. This unit is mounted in the electronic case (shown above). Built-in microphone preamplifier eliminates necessity of extra equipment. The electronic case will be available in two sizes. If mixer is not required, a small case will provide for power supply and amplifier only.

If the large case is used without the mixer, there is sufficient space below the electronic chassis for microphone and reasonable amount of cable. The mixer unit can be added at a later date if the large case is used.

D I M E N S I O N S

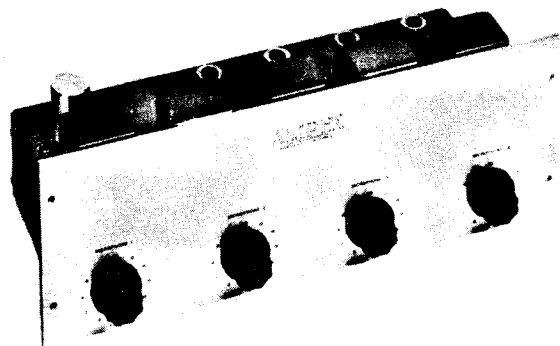
Top Plate Unit in Case:	20" long, 17-1/8" wide, 14-1/4" deep	Weight 62#
Electronic Unit in Large Case:	20" long, 18-1/2" wide, 11" deep	Weight 50#
Electronic Unit in Small Case:	20" long, 11-1/2" wide, 11" deep	Weight 45#
4 Channel Mixer:	19" long, 7" wide, 9" deep	Weight 19-1/4#

All units are designed for Standard 19" wide panel, commercial rack mounting.

# ENGINEERING DATA



This is a four channel high level mixer which is designed specifically to operate into the single channel microphone input circuit of Ampex Model 402-403 Recorders. With a special adaptor power cable, the mixer will work directly into all series 400 Recorders, including 400 and 400-As.



## SPECIFICATIONS:

**Input:** Four microphone low level inputs, incorporating high level mixing are provided. Each input is equipped with an individual input transformer which is factory strapped for normal input impedance of 250 ohms non-terminating. Each input can be strapped to accommodate input impedances from 50 to 600 ohms.

**FOUR-CHANNEL MIXER (Cat. #3761)**

**Output:** An output impedance of 250 ohms is normally provided to directly feed the 250 ohm input on Ampex Series 400 Recorders. The output transformer may be re-strapped for any impedance from 50 to 600 ohms, if desired.

**Gain:** Maximum gain per channel is 8 db with mixer controls wide open.

**Frequency Response:**  $\pm 1$  db., 50 to 15,000 cycles.

**Noise:** At least 68 db below signal for input of - 50 dbm. This represents a noise equivalent to input signal of -118 dbm.

**Distortion:** Less than .2% rms total harmonic on a 400 cycle tone for input levels of -50 dbm or less.

**Controls:** Four high quality potentiometers operate in the high level mixing circuit to provide smooth quiet mixing action. Sufficient space is provided for installation in the field of 20 step attenuators where desired.

**Tubes:** Four low microphonic type 5879 vacuum tubes are provided and operate as triod amplifiers with all heaters dc operated. This provides the lowest possible noise level and will accommodate high output microphones without overload.

**Power Requirements:** 12.6 volts, dc, at 300 milliamperes. 300 to 400 volts, dc, well filtered, obtained from power supply assembly used on series 400 Magnetic Tape Recorders.

**Ordering Instructions:** The catalog number for the recorder does not include the mixer. Indicate number of mixer if it is required.

		60 Cycle	50 Cycle
Model 402 in Large Electronic Case	Cat. #	3674	3674-1
Model 403 in Large Electronic Case	" "	3677	3677-1
Model 402 in Small Electronic Case	" "	4124	4124-1
Model 403 in Small Electronic Case	" "	4125	4125-1