

new dimensions in broadcast and recording sound start with  
**LANG SPECIALIZED AUDIO EQUIPMENT**

# LANG "ENGINEERED IN DEPTH" AMPLIFIERS

FOR over a decade, Lang Electronics Inc., has been the leader in unique functionally-designed quality audio components and systems which have added immeasurably higher and more reliable performance standards to the broadcast and recording industry.

In addition to the outstanding "Engineered in Depth" Solid state Record/Playback Electronics, and Tape Record and Playback Amplifiers, Lang Electronics Inc. has available the most complete selection of solid-state Portable Mixers to provide flexible quality mixing for practically any broadcast and recording facility whether in the studio or the field.

Also, Lang specialized audio equipment, such as the Lang Program Equalizer, the Lang Solid State Program Equalizer, the Lang Equalizer, the Lang Head Assembly, Lang Monitor Amplifier/Speaker, Lang Sync Panel, Lang Master Remote Control, have continued to answer the ever increasing demand for greater reliability and performance.

In addition the Lang Broadcast Tape Recorder and Reproducer, the Lang Audio Visual Pulser and the new Lang Duplicator Master, which is now responsible for producing most of the 8-track 1/4" tape, are unsurpassed in design, function and performance.

Lang specialized accessories such as the Lang Edit Knob, Hold Down Knob, Centering Adapter, Lang Capstan Sleeve, Lang High-Speed Tape Winder, Lang Strobe Device, and Lang High-Speed Duplicator have provided sound engineers in the studio with faster, more efficient handling and processing of tape.

Lang Electronics Inc. is presently supplying to the largest broadcast and recording facilities in the country a complete line of quality-engineered broadcast and recording equipment. And Lang's fast, economical and outstanding repair service is second to none.

For all your audio and broadcast needs — a complete line of equipment, Lang Amplifiers, Mixers, Specialized audio components and Accessories, Console Cabinetry and Consoles and a modern and completely equipped service department — Look to Lang!

## LANG SOLID-STATE RECORD PLAYBACK ELECTRONICS



MODEL LRP-1B

The budget approach to updating your present equipment, LANG low noise, high reliability RECORD/PLAY ELECTRONICS are engineered to operate with your present Ampex heads to provide total compatibility. In addition LANG SOLID-STATE ELECTRONICS offer these outstanding features: Front panel switching; front panel record alignment controls; plug-in electronics modules (optional); high output record electronics; line amplifier; built-in microphone preamplifier; safe record switch; monitor jacks; and compact size. Four models are available: Master, Slave, Multi-channel, and Monaural for direct replacement of your Ampex 300, 350, 351, 354.



## LANG TAPE PLAYBACK AMPLIFIER



MODEL LTP-1A

The compact approach to playback flexibility, the new LANG TAPE PLAYBACK AMPLIFIER lets you step up to quality multi-channel operation in your present monaural space limitations. The LANG TAPE PLAY UNIT features a tape recorder head pre-amp line amplifier. The high and low frequency turnover points are adjustable from the front panel via locking shaft adjustments. The gain of the unit is also adjustable from the front panel.

Amplifier circuitry is mounted on a plug-in circuit card. A built-in output transformer provides balanced output connections. Radio frequency and switching interference are eliminated by shielding and transistor selection. In addition to the standard 7½-15 ips, 50 usec playback curve, 90 usec, 120 usec, and 200 usec curves also available.

## LANG AMPLIFIER POWER SUPPLIES



The LANG POWER SUPPLIES are regulated power for use with the LRA and LTP amplifiers. Available for use with equipment requiring + 33 volts and - 26 volts.

## LANG RECORD AND PLAYBACK AMPLIFIERS



MODEL LRA-1D

LANG RECORD DUPLICATOR AMPLIFIER Model LRA-1D, supplied in standard Models with equalization for various master speeds up to 120 I.P.S. designed to operate with line input. Delivers in excess of + 30 dbm at 600 ohms with less than 1% distortion.

LANG PLAY DUPLICATOR AMPLIFIER Model LTP-1D supplied for use as the duplicator reader in multi-channel systems. Intended to couple with the LRA duplicator record amplifiers.

# LANG MIXERS

## LANG BROADCAST SLAVE MIXER



MODEL LMX-5

With 10 microphone channels the LMX-5, intended primarily as a slave mixer for use with the LMX-4, can be used (with the optional power supply) with any other microphone mixer or with a line amplifier as a ten channel mixer.

This allows expansion of an existing remote system or studio console at minimum cost and in addition provides the unique balanced isolated line feeds for each of the 10 LMX-5 channels.

The unit features all silicon transistor circuits and all amplifiers are plug-in P.C. cards.

## LANG BROADCAST MIXER



MODEL LMX-4

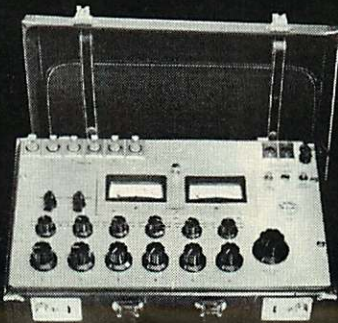
Designed for the broadcast industry the new compact LANG Model LMX-4, is completely silicon transistorized. Features: Five microphone/line inputs; line output capability of +28 dbm; illuminated 4" VU meter.

A unique feature of the LANG Broadcast Mixer is the five balanced, isolated line feeds (microphone level) which are either controlled by the individual channel fader or are by-passed around the fader. This feature greatly simplifies remote feed mixing and also allows monitoring a channel before or after the fader control.

Another outstanding feature of the LMX-4 is the ten microphone slave mixer Model LMX-5. The slave unit plugs into the LMX-4 master and utilizes the Master DC power. Each of the ten channels has a balanced isolated feed output.

The ten channels are mixed to a common bus and this bus plugs into one of the five inputs on the master, thus providing up to fourteen channels. The channel fader then becomes a sub-master gain control for the slave mixer or it can be by-passed. The master gain control then controls the final mix level. Up to three slave mixers can be attached in this manner, allowing a total of 32 mixer channels. (Plug-in Cards are available for microphone, line, tapehead and phone inputs.)

## LANG SOLID-STATE PORTABLE MIXER



MODEL LMP-1

Six channel LANG professional solid-state mixer is ideal for monaural or two-channel stereo recording in the field or in the studio. Three-position selector for A, A & B, or 8 outputs. Six plug-in microphone pre-amplifiers and two plug-in program line amplifiers permit high level mixing and line level output. Two illuminated VU meters for monitoring line output. Sturdy all leather attache case for easy portability.

## RECORD STEREO MIXER



An eight-channel, lightweight mixer for professional use featuring eight microphone inputs with stereo or monaural output. As a stereo mixer, several microphone combinations are available. Three mikes are fixed on A channel and three on B channel. Microphones #4 and #5 can be independently switched, or can be split to appear on both channels. In monaural use, all inputs appear at both outputs simultaneously.

## LANG BATTERY OPERATED FIELD MIXER AMPLIFIER



MODEL LPM-2

With 4 microphone channels the LPM-2 was designed for maximum portability and durability without sacrifice of quality. The unit is optionally supplied with a handy carrying case which has extra space for microphone cords and the accessories needed for a remote job. On location, battery power pack and/or optional AC power pack stand out of the way and the sturdy compact 12" x 5" x 6" mixer can be set almost anywhere. The battery pack consists of standard "c" cells, inexpensive and readily obtainable. The power supply is regulated and so no deterioration of performance occurs over the 100 hour useful life of the battery pack. Batteries automatically take over if AC power is interrupted. The unit features the mixer technology, standard with Lang, low noise, low distortion, high output capability and all silicon solid state plug-in P.C. cards. The output meter is calibrated for 0 V U at + 4 dbm. The unit has provision for a built-in calibration oscillator.

**SPECIFICATIONS:** • Response:  $\pm 1$  db 30 HZ to 15 KHZ • Noise: - 120 dbm referred to input • Output: + 20 dbm • Distortion: Less than 1% at + 18 dbm • Gain: 90 db • Inputs: 4 Mic., 4 line XLR, 1 Power • Outputs: 1 Monitor phone jack, 1 head phone jack, 1 Line level XLR, 1 set (3 binding posts) • Size: 12" x 5 3/4" x 4 3/4" • Weight: 5 lbs., approximately • Battery Pack (with batteries) 5 lbs., approximately • AC Power Pack: 4 lbs., approximately.

## LANG ALL SOLID-STATE COMPACT MIXER

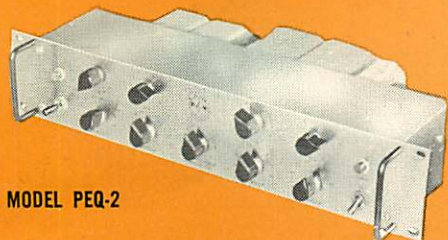


MODEL LMX-2

With exclusive echo mixing, the new LANG SOLID-STATE COMPACT MIXER is the economical approach to all portable and console requirements in any recording or production facility. The LANG Model LMX-2 has 10 inputs — 5 each — switchable between high and low level with separate echo injection on each. In addition, the LANG COMPACT MIXER features a master gain control and a master echo return control. All component circuitry is of plug-in printed circuit design to facilitate customizing to your individual requirements. **FEATURES:** All Silicon Circuitry • Stainless Steel Control Panel • Plug-in Microphone Pre-Amplifier and Accessory Cards • Separate Echo Injection on each input • Use one, two or more units for multi-channel application.

# LANG SPECIALIZED AUDIO EQUIPMENT

## LANG PROGRAM EQUALIZER



MODEL PEQ-2

The new LANG PROGRAM EQUALIZER combines silicon circuitry with precision networks to produce a versatile control package for correcting or enhancing deficient program material in the recording or reproduction of sound.

**FEATURES:** • Non-drift stable equalizer components • High Q toroidal equalizer coils • Bridge selected capacitors • Low hum and noise (better than -90 dbm) • Low power consumption • Hermetically sealed equalizer components • Stainless steel acid etched control panel • Standard 19" rack panel mounting • Equalization and power on indicators • Telephone type equalization in-out key • Broadcast quality potted transformers • Single six terminal audio connecting strip • High output, low distortion capability • Operated components • Continuous duty operation • Stable amplifier gain • Zero insertion loss • Adjustable for + 10 db gain • Equalization curve shaping • Silicon planar transistor amplifier • Solid state regulated power supply • Plug-in amplifier and power supply boards • Balanced, unbalanced or un-ground operation • Multi-position equalization frequency selectors.

## LANG MONITOR AMPLIFIER/SPEAKER



Primarily intended for use in broadcast offices where background monitoring is required, the LANG MONITOR AMPLIFIER/SPEAKER contains its own solid state amplifier, power supply and volume control. Stands vertical (as pictured) or horizontal if desired and can be readily hung on your wall. The unit is supplied with an 11-position input selector switch for use when monitoring several lines.

The LANG MONITOR AMPLIFIER/SPEAKER is also available in rack-mounted model. The amplifier can be supplied on a 3" x 6" panel for mounting in your baffle or any other convenient location.

## LANG SYNC PANEL



Easily and quickly connected between the electronics' chassis and the head cables the new LANG SYNC PANEL enables the record head to be switched directly into the playback circuit. This switching eliminates the time delay (due to distance between the record and playback head) of a previously recorded track by employing the record head as a playback head.

Exclusive interlocked wiring system prevents accidental erasure of the synchronized track by disconnecting record function. Now you, too, can have "sound-on-sound" recording on a two-channel Ampex Tape Recorder with the new LANG SYNC PANEL!

## LANG PROGRAM EQUALIZER



MODEL PEQ-3

The new LANG PEQ-3 is identical in circuit design to the time-tested and field-proven rack mountable PEQ-2. Unsurpassed in performance and versatility, the new LANG PEQ-3 Program Equalizer Module is designed specifically for mounting in consoles either vertically or horizontally. The LANG PEQ-3 Program Equalizer Module —

**INCLUDES THESE OUTSTANDING FEATURES:** • Eight low boost shelf frequencies • Four low droop shelf frequencies • Eight high boost peak frequencies • Six high droop shelf frequencies • Frequency select switches and equalization controls for all boost and droop functions. • All controls and switches may be used simultaneously • Low frequency peak boost by use of boost and droop controls • Engraved black anodized panel • Plug-in transistor amplifier and power supply cards • Plug-in blue ribbon connector strip • Compact size: 3 1/2" high x 10 3/4" wide x 9" deep.

## LANG EQUALIZER



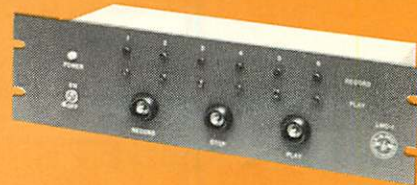
An accessory to the Lang Compact Mixer to provide separate high and low equalization for each of the 9 mixer inputs. Comes complete with interconnecting cable and plugs.

## LANG HEAD ASSEMBLY



Unique LANG HEAD ASSEMBLY provides any configuration record or playback or both within the limits of four heads or stacks. Individual heads available to provide 1 and 2 track 1/4" and 3 and 4 track 1/2" playback. Also 3 track 1/2" erase, record and play plus 4 track play. Head assemblies can be equipped to meet your individual needs. The LANG HEAD ASSEMBLY mounts on any Ampex 300 or 350 series to plate. Comes complete with adjustable 1/4"/1/2" external tape guides.

## LANG MASTER REMOTE CONTROL



Lets you operate up to six tape recorders simultaneously. For the owner of 2, 3, 4, 5, or 6 tape recorders — the new LANG MASTER REMOTE CONTROL provides single push-button control. Just plug in master tape recorder and control up to 5 machines simultaneously. Built in safety lock prevents unit from erasing a master tape. No modification of your present equipment is necessary. Comes complete with cable and plugs. Mounts in 19" standard rack.

## LANG DISK RECORDING EQUALIZER



1. Provides Disc Recording equalization of program material.
2. Feedback connection of cutterhead to recording amplifier.
3. Equalization trim controls for compensation of cutterhead.
4. Permits the use of any high quality audio amplifier as a cutting amp.

# LANG SPECIALIZED AUDIO EQUIPMENT

## LANG BROADCAST TAPE RECORDER AND REPRODUCER



MODEL LB-351

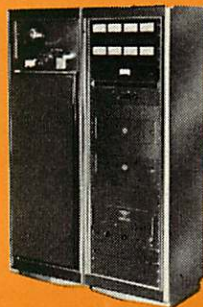
The LANG ELECTRONICS LB-351 incorporates features which standardize control locally and throughout a system. Compatible with any local or network, auto start equipment whether tape, disc or cartridge. Control panel with easily read VU meter and readily accessible controls. Precise speed and timing indication through the use of LANG STROBE DEVICE. Rugged cabinet on easy rolling wheels, enabling unit to be quickly disconnected and installed in another location. Rear recessed interconnecting panel equipped with standard Cannon and Jones plugs. Completely self contained and Langevin monitor amplifier and good quality speaker for use as an individual editing or listening unit at any location. Console dimensions: 43-1/2" high x 21-1/16" wide x 22" deep.

## 350 SERIES RACK CABINET



A compact housing for all Ampex 350 and 400 series Recorders/Reproducers and a flexible approach to most mounting problems, with a wide choice of panels. Horizontal position of the tape transport provides ease of operation. Overall height with casters, 36"; Depth, 18"; Width, 21 3/4". Rack space below vent panel, 24 1/2". Finish in gray hammertone.

## LANG DUPLICATOR MASTER



Now increase efficiency and quality of your 8-track duplicating production and DOUBLE your tape output with the new 120 ips LANG DUPLICATOR MASTER.

The new Master (Model LDM-120) is a one-inch, Grandy (Continuous) loop, 120 inch per sound, 4/8 track Duplicator which will supplement or replace your conventional reel-to-reel duplicating master. SYSTEM FEATURES:

- Superior performance specifications • Automation control for pre-selecting any number of master tape passes at which time the master and slaves are automatically shut down • Master tape on speed in less than 2 seconds • Available as transport only or complete master system integrated with LANG all silicon, solid state record and play electronics.

### LANG DUPLICATOR MASTER COMPONENTS

- LANG BIAS OSCILLATOR
- LANG BIAS AMPLIFIER
- LANG RECORD AMPLIFIER (see details page 2)
- LANG PLAYBACK AMPLIFIER (see details page 2)

## LANG AUDIO VISUAL PULSER



A versatile signal source to simplify the recording of any cue signal for various triggering devices, such as slides, discs, cartridges, etc.

## LANG CENTERING ADAPTER



The LANG CENTERING ADAPTER is an unbreakable replacement for the Ampex bakelite centering adapter. Also available with unique spring action to eliminate slop and provide dependable static ground.

## LANG CAPSTAN SLEEVE - 30 ips.



LANG 30 ips CAPSTAN SLEEVE is an inexpensive approach for converting a standard Ampex 350 drive to three speed operation.

## LANG PRODUCT USERS

### RECORD COMPANIES

Audio Fidelity • Capitol • MGM • Columbia • Decca • Mercury • Vanguard • Atlantic • Elektra • RCA Victor, Rome • Jubilee

### STUDIOS

Regent Sound • Knickerbocker Sound • Mastertone Recording • Murlyn Recording • Gotham Recording • Professional Sound • JAC Recording • JNR Studios • Mayfair Recording • AAA Recording • Rudy Van Gelder • Fine Recording • Rite Records • ODO Recording • Dick Charles Studio • Aura Recording • National Musitme • Edgewood Recording • Universal Recording • RKO Recording • Broadway Recording • Madison Sound • Nashville Recording • Crest Records • Rael Sound • Eldorado Recording • Tower Sound.

### DUPLICATORS

Stereo Devices • General Recorded Tape • Tono Tape • Cue Recording • Decca Records • Stereo Jet de Mexico • Recorded Publications • International Tape Cartridges • Tape Car Gravacoes (Brazil).

### MISCELLANEOUS

Don Costa Productions • J. Lewis Mod. Jazz Qt. • University of Michigan • University of Illinois • Oberlin College • Lasky Film Motion Picture Equipment • Audio Tape • Compton Advertising • United Press International • 1st Church Christ Scientist • Royal Canadian Mounted Police • U.S. Information Office • Picatinny Arsenal • Travis Air Force Base.

### BROADCASTERS

• CBS • ABC • NBC • WINS • WNEW • WOR • KFAR • KFRT • KICD • KMBC • KNEW • KPRC • KRLC • KYW • WAAT • WAOW • WAPA • WAVY • WBAI • WBYD • WCBM • WQWA • WDEA • WDRC • WEAM • WEEM • WFUN • WIBG • WIP • WJDA • WJTO • WKRC • WLBC • WMAQ • WMCA • WMEX • WNHC • WONE • WPN • WPRB • WQUA • WRBD • WSAU • WTAD • WTAE • WTIC • WTOP • WTTG • WTTM • WUJJ • WVTR • WYBC.

For complete details write:

# LANG ELECTRONICS, INC.

507 FIFTH AVENUE • NEW YORK 17, NEW YORK • MU 2-7147

# LANG SPECIALIZED ACCESSORIES

## LANG REPAIR AND MAINTENANCE FACILITIES

- RECONDITION TAPE RECORDER HEAD ASSEMBLIES
- REJUVENATE WEARY MOTORS
- PERK-UP RUN-DOWN CAPSTANS

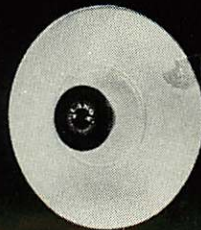
Don't let tired, aching and worn out tape machine parts get you down! LANG ELECTRONICS and its factory-trained technicians and specialists are pleased to make available to professional tape machine users a complete reconditioning, repairing and testing service for all Ampex equipment.

In accordance with standards set by Ampex, all head assemblies, capstans, motors, idlers and other mechanical Ampex parts are subjected to the most rigid and exacting testing and measuring equipment. After thorough diagnosis, replacement and repairing needs are determined. Repairs or reconditioning is then performed by authorized Ampex repairmen.

When reconditioned by LANG ELECTRONICS, your Ampex tape machine parts can be expected to have a useful life and performance characteristic equal to or greater than new parts.

Now you can eliminate tape machine malfunctioning, "down" time, and lost productivity and save money, too! Send in your worn parts today and join the literally hundreds of professional users who have found a new life for their worn out tape machines in LANG's tape machine repair service.

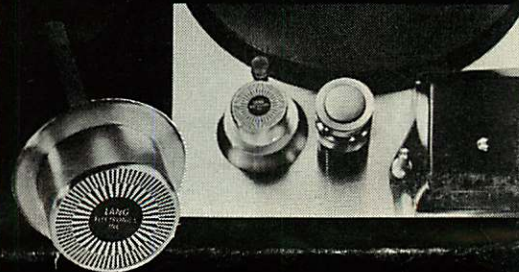
## LANG HIGH SPEED TAPE WINDER



MODEL LTW

Winds tape for storage in one minute... the same time it takes your machine to run forward or reverse! LANG HIGH SPEED TAPE WINDER eliminates the necessity to wind your tapes at slow recording speed before storing. Actually saves you 29 minutes of rewind time every time you rewind a full 10" reel of tape for storing. Fits all Ampex 300/350 Series tape recorders. LANG HIGH SPEED TAPE WINDER is a must for those who store tape on hubs.

## LANG STROBE DEVICE



Now you can replace your worn stabilizer with a new LANG STABILIZER STROBE and see at a glance if your tape speed is accurate. New LANG STABILIZER STROBE gives you constant 7½ and 15 ips speed reading. Also the new LANG STABILIZER STROBE is machined to within .0002 inches and contributes to low flutter specifications. Guaranteed constant and accurate reading of tape on all Ampex 300/350 Series tape recorders. Used by thousands of Ampex owners throughout the world. 10-day free trial.

## LANG EDIT KNOB



Large LANG EDIT KNOB facilitates quick and easy manual cueing. Rugged and unbreakable knob and base for permanent use.

## LANG HOLD DOWN KNOB



The new LANG HOLD DOWN KNOB is intended for use on any Ampex or Scully unit. Will not score your shafts and will provide more positive grip and convenient release.

## WE CARRY THE MOST COMPLETE LINE OF:

AMPLIFIERS  
CARTRIDGE EQUIPMENT  
CARTRIDGES  
CONSOLES  
MIXERS  
CUTTER SYSTEMS  
DEGAUSSERS (Bulk and Head)  
ECHO UNITS  
EQUALIZERS  
HEADS (Customizing and Reconditioning)  
MICROPHONES, STANDS, BOOMS, etc.  
MOTORS (Repair)  
RACKS (Custom)  
SPEAKERS  
TAPE CARTRIDGES  
TAPE RECORDERS  
TAPE  
TURNTABLES

## LANG HIGH SPEED DUPLICATOR STROBE



A must for all Ampex high-speed duplicator systems, the LANG HIGH-SPEED DUPLICATOR STROBE shows at a glance 30/60" per second tape speed. Machined to within .0002" assures low flutter specifications. Stainless steel construction eliminates wear and guarantees constant readings and long life performance.

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