



# UHER

## ROYAL STEREO 8000

*The UHER 8000, lavishly provided with features that will surprise even the most experienced and ardent audiophile is the result of many years of tape recorder design and engineering. The UHER 8000 is one of the most sophisticated tape recorders of its kind, offering a range of possibilities normally found only in the studio—stereo recording and playback, synchronous sound-on-sound, multiplay, reverberation and echo effects, a built in slide projector synchronizer and two channel mixer, all conveniently arranged and easily accessible. In addition to these obvious technical advantages the UHER 8000 is styled with functional elegance to suit any decor.*

- **4 Tape Speeds**
- **Stereo Recording and Playback**
- **Synchronized Sound-on-Sound Recording**
- **Multiplay**
- **Reverberation**
- **Dia-Pilot**
- **3 Magnetic Heads**
- **Acoustic Stop/Start Control**
- **Input Mixer for Mono and Stereo**
- **Remote Control**

# TAPE RECORDER

## TECHNICAL SPECIFICATIONS

Four tracks to international standards

Tape Speeds: 15/16, 1 $\frac{7}{8}$ , 3 $\frac{3}{4}$ , 7 $\frac{1}{2}$  ips

Reel Size: up to 7"

Frequency Response:

50— 4000cps at 15/16 ips

50— 8000cps at 1 $\frac{7}{8}$  ips

50—16000cps at 3 $\frac{3}{4}$  ips

50—20000cps at 7 $\frac{1}{2}$  ips

Dynamic Range: 50 db

Wow and Flutter: 0.15% at 7 $\frac{1}{2}$  ips (audible frequencies only)

Channel Separation: 50 db

Output Power: 2 x 2 watts (push-pull output stage)

Power Supply: 110, 130, 150, 220, 240, 250 volts A.C. 60 cps

Dimensions: 16" x 14" x 7"

Weight: 27 $\frac{1}{2}$  lbs

## CHASSIS

This tape recorder features a cast aluminum chassis for durability, heavy capstan flywheel and long life oilite bearings.

## CASING

The case is of wood, well reinforced, covered with an attractive synthetic black Morocco leather and fitted with a key-operated lock. The unit measures 16" wide, 14" front to back, and 7" high.

## ALL TRANSISTOR

The UHER ROYAL STEREO 8000 is fully transistorized (19 transistors).

## SPEAKER SYSTEM

The unit has two built-in 5 x 7" loudspeakers, one on each side of the case. The output amplifiers, also transistorized, are capable of putting out a signal of 2 watts per channel, which is more than adequate for an efficient speaker system. For optimum sound reproduction quality however, the machine would normally be used to feed an external power amplifier and loudspeakers. At the slowest speed and in the echo mode the tape recorder can be used to check pronunciation in the study of languages: one has simply to say a word or phrase and hear it played back a moment later. The numerous features of this machine provide a wide range of facilities most useful in the study of language or music.

## PLAYING TIMES

The playing times listed below pertain to 2400 feet of tape on a 7" reel.

TAPE SPEED	FREQUENCY RESPONSE	PURPOSE	TIME
15/16 ips	50-4000 cps	Longer playing time	2 x 8 hours
1 $\frac{7}{8}$ ips	50-8000 cps	long playing time & good fidelity	2 x 4 hours
3 $\frac{3}{4}$ ips	50-16000 cps	wide frequency response	2 x 2 hours
7 $\frac{1}{2}$ ips	50-20000 cps	the ultimate in Hi-Fi recording	2 x 1 hour

## WARRANTY

Six months warranty.

# UHER ROYAL

## REELS AND TAPE

Maximum reel size 7", track configuration—4 tracks to international standard, up to 22 hours playing time (monaural), automatic end-of-tape stop.

## DIA-PILOT

Dia-Pilot light and pushbutton make preparation of automatic slide presentation both easy and accurate.

## VU-METERS

Just above the START—STOP—PAUSE keys are two level indicating meters, one for each channel. To the right are two blue indicator lights, the upper is illuminated when the instrument is set for playback from the upper track and the lower for the second track; both are illuminated for stereo. To the left of the meters are two red lights, showing when each channel is set for recording. Thus for MULTIPLAY 1, the upper red light and the lower blue light are on when the recording button is depressed. For MULTIPLAY 2 the two lights are reversed.

## MASTER ON/OFF SPEED SWITCH

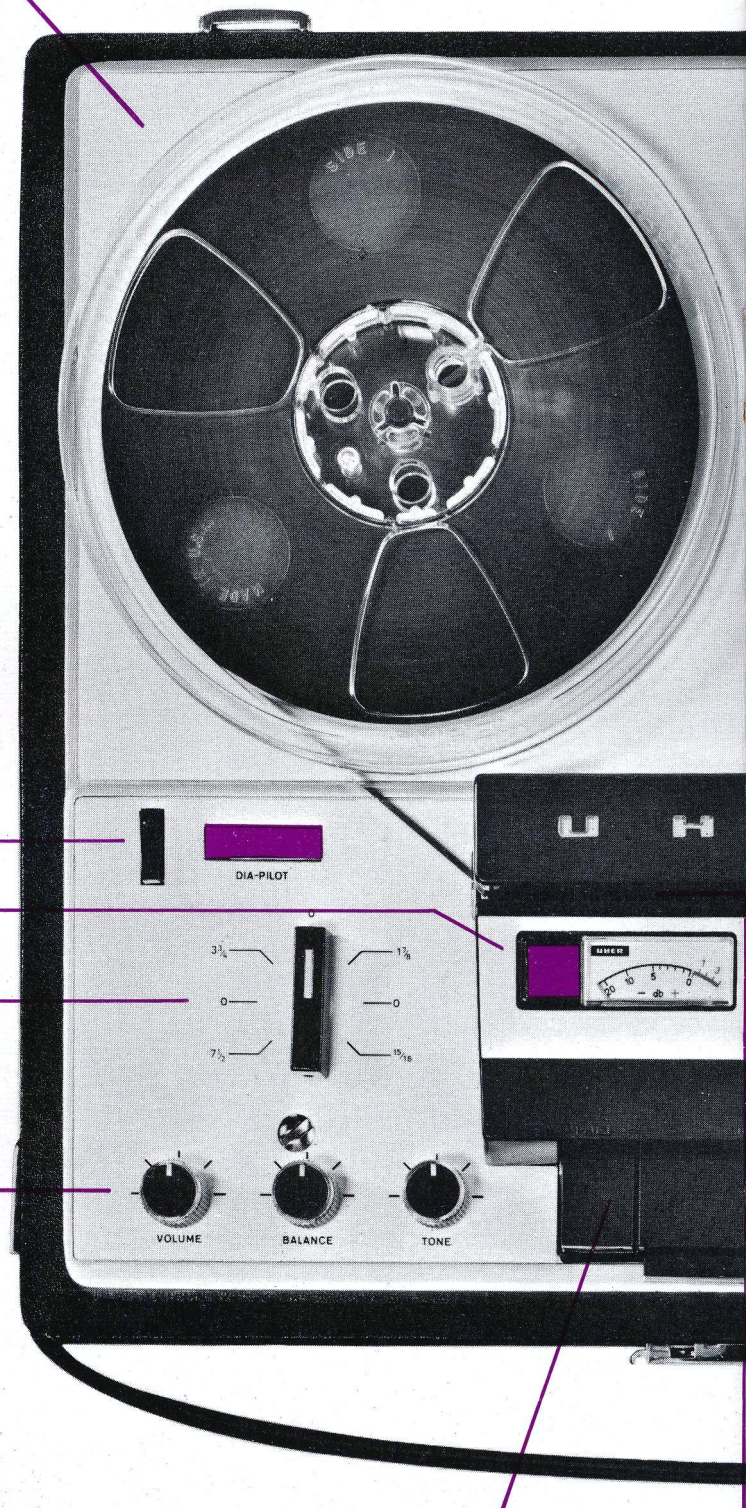
One master switch controls the mechanical speed selector and the ON-OFF mode. There are seven positions—four speeds with three OFF positions between. Selecting the speed also adjusts equalization for each.

## VOLUME—BALANCE—TONE

The playback level is controlled by one knob, balance between channels by a second, and tone—affecting playback only—by a third. The balance control, in monaural operations, gives normal monitoring from the input signal when in the counterclockwise position and from the tape when in the clockwise position. Two recording level controls are provided—the left one for microphone inputs and the right one for inputs from the phono receptacle on the rear apron panel.

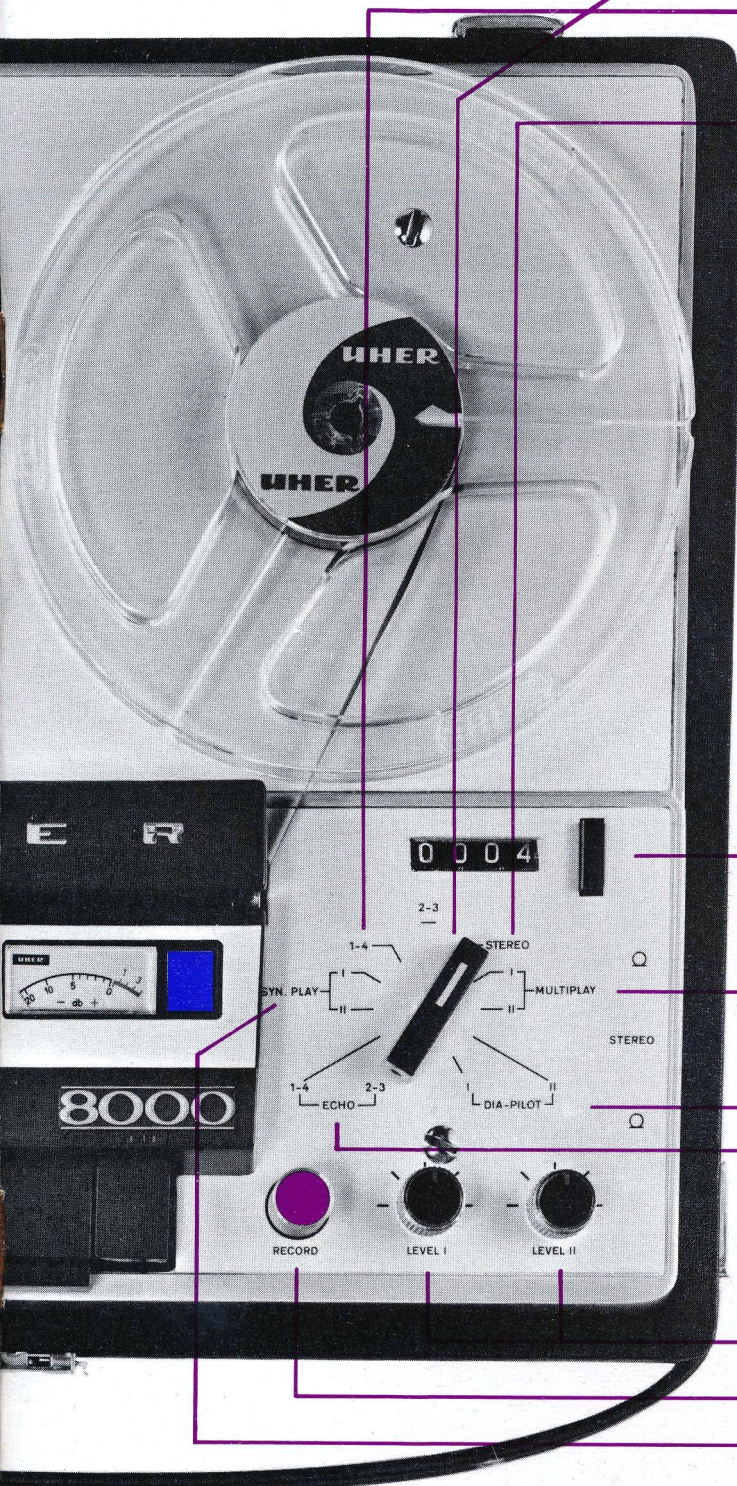
## START—STOP—PAUSE

Piano-type keys are used for the start, stop, and pause operations. In PAUSE the pinch roller is held away from the capstan so that the tape remains stationary while all other controls are in the same positions. The pause operation provides an instant start and stop action so that words can even be cut in two in recording. For instance, one can say "Micro—pause—phone" in recording, while in playback it will sound like "Microphone" without interruption.



*Built with the car*

# STEREO 8000



## MULTIFUNCTION SWITCH

Multifunction switch, together with an interlocked RECORD button, controls all of the electronic functions in its eleven positions.

## MONAURAL RECORDING

1—4 mono record or play on upper track.  
2—3 mono record or play on lower track.

## STEREO RECORDING

Stereo—record or play.

## MULTIPLAY

*Multiplay 1*—permits recording on the upper track from microphone and mixing with material from lower track.

*Multiplay 2*—permits recording on lower track and mixing material already recorded on upper track.

## 4 DIGIT COUNTER

With pushbutton reset.

## DIA-PILOT

*Dia-Pilot 1*—used for recording from microphone and/or from phono record or another tape recorder on upper track as commentary for slides.

*Dia-Pilot 2*—after making recorded commentary on upper track, this position is used to record sub-sonic tone on lower track at points where a slide is to be changed and for playback with slide projector thereafter, with the slide changing at each point that the tone button is depressed in the second run-through.

## RECORDING LEVEL CONTROLS

## RECORDING BUTTON

Recording button must be depressed simultaneously with the START key to prevent accidental erasure.

## ECHO—REVERBERATION

*Echo 1-4* permits adding delayed sound to an original recording on upper track, the amount of delay depending on the speed of the tape.

*Echo 2-3* is for the same operation on the lower track.

## SYN—PLAY

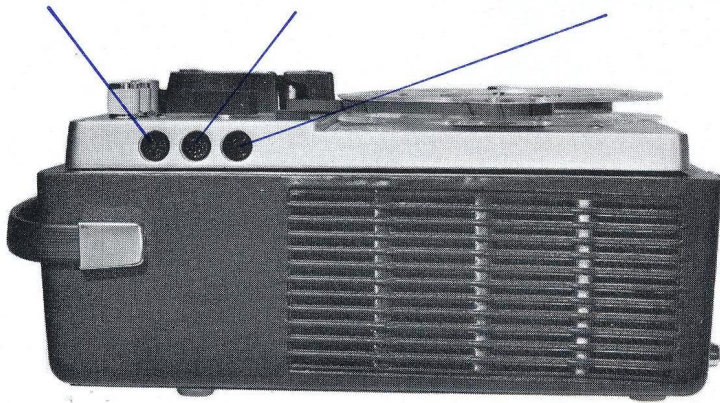
*Syn-Play 1*—used for recording on one track for later recording another signal in synchronism with the first but on a second track when the switch is turned to the *Syn-Play 2* position. In this manner practically any trick type of recording can be made with no external interconnecting or switching.

## SOUND HEADS

3 long life narrow-gap magnetic sound heads for monaural and stereo recordings, provide also for A (straight) and B (off-the-tape) monitoring.

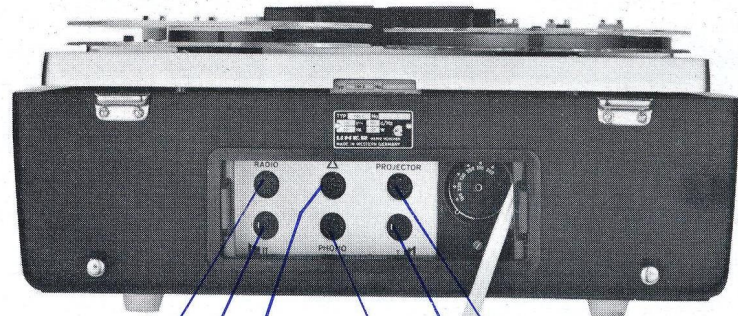
of a watchmaker...

MONAURAL MICROPHONE      STEREO MICROPHONE      MONAURAL MICROPHONE



**SIDEVIEW OF RECORDER**

**REARVIEW OF RECORDER**



STEREO AND MONAURAL RADIO INPUT      AUTOMATIC SLIDE PROJECTOR  
 EXTENSION SPEAKER      EXTENSION SPEAKER  
 REMOTE CONTROLS F111, F211, AND F362 AND F411, AKUSTOMAT      PHONO INPUT

## ACCESSORIES



### F 411 AKUSTOMAT

Acoustic switch for sound-controlled start and stop of the recorder from any signal source.

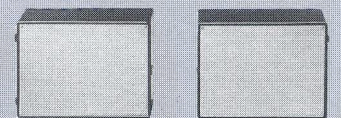
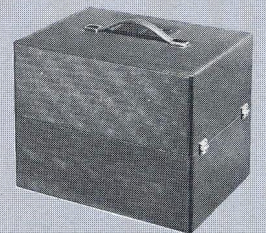


### A 121 STEREO TRANSISTOR MIXER

The concept of this high-quality multi-channel mixer is based on professional mixing techniques. The five straight-line controls allow continuous blending and fading of five monaural signals or two stereo signals plus one monaural signal. Each stereo channel can be adjusted individually. A direction control makes it possible to "move" a monaural source across the stereo sound field. Each input is adapted for the connection of either a microphone, a radio set, a tape recorder or a record player. It is equipped with a separate level control and can be switched on and off individually and noiselessly by means of a rocker-type switch.

#### SPECIFICATIONS

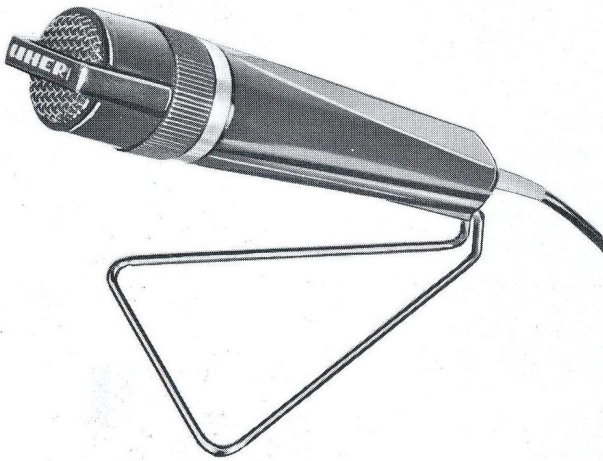
Five built-in two-stage transistor amplifiers • Built-in tone generator • Frequency response: flat within 20—20000 cps • Output voltage: approximately 30 millivolts • Power supply: 9 volt dry battery as used for transistor radios.



### W 882 STEREO EXTENSION SPEAKERS

This moderately priced balanced loudspeaker set and fine acoustic characteristics of the wooden cabinets, improve the stereo effect produced by the UHER ROYAL STEREO 8000. The 6 x 10" oval loudspeakers have a frequency response of 50-15000 cps. Rating: 5 watts. Impedance: 5 ohms. Dimensions: closed approximately 11" x 16" x 12", single cabinet approximately 11" x 16" x 6".

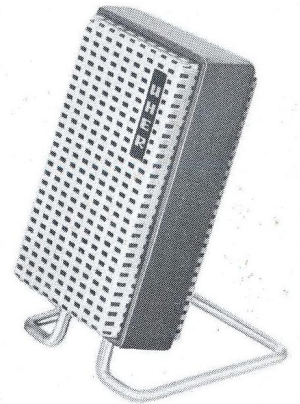
## YOUR CHOICE OF MICROPHONES



**M 134 DYNAMIC MICROPHONE**  
Omnidirectional.  
Frequency response: 80—10000 cps.



**M 582 DYNAMIC STEREO MICROPHONE**  
With two overlapping cardioid directional patterns. Frequency response: 80—14000 cps. The two microphone capsules can also be used separately (A-B Stereo).



**M 531 DYNAMIC MICROPHONE**  
Cardioid response and speech/music switch.  
Frequency response: 80—12000 cps.



**M 532 DYNAMIC MICROPHONE**  
High performance wide-range microphone, cardioid response and continuously variable speech/music switch.  
Frequency response: 40—16000 cps.



**M 533 DYNAMIC MICROPHONE**  
High performance type, hypercardioid response, built-in windscreen and continuously variable speech/music switch. Includes a collapsible table stand, an adjustable table stand joint and a Lavalier suspension. Frequency response: 40—16000 cps.

### **A 261 TELEPHONE ATTACHMENT**

For connection to the telephone circuit.

### **F 111 HAND OPERATED REMOTE CONTROL**

Start/stop remote control.

### **F 211 FOOT OPERATED REMOTE CONTROL**

Same as F III but foot operated.

### **F 362 BALANCE REMOTE CONTROL**

Balance and start/stop remote control with 15 feet of cable.

### **K 111 MICROPHONE EXTENSION CABLE**

15 feet of cable for the M134, M531, M532 and M533 microphones.

### **K 116 MICROPHONE EXTENSION CABLE**

15 feet of cable for the M582 stereo microphone.

### **K 541 STEREO AUDIO CABLE**

For connecting a stereo radio set to the tape recorder.

### **K 823 ADAPTOR**

For connecting a 3-pin loudspeaker plug to a 2-pin loudspeaker socket.

### **K 832 ADAPTOR**

For connecting a 2-pin loudspeaker plug to a 3-pin standard recorder socket.

### **K 853 ADAPTOR**

For connecting a 3-pin standard plug to a 5-pin stereo socket.

### **K 911 PROJECTOR CABLE**

Connects the ROYAL STEREO 8000 to an automatic slide projector.

### **M 911 MICROPHONE FLOOR STAND**

Only 16" long when folded.

### **W 212 MIDGET MAGNETIC EARPHONE**

For monitoring recordings and for playback. Complete with earclip and stethoclip.

### **W 671 DYNAMIC STEREO HEADPHONES**

For monitoring and playback of monaural and stereo recordings.