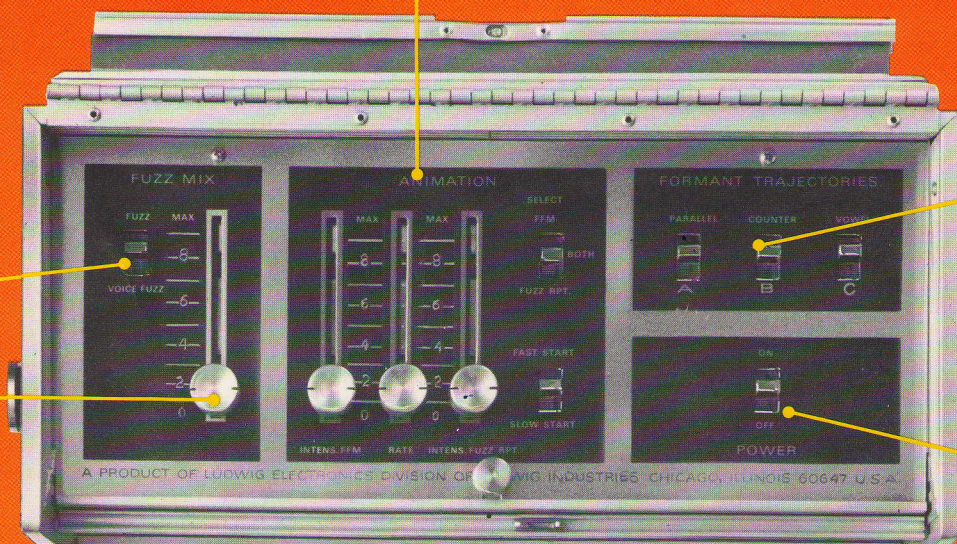


Operating controls for Ludwig Phase II Synthesizer are *human engineered* to put operating controls within easy reach of the performer. All switches are lighted with either a jeweled pilot or are self illuminated with changing colors to indicate their exact position even when being used under the low ambient lighting conditions so prevalent in many of today's performing areas. Rate and intensity functions are adjusted with slide controls which immediately indicate their position at a glance.



**FORMANT TRAJECTORY**  
Electronically created formant frequencies are modulated either manually through use of foot pedal, or automatically through use of animation to produce synthesized sounds. A) *Parallel* moves frequencies in parallel arcs. B) *Counter* moves frequencies in opposite directions causing them to cross and spread. C) *Vowel* moves two frequencies in non-parallel, non-crossing arcs.

**SELF CONTAINING CASE**  
Vacuum-formed, heavy gauge high-impact ABS material will resist accidental damage resulting from rough usage.

**POWER ON/OFF**

**INPUTS**  
Connects either high or low impedance signals.

**LOW-Z-BALANCE**  
Matches low impedance input with high impedance input when both are used together.

**ANIMATION ON/OFF**  
Activates automatic Fuzz Repeat and Formant Frequency Modulation.

**FUZZ ON/OFF**  
Activates Fuzz Circuit.

**FALL PLATE**  
Cast aluminum chosen for its lightweight sturdiness combined with high weight bearing qualities.

**FOOT PEDAL**  
Manually modulates formant frequency and establishes lower limit of formant frequency modulation when animation is on. Designed with minimal travel, centered among other foot-operated controls to reduce excess foot motion. Textured rubber tread prevents slipping. Heavy duty construction supports player's weight without damaging the instrument.

U.S. and foreign patents applied for.

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