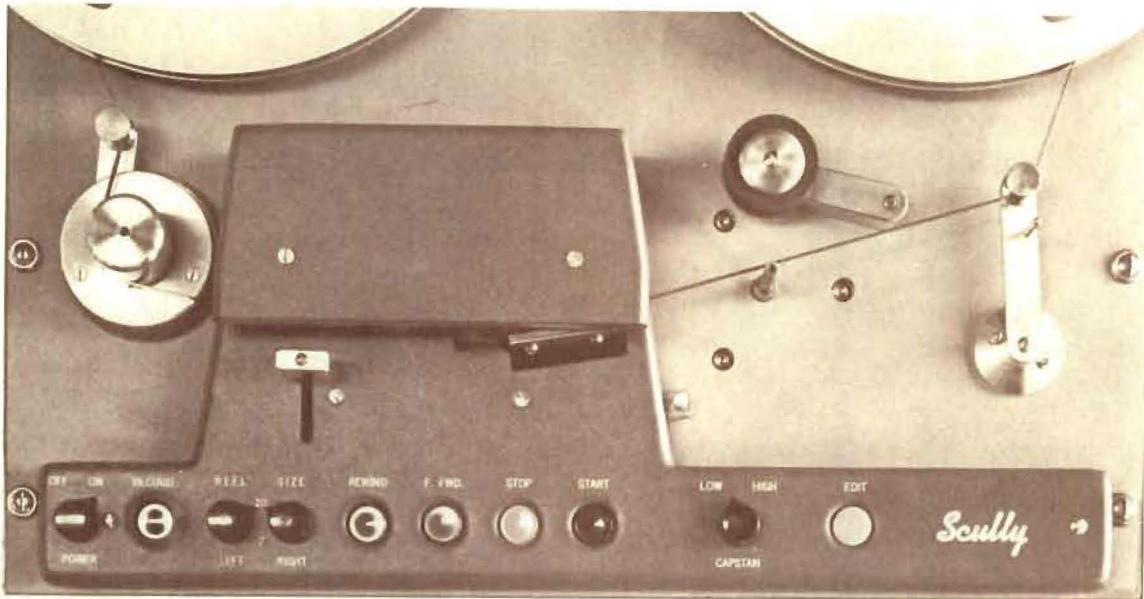


SCULLY 280

PROFESSIONAL SOLID STATE TAPE RECORDER



SCULLY RECORDING INSTRUMENTS CORPORATION



MAR PROOF-SCRATCH RESISTANT OPERATIONS CONTROL PANEL

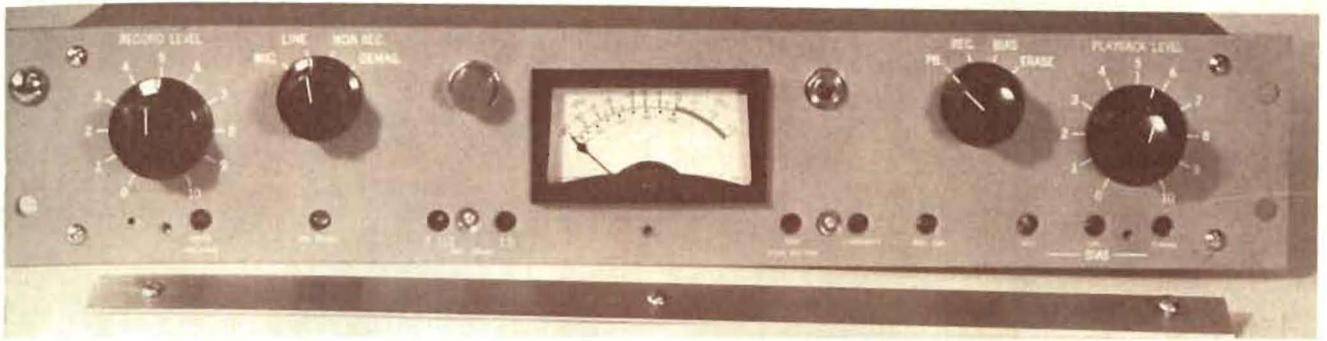
Durable Royalite provides a rugged cover for the 280's operations control panel. Individual reel size selector switches and edit control button are design innovations of the 280. The 24 VDC control circuitry has plug in relays with military type harness wiring and connectors. Quick head interchangeability and positive alignment adjustments give the 280 improved operational flexibility.

Scully 280 Design Features

- Scully patented disc brakes for extra reliability
- Full one year guarantee
- Direct drive heavy duty hysteresis synchronous capstan motor
- All heads, reel hubs, relays, amplifier cards are plug-in design
- Modular sub-assembly construction
- Mil type harness wiring

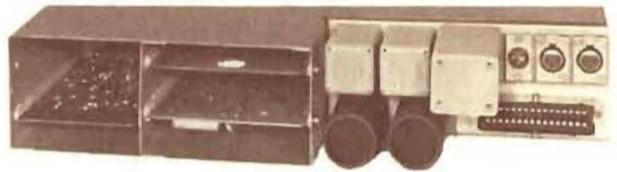
THE SCULLY TRADITION

Scully disc recording equipment has been the standard of precision and quality throughout the world for more than 45 years. The Scully tape recorders and reproducers are designed and built with the same high degree of craftsmanship as the Scully Lathes. The model 280 offers reliable operation in a variety of critical audio applications where exacting performance is essential.



Solid State Electronics

The all-transistor Scully 280 electronics assembly is mounted on a 3½" x 19" panel with calibration and adjustment controls available from the front. Separate line and microphone input transformers and jacks permit panel switch selection of inputs. Mode selections available include microphone, line, non-record and demagnetization for head disconnection during degaussing. The bias and operating levels and the gain of the various amplifiers are totally immune to line voltage variations of up to 20%. Tapped toroidal transformers and silicon rectifiers in the power supply substantially reduce operating heat.



Three separate plug-in etched circuit boards house the microphone, record and playback preamplifiers and the erase oscillator and bias generator. These mil standard glass epoxy boards are hand soldered for maximum reliability and have gold plated contacts. VU settings for 0, +4 and +8 dbm with direct reading of bias and erase levels.

MULTI-CHANNEL Studio Recorders



Convenient reduced size of the 280 electronics permits multi-channel configurations in half the usual electronics space requirement. Three and four channel recorders, in all standard tape widths, have built in selective sync permitting switching of any record head to playback cueing function while recording on other channels.



TECHNICAL SUMMARY

FREQUENCY RESPONSE

- ± 2 db 30 to 18,000 cps at 15 ips
- ± 2 db 50 to 15,000 cps at 7½ ips
- ± 2 db 50 to 7,500 cps at 3¾ ips

SIGNAL TO NOISE LEVEL

Peak record level to unweighted noise (30 to 15 kc band) 7½ and 15 ips full track . . . — 60 db

FLUTTER AND WOW

- 15 ips 0.08% RMS
- 7½ ips 0.1 % RMS
- 3¾ ips 0.2 % RMS

TAPE SPEEDS

3¾-7½ ips; 7½-15 ips; other speeds on special request

MULTI CHANNEL CONFIGURATIONS

- ¼" — 1 or 2 channels
- ½" — 2, 3 or 4 channels

STARTING TIME

Tape reaches full play speed in 0.1 second

STOPPING TIME

Tape moves less than 1½" after depressing stop (15 ips)

TIMING ACCURACY

99.9% ± 1.5 seconds for 30 minute tape

REWIND TIME

Approximately 75 seconds for 2400 foot NAB reel

EDIT FUNCTION

Edit button permits tape to move in play mode without winding on takeup reel

REEL SIZE

Up to 11½"

PLAYBACK AMPLIFIER DISTORTION

Less than .5% THD at plus 18 dbm

EQUALIZATION

Transport speed switch controls equalization change. NAB curve

ERASE FREQUENCY

60 kc

BIAS FREQUENCY

120 kc

CONTROLS

Power On and Off; Record; individual reel size switches; Rewind; Fast Forward; Stop; Play; Speed Change Switch; Edit; All relays and solenoids 24 VDC, plug-in relays

REMOTE CONTROL

On, Off, Record, Rewind, Fast Forward, Stop, Play

EQUALIZATION ADJUSTMENT AND CALIBRATION CONTROLS

Accessible from front of electronics panel by removing cover plate

OUTPUTS

+4 or +8 dbm
(+ 18 dbm peak) 600 Ohm balanced line

INPUT

Bridging 600 Ohm balanced or unbalanced line level, also microphone

MONITORING

Separate record and playback amplifiers permits tape to be monitored while recording

POWER REQUIREMENT

117 VAC, 50/60 cycles, 275 watts

MOUNTING

All models available unmounted for rack mounting or in console or portable cases

555/212

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