

LJScully

PRICE SCHEDULE

- Tape Reproducers
- Tape Recorder/Reproducers

Extended Play Audio Tape Reproducers (14" Reel Capacity)

(Unmounted)

LJ-10

| | |
|--|---------|
| Model LJ-10-1 | \$4,600 |
| Monaural, Half Track, Bi-Directional, .250 inch Tape | |
| Model LJ-10-2 | \$4,600 |
| Stereo, Two Track .250 inch Tape | |
| Model LJ-10-4 | \$4,850 |
| Stereo, Quarter Track, Bi-Directional, .250 inch Tape | |

Digitally Controlled Analog Audio Tape Recorder/Reproducer

LJ-12

| | |
|---|---------|
| Model LJ-12-1/1 | \$7,500 |
| Monaural, Full Track .250 inch Tape | |
| Model LJ-12-2/1 | \$7,950 |
| Stereo, Two Track .250 inch Tape | |
| Model LJ-12-4/1 | \$7,950 |
| Stereo, Quarter Track .250 inch Tape | |
| Model LJ-12-2/2 | \$9,350 |
| Stereo, Two Track .500 inch Tape | |

Effective January 1, 1984 All Prices Subject to Change Without Notice

LJScully

THE L. J. SCULLY MANUFACTURING CORPORATION
138 Hurd Avenue, Bridgeport, Connecticut 06604 U.S.A.

12021 368 2322

Model LJ-10 Reproducer
Model LJ-12 Recorder

LJ Scully

The Original Scullys

THE L.J. SCULLY MANUFACTURING CORPORATION
138 Hurd Avenue, Bridgeport, Connecticut 06604 U.S.A.
(203) 368-2332

LJScully MODEL LJ-12

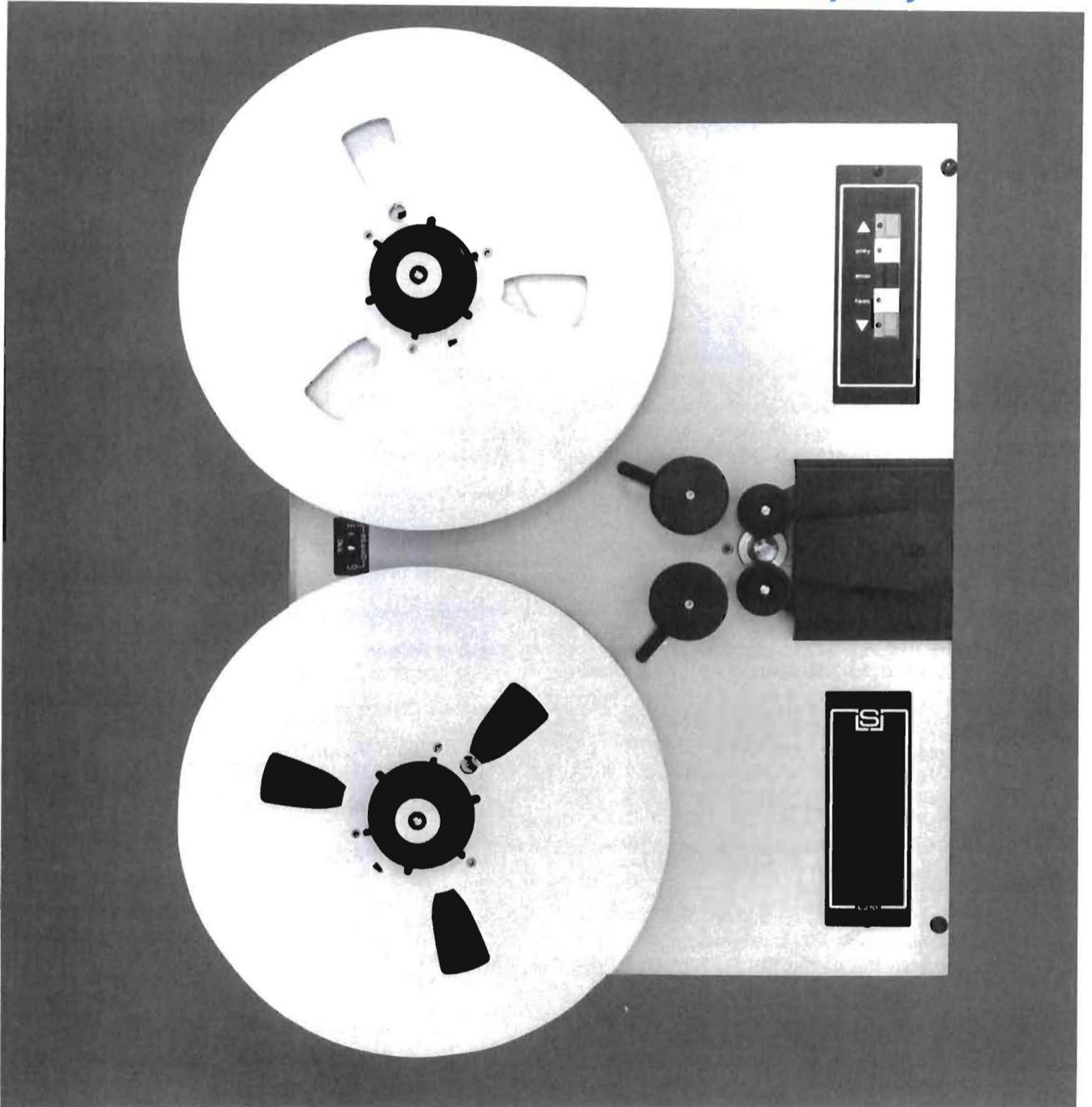
Audio Tape Recorder/
Reproducer



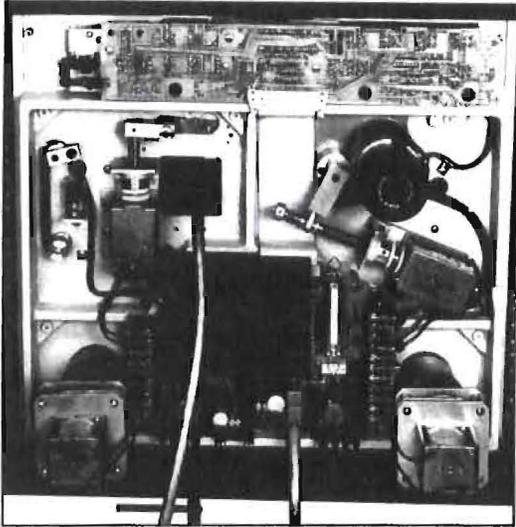
WITH THE LJ-12 RECORDER, L.J. SCULLY OFFERS THE BROADCAST AND RECORDING INDUSTRIES A NEW STANDARD IN ANALOG RECORDING. NOW, AUDIO ENGINEERS HAVE COMPLETE **DIGITAL CONTROL OF AN ANALOG TAPE RECORDER**. AT THE HEART OF THE LJ-12 ARE THREE ADVANCED MICRO-PROCESSORS, EACH COMMUNICATING WITH THE OTHER, ALLOWING UNPRECEDENTED OPERATIONAL STABILITY AND FLEXIBILITY.

LJScully MODEL LJ-10

Professional Extended Play Reproducer
With 10" & 14" Reel Capacity



LJ-12 Recorder features:

- SIMPLICITY
 - Self diagnostics and plug-in circuitry for ease of service
 - All connectors the finest available, including machined-pin gold plated I.C. sockets and two-piece plug/receptacle type circuit card connectors
 - Complete digital control of the transport functions including the use of lifetime hall-effect switching
 - Use of a rigid, precision ground casting for maintaining the accurate alignment of the tape transport
 - Solid-state, infra-red tape sensor using no moving parts or tape slots that interfere with tape threading
 - Closed loop, dc servo capstan drive for ultimate speed accuracy
 - Bi-directional servo capstan system allows reverse play capability
 - The most accurate vari-speed system ever offered, with precise digital control of capstan speed from 3.00 to 36.00 IPS in .01 IPS increments, with L.E.D. display of IPS or percent of deviation.
 - Digital, real time position locator with LED display
 - Home, replay and dump edit functions for ease of editing
 - Shuttle control for easy cueing
 - Digitally controlled constant tension reel motors for gentle tape handling
 - Slow wind spooling mode for improved tape storage
 - Long life, hot pressed glass bonded ferrite heads are standard
 - Five position head stack allows spare head location in addition to the SMPTE time code head
 - SMPTE compatibility using a center track between the two audio channels with a separate head to eliminate crosstalk problems
 - Advanced, efficient switching power supplies insure cool operation without noisy fans
- 
- Universal power supply mains input compatible with all world standards
 - Versatile accessory connector allows access to all of the machine's vital internal signals including tallies, push-button inputs, and power supplies for easy interfacing to synchronizers and controllers
 - Accepts both parallel and serial remotes and can be controlled using RS232 data (without the use of "black boxes").
 - Transformerless, high current, true differential output stage can supply +28 DBM and distortion-free unbalancing
 - Quiet punch-in and out with bias delays precisely controlled by the audio control microprocessor
 - Non-volatile memory stores all audio adjustment values and insures dependable storage without batteries
 - Storage of separate values for every audio parameter, for all four tape speeds, for four tape types, with NAB or IEC standards
 - Programmable fast-mute level and automatic high frequency correction prevents monitor speaker damage in lifter defeat mode
 - Built-in monitor amplifier with headphone jack and terminals for console mounted speaker
 - Quiet Operation



Specifications

| Tape Width: | 1/4 inch - Mono, 2-track or 1/4 track 1/2 inch - 2 or 4 track | Frequency Response: | 30 IPS CCIR 40-24Khz ± 1.5 dB 15 IPS IEC 30-22Khz ± 1.5 dB 7.5 IPS IEC 30-18Khz ± 1.5 dB 30 IPS AES 30-22Khz ± 1.5 dB 15 IPS NAB 30-22Khz ± 1.5 dB 7.5 IPS NAB 35-18Khz ± 1.5 dB 3.75 IPS NAB 40-12Khz ± 1.5 dB | | | | | | | | | | | | | | | |
|--|--|---|---|---------|--------|------|------|---------|------|------|----------|------|------|----------|------|------|--|--|
| Tape Speeds: | 3.75, 7.5, 15, and 30 IPS | (Record-reproduce using AMPEX 456 tape) | | | | | | | | | | | | | | | | |
| Variable Speed Range: | 3.00 to 36.00 IPS in .01 IPS increments | Crosstalk Rejection: | 60 dB Minimum at 1Khz (stereo) | | | | | | | | | | | | | | | |
| Tape Tension: | 3.75 ounces, ± .5 ounces, at any tape speed from beginning to end of reel. (Measured between capstan and right-hand roller.) | Depth of Erasure: | 80 dB or better at 1Khz (Ref. 250nW/M) | | | | | | | | | | | | | | | |
| Start Time: (To .1% DIN Flutter using 10.5 inch reels) | .40 seconds at 3.75 IPS .50 seconds at 7.5 IPS .60 seconds at 15 IPS .85 seconds at 30 IPS | Harmonic Distortion: (THD at 250 nW/M, 1Khz fundamental) | Less than .5% at 30 IPS Less than 1% at 15 IPS Less than 1.5% at 7.5 IPS Less than 2% at 3.75 IPS | | | | | | | | | | | | | | | |
| Rewind Time: | 120 seconds for 2400 feet | (Distortion varies with bias setting and tape type) | | | | | | | | | | | | | | | | |
| Wow Flutter: (DIN 45507 Weighted) | Less than .025% at 30 IPS Less than .04% at 15 IPS Less than .06% at 7.5 IPS Less than .10% at 3.75 IPS | | | | | | | | | | | | | | | | | |
| Signal-To-Noise Ratio: (Ref. 510nW/M) (Unweighted, 30-18Khz) | <table border="1"> <thead> <tr> <th></th> <th>Full Track</th> <th>2-Track</th> </tr> </thead> <tbody> <tr> <td>30 IPS</td> <td>71dB</td> <td>68dB</td> </tr> <tr> <td>15 IPS</td> <td>68dB</td> <td>65dB</td> </tr> <tr> <td>7.5 IPS</td> <td>65dB</td> <td>62dB</td> </tr> <tr> <td>3.75 IPS</td> <td>63dB</td> <td>60dB</td> </tr> </tbody> </table> | | Full Track | 2-Track | 30 IPS | 71dB | 68dB | 15 IPS | 68dB | 65dB | 7.5 IPS | 65dB | 62dB | 3.75 IPS | 63dB | 60dB | | |
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Engineered for performance and maintenance-free operation, the LJ-10 is built to exacting specifications by L.J. Scully craftsmen. This model offers unique advantages that have previously been unavailable to the broadcast industry. These features include:

Front-accessible, solid state transport control/audio printed circuitry

- Closed loop drive offering substantially improved wow and flutter
- Linear actuated pressure rollers for a fast, smooth start
- Ability to gently handle 1 mil tape on 10" and 14" reels
- Built in foil sensing
- Solid state logic control circuitry
- Motion sensing for smooth control of fast and stop operations
- Fault detection for early signaling of a potential malfunction
- Front panel plug-in printed circuit construction for easy alignment and maintenance
- Automatic equalization change with capstan speed selection
- Cue mode for easy loading and service

Specifications

| | |
|---|--|
| Tape Speed: | 3¼ — 7½ ips (other speeds upon request) |
| Head Configuration: (¼ inch) | Monophonic — full or half track Stereophonic — two or quarter track |
| Reel Size: | Up to 14 inches |
| Rewind Time: | Approximately 160 seconds for 7200 ft. |
| Power Requirements: | 117 VAC, 50/60 Hz, 350 watts |
| Transport Controls: | Direction, play, fast, stop, cue, speed selection, power |
| Frequency Response: | ± 2 db 50 Hz to 7.5 KHz at 3¼ ips ± 2 db 50 Hz to 15 KHz at 7½ ips |
| Signal to Noise Ratio: 30 Hz to 18K Hz bandwidth, Refer- enced to 510 nW/M | Mono full track 68 db Mono half track 65 db Stereo two track 65 db Stereo ¼ track 62 db |
| Flutter and Wow: | 3¼ ips less than .12% RMS-NAB, .17 DIN 7½ ips less than .08% RMS-NAB, .12 DIN |
| Amplifier Distortion: | Less than .2% THD at operating level Maximum output before clipping + 24 dbm into 600 ohms |
| Line Output: | Balanced output 600 ohms |
| Remote Connections: | Direction, play, fast, stop, fault, ready and ground |
| Size: | 19" x 24½" x 9½" |
| Shipping Weight: | 100 lbs. |

