



Crown

SX 724 and SX722



Leadership

Advanced DESIGN

- New modular transport
- Magnetic braking (patented)
- True straight line threading
- Lifetime engraved panel
- Precision micro-gap heads
- All silicon solid state
- Complete editing accessibility

Functional FLEXIBILITY

- Push button electrical control
- Automatic stop tape sensor
- Four, microphone or line, inputs
- Two stereo headphone outputs
- Bias metering and adjustment
- 3rd head monitor with A-B switch
- Sound with Sound recording

Exacting PERFORMANCE

- Hysteresis synchronous drive motor
- Precision machined for low wow
- Preamp response is uniform $\pm 1\text{db}$ 10 to 100,000 Hz
- Preamp distortion under 0.2%
- Preamp noise below -115 dbm
- One year Warranty

PERFORMANCE

Speed	Response	S/N	F & W
7½ ips	$\pm 2\text{ db}$ 30 – 25,000 HZ	- 60db	0.09%
3¾ ips	$\pm 2\text{ db}$ 30 – 15,000 Hz	- 55db	0.18%

All CROWN recorders are professional quality equipment; therefore, this is the minimum long-term performance the user can expect on the SX724 when using Scotch 202 type tape.

*Every CROWN...
A Custom Product*

ACCESSORIES

D-40	60 watt stereo power amplifier
SLOT	Balanced 600 ohm output transformer
SMIT	50-250 ohm mic input transformer
HAP	Professional 10½" reel adapters
X	Carrying case



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GENERAL PERFORMANCE CHARACTERISTICS AND SPECIFICATIONS

TAPE SPEEDS:

Two equalized speeds, 7½ and 3¾. Front panel speed change. Other speeds available on request.

TIMING:

99.8% or 1.8 seconds in 15 minutes, this can be micro-adjusted to ± 0.05% short term.

WOW & FLUTTER:

7½ ips - 0.09% 3¾ ips - 0.18% These figures are the guaranteed maximum values for record and playback.

TRANSPORT:

Four electrical push-button controls (forward, rewind, stop, operate) control the tape motion. Reel-size switch provides proper tension for either 10½ in. NAB or 7½ in. EIA reels. Micro-switch tape sensor stops operation in case of tape breakage or end-of-tape. Positive, solenoid-operated capstan pinch-roller. Stop and Operate functions may be remote controlled (optional).

RECORD-PLAY:

SX724 specifications quoted on front page. SX722 two-track specifications are:

7½ ips ± 2 db 30 to 20,000 Hz 60db S/N

Using Scotch 202 type tape or equivalent

3¾ ips ± 2 db 30 to 10,000 Hz 55db S/N

These specifications represent minimum guaranteed performance. Included with each recorder is its own Record of Performance. Standard with NAB equalization, CCIR available.

SIGNAL-TO-NOISE RATIO:

Record and playback noise referenced to 400 cycles, 3% HD standard tape. Total harmonic distortion noise less than 1.5% for "O" record level @ 1KHz. Crosstalk rejection -55 db minimum.

STOP TIME:

One half inch at 3¾ ips. One inch at 7½ ips. Three seconds stop time from full rewind speed on 10½ inch reel. Patented CROWN brakes are non-mechanical, all electro-magnetic; thus never need adjusting.

WIND & REWIND:

1200 feet in 45 seconds. 2400 feet on 10½ inch reel in 58 seconds. The tape is not against heads during fast spooling.

HEAD ASSEMBLY:

Precision-built erase, record, and micro-gap playback heads are tripod mounted on a single rigid steel plate. Azimuth and tracking are independently adjustable, and are factory aligned and sealed.

CIRCUITRY:

Separate record and playback amplifiers provide complete isolation for monitoring while recording. All circuitry is on fiber-glass epoxy etched circuit boards with silicon transistors. Added feature is that all coupling capacitors are Mil. Spec. tantalum. Distortion through-out all audio circuits approaches the threshold of measurability.

INPUTS:

4 microphones or 4 lines (2-input mixer per channel). Microphone sensitivity is -66dbm (0.4MV) min. for "O" level. Line sensitivity is -25dbm (45MV) min. for "O" level. All input impedances are 100 K ohms or above.

OUTPUTS:

Two outputs per channel, one via pin jack and one via phone jack, are 600 ohm unbalanced with output up to 2.5 volts for "O" level. Maximum undistorted output is 14 volts. In addition, two outputs on the front panel accommodate two pairs of 600 ohm stereophones.

SPECIAL FEATURES:

Rugged transport has massive central casting which gives the rigidity to maintain perfect alignment between capstan and heads. Synchronous drive motor is coupled to 4 lb. balanced flywheel via flutter-filter belt drive. Capstan shaft is accurate to ± 12 millionths of an inch. Accessory AC outlet. Easily readable 5 inch professional VU meters with edge lighting. Bias frequency 100 Kc. Three-way record inter-lock.

MONITORING:

Each channel has front panel switch allowing monitoring from either: (A) SOURCE: Meter reads incoming signal to the record head. (B) TAPE: Meter reads the calibrated playback level, outputs are through output level controls.

POWER REQUIREMENTS:

140 watts, 117 volts AC, 60 cycles. 50 cps available.

SIZE:

15¾ in. high, 19 in. wide, 8 in. deep - less case. Dimensions with "X" case - 19½ in. high, 20¾ in. wide, 11 in. deep - including space for D-40 stereo amplifier.

WEIGHT:

Deck - 42 lbs, with "X" case 52 lbs, with "X" case and D-40 amplifier 60 lbs.



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MADE ONLY IN AMERICA

Skilled American craftsmen fabricate; assemble; and individually adjust each CROWN to provide you unequalled recording quality.

DEALER:



Crown

SX824 and SX822

Advanced DESIGN

- New modular transport
- Magnetic braking (patented)
- True straight-line threading
- Lifetime anodized panel
- Precision micro-gap heads
- All silicon solid state
- Complete editing accessibility

Functional FLEXIBILITY

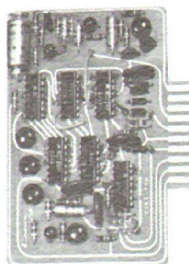
- Push-button electrical control
- Automatic stop tape sensor
- Four, microphone or line, inputs
- Two stereo headphone outputs
- Bias metering and adjustment
- 3rd head monitor with A-B switch
- Sound-with-Sound recording

Exacting PERFORMANCE

- Hysteresis synchronous drive motor
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- Preamp response is uniform $\pm 1\text{db}$ 10 to 100, 000 Hz
- Preamp distortion under 0.2%
- Preamp noise below -115 dbm
- One year Warranty



The new PRO with COMPUTER LOGIC CONTROL



- no broken tapes ever again!
- computer-smooth instant response
- effortless, worry free tape handling

Another FIRST from Crown Leadership!

ACCESSORIES

D-40	60 watt stereo power amplifier
TC	4-Digit, push-to-reset, counter
SMIT	50-250 ohm mic input transformer
HAP	Professional 10½" reel adapters
19C	Walnut enclosure with black trim
X	Portable Carrying-case

PERFORMANCE

Speed	Response	S/N	F & W
7½ ips	+2 db 20 – 25,000 Hz	-60 db	0.09%
3¼ ips	+2 db 20 – 15,000 Hz	-55db	0.18%

All CROWN recorders are professional quality equipment; therefore, this is the minimum long-term performance the user can expect on the SX824 when using Scotch 202 type tape.



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SX800

GENERAL PERFORMANCE CHARACTERISTICS AND SPECIFICATIONS

TAPE SPEEDS:

Two equalized speeds, 7-1/2 and 3-3/4. Front Panel speed change. Other speeds available.

TIMING:

99.8% or 1.8 seconds in 15 minutes, this can be micro-adjusted to $\pm 0.05\%$ short term.

WOW & FLUTTER:

7-1/2 ips - 0.09% 3-3/4 ips - 0.18% These figures are the guaranteed maximum values for record and playback.

TRANSPORT:

Four lighted push buttons (FORWARD, REWIND, STOP, and OPERATE) control and indicate operation. These functions may be remote controlled with RC-40. Reel-size switch provides proper tension for either 10-1/2 inch NAB or 7 inch EIA reels. Photocell automatic stop halts operation in case of tape breakage or end-of-tape. This can also be used to sense windows in the tape for special cueing functions.

RECORD-PLAY:

SX824 specifications quoted on front page. SX822 two-track specifications are:
7-1/2 ips +2 db 20 to 20,000 Hz 60 db S/N
3-3/4 ips +2 db 20 to 10,000 Hz 55 db S/N > Using Scotch 202 type tape or equivalent

These specifications represent minimum guaranteed performance. Included with each recorder is its own Record of Performance. Standard with NAB equalization.

SIGNAL-TO-NOISE RATIO:

Record and playback noise referenced to 400 cycles, 3% HD standard tape. Total harmonic distortion noise less than 1.0% for "O" record level @ 1KHz. Crosstalk rejection -55 db minimum.

STOP TIME:

One half inch at 3-3/4 ips. One inch at 7-1/2 ips. Three seconds stop time from full rewind speed on 10-1/2 inch reel. Patented CROWN brakes are non-mechanical, all electro-magnetic; thus never need adjusting.

WIND & REWIND:

1200 feet in 38 seconds. 2400 feet on 10-1/2 inch reel in 58 seconds. The tape is not against heads during fast spooling.

HEAD ASSEMBLY:

Precision-built erase, record, and micro-gap playback heads are tripod mounted on a single rigid steel plate. Azimuth and tracking are independently adjustable, and are factory aligned and sealed. Special 4-channel inline playback is optional at extra cost.

CIRCUITRY:

Separate record and playback amplifiers provide complete isolation for monitoring while recording. All circuitry is on fiber-glass epoxy etched circuit boards with silicon transistors. Added feature is that all coupling capacitors are Mil. Spec. tantalum. Distortion through-out all audio circuits approaches the threshold of measureability.

INPUTS:

4 microphones or 4 lines (2-input mixer per channel). Microphone sensitivity is -66dbm (0.4 MV) min. for "0" level. Line sensitivity is -25dbm (45MV) min. for "0" level. All input impedances are 100 K ohms or above.

OUTPUTS:

Two outputs per channel, one via pin jack and one via phone jack, are 600 ohm unbalanced with output up to 2.5 volts for "0" level. Maximum undistorted output is 14 volts. In addition, two outputs on the front panel accommodate two pairs of stereophones.

SPECIAL FEATURES:

Rugged transport has massive central casting which gives the rigidity to maintain perfect alignment between capstan and heads. Synchronous drive motor is coupled to 4 lb. balanced flywheel via flutter-filter belt drive. Capstan shaft is accurate to ± 12 millionths of an inch. Accessory AC outlet. Easily readable 5-inch professional VU meters with edge lighting. Bias frequency 100 Kc. Three-way record inter-lock.

MONITORING:

Each channel has front panel switch allowing monitoring from either: (A) SOURCE: Meter reads incoming signal to the record head. (B) TAPE: Meter reads the calibrated playback level, outputs are through output level controls.

POWER REQUIREMENTS:

140 watts, 117 volts AC, 60 cycles. 50 cps available.

SIZE:

15-3/4" high, 19" wide, 8" deep - less enclosure. Dimensions with "19C" enclosure 22- in. high, 21-1/2" wide, 10-1/2" deep - includes space for D-40 amplifier and TC counter.

WEIGHT:

Deck - 48 lbs, with "19C" enclosure 64 lbs, with "19C" enclosure and D-40 amplifier 72 lbs.



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