

Norelco®

PORTABLE PROFESSIONAL 16 mm SOUND-FILM PROJECTOR — EL 5100

The NORELCO Portable Professional 16 mm Sound-Film Projector, type EL5100 has special application where the quality of the sound and picture, and the reliability of the projector are of prime importance. This modern compact projector is simple to operate and easy to maintain.

Although the NORELCO EL5100 is portable, its high quality makes it a suitable projector for permanent installations, such as in screening rooms.

The portable professional projector is a sturdy, well built machine, precision engineered for long life and superior reliability. The use of large feed, holdback, and intermittent sprockets, always engaging at least five perforations, enables this projector to reduce print wear and show damaged prints that cannot be run on other projectors. The use of large diameter sprockets reduces the wear on a 16 mm print, adding to the life of the print.

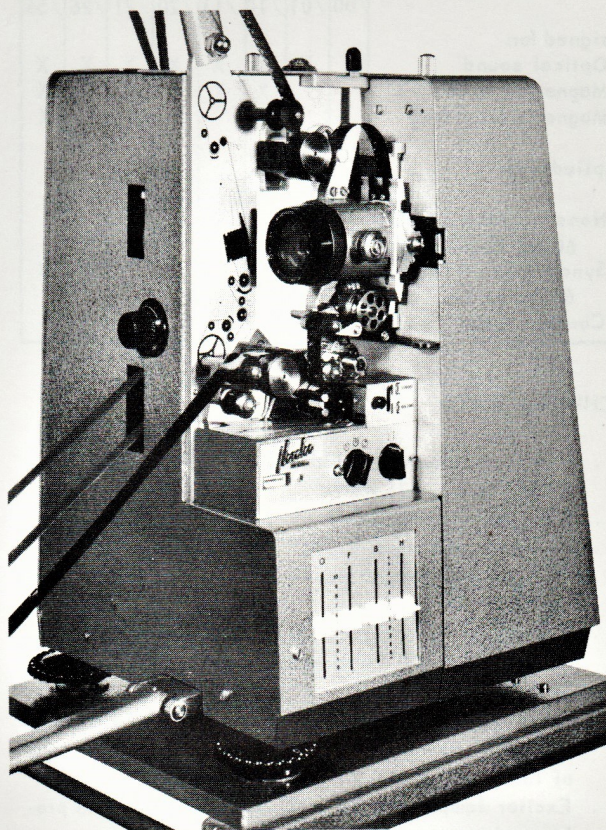
The left-hand operation of this projector has decided advantages particularly in regard to print protection and sound reproduction. The undercut rollers, runner plate, pressure plate and sound drum precludes scratching either the sound track or the picture area, regardless of the emulsion position.

The sound optics and magnetic heads are all positioned toward the operating side and are easily accessible for cleaning and service adjustments when required.

The excellent screen brightness is due, in part, to the use of a new 150 W, 12 V mirror-condenser lamp with high luminous flux (450 lumens). Where more screen brightness is required or a larger picture is desired, this projector is available equipped with the MARC 300 light source.

The NORELCO Portable Professional 16 mm Sound-Film Projector is simple to operate. All controls are conveniently arranged. A forward/reverse switch is provided for repeating a scene. A three-position switch allows the projectionist to select "optical sound/magnetic sound or magnetic recording". The magnetic recording position has a safety inter-lock. A built-in modulation meter is provided on models designed for magnetic recording.

One lever opens the film path, the film is kept taut while threading, and correct sized loops are formed automatically when the film path is closed.



It is easy to adjust the projector to any line voltage. There is a switch and meter for matching the voltage of the projection lamp to normal line voltage.

The plug-in, solid state preamplifiers feature an optimum frequency response curve. The sound head has low flutter and wow because of the rotary sound drum and pressure roller; the same construction is used in this projector as in the Norelco 35 mm and 70/35 mm professional projectors. There are versatile sliding potentiometers for microphone volume, film sound volume, bass, and treble control.

The rugged steel loudspeaker case consists of two detachable halves each containing wide-range, high-fidelity loudspeakers on large acoustically lined baffles.

The Projector is available in three basic types with or without combination carrying case/projector stand.

AVAILABLE MODELS*								
PROJECTOR EL5100								
	/00	/01	/10	/11	/20	/21	/26	/56
Designed for:								
Optical sound	X	X	X	X	X	X	X	X
Magnetic sound			X	X	X	X		X
Magnetic recording					X	X		X
Supplied with:								
Nonsynchronous motor 60 Hz 18 or 24 fps	X	X	X	X	X	X		
Synchronous motor 60 Hz 24 fps							X	X
Carrying Case		X		X		X		

TECHNICAL DATA

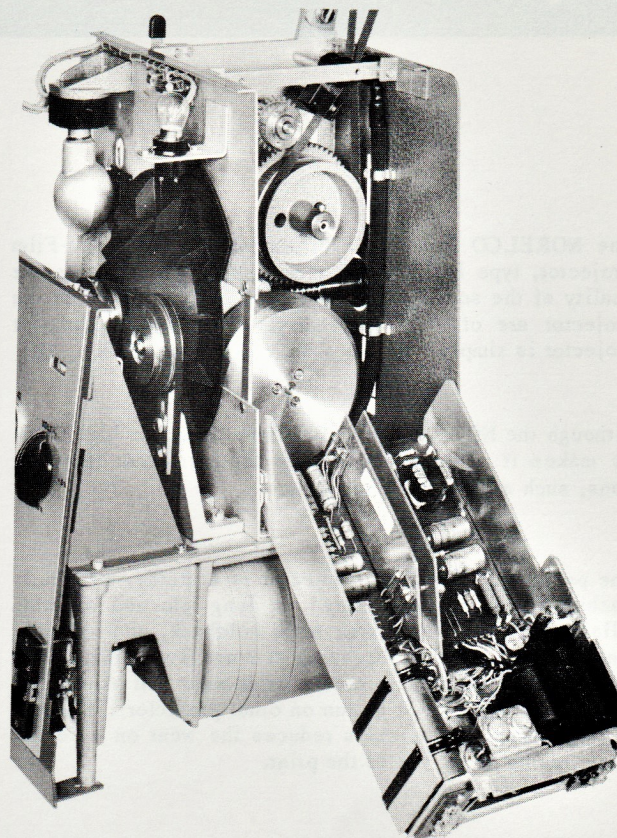
- Power requirement: 100-110-125-200-220-250 V ± 10%, 60 Hz, 375 Watts
- Film capacity: 4,000 ft
- Projector aperture: 0.378" by 0.283"
- Vertical and lateral movement of picture: less than 0.2%
- Projection lamp, type 13119 C, (mirror-condenser lamp): 150 W, 12 V with prefocused base
- Shutter efficiency: 72%
- Light output with shutter running and f/1.3 lens: incandescent lamp 450 lumens/MARC 300 in excess of 1600 lumens
- Exciter lamp: type 7210 C; 6 V, 1 Amp with prefocused base
- Solar cell: type CI 420 98
- Wow and flutter: max. 0.2%

Built-in Output Amplifier

- Power: 20 W
- Output voltage: 100 V
- Load impedance: 500 ohms
- Hum and noise:
 - Optical sound: better than -60 dB
 - Magnetic sound: better than -45 dB
- Distortion at 1,000 Hz: less than 1%
- Exciter-lamp supply: 6VDC - 1 Amp
- Frequency response: Flat from 40 to 7,000 Hz

Tone Control

- Treble control range: -7.5 to + 14 db at 10,000 Hz
- Bass control range: -7.5 to + 14 db at 40 Hz
- Microphone sensitivity (20 W output): 0.6 mV



DRIVE MECHANISM WITH POWER AMPLIFIER

Line Amplifier EL5490/00

- Output 8 dbm
- Output impedance 600 ohms

Loudspeaker Case EL5005/16

- 10 W loudspeakers: type EL7022/00 dia. 8-1/2"

Projector, in case:

- Dimensions: 22-1/2" by 16" by 14"
- Weight: 68 lbs.

Loudspeaker case:

- Dimensions: 30" by 17" by 8-1/4"
- Weight: 40 lbs.

Projector supplied with 33 ft. of power supply cable CI 615 52, set spare lamps, fuses, and spare parts.

Loudspeaker supplied with 16-1/2 ft. of E3 156 00 cable to connecting the loudspeakers and 66 ft. of E3 155 99 cable to connect the loudspeakers to the amplifier.

Lenses

The 16 mm lenses are available in 1, 1-2/5, 2, 2-3/5, 3, 3-3/5 and 4 inch sizes.

North American Philips Company, Inc. reserves the right to make changes in design, construction and specifications, details of which do not appear in this catalog issue. Supplemental data is available on changes which may have been necessary due to operational or design modifications and improvements.

Norelco®

**MOTION PICTURE
EQUIPMENT**

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BR-500/8-68