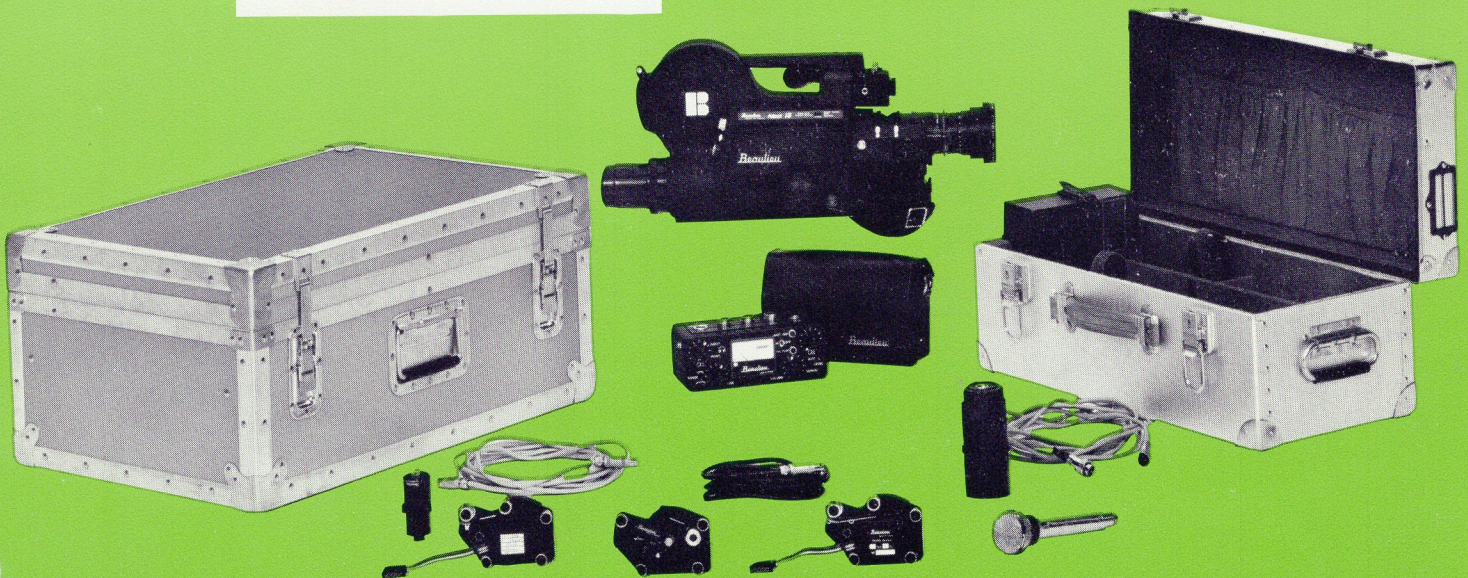
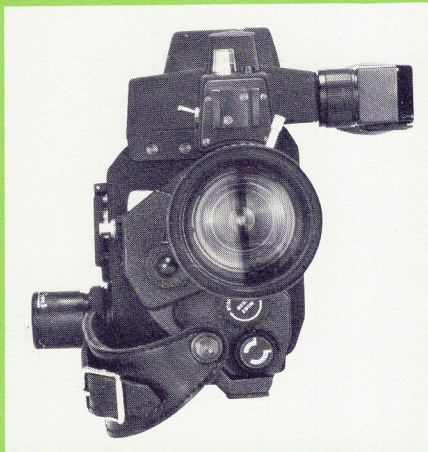
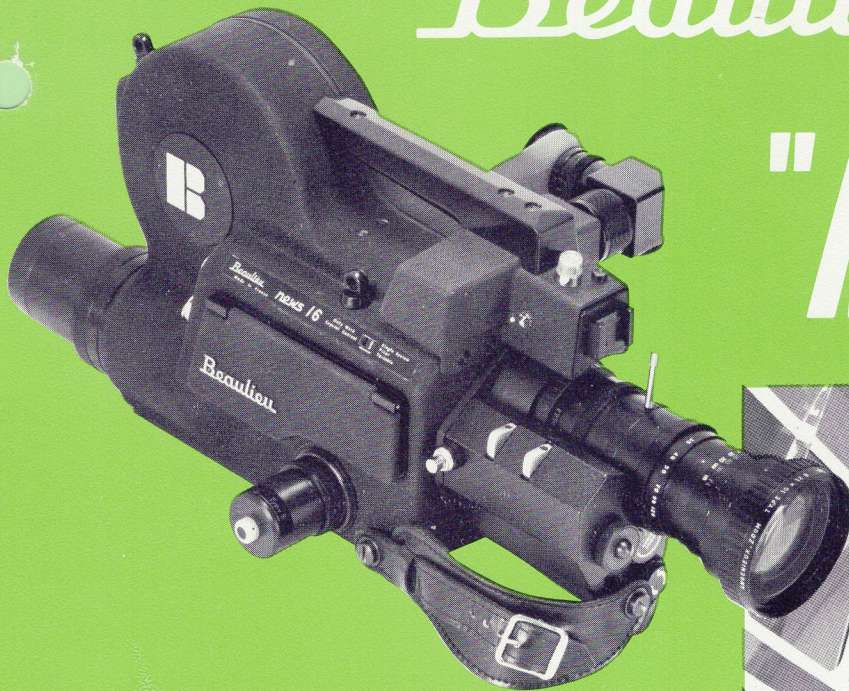


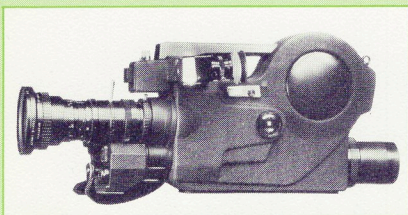
Beaulieu's

"NEWS 16"



CINEMA  *Beaulieu*
A DIVISION OF HERVIC CORPORATION

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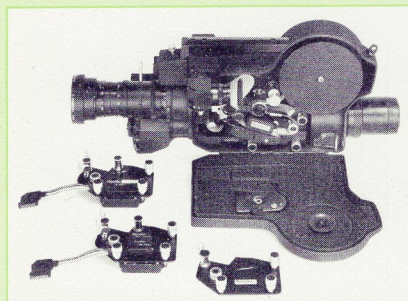


The Beaulieu "News 16" Single/Double System 16mm sound camera represents an innovation in the Beaulieu line of motion picture cameras — a new professional 16mm camera system which fits the exacting filming requirements of the documentary filmmaker and television newsfilm cameraman.

The lightweight "News 16" has a weight distribution which allows the camera to balance comfortably on the cameraman's shoulder without the requirement of a shoulder brace. In addition, the unique modular construction of the "News 16" provides for instant changing of key camera parts (without the requirement of tools) such as power supplies, motors, lenses and internal sound modules.

The compact design of the camera enables one-hand operation. Most of the "News 16" controls are right-hand operated, thus leaving the left hand free to follow focus while power zooming, or to serve as protection in difficult filming situations.

The Beaulieu "News 16" camera features built-in power zoom (3-25 seconds) and fully automatic exposure system (both with manual override); interchangeable variable speed motor (12-40 f.p.s.); a mirrored shutter which always stops in the viewing position; lens interchangeability (C-mount); and a thru-the-lens viewfinder which rotates 180° for front, rear and top viewing (with 22x magnification, etched TV frame, and choice of left or right eye viewfinders). Six different and interchangeable synchronous sound options are also available with the "News 16": single system (magnetic) module . . . to be used with the lightweight Beaulieu amplifier; a 24 or 25 f.p.s. crystal-sync module; and three different synchro-pilot generator modules (50 Hz, 60 Hz, and 100 Hz).



"NEWS 16" CAMERA TECHNICAL SPECIFICATIONS

- **Format:** 16 mm
 - **Film:** 100' or 200' daylight load spools ("B" wind).
 - **Sound synchronization:**
 - Single system: 1 module
 - Pilotone: 3 modules available (60, 50 or 100 Hz.
 - Crystal control: 2 modules available (24 or 25 f.p.s.).
- A "silent module" comes as standard equipment with the camera.

- **Dimensions:**
 - Overall height: 8½"
 - Overall width: 10"
 - Overall length (1): 20¾"
- **Weight** 16 lbs approximately (with Angenieux 12-120mm Zoom lens and crystal-control module attached).

TECHNICAL DATA:

- Lens:**
 - "C" Mount Lens Interchangeability.
 - Choice of two lenses — an Angenieux 9.5-57mm or an Angenieux 12-120mm — with the basic unit.
- **Diaphragm:**
 - Fully automatic settings provided by a servo-motor (REGLOMATIC - Beaulieu patent).
 - Correct exposure check (by means of the meter needle in the viewfinder).
 - This automatic device can be disengaged.
- **Zooming:**
 - Electric Power Zoom
 - Variable zoom range from 3 to 25 sec. (using an Angenieux 12-120mm zoom lens).
 - Instant start/stop.
- Pre-focus Control Button:**
 - Fingertip pressure on the pre-focus control rapidly zooms the lens to its maximum telephoto position and—at the same time—opens the diaphragm to its maximum aperture. The camera operator is instantly provided with the shallowest possible depth of field required for critical focusing.
- Viewfinder:**
 - Reflex.
 - Optical construction (14 elements and 4 prisms).
 - 22x magnification.
 - "Divided grain" focusing screen.
 - TV frame etched onto focusing screen.
- Eyepiece:**
 - Rotates 180° for viewing from above and rear.
 - Eyesight correction: ± 5 Diopters.
 - 2 rubber eyecups.
 - A left eye viewfinder is also available.
- Shutter:**
 - Guillotine type.
 - Always stops in viewing position.
 - Frame exposure time at 25 f.p.s.: 1/60 sec.

- Speeds:**
 - Fixed by means of an electronic governor.
 - Tachometer provides speed check.
 - 2 position speed-range switch.
 - A 24 or 25 f.p.s. position (maximum speed steadiness).
 - A 12-40 f.p.s. position (for variable speed).

- Exposure meter:**
 - Cds Photo Cell.
 - ASA sensitivity setting: 12 — 400.
 - Setting correction: ± 1 f/stop.

- Camera loading:**
 - Co-axially mounted reels.
 - Self-threading.
 - Built-in film trimmer.

- Film transport:**
 - Electrical. Motor is interchangeable.

- Film guide:**
 - Made of chromium-plated brass.
 - Stainless steel removable pressure plate.
 - "Sapphire" corundum edge guides.

- Footage counter:**
 - Graduated both in feet (200 ft) and in meters (60m), and indicates amount of footage still available.
 - A signal light glows inside the viewfinder when there is only 15 feet of film left (of a 200' load), and automatically resets when loading the camera.

- Release:**
 - Self-locking button switch.
 - Camera always stops with the shutter in closed position.
 - A film running indication is provided by an orange light on top of the camera. It goes off when the end of film signal light comes on. It can be switched off for candid filming.

ELECTRICAL DATA:

- Power Supply:**
 - Screw-in NiCad interchangeable battery-pack (9.6 volts, 1.2 Amp/hr). High speed recharge (in 40 minutes).
 - Or external 7 Amp/h. battery-pack.

3-Position Power Supply Trigger:

- Normal filming position.
- Off and safety catch.
- Continuous filming (mainly for remote control).

Motor:

- Interchangeable.
- A knurled knob at the extremity of the motor shaft allows manual drive for maintenance.

Regulation:

- Feedback electronic governor.

BEAULIEU AMPLIFIER TECHNICAL SPECIFICATIONS

Inputs:

- 2 mikes ($Z \leq 5 \text{ K}\Omega$)
- 1 line
 - $Z = 100 \text{ K}\Omega$
 - $Z = 500 \text{ K}\Omega$ (depending on the wiring in the line cord plug).
- Inputs are mixable.
- Sensitivities:
 - Mikes $\geq 0.2 \text{ mV}$
 - Line $\geq 100 \text{ mV}$
 - $\geq 1 \text{ V}$ (depending on the wiring in the line cord plug).

Outputs:

- 1 output for recording (to be connected to camera) $Z < 500 \Omega$
- 1 output for headphone $Z < 500 \Omega$ (switchable "monitoring/direct" listening-in). (an earphone can be plugged in parallel onto the camera jack-socket).

Power supply:

- 13.5V DC (9 penlite batteries, 1.5V each).
- Consumption: 30 mA.

Switching-on:

- By both OFF/ON switch and plugging in the camera-amplifier cord.

Dimensions (with case):

- Height: 5-7/8" approx.
- Width: 3-3/4" approx.
- Length: 7-1/2" approx.
- Weight: 2.8 Lbs approx. (without batteries).

Sound track:

- Two positions (slide-switch selection):
 - Wide band position: 40 — 14,000 Hz (3 dB).
 - Narrow band position: 165 — 3,000 Hz (3 dB)

Distortion:

- $\geq 0.78\%$ at 100 Hz
- $\geq 0.75\%$ at 1,000 Hz +6 dB level with respect to V.U. zero level
- $\geq 0.72\%$ at 10,000 Hz

- "Non attenuated" noise/sound ratio:**
 - $\geq 54 \text{ dB}$ ("non-shorted" inputs).

V.U. zero level:

- 12 dB with respect to tape saturation.

Modulation:

- Automatic / manual Control (slide switch selector).

Wow and flutter:


- Less than 0.3% "attenuated peak".

Correction:

- C.C.I.R. mode.

Bias:

- HF signal. 60,000 Hz $\pm 3\%$.
- Distortion $\geq 2\%$.

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