

professional 16mm motion picture camera

**FOR ALL KINDS
OF FILMING...**

**tv news
industrial
documentary
medical
educational
entertainment
engineering
statistical
travel
special effects
animation
shorts
stop motion**

**... TO FIT EVEN THE
SMALLEST BUDGET**



doiflex 16

***doiflex* 16**

Rugged, Reliable, Compact, Lightweight and Portable, it is the first low-priced professional 16mm motion picture camera which incorporates features found previously only in the most expensive cameras. The culmination of years of research and exhaustive field testing, the Doiflex 16 combines American know-how with Japanese economy into an extremely versatile, precision built, quality camera which will perform to perfection for all the exacting requirements that are demanded by film producers, television newsreel cameramen, government, armed forces, education, medical, research, industrial and discriminating amateur users.

***Compare these
features with any
other low
priced camera:***

THE THRU-THE-LENS FULL MIRROR REFLEX VIEWING SYSTEM.

You see the exact image that the film will record. No need to worry about parallel adjustments, or to measure distances, since focusing and framing are visual. The highest quality rare earth optical glass elements and distortion free reflex mirrors are used to insure maximum image brilliance while shooting. The rubber viewer eye cup rotates to accommodate either left or right eye, while the viewing system is adjustable for all individual eye preferences, and is calibrated for instant resetting. A manually operated built-in viewer light trap eliminates the danger of light reaching the film when the eye is removed. A television cut off frame line is permanently etched in the viewing system.

THE FILM MOVEMENT —

a precision pull-down claw mechanism synchronized with a positive registration pin obtains the steadiest picture possible. A special film gate with two spring mounted pressure plates prevents scratching and accomplishes uniform sharpness. The simple gear train and shafts are completely supported by ball bearings, reducing oilings and assuring extra long trouble-free operation. The positive closing disc shutter eliminates the need for an auxiliary shutter in front of the lens during single frame operation. A patented triangular cam system operates the shutter and the specially balanced reciprocating reflex mirror.

THE LENS TURRET —

will accept three standard size "C" mount lenses simultaneously, including the latest type zoom lenses. Cast grips between each lens socket permits rotating the turret without danger of altering the lens settings. A positive stop positions each lens in perfect alignment for immediate shooting. Three turret caps, one of which serves as a turret lock when zoom lens is used, are supplied as standard equipment.

THE CAMERA BODY —

Constructed of precision cast aluminum for light weight and durability, its door is easily removed by one central lock operating three plunger-type levers on the inside. The built-in tachometer registers speeds from 1 to 48 frames per second, and the adjustable footage counter is instantly visible from the shooting position. A finger tip operated on-off switch on the door locks for continuous filming, until the quick release lever is pressed. The manual shutter inching knob is used in threading film, and is notched for immediate resetting to reflex viewing position. Motors are speedily interchanged through the use of one hand operated tension lever. A built-in cannon connector power supply receptacle avoids the danger of accidental disconnection while filming.

THE ELECTRICAL SYSTEM —

Full electrical operation permits continuous shooting for entire length of film load. Variable speed motor has fingertip controlled rheostat with numbers marked for presetting, and draws only 8 volts D.C. from a portable battery or a 115 volts A.C. step down transformer. Stop motion motor operates directly from 115 volts A.C. current.

THE CAMERA ACCESSORIES —

A full range of accessories are available to meet practically every requirement of all users. See partial description on following pages.

REFLEX VIEWER REVOLVING EYE CUP

FILM SPOOL TENSION KNOB

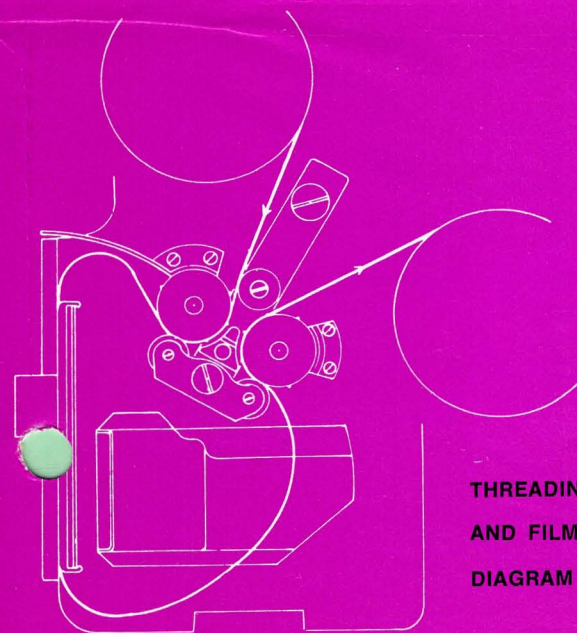
MATTE BOX ROD MOUNT

ADJUSTABLE FOOTAGE COUNTER

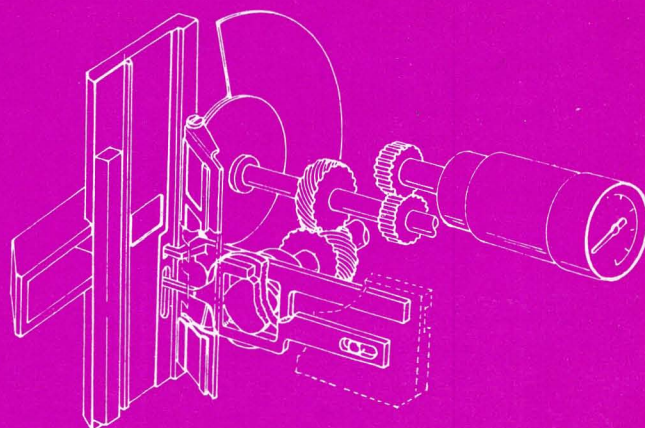
MANUAL SHUTTER INCHING KNOB

BUILT IN TACHOMETER

INTERCHANGEABLE MOTOR MOUNT



THREADING
AND FILM PATH
DIAGRAM



DETAIL OF REGISTRATION PIN AND PULL-
DOWN CLAW MOVEMENT

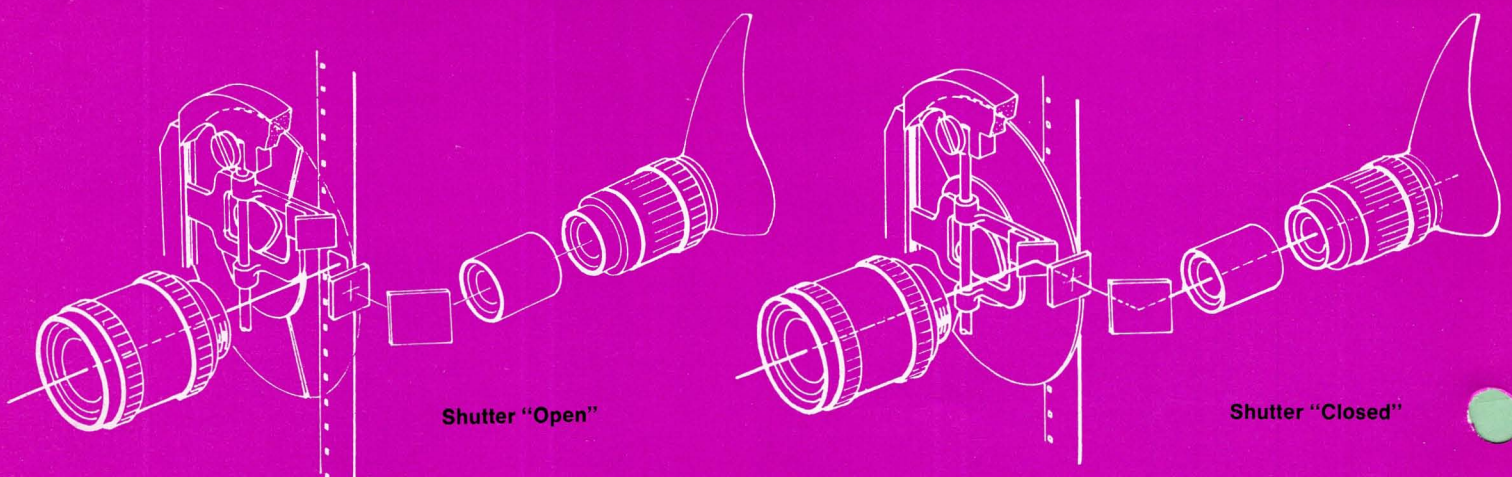
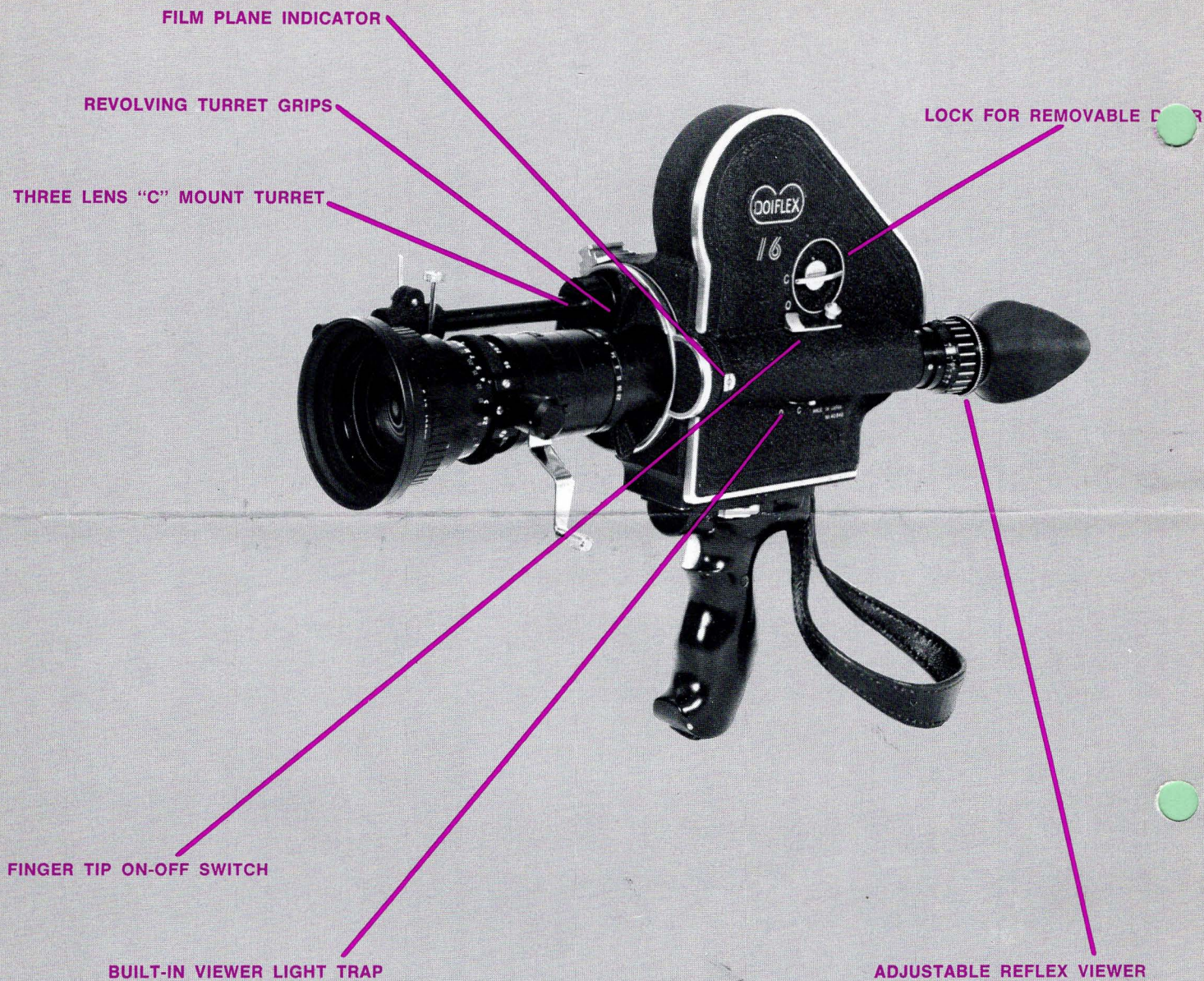


DIAGRAM OF REVOLVING DISC SHUTTER AND REFLEX VIEWING SYSTEM

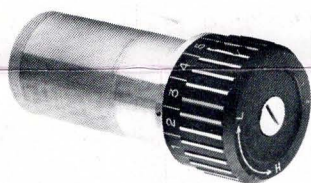
doiflex 16

accessories

VARIABLE SPEED MOTOR

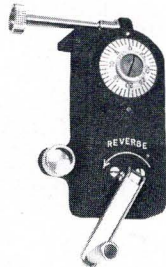
The most versatile of DOIFLEX 16 motors, it permits filming an extensive range of tachometer-registered speeds. For regular use, or slow motion or speeded-up effects. Finger-tip operated rheostat is calibrated for accurate pre-setting.

Synchronous and governor controlled constant speed motors will be available soon.



REWIND DEVICE

A manually operated reverse crank used for making double exposures and other special effects. Includes frame counter for accurate measurements.



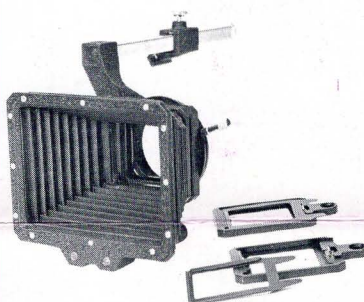
PORTABLE BATTERY

Supplies 8 volts D.C. current to power the variable speed camera motor. Fully portable, it comes complete with a built-in 115 volt A.C. current trickle charger and accepts both cannon and double round-prong cable connectors. Heavy duty leather case and shoulder strap are included.



SUNSHADE MATTE BOX

A fully adjustable combination sunshade and filter holder. Matte box supporting rod mounts easily on its shoe on the camera body. The water-repelling leather bellows expands to 4½ inches and can be readily adjusted by operating a knurled knob at either end. Two removable filter holders accepting 2" square glass or gelatin filters fit securely in channeled slots. A rotating, round filter holder accommodates a pola-screen filter.



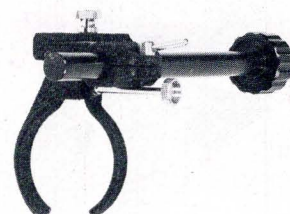
PISTOL GRIP

Custom contoured to the comfortable fit of the hand, it balances the camera for easy hand-held shooting. An electrically operated trigger switch built into the grip permits complete mobility for all-purpose filming.



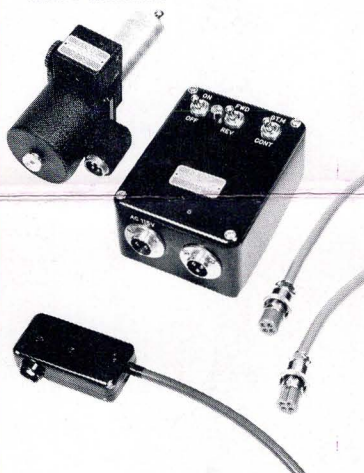
ZOOM LENS SUPPORT BRACKET

For latest model zoom and telephoto lenses, it mounts into an unused turret socket, and assures lens rigidity while eliminating the danger of lens mount damage, and the need for bulky lens cradles.



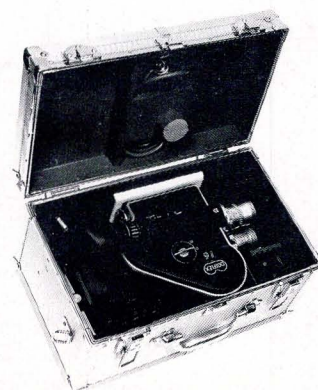
STOP MOTION MOTOR

Fully automatic operation from a 115 volt A.C. power source, the motor is ideal for animation use, and can readily be hooked up to a timer for perfect time-lapse photography. Does not require an auxiliary shutter in front of lens. Will operate forward or reverse, and single frame or continuous. 3 digit frame counter, pilot light, and remote control micro switch with all cannon connector cables included.



CAMERA CARRYING CASE

Custom fitted, heavy duty, it accepts and offers complete protection to the camera with lenses and motor mounted, matte box, and room for accessories and rolls of film. Hammered aluminum construction with red lined interior. Comes with key operated lock and balanced carrying handle.



400 FOOT MAGAZINE

Available shortly, it will permit eleven minutes of continuous filming at 24 fps. All DOIFLEX 16 cameras can be adapted to accept these useful magazines.

additional accessories

Kino-cosmicar

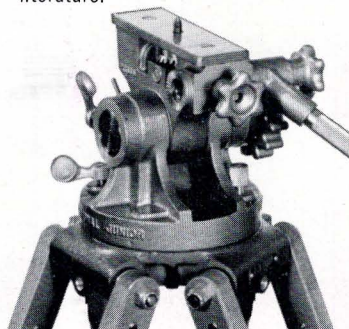
LENSES

Ideally suited for the DOIFLEX 16, these "C" mount lenses rank among the world's finest, being assembled from rare earth optical elements and constructed with infinite precision, yet priced to meet the most modest budgets. Sizes range from 12.5mm F.1.4 to 50mm F.1.9. All lenses are in black anodized aluminum mounts, have click stops to F.22, and focusing mounts calibrated in feet and meters.



PRO JR. TRIPODS

Famed for their ruggedness and reliability, the Pro Jr. line of tripods and accessories includes friction, fluid, gear or spring heads, regular and baby grooved legs, triangles, dollies, hi hats, etc. Request separate literature.



ANGENIEUX ZOOM LENSES

World renowned for sharpness and true color rendition, Angenieux zoom lenses are available in 17-68mm, 9.5-95mm, 12-120mm and 24-240mm ranges. Manual operation by either a geared crank or quick-effect lever, or by remote control electrical motor drive.



OTHER ACCESSORIES

Sam-cine body brace — for "tripod-like" stability with hand-held mobility.

Sound barney — deadens all camera sound for inconspicuous filming and use with sound recorder.

Pro Jr. Sta-sets — rubber tripod tips to prevent slippage on smooth floor surfaces.

doiflex 16 specifications

FILM MOVEMENT SYSTEM:

Intermittent pull-down claw movement, with precision registration pin.

SHUTTER:

150° fixed opening focal plane. 1/57th second exposure at 24 fps.

FILM APERTURE:

0.294 x 0.410 inches.

PRESSURE PLATE ASSEMBLY:

Double gate-channelled and spring mounted-hinged for easy cleaning.

FILM CAPACITY:

16mm 50' or 100' spools, daylight loading. Accepts B wind single or double perforation black & white or color 16mm film, with or without magnetic sound striping.

VIEWING SYSTEM:

Positive closing disc shutter with reciprocating balanced reflex mirror. Television cut-off etched in viewer system. Built-in light trap, rotating eye piece. Viewer image is magnified 10x.

LENS MOUNT:

Three lens rotating turret with positive seating. Accepts standard "C" mount lenses and zoom lenses. Adaptors available for Arriflex and Mitchell lenses. Turret turning studs between lens mounts. Turret lock for using zoom or long tele-lenses.

TRIPOD MOUNTING:

Base tapped to accept 1/4-20 or 3/8-16 tripod tie down screws.

POWER REQUIREMENTS:

Variable speed motor: 8 volts D.C.
Stop motion motor: 115 volts A.C.

CAMERA DIMENSIONS: (body only)

Height: 7 7/8 inches
Length: 8 1/4 inches
Width: 4 3/4 inches

CAMERA WEIGHT: (body only)

7 pounds

CONSTRUCTION AND FINISH:

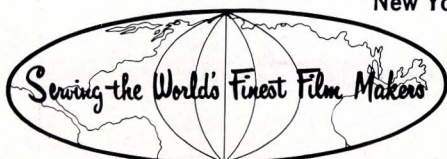
Die cast aluminum with polished fittings. Black wrinkle exterior.

doiflex 16 is distributed
exclusively

in North and
South America by:

F&B/CECO INC.

New York, N.Y.



Authorized Dealer