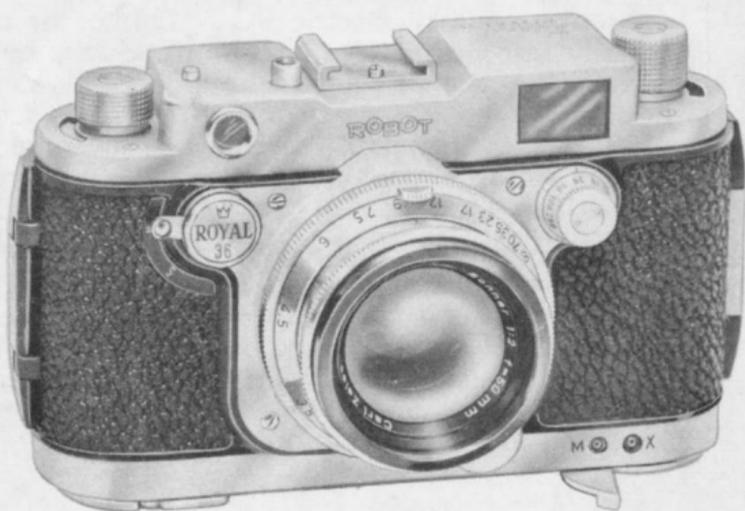


AUTOMATION IN PHOTOGRAPHY

THE RECORDING CAMERA

FOR RESEARCH

AND CONTROL



THE MOTORIZED

ROBOT

WINDS ITSELF AUTOMATICALLY

Chemical, physical, biological, medical, technical, and industrial processes, which are often unperceptible to the human eye, are today photographically recorded by **ROBOT's** exclusive Kinographic System. The results of this unique method of photographic automation permits the study and evaluation of the recorded image in greatest detail. Only the **ROBOT's** fully automatic operation offers you such immediate and faultless records, of everything that is visually recognizable, by genuine sharp reproduction - in black and white or color.

Complete Automation means: Self-operating film transport, shutter mechanism and frame counter **WITHOUT** winding

for:

1) **SINGLE SHOTS** - by simply pressing the release button every time,

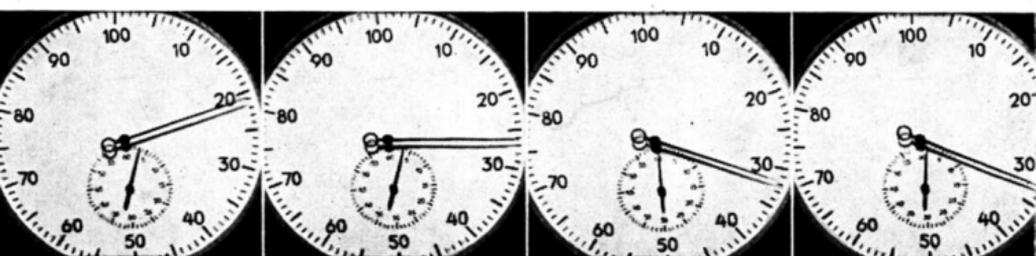
or:

2) **KINOGRAPHY**, i.e. **RAPID SEQUENCE SHOOTING** of a series of pictures, at a speed of 5 to 6 frames per second, by simply keeping the release button depressed.

The robust, built-in spring motor of the **ROBOT** offers you automatic advance of 18 to 20 24x36 mm frames or 24 x 24 mm frames or 18 x 24 mm frames. The available **BOOSTER** spring motor offers automatic transport of the complete 5 1/2 ft. standard film length (36 pictures 24x36 mm, or 55 24x24 mm pictures or 72 18x24 mm pictures).

A supplementary electric **BOOSTER** motor automatically transports the entire film capacity available, when the **ROBOT's** interchangeable 30 ft. camera back (260 24x36 frames or 400 24x24 mm frames or 520 18x24 mm frames) or the 200 ft. camera back (1600 24x36 mm frames or 2400 24x24 mm frames or 3200 18x24 mm frames) are used.

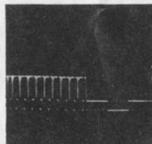
The fully automatic **ROBOT** offers you normal or remote release, manually or by electro-contact, at preselected intervals using mechanical or electronic timers (1/2 second up to 24 hours). The built-in rapid sequence mechanism permits uninterrupted sequences at a speed of 6 exposures per second, merely by keeping the release button depressed.



ROBOT • THE "UNIVERSAL SPECIALIST"



Eye



Oscillogram



Recording of Bomb strikes



Traffic Control



Identity photos



Theodolite



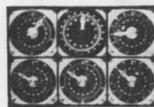
Instruments



Target Registration



Burglar trap



Numerator, Switchboard



Surgical Operation



Sewer Photography

Telephone Counter



Radar



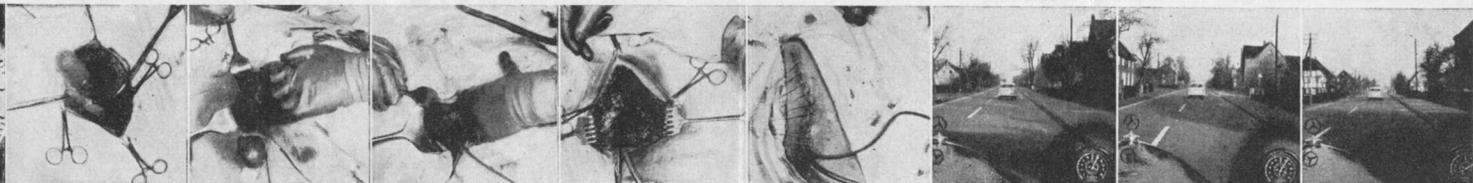
Aerial View

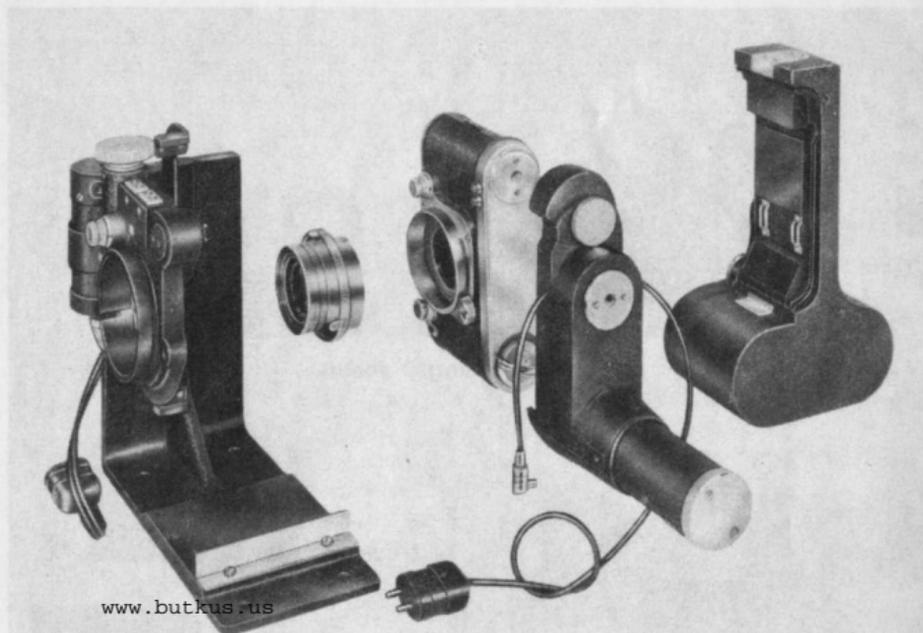


Photomicrography



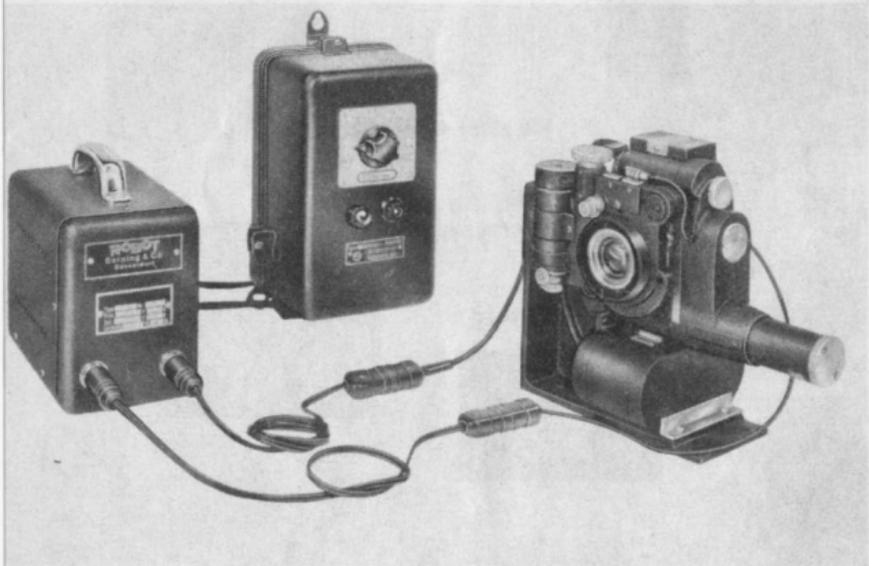
Ultrasonic





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Parts of automatic-electric **ROBOT** recording unit consisting of interchangeable 30 ft. back, electric booster motor, **ROBOT** Recorder, lens, **ROBOT**-KULL universal mounting support with electromagnetic remote release, angle bracket.



Complete automatic-electric **ROBOT** recording unit with combined transformer-rectifier and electronic timer.



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The fully automatic **ROBOT** 35mm camera is not only master of all problems in scientific and industrial photography, but is also the ideal camera for personal use. The **ROBOT** provides supreme versatility for the handling of every conceivable picture-taking situation. This compact 35mm camera with its exclusive automation system for single shots or rapid sequences, is THE only camera that offers complete control of action photography.

With the **ROBOT**'s ability to shoot at a rate of 6 frames per second, nothing is left to chance. A characteristic gesture, the highlight of any action, the exciting climax in a sporting event - all this is within your scope.

ROBOT-Kinography is the conquest of the 4th dimension
TIME: you cannot miss!



For further information write for free illustrated booklet:
"The recording camera for research and control."

ROBOT·BERNING & CO·DÜSSELDORF

U.S. AGENTS:

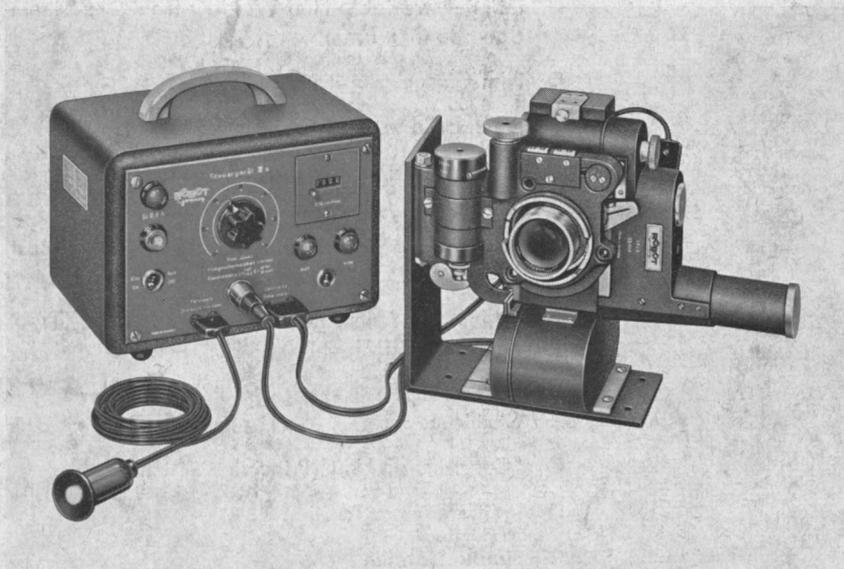
KARL HEITZ INC.

480 LEXINGTON AVENUE · NEW YORK 17, N.Y.

ROBOT

Recording-Unit-F

with Motion Film Run



ROBOT records rationally

ROBOT records rationally

ROBOT - Recording-Unit-F

- Electromagnetic Release by Hand Key Button
- Shortest Starting Time for constant Film Run
- Two Film Speed Ranges
- Infinitely variable Film Speed
- Time Record Figure on the Film
- Pilot Lamps for Time Record
- Electric Control of Time Record by Synchronous Motor
- Infinitely variable Film Window from 24 x 24 mm down to 24 x 1 mm
- Film Capacity up to 30 ft
- Electric Counter of Film Stock
- Locking Contact for automatic Disconnection at Film Ending
- Power Supply for 220 volts A. C. (on request 110 volts A. C.)
- Utilization of all Lenses suitable for **ROBOT-ROYAL** and **-RECORDER**
- Suited for **ROBOT**-Photographic-Tubes for Oscilloscopes
- "Construction Unit" Principle
- Indifference to Position
- Simple Handling

ROBOT - Recording-Unit-F

with Motion Film Run

Technique - Science - ROBOT

For years past, Technique and Science have made use of the versatility of **ROBOT** equipment for Surveying and Research Work, to record as a document any scientific data and interesting motion. Such film strip allows detailed and exact analysis and compilation of any scientific and industrial data. The individual evaluation of such registered measurements, especially in connection with oscilloscopes, is of great importance.

However, the rapid progress of Science and Industry call forth new problems which are exacting to the photographic registration system:

- more versatility in the employment
- high-speed picture sequence
- more clearness in keeping the finest motion in registering high-speed impulses or waveforms

To cope with the particular demands in this field, the well-known **ROBOT**-Recording-System was extended by the newly constructed **ROBOT**-Recording-Unit-F for continuous motion pictures.

This recording unit consists of the following set-ups:

ROBOT-RECORDER-F

Special Mounting Support KULI-F

Electromagnetic Remote Release 24 volts D. C.

Attachable 30 ft Magazine

Angle Bracket I

Electric Booster Motors F-I and F-II

Time Control Set III

Optics according to requirement

The **ROBOT-RECORDER-F** is a special type of the well-known RECORDER models, especially designed to cope with the particular requirements of continuous recording. The camera has a film window which is infinitely variable from 24 x 24 mm down to 24 x 1 mm, thus enabling to adapt the permeability of light to the given photographic conditions.

For control of the film speed, which is obtained in the two different ranges, and for evaluation purposes, a special device for time record is built into the camera. This time record device indicates by light spots at the border of the film, outside the perforations.

In range I, the frequency is 10 spots per second; for ease of reading every 10th spot appears bigger. In range II, the frequency is 50 spots per second; every 5th spot is bigger while every 50th spot appears twice the size.



Recording - Unit - F with Time Control Set III

A special locking contact is built into the camera which automatically switches off the camera at the end of the film.

The Special Mounting Support KULI-F serves for a stable, permanent and vibration-free position of the camera unit, and allows the rapid interchange of the camera with its lens or of the camera body without lens, while the set-up remains in its exact position. This eliminates constant refocusing and resetting of the aperture whenever the camera has to be reloaded. The complete unit is indifferent to the local position, and by means of the KULI support it can be adapted to any given photographic condition.

The film speed ranges I or II are obtained by two different Electric Booster Motors. Setting to the required film speed within the ranges I or II has to be done at the Control Set III.

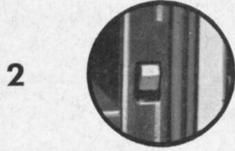
The Control Set III operates the unit and serves for power supply either 220volts A. C. or on request 110 volts A. C. After the built-in main switch is operated, the readiness to work is indicated by means of a pilot lamp. Pressing the hand key button of the control set now operates the unit, provided the camera is loaded with film. The unit records as long as the hand key button is depressed and there is still film in the cassette. After the full film is exposed, the unit is automatically disconnected.

The required speed range I (Red) or II (Green) and similarly the spot frequency is selected by a tumbler switch. The exact repetition rate of the light spots is controlled by a contact disc which is coupled with a synchronous motor. According to the chosen range, either a red or a green low-voltage glow lamp lights up as signalling remote control that the time record is given.

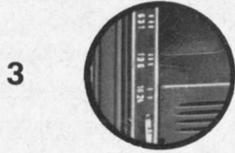
Within the speed range I or the speed range II, the film run speed is infinitely variable by a rotary type switch. The set film run speed remains constant. A counting device built into the control set indicates in centimeters the passed and exposed length of film.



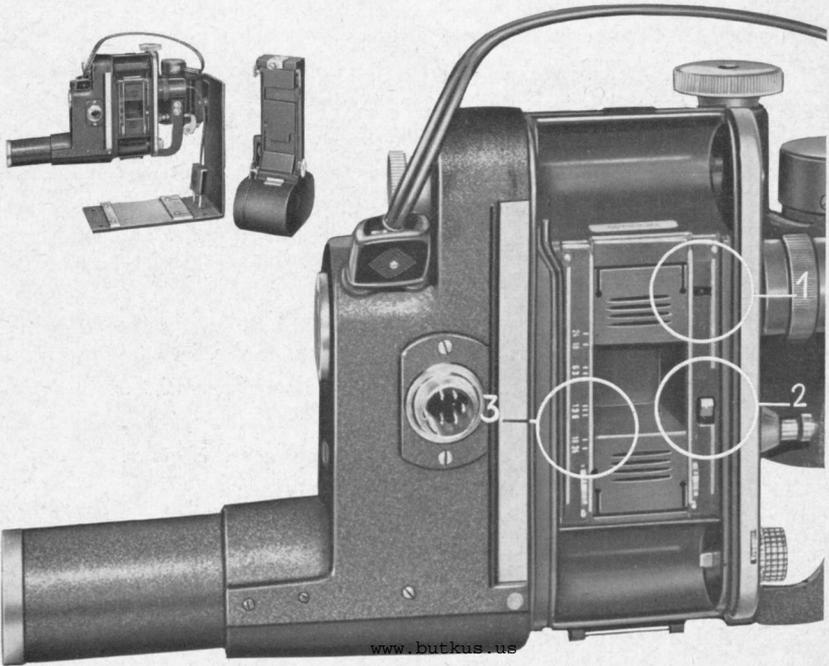
Opening for time record



Contact for automatic disconnection



Variable film window



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The optical outfit can be chosen according to all **ROBOT-ROYAL** and **-RECORDER** lenses with accessories such as macro extension rings, adapter and intermediate setting rings, etc.

The **ROBOT-Photographic Tube** for Oscilloscopes, suitable for screens up to 5" \varnothing , is regularly delivered with the special mounting support **KULI-F**, the electromagnetic remote release 24 volts D.C., and 9 mm macro extension ring with appertaining adaptor ring "vaneu". Therefore, this Photographic Tube can be used for single pictures with all **ROBOT-ROYAL** and **-RECORDER** cameras, and for motion pictures as well with the **ROBOT-RECORDER-F** with continuous film run.



Time Control Set III

Consequently, for motion pictures in connection with the Photographic Tube the following set-ups are additionally required:

- **ROBOT-RECORDER-F** with
- bayonet lens locking lever
- Electric Booster Motor F-I or F-II
- Control Set III

The extended range of film speed and the infinitely variable film window offers to the recording unit an extremely wide field of application. Not only a camera for photofinish at sporting contests, but especially suitable for industrial and scientific registration photography, the **ROBOT-Recording-Unit-F** represents the ideal instrument for continuous motion recording.

Subject to technical alteration

ROBOT-FOTO ^{GM}_{BH} DÜSSELDORF

Germany

Equipment for use in science and research

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