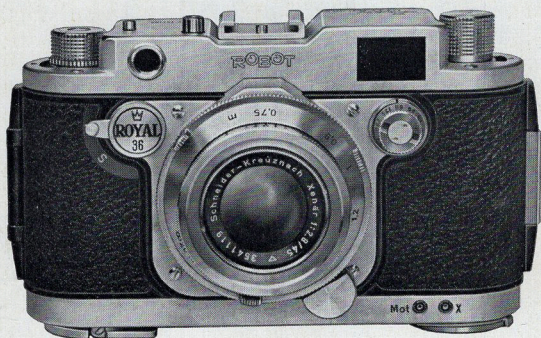
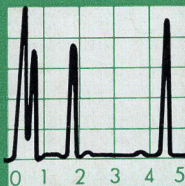


# PHOTOGRAPHIC AUTOMATION

## IN SCIENCE AND INDUSTRY



with the

# ROBOT

motor driven 35 mm camera

and the ROBOT electro-automatic Registration system

## **ROBOT** – Indispensable Tool for Photographic Registration.

The unbelievably rapid progress of Science and Industry during the past decades would have been impossible without one important factor: **Photography**.

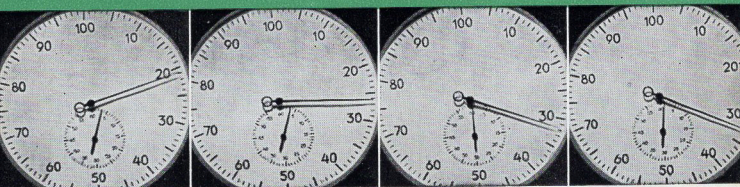
Compilation of chemical, physical, biological, medical, technical, briefly any scientific and industrial data and phenomena – often imperceptible to the human eye – are now photographically registered.

For the past 25 years, the manufacturers of the **ROBOT** have concentrated their efforts on the development of a complete Electro-Automatic Photo-Recording System of utmost precision and ruggedness, providing an inexpensive, yet exacting medium of record keeping. Designed to make repeated exposures at regular or irregular intervals, the **ROBOT**'s great range of speed allows it to record rapid changes of the subject, yet renders each image critically sharp, perfectly suited for big size enlargements or projection.

**Photographic Automation** has been the **ROBOT** Trade-mark ever since.

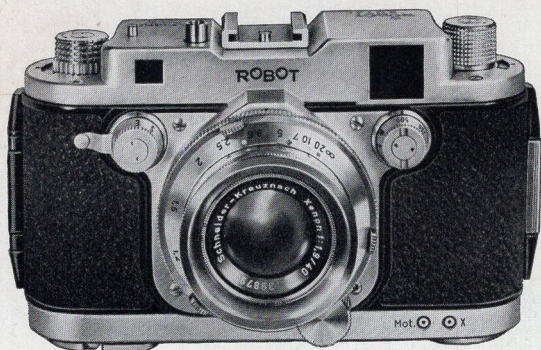
As a result of this pre-eminent leadership, the **ROBOT** Electro-Automatic Registration System has become the universally accepted recording tool in industrial plants, scientific institutions, hospitals, laboratories, schools as well as for the army, navy, air force, police, government, etc. Contrasted to other methods of recording, the **ROBOT** gives you a totally objective, permanent documentation, completely free from any human error in observation or transcription, ideally suitable for detailed analysis and evaluation.

Unattended, the **ROBOT**'s photographic brain registers tens or even hundreds of thousands of pictures reliably, rapidly, repeatedly. Here is complete **Photographic Automation** for saving time, labor and expenses, adaptable to all of your visual recording needs.

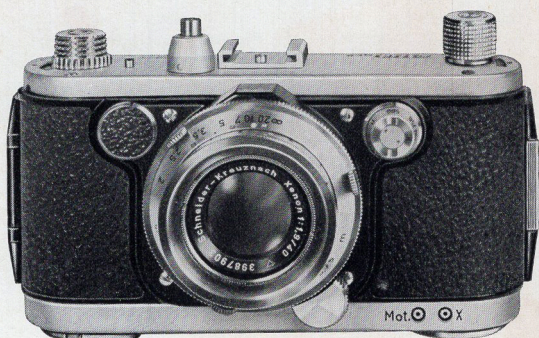


**ROBOT** records rationally!

**ROBOT** records rationally!



**ROBOT - ROYAL 24 a** (24 x 24 mm)  
all purpose camera for registration photography as well as personal use



**ROBOT - RECORDER**  
specifically designed for technical and scientific recording



Electric Booster Motor 24 Volts D. C.

**ROBOT** records rationally!

**ROBOT** records rationally!

## The **ROBOT** Electro-Automatic Registration System.

There are two basic **ROBOT** automatic 35 mm cameras:

- The **ROBOT ROYAL** suitable for scientific and industrial as well as general use.
- The **ROBOT RECORDER** (without range/viewfinder), which is specifically designed for photographic registration.

Both cameras accept the standard 35 mm cartridges as well as the special **ROBOT** bulkloading and take-up cassettes, and are available in three basic models:

**36** (24 x 36 mm double frame), **24** (24 x 24 mm square) and **18** (18 x 24 mm single frame).

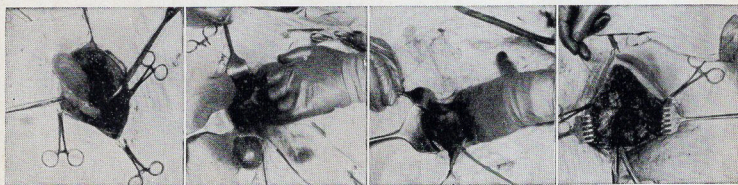
Pressure on the release button not only takes the pictures, but also automatically transports the film, counts the exposures and re-cocks the all-metal rotary shutter, with speeds from  $\frac{1}{4}$  second up to  $\frac{1}{500}$ . The built-in spring motor of the **ROBOT** has a breakage-proof and antimagnetic "Superflex" spring, which withstands extreme temperatures and provides up to 24 single shots or entire **Kinographic** sequences **without rewinding**.

The **ROBOT** system is based on the "construction unit" principle. Built around the **ROBOT - ROYAL** and **RECORDER** automatic 35 mm cameras with built-in motors there is an accessory which adapts it to any specific photographic registering assignment in Science and Industry.

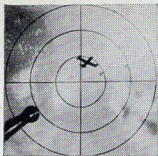
### **Booster Motors and Magazines** (camerabacks).

The attachable **spring** booster motor provides the power needed to advance an entire film roll of 5  $\frac{1}{2}$  ft. without rewinding, i. e. 36 24 x 36 mm frames, 55 24 x 24 mm frames or 72 18 x 24 mm frames. The **electric** booster motor, which rewinds the built-in motor constantly, allows automatic film runs without limitation.

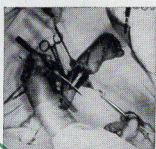
The interchangeable **30 ft. magazine** (cameraback) holds enough film for 260 24 x 36 mm frames, 400 24 x 24 mm frames or 520 18 x 24 mm frames, while the **200 ft. magazine** (cameraback) allows uninterrupted picture taking for 1600 24 x 36 mm frames, 2400 24 x 24 mm frames or 3200 18 x 24 mm frames.



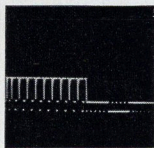
Target Registration



Surgical Operation



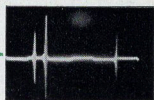
Oscillogram



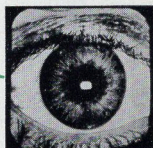
Photomicrography



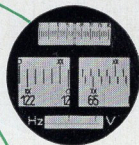
Ultrasonic



Eye



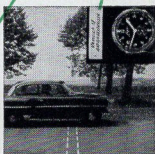
Theodolite



Aerial view



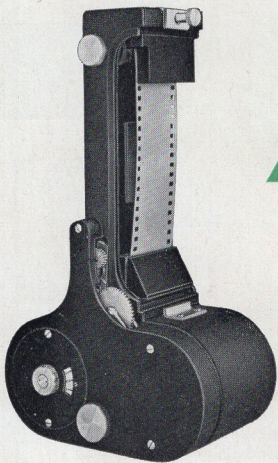
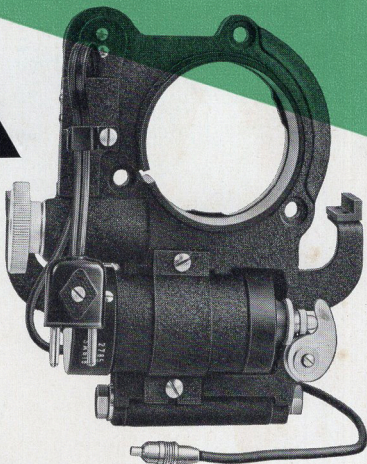
Traffic Control



Radar

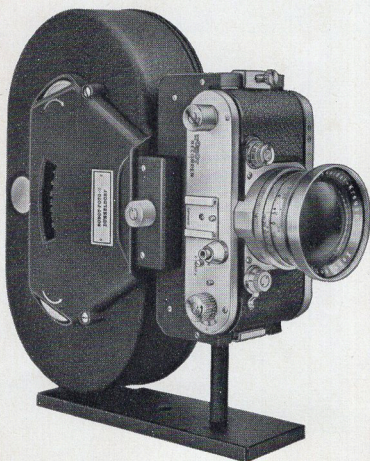


**ROBOT - KULI III** — uni-  
versal mounting support  
with electromagnetic  
remote release



30 ft. Magazine

200 ft. magazine  
attached to  
**ROBOT - RECORDER**



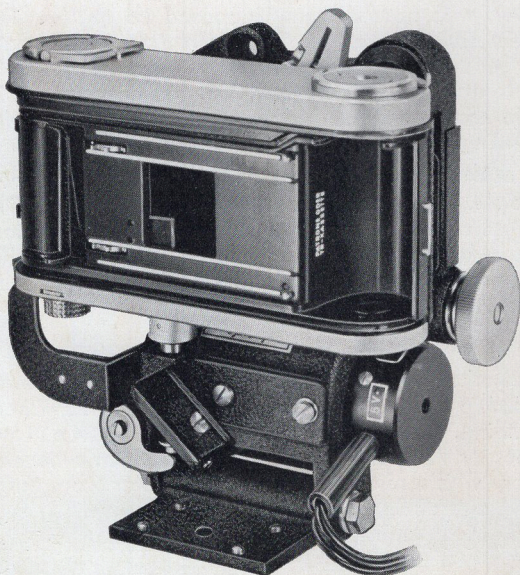
**ROBOT** records rationally!

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### Remote Controls, Timers, Synchronization etc.

The **ROBOT** may be operated either directly or by an **electro-magnetic (solenoid) remote control**. This remote release can also be operated by subject activation and supplied with a "reverse" solenoid, which keeps the shutter open, closes it on impulse, then reopens it again.

**Electric timers** provide for automatic release at intervals of one picture every  $\frac{1}{4}$  second up to one every 24 hrs. **ROBOT-ROYAL** and **RECORDER** industrial cameras have an X-contact for internal **synchronisation** to electronic flash and a Mot-contact for coupling with the electric booster motor. Both contacts may also be used for operating an automatic exposure counter, a remote light signal or a combined countertimer, which automatically stops operating after a preset number of exposures has been taken.



**ROBOT - RECORDER 24 e** with separate optical system in the film channel, with detached cameraback, mounted in the special type **KULI - e**.

### **ROBOT - KULI Camera Holder**

If a recording camera is installed for prolonged periods of photographic registration maximum rigidity is indispensable. The **ROBOT - KULI** camera holder grips both camera and lens, maintaining them in a permanent, vibration-free position. Its ingenious design provides for easy removal of camera **with** lens or of the **camera body alone**, so that it can be reloaded without resetting focus and aperture.

The **ROBOT - KULI** also holds the electro-magnetic release, which trips the shutter by means of a built-in lever system. An angle bracket permits easy installation of the complete electro-automatic unit, while a special carry-all case provides for easy portability.

Interchangeable **ROBOT** lenses with bayonet mount range from 30 mm wide angle up to 300 mm or longer focal lengths. A simple focusing groundglass or a magnifying lens with groundglass permit exact settings. A special adapter with reflex viewer attaches the **ROBOT** to any microscope for automatic Photomicrography.

#### Special **ROBOT** models.

The **ROBOT - RECORDER 6** provides 6 x 24 mm frames, i. e. six times as many pictures as the model 36 (24 x 36 mm).

**ROBOT - ROYAL** and **RECORDER 36**, 24 and 18 cameras can be supplied with built-in reticles on request.

The **ROBOT - RECORDER 24 e** has a second, short-focus lens built into the top of the camera. Supplemented by a prism with auxiliary shutter it double exposes an 8 x 8 mm image into the corner of the 24 x 24 frame. Combined with the special **KULI - e** with reflex mirror, it records datas, numbers, dials of watches or other instruments on the same negative as the subject itself, providing indisputable documentation.

This folder gives you only a very general idea of the practically unlimited applications of the **ROBOT** Electro-Automatic Photo Recording System. For more detailed information or your specific requirements, please request the complete booklet on **Photographic Automation** with the **ROBOT**, call or write to your franchised **ROBOT** dealer, your **ROBOT** distributor or the **ROBOT** factory.

## ROBOT-FOTO GM BH DÜSSELDORF

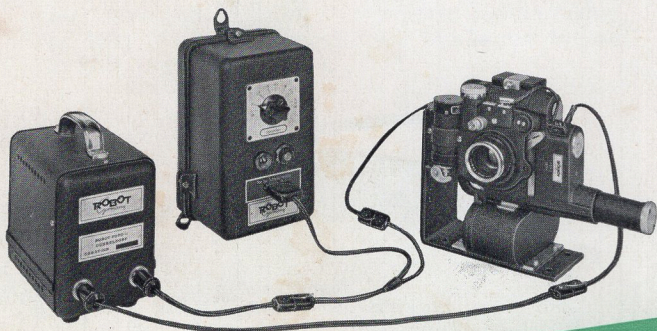
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Complete electro-automatic recording unit with combined transformer-rectifier and electronic timer.

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