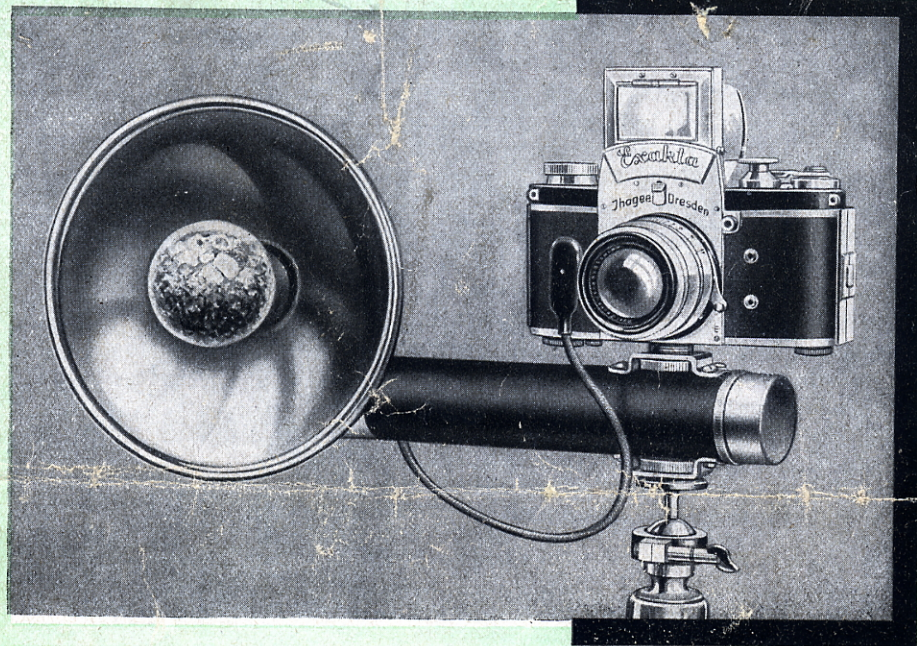


# The EXAKTA Flashgun



Two pairs of contact sockets in the left-hand front wall of the EXAKTA VX \*) are the outward signs of the fact that this versatile miniature camera possesses built-in flash synchronization for flashbulbs ("V" or international abbreviation "M") as well as for electronic flashlight ("E" or international abbreviation "X")\*\*). In order to make the fullest use of this EXAKTA VX feature, an additional „EXAKTA Flashgun" is necessary.

There does not exist any difficulty for an EXAKTA VX equipped with this flashgun to work with extremely short exposure times by night or indoors just as well as by day. A single pressure on the release button causes the bulb to be fired and, simultaneously, the shutter to be opened. In the vacuum of a bulb-like flask aluminium or a similar material is burned and gives blinding light without causing smoke, dust, smells, noise or bright flames. One may "flash" freely everywhere: out of doors by night, in rooms full of inflammable materials, in the midst of a stage scenery, at the conference table, and "flashing" will never be accompanied by danger or inconvenience. Especially the press photographer is often confronted with light conditions not sufficient for a snapshot even with an ultra-fast lens. But the flash-bulb, independent of any other lighting, allows of stopping down sufficiently and, consequently, of distributing sharpness over larger areas. It goes without saying that flash-bulbs can be used also in a much more comprehensive way, namely as substitutes for photo-flood lamps: thus they become a valuable source of light for indoor and technical photography, for criminology, and macrophotography.

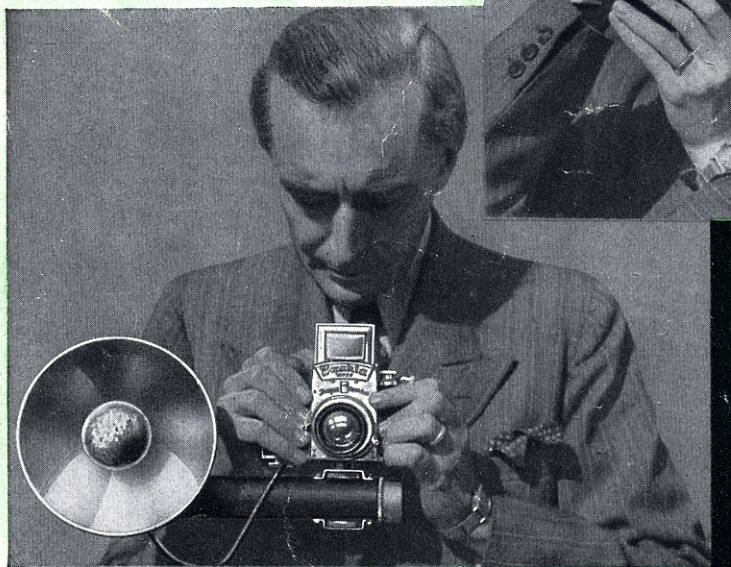
\*) Also the Kine-Exakta and the EXA possess flash-bulb contact sockets for the EXAKTA Flashgun.

\*\*\*) Former EXAKTA models are synchronized for electronic flash by IHAGEE KAMERAWERKAG, Dresden A16, Germany



# The Synchronizing Mechanism

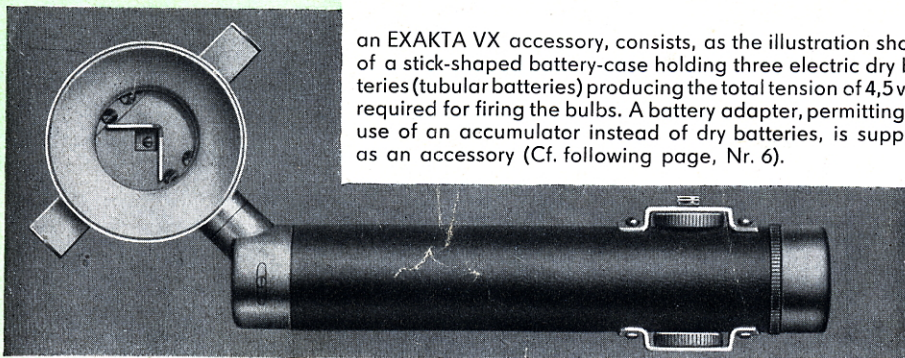
Every EXAKTA VX is equipped – as has been mentioned above – with internal shutter and flash synchronization. Flash-bulbs of different light output are available for the various requirements of photographic work. Although the various types of bulbs have different time-delay and lighting duration, the EXAKTA VX flash synchronization allows in every case of using the kind of bulb that will meet the requirements of the task in hand. Further details concerning exposure times will be found in the EXAKTA Flashgun Instruction Booklet. Suffice it to mention here that it is possible to work even with shortest instantaneous speeds when taking e. g. sports shots, etc. In that case, however, genuine synchro-flash-bulbs should be used (e. g. OSRAM S2), as they have a somewhat longer lighting duration (OSRAM S2 =  $\frac{1}{80}$  sec.). The EXAKTA VX flash synchronization works with astonishing precision: the exposure time coincides precisely with the lighting duration of the flash-bulb. To-day it is, therefore, not an exaggeration to say that flash pictures taken at  $\frac{1}{300}$ ,  $\frac{1}{500}$  or even at  $\frac{1}{1000}$  sec. will turn out well, provided, of course, that ultra-rapid films, a speed of f/2 or f/2.8 at least, and flash-bulbs with a large volume of light and longer lighting duration (OSRAM S2) are used



The illustration (above) shows the EXAKTA VX as it is best suited for press and sports work: The Special Prism permits direct vision of the subject at eye-level.



# The EXAKTA Flashgun

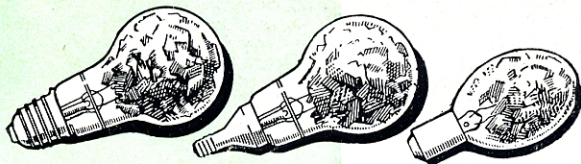


an EXAKTA VX accessory, consists, as the illustration shows, of a stick-shaped battery-case holding three electric dry batteries (tubular batteries) producing the total tension of 4,5 volts required for firing the bulbs. A battery adapter, permitting the use of an accumulator instead of dry batteries, is supplied as an accessory (Cf. following page, Nr. 6).

The battery-case is constructed in such a way as to serve as a solid handle for both the EXAKTA VX and the EXAKTA Flashgun. In order to connect the camera firmly with the flashgun, the battery-case is fitted with a tripod-plug which is screwed into the EXAKTA VX tripod socket. Whenever tripod pictures are required (e. g. delayed-action indoor pictures), the whole structure can be screwed on to a tripod by means of another bush mounted on the battery-case, and the tripod is put up at the appropriate place. In order to utilize the flash-light fully and to direct it towards the subject, the EXAKTA Flashgun is equipped with a metal reflector with highly polished inside. It slips on to the lamp-holder of the flashgun and is detachable in order to facilitate transport and to take differently shaped reflectors for the purpose of changing the angle of diffusion. It is, furthermore, important to note that the lamp-holder is movable in the horizontal as well as in the vertical so that, according to circumstances, the light can be directed towards the subject directly or indirectly at will.

Rapidity is the first consideration with the press photographer. That is why the flash-bulb is not held by one of the usual sockets with screw thread. Precious seconds would be lost in screwing the bulb in and out again. So the lamp-holder of the EXAKTA Flashgun is fitted with a spring locking-device suited for all sizes and all bases of flash-bulbs. The holding device opens upon pressure on its side-parts which are moved by springs. The bulb is inserted and held in contact position as soon as the pressure on the lateral parts ceases. An additional spring under the bottom contact plate causes the bulb to be ejected as soon as the locking-device opens. In point of fact, it takes only a few seconds to interchange flash-bulbs, and it does not matter in the least if bulbs of every description (See Illustration below) are used indiscriminately during one series of pictures.

The contact between the lamp-holder of the EXAKTA Flashgun and the sockets on the left-hand front wall of the EXAKTA VX ("V" or "M" at the left-hand side of the lens) is established by a cord. There is also an outlet for extension flash in the battery-holder, if additional bulbs are to be used apart from the Flashgun (Accessories see overleaf!). If it seems desirable to fire the flash-bulb separately from the camera or to test the contact beforehand with an ordinary electric bulb, the button on the lamp-holder of the EXAKTA Flashgun must be pressed. The EXAKTA Flashgun is constructed throughout so sturdily that it is absolutely equal to permanent professional strain. The battery-case is solidly covered, the other parts are satin chrome-finished or enamelled.



These different flash-bulbs may be used in the EXAKTA Flashgun without special manipulations or gadgets.



# The EXAKTA Flashgun

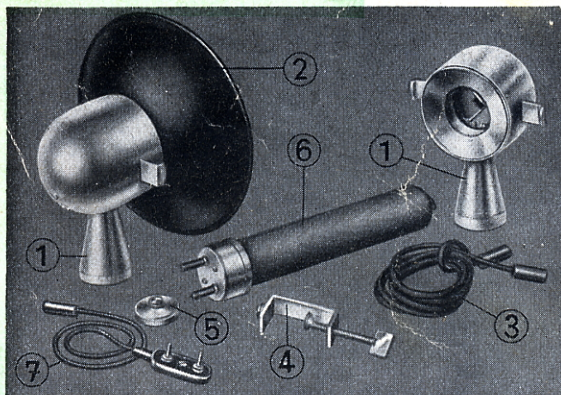
is supplied complete with battery-case, movable lamp-holder, reflector, and connecting cord (but without batteries). Catalogue Nr. 148 Price on request



## EXAKTA Flashgun Accessories

### Extension Lamp (Nos 1-3)

1. Extension Lamp-Holder for second flash-bulb, fitted with holding device suited for all sizes and bases of bulbs, with stand and tripod socket.
2. Reflector for Extension Lamp-Holder No.1 (also suited for lamp-holder of EXAKTA Flashgun).
3. Extension Cord (1.50 m.), connecting EXAKTA Flashgun and Extension Lamp-Holder (with second bulb).
4. Clamp Screw (with two tripod screws) for Extension Lamp-Holder, permits to fix camera to table or other support. Useful for lighting effects (side light, top light).
5. Adapter Screw allows to fasten the Extension Lamp-Holder to the EXAKTA Flashgun tripod socket. Indispensable for hand-held shots with two flash-bulbs (press-work).
6. Battery Adapter is inserted into the battery-case of the EXAKTA Flashgun and permits the use of an accumulator instead of dry batteries.
7. Connecting Cord (35 cm.) of EXAKTA Flashgun, fitted with special plug connecting camera contact sockets of EXAKTA VX, Kine-Exakta, and EXA with EXAKTA Flashgun.



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