

Bauer Direct-Sound Cameras
The best way of sound filming

S103 XL sound, S105 XL sound, S108 sound



BAUER



The technical aspects



Some years ago it was considered a sensation when enthusiastic film makers were able to present a sound synchronized home movie with the original sound. The technical requirements, the patience and the experience needed to bring about such a miracle were tremendous. It was indeed a painstaking job.

This era is past once and for all. Today sound filming is just as uncomplicated as silent filming:

1. Just drop a super 8 sound film cartridge into your Bauer direct-sound camera. This film is already magnetically striped. The sound system in the camera is switched on automatically.
2. Connect the microphone. The camera controls the recording volume automatically.
3. Focus your lens on the subject and release. That's all. The camera simultaneously takes the pictures and records the original sound on the scene. Speech, noise, music, everything is recorded in absolute synchronism with the action in the scene.

Simple as it is to make such sound films, Bauer direct-sound cameras are not simple but are designed for the exacting amateur: they feature up to six automatic controls—mostly operable manually just the same—which open up a vast field of creative sound filming.

In view of their professional qualities Bauer direct-sound cameras also feature a professional look. You will be pleased with the clearly arranged and handy operational elements as well as the rotary folding grip. The pleasing and practical design is the work of Hans E. Slany, a prize-winning expert in the field.

But you will certainly not base your choice on the form and design alone, the decisive factor is the film result. And this is a sure-fire success because Bauer cameras incorporate the safeties offered by a computer: up to 73 electronic components, including up to 6 integrated circuits, control the vital camera functions.

But such a perfect and easy-to-use camera is the basic prerequisite for such a many-sided and almost inexhaustible hobby as sound filming:

Topical film report. Bowling. Songs. Documents of the place of work. Ice-hockey. Family festivals. Garden parties. Interviews. Jazz music. Children's birthday parties. People. Visits to a fair. Crazy carnival events. Trips to the orient. Parades. Quiz. Races. Street scenes. Animal studies. Vacation pleasures. Public festivals. Aquatic sports. Xerxes (which stands for sound-on-film documents on educational or informative trips). Young people. Circus.

With a Bauer sound film camera you can make the most beautiful moments a great film event. On any occasion.

Bauer direct-sound camera are precision-mechanical masterpieces (with international guarantee) of the Robert Bosch GmbH, Geschäftsbereich Photo-kino, Stuttgart, West Germany.



Bauer S 103 XL sound

A high-quality, easy-to-use direct-sound camera for just any film occasion. It makes your memories more than just memories: it captures the original atmosphere in the form of picture and sound.

Its XL (existing light) capability makes this camera particularly suitable for in-home shooting: the f/1.1 lens in combination with a 220° rotary shutter ensures perfectly exposed films even with normal room lights.

Three vital functions are automatically controlled. Two of them can also be manually operated:

1. The automatic exposure control guarantees an even exposure under just any lighting conditions. In special cases you can use a manual override for



setting any desired aperture. In case the sun stands rather low you may use the backlight button so that shadow portions will also be properly exposed.

2. With the power-zoom you can smoothly "travel" through the entire zoom range. Press button T (telephoto)—and distant subjects are pulled up real close. Press button W (wide angle)—and the close items move away. Like all Bauer cameras the S 103 is equipped with two separate motors for film transport and power-zooming. Therefore you can do some trial zooming before you do the actual shooting of a scene.



For easy pre-framing the lens can also be zoomed manually.

3. The automatic recording level control makes the sound part blissfully easy for you: just select the microphone sensitivity—according to the sound source—and



set the switch to "high" or "low"—and you can forget about the sound. You can fully concentrate on the creative aspects of filming. Incidentally, the automatic controls the full sound level (a point in which all Bauer cameras are clearly different from other direct-sound systems). This control method ensures maximum loudness and best sound quality in playback.

The sound recording can be monitored via earphone and can be visually controlled with a light signal in the viewfinder.

When you set all variable functions of the S 103 on the green marks you film with what may be called the "green wave". With this "green setting" you are ready for snapshots and for any standard shooting.

In the section "Technical Specifications" you will find a survey of all features incorporated in the S 103.

Bauer S 105 XL sound

If you want to go deeper into the sound film hobby the S 105 will be the proper choice:

It is also equipped for low-light filming. But the built-in extras also help you capture extraordinary memories.

The Bauer Neovaron lens boasts a 5 to 1 zoom range which allows you to tackle special assignments, particularly in the telephoto range which is needed for many sports events, for instance. In addition the macro-focusing feature opens to you the fascinating field of close-up filming down to the surface of the front lens. This means you need not buy expensive accessories to shoot the colourful world of small things.



A most valuable aid in this field is the built-in micro-prism range-finder. With a slight turn of the handy focusing ring the giant-image viewfinder clearly shows



you the point of maximum sharpness.

The S 105 features automatic control for six camera functions, four of which can also be controlled manually:

1. TTL automatic light metering. Measuring through the lens means that the light meter always measures exactly at the taking angle of the lens. With the aid of a special adjustment knob you can adapt the automatic meter calibration within a range of ± 1 stop to make the overall exposure suit your personal taste for brighter or darker pictures. The S 105 offers two other alternative exposure overrides: the full manual override or the back-light button.

2. Power-zoom. Alternative: manual zoom.

3. Instant slow motion at 36 f.p.s. (this is, of course, intended only



for silent filming). This feature helps slow down motions—e.g. in sports—for a better analysis.

4. Automatic single frame for fast-motion tricks. Single-frame pictures taken at intervals pre-selected with the aid of the built-in intervalometer; choice between 1 f.p.s. and 1 f.p.m. (which means an 18 to 1 or a 1.080 to 1 acceleration). Alternative: manual single frame.

5. Automatic fades. Upon pressing a knob the scene fades in or out.

6. Full automatic recording level control: high and low.

In the section "Technical Specifications" you will find a complete survey of all camera features.

Bauer S 108 sound

If you intend to shoot mostly outdoors in broad daylight, if you give preference to the optical side of filming then the S 108 will be the universal camera to suit your purposes: no XL capability but an 8 to 1 Bauer Neovaron zoom lens. This will even more magnify the distant subjects.

This lens also features macro-focusing for extreme close-ups: even a butterfly sitting right on the apex of your front lens can be easily focused.

This model has in common with the other two direct-sound cameras: the professional design, the folding grip, the electromagnetic soft release, the ruggedness, the computerized controls, the "green-wave" snapshot setting, and the giant-image through-the-lens reflex. Viewfinder with control indicators for



the aperture, film run end-of-film, and sound recording.

Like the S 105 the S 108 features six automatically controlled functions as well as a micro-prism for split-second pin-point focusing.



Four other refinements still widen the scope of the S 108 and make it the top camera for the individualistic film maker.

The power-zoom speed can be varied for special optical and creative effects.

A swing-in neutral density filter reduces intense light (particularly needed for winter scenes).

For fast-motion tricks with electronic flash the Bauer S 108 is equipped with a synch contact. And last not least: the recording control can be done automatically or manually. Such manual



control may be needed under extreme acoustical conditions.

In the section "Technical Specifications" you will find a complete survey of all features.

Additional accessories



Directional microphone.

In many cases a directional microphone will be found more suitable than the standard mike. The directional Bauer microphone is of the electret-condenser type. It is an ideal accessory for sound filming. With its screw-on mount it can be attached directly to the camera body. A pivoting. With the telescopic arm you can orient the microphone directly to the sound source.

NC recharger.

Bauer sound-on-film cameras can also be operated with standard rechargeable nickel-cadmium batteries. In heavy-duty



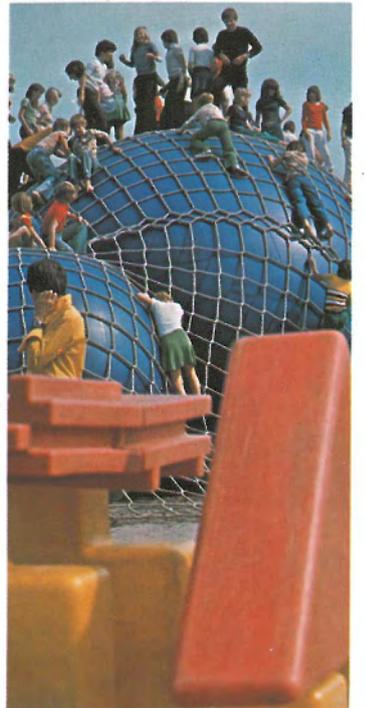
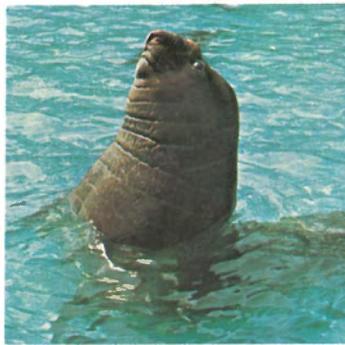
use this saves a lot of money. For the recharging these batteries remain right in the camera.

Camera carrying case.

This is a sturdy case as the experienced film maker wants it: it holds the camera plus all accessories as well as spare films. This is the ideal companion both for traveling and on film safaris.



Occasions



Technical specifications

S I03 XL sound

f/1.1/9–22.5 mm Neovaron. XL capability (combination of f/1.1 lens and 220° shutter). Focusing from 6 feet to infinity. Power-zoom. Giant-image through-lens reflex viewfinder. Adjustable eyepiece with viewfinder mask. Eyeshade can be rotated to the left and to the right to suit individual viewing. Controls in the viewfinder: aperture, film-running/end-of-film, recording. EE automatic light meter. Manual override. Backlight button. Film speeds 15–23 DIN.



Swing-in type-A daylight filter. Film running speeds (silent): 1, 18 f.p.s. Film running speed (sound): 18 f.p.s. Central on/off mainswitch with light diode. Folding hand grip. Electro-magnetic release with release lock for continuous run. Slot for attaching the Bauer Filmsonne movielight. Central power supply by six 1.5 v batteries (dry cell or N.C.). NC charging plug. Action light. Built-in battery tester. Film counter/film-type indicator. Remote control jack. High/low automatic recording volume control. Recording control by light signal

in the viewfinder and with earphones. Micro-electronics with 66 components, including 4 integrated circuits. Weight about 1.6 kgm. Dimensions (in millimeters): Length 210, width 170, height 85. Accessories supplied: earphone, microphone with remote release, carrying case and carrying strap, sunshade, lens cap.

S I05 XL sound

f/1.2/8–40 mm Macro-Neovaron. XL capability (combination of f/1.2 lens and 220° shutter). Focusing from 0 m to infinity. Power-zoom. Giant-image through-lens reflex viewfinder with micro-prism focusing. Adjustable eyepiece with viewfinder mask. Eyeshade can be rotated to the left and to the right to suit individual ways of viewing. Controls in the viewfinder: aperture, film-running/end-of-



film, recording. TTL automatic exposure control. Manual override. Automatic calibration adjustment ± 1 f/stop. Backlight button. Automatic fade-ins and fade-outs. Film-running speeds (silent): 1, 18, 36 f.p.s. Film running speed (sound): 18 f.p.s. Instant slow motion (at 36 f.p.s.).

Automatic single frame at intervals from 1 f.p.s. to 1 frame per minute. Central on/off mainswitch with light diode. Rotary folding hand grip. Electro-magnetic release with release lock for continuous run. Slot for attaching the Bauer filmsonne movielight. Central power supply by six 1.5 v batteries (dry cell or NC). NC charging plug. Action light. Built-in battery tester. Film counter/film-type indicator. Remote control jack socket. High/low automatic recording volume control. Recording control by light signal in the viewfinder and with earphones. Micro-electronics with 73 components, including 6 integrated circuits. Weight about 1.7 kgm. Dimensions (in millimeters): Length 230, width 170, height 85. Accessories supplied: Earphone, microphone with remote release, carrying case, carrying strap, sunshade, lens cap.

S I08 sound

f/1.7/7.5–60 mm Macro-Neovaron. Focusing from 0 m to infinity. Power-zoom with continuously variable zoom speed. Giant-image through-lens reflex viewfinder with micro-prism focusing. Adjustable eyepiece with viewfinder mask. Eyeshade can be rotated to the left and to the right to suit individual ways of viewing. Controls in the viewfinder: aperture, film-running/end-of-film, recording. TTL automatic exposure control. Manual override. Automatic calibration adjustment ± 1 f/stop. Backlight button. Swing-in neutral density filter.

Automatic fade-ins and fade-outs. Film-running speeds (silent): 1, 18, 36 f.p.s. Film-running speed (sound): 18 f.p.s. Instant slow motion (at 36 f.p.s.). Automatic single frame at intervals from 1 f.p.s. to 1 frame per minute. Central on/off mainswitch with



light diode. Rotary folding hand grip. Electro-magnetic release with release lock for continuous run. Slot for attaching the Bauer filmsonne movielight. Central power supply by six 1.5 v penlight batteries (dry cell or NC). NC charging plug. Action light. Built-in battery tester. Film counter/film-type indicator. Remote control socket. High/low automatic recording volume control; allows manual control as well. Recording level control instrument. Recording control in the viewfinder by both light signal and via earphone. Micro-electronics with 72 components, including 5 integrated circuits. Weight about 1.9 kgm. Dimensions (in millimeters): Length 240, width 170, height 85. Accessories supplied: earphone, microphone with remote release, carrying case, carrying strap, sunshade, lens cap.

Bauer Projectors and Accessories – To Make Your Film Hobby a Real Pleasure



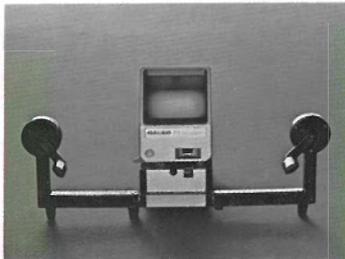
Your specialist:

Bauer T180 sound

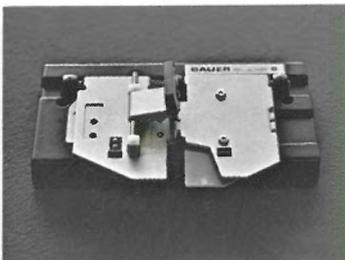
For exacting sound film fans: Projectionlamp 12 volts/100 watts, Bauer film advance system and dual projection feature. The film running speeds—with or without sound—are 18 or 24 f.p.s. Silent backward projection. The 10-w transistorized amplifier incorporates the latest in sound film engineering, including the highly durable Recovac magnetic heads. The frequency response at 24 f.p.s. ranges from 75–12,000 Hz. Perfect sound mixing with the built-in fading control. The recording can be monitored.

what your Bauer splicer can do so precisely that the resulting splices are hardly noticeable in projection.

Bauer movie editor F 1
Compact in its design and fitted with reel arms for a film capacity up to 600 feet that's in short the F 1, which is an important prerequisite for good film editing.



Bauer splicer
Trim the ends of your super 8 films, taper off both ends and cement them together—this is



Robert Bosch GmbH
Geschäftsbereich Photokino
Postfach 109
D 7000 Stuttgart 60
West Germany