

12321

SPOT-MASTER 2

GOSSEN SPOT-MASTER 2

for
ambient light
flash
zone system

Field of view 15° with clearly marked central circle used for measurements with a metering angle of only 1°.

The field of view is surrounded by the display so that the subject and all readings can be seen at a glance.

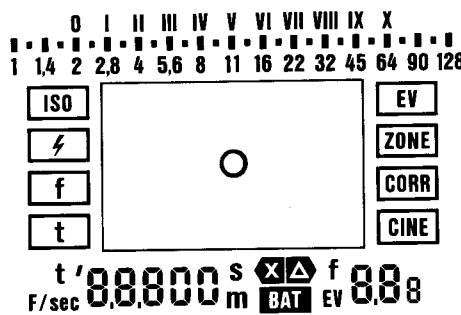
All functions, settings and measurements are controlled by means of four buttons and a sliding switch, all within easy reach of your thumb.

Metering angle of 1°

This extremely narrow angle permits measuring minute details and nuances in the scene brightness range, even if they are close together.

Shutter speeds

The shutter speeds are displayed in steps from 1/8000 sec. to 60 min.; 1/60 sec. is also provided.



Measuring distance: 1 m to ∞

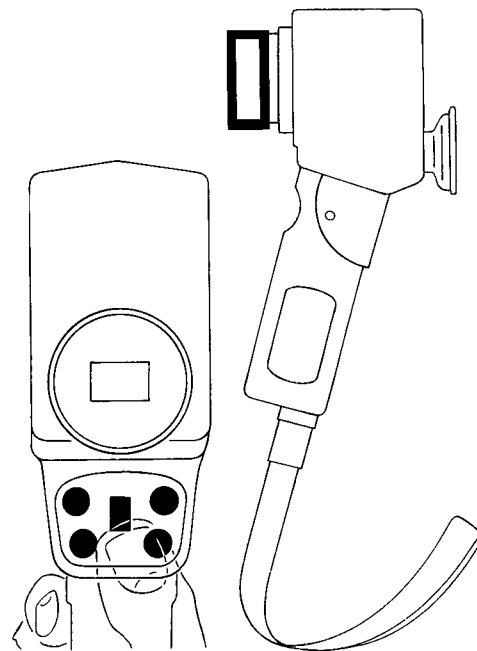
For shorter distances, close-up lenses are available from your photographic dealer. See Technical Data on page 20.

If you wear eye-glasses

The flexible eyecup on the viewfinder can be turned inside out. A variety of corrective lenses and matching adapters are available from your photographic dealer. See Technical Data on page 20.

Do not aim the meter at the sun

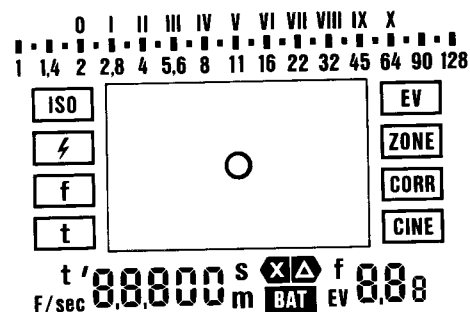
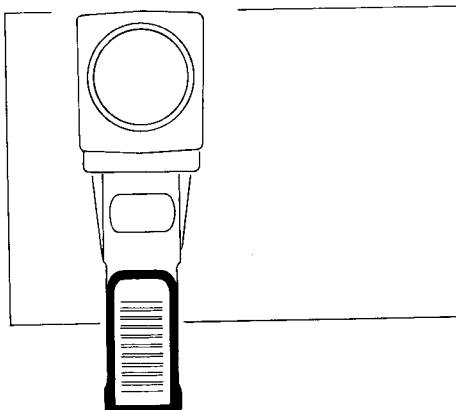
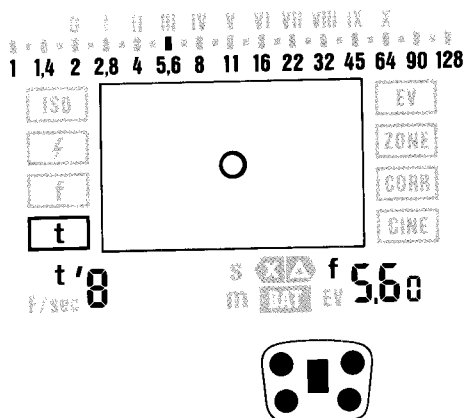
You may not only damage your eye, but also ruin the light-sensitive cell.



Adjusting the Spot-Master 2 to a particular camera

The meter has been manufactured to the internationally accepted DIN 19010 ISO 2720 standard; its readings are accurate and it meets all photographic requirements. If a test film should indicate that adjustment to camera and film is necessary, a correction should be made. Refer to page 15.

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Switching on the display

Press any of the five buttons once. The display appears with the most recently measured values. Approximately 15 seconds after a reading has been taken, the display is switched off automatically.

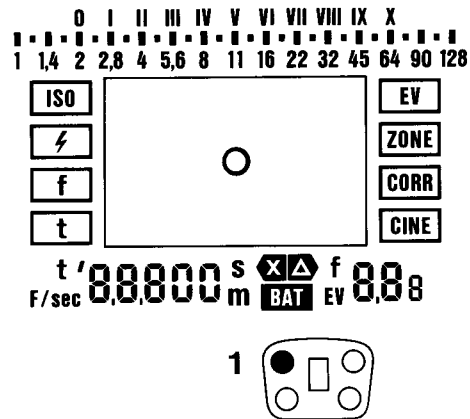
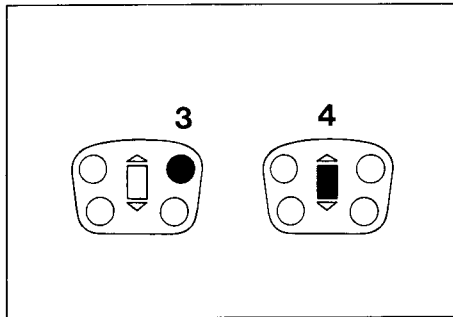
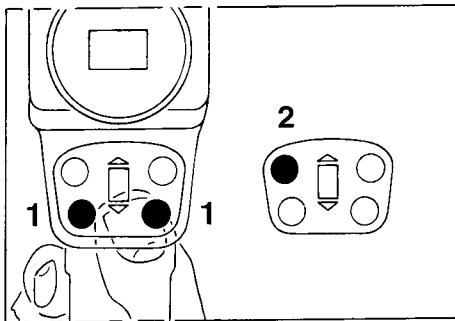
Inserting or replacing the battery

Use a 9 V alkaline or NiCd battery. Open the compartment in the pistol grip, disconnect the old battery and press the connector on the new battery. Insert the battery and close the compartment.

One battery permits some 1,000 readings. If the warning sign (BAT) lights up, there is sufficient energy left for approx. 50 readings. Replace the battery as soon as possible; the stored values will then be lost.

When the battery has been replaced, the microcomputer runs a self-checking routine, during which all segments of the display are shown. On completion of the test routine, the following initial settings are displayed:

ISO	100/21°	EV (LW)	120
⚡	'60	ZONE	–
f	5.6	CORR	1.0 00
t	'125	CINE	18 F/sec



Four push buttons and one slide switch

1 Two function buttons

The two lower buttons serve to select the required function; the left one in descending sequence, the right one in ascending sequence. A trial will make this clear. The selected functions are indicated in the display by a frame.

2 Button for single readings

3 Button for averaging

4 Slide switch

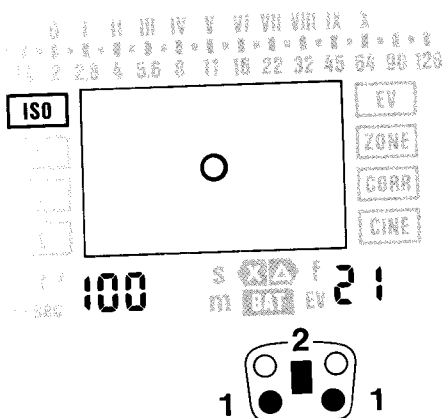
To change values.

In the following text, the buttons that need to be pressed for specific settings and metering are highlighted and numbered. In the example above,

1 = button for single readings.

The values in the display are examples only, and not necessarily the values that are actually shown in the display of the Spot-Master 2.

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Setting the film speed

- 1 Press one of the function buttons until the ISO function is highlighted by a frame. Use the
- 2 sliding switch to set the film speed; it is displayed in digital form in ASA (left) and in DIN (right).

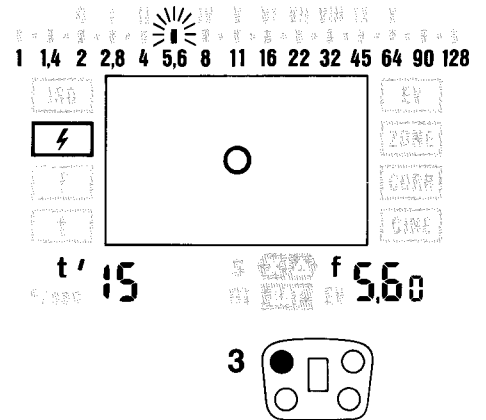
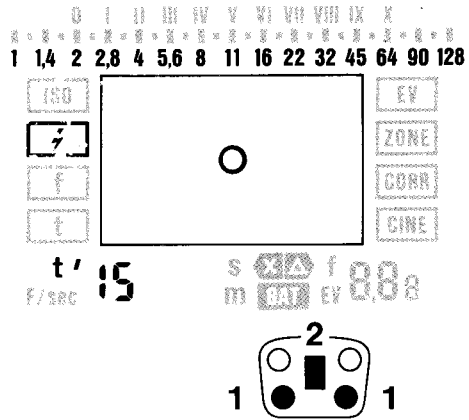
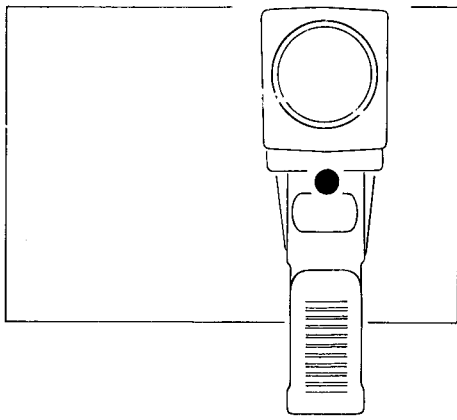
When switching to another function, the value is stored. A previously determined aperture/shutter speed combination is corrected accordingly.

Metering with grey card

Use a grey card that reflects 18 per cent of the light and place it in a prominent spot of the subject. Measure the light from the appropriate distance.

The self-adhesive grey cards supplied with the Spot-Master 2 can be easily attached to any subject. They are suitable for measuring distances of up to 3.5 m. If the distance is larger, use four cards arranged in a square and look through the viewfinder to ensure that the 1° circle captures the grey cards only.

Additional grey cards may be ordered in quantities of 30 from the Gossen representative in your country.



Measuring flash light

When measuring flash light, the Spot-Master 2 also measures the ambient light in accordance with the flash sync speed.

- Connect the flashgun with the Spot-Master 2. If this is not done, metering is impossible.

The flash unit and the Spot-Master 2 may be connected by means of a sync cord, or

a small flashgun or infrared trigger may be mounted on the hot shoe for flash triggering without a sync cord,

or

The flashgun may be mounted on the hot shoe.

The hot shoe and the sync socket must never be used simultaneously!

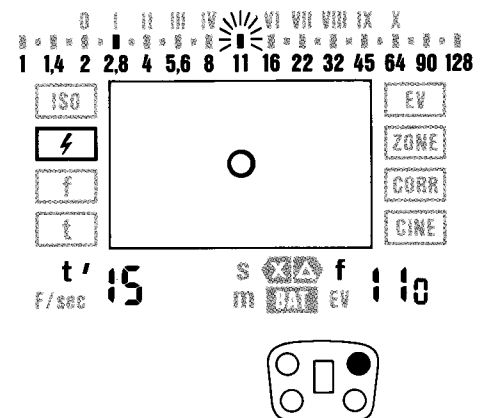
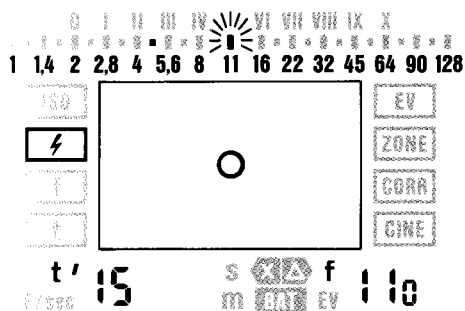
The connector that is not used must be covered!

- 1 Use one of the function buttons to select the function.
- 2 Use the slide switch to select the shut-

ter speed (synch speed) between $1/1000$ and $1/8$ sec. including $1/80$ sec. (the sync speed must be at least as long as the duration of the flash). The longer the exposure time, the greater the effect of ambient light. The shutter speed is displayed in digital form on the left: t...

- Aim the Spot-Master 2 at the subject or grey card that is illuminated by the flash.
- 3 Press the button for single readings: the flash is triggered automatically.

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The correct "f" number resulting from the combination of flash light and ambient light is displayed:

both as a digital value on the right and a flashing dot on the analogue aperture scale; the "f" number for the amount of ambient light is displayed as a constant dot on the aperture scale and does not flash. This reading indicates the difference in f-stops between the ambient light and the flash light (contrast ratio).

When this reading has been taken, the contrast can be measured

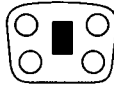
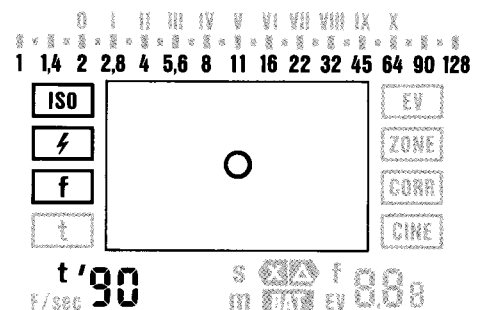
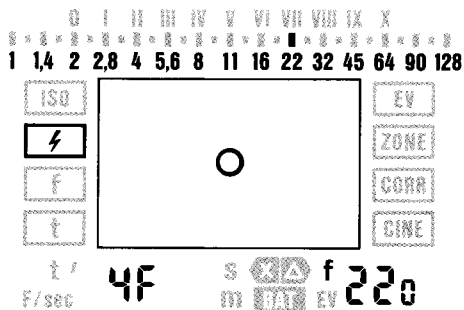
between

- parts of the subject illuminated by the flash light and
- parts of the subject illuminated by the ambient light only.

Measuring the contrast between flash light and ambient light

The combined flash and ambient light reading has already been taken and the measured value has been stored.

- Aim the Spot-Master 2 at a section of the subject illuminated by the ambient light only, not be the flash light.
- Press the button on the right. The flash unit is not triggered but the contrast is displayed as a non-flashing analogue



value on the aperture scale, instead of the amount of ambient light.

- Further contrast measurements are possible in areas of the subject illuminated by ambient light only: again, press the button on the right.

Multiple flash – determining the number of flashes required

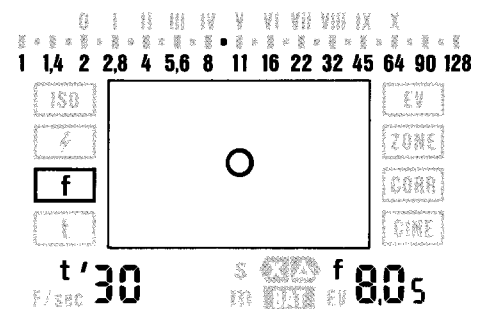
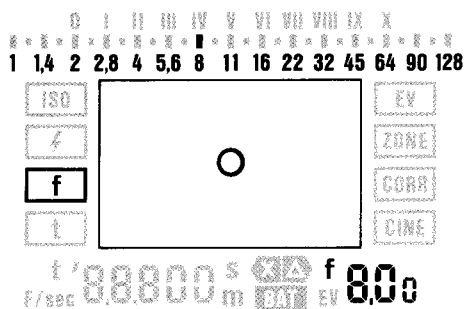
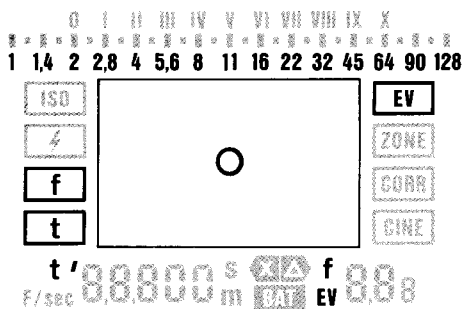
If the desired “f” number has not been obtained by the first flash measurement.

- Use the slide switch to set the desired “f” number. It is displayed as a digital value on the right (f...) and as an analogue value on the aperture scale. The digital shutter speed on the left disappears and the number of required flashes is displayed in this spot. Example: 4F = 4 flashes. The maximum number of flashes that can be computed is 15. If a specific number of flashes is required:

- Use the slide switch to set the number of flashes.

If a different shutter speed is to be set after metering:

- Change the function to ISO for f.
- Reset the function to .
- Set the new shutter speed (sync speed), using the slide switch.
- Press the button for single readings.



Measuring ambient light

- Use the function button to select:
f = Aperture priority mode. You select the aperture and the Spot-Master 2 determines the correct shutter speed.
t = Shutter priority mode. You set the shutter speed and the Spot-Master 2 determines the correct aperture.
EV = Exposure value.
 Currently stored values are displayed.

Aperture priority (f):

- Use the slide switch to set the desired aperture; it is displayed as a digital value on the right (f...). Intermediate aperture values (t...) (tenths of stops) result from the most recent reading and should be disregarded. The aperture is also displayed as an analogue value (rounded for clarity) on the aperture scale.
- Aim the Spot-Master 2 at the subject.
- Press the button for single readings.

The shutter speed is displayed as a digital value on the left (t...). As there are no intermediate settings for shutter speeds, intermediate values are shown as tenths of stops at the digital aperture value. In the above example this means: close down by 5 tenths.