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It'll make you feel better, won't it?

If you use Pay Pal or wish to use your credit card, click on the secure site on my main page.
Swivel head with diffuser

Display (Described on page 8)

Buttons to select the desired function

Eyelet for carrying cord

Gossen

LUNA-STAR F2

www.orphancameras.com
Measuring button M

Buttons to adjust the values

Socket to connect the flash synchronizing cable

Synchronizing button to fire the flash
Swivel head with diffuser for incident light measurement (see page 11)

Swivel head without diffuser for reflected light measurement (see page 12)

Battery compartment with contacted battery (see page 9)

Close

Open

Battery compartment cover
Basic Operating Instructions

ISO setting
1. Select function \( \textcircled{1} \) with \( \textcircled{0} \)
2. Set desired film speed with \( \textcircled{0} \)

Prefocusing aperture or shutter speed priority
1. Select function \( \textcircled{1} \) or \( \textcircled{0} \) with \( \textcircled{0} \)
2. Push \( \textcircled{1} \) for measuring. Read exposure on digital readout.
3. Push \( \textcircled{0} \) for other equivalent exposure combinations of aperture/shutter speed.

Measuring contrast in ambient light
1. Push \( \textcircled{1} \) and hold, scan the scene (with diffusing sphere mounted = lighting contrast, without diffusing sphere = scene brightness contrast)
2. Read-out of contrast is found on the analog f-stop scale.

Flash readings \( \textcircled{1} \)
1. Select function \( \textcircled{1} \) with \( \textcircled{0} \)
2. Select shutter speed with \( \textcircled{0} \)
3. Push \( \textcircled{0} \) and fire flash within 45 seconds. Read exposure on digital readout.
4. Read-out of contrast between ambient and flash is found on the analog f-stop scale.

Brief instructions for the most important functions

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www.orphancameras.com
Your LUNA-STAR F2 is an exposure meter with digital display from GOSSEN. It measures continuous light and flash, and it covers a wide measuring range with great accuracy.

A wealth of knowledge in the area of light metering, based on many decades of experience in the manufacture of exposure meters, is now being made available to the user, in the simplest manner possible, due to microprocessor technology.

The LUNA-STAR F2 not only measures with the greatest accuracy, but it can also store the readings and complete calculations at the push of a button. Its operation is exceptionally simple and convenient.

Features that characterize the LUNA-STAR F2:
- Microprocessor controlled
- Measures reflected and incident light, flash (with cord and cordless), and the share of ambient light
- Calculation of multiple flash
- Digital LCD display in tenths of stops
- Analog contrast display in half stops
- Programmable exposure correction
- Recall of all possible paired settings for a reading
- Aperture or shutter priority preselection
- Extremely convenient to measure flashes
- Covers the entire cine scale (frames per second), including the TV standard 25 and 30 f.p.s.
- Warning when range is exceeded
- Automatic battery check
- Storage of settings and readings
- Automatic Off
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- Automatic Off
1 Display

1.1 The display and its elements

1 Functions
   - Flash measurement
   - Continuous light measurement with shutter priority
   - Continuous light measurement with aperture priority
   - Continuous light measurement with read-out of exposure values (EV)
   - Entering the correction values
   - Setting the film speed

2 Digital display of film speed ASA (ISO)

3 Display identification “f” for aperture

4 Display identification “EV” for exposure value

5 Analogue aperture scale

6 Left-hand digital display
   - Aperture f
   - Exposure value EV
   - Correction value steps
   - Film speed in DIN

7 Display identification “t” for exposure time (shutter speed)

8 Warning sign “BAT” for battery check

9 Display identification “/” for fractions of a second

10 Right-hand digital display
   - Exposure time t (shutter speed)
   - Exposure extension factor
   - CINE (frames per second); symbol: f
   - Multiple flash; symbol: F at 6
   - Film speed in ASA

11 Unit symbol “m” for minutes

12 Unit symbol “s” for seconds
1.2 Display duration
When none of the control buttons has been actuated during the last 2 minutes, the display is automatically switched off, i.e. there are no readings.

- The stored values are recalled by depressing the function or values buttons.
- Renewed measurement is instantly possible when the metering button is depressed.

The values of the last measurement are stored until a new meter reading is taken. The LUNA-STAR F2 is fitted with separate memories for continuous light and flash measurement.

2 How the LUNA-STAR F2 Functions

2.1 Preparations - Battery Test

Battery
The LUNA-STAR F2 operates with a 9 V battery (alkaline-manganese battery or corresponding accumulator). Since the meter's power consumption is minimal, the battery will last for a long time. When the battery's capacity becomes exhausted, the user is warned by the "BAT" display. This means that the battery has to be exchanged at the earliest possible opportunity.

Measurements cease to be possible if the display only indicates "BAT". The battery must be immediately replaced.

To change the battery open the battery compartment of the LUNA-STAR F2. Remove the exhausted battery. Clip the contacts onto the new battery and insert in the battery compartment. Push back the battery compartment cover. Battery changing erases all stored values.
Self-checking Routine
The microcomputer performs a self-checking routine as soon as the battery has been loaded. Every possible display segment appears on the display during this routine.
The duration of the self-checking routine is approximately 10 seconds, but it can be interrupted by depressing any button.
The factory-programmed basic settings are automatically adjusted as soon as the self-checking routine has been completed.

Basic values
ISO 100/21°
COR 0/1.0
f 5.6
t 1/125
EV 12
Flash F 1/60
2.2 Incident Light measurement - Reflected Light Measurement

With regard to its measuring possibilities and operation, LUNA-STAR F2 was conceived for professional use. Due to its swivel sensor (swivel head), the meter is easily adapted to universal service.

Incident light measurement leads to particularly precise exposures. With incident light measurement the LUNA-STAR F2 with adjusted diffuser is pointed from the subject towards the camera to measure the incident light to guarantee a precise exposure in conformity with the correct tonal values of the subject. This is particularly important with inherently bright or dark subjects. Even in difficult exposure situations, for instance with contrasty subjects, incident light measurement with the diffuser results in far more accurate exposures to satisfy the most discerning professional requirements.

Incident light measurement is also imperative with inaccessible subjects. For this purpose it is necessary to select a point that has the same lighting level as the subject.
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Incident light measurement is also imperative with inaccessible subjects. For this purpose it is necessary to select a point that has the same lighting level as the subject.
And then a meter reading is taken with the meter pointed at the same angle towards the camera as it would have been from the subject. This very convenient method of light metering at a point with the same lighting level is highly recommendable for outdoor shots. The measurement is performed with a complete "about turn" in front of the camera so that the reading is taken with the meter pointing towards the camera, i.e. opposite the actual picture shooting direction.

Incident light measurement, i.e. with diffuser, also gives a precise reading of the brightness contrast range of the lighting.

Both kinds of lighting - flash and continuous light - are measured with great accuracy by the incident light method with diffuser.

Parallel to this the LUNA-STAR F2 also offers the reflected light measuring method. In this mode the diffuser has to be removed, and the meter is pointed from the camera towards the subject. The meter now only measures the light reflected by the subject. Consequently, the reading always depends upon the inherent brightness of the subject! This means that inherently brighter subjects are not precisely measured and therefore rendered darker.

This mode is also used to measure the subject contrast which is displayed by the LUNA-STAR F2 on its analog scale (see page 19, 3.2.5 Measuring the Contrast).

If readings are to be taken exclusively by the reflected light measuring method, then it is advantageous for the professional to use a grey card (18 % remission capacity) in this mode.
3 The Individual Functions

3.1 Setting the Film Speed
- Select "ISO" with function buttons.
- Set the desired ISO value with the values buttons.
  (Display: left DIN value; right ASA value)

Once the film speed has been set it is transferred to the memory of the LUNA-STAR F2 when the meter is adjusted to any operating function, and it remains visible at the top on the right-hand side of the digital display.

Any change of the film speed directly influences the stored paired aperture and shutter values.

This selected film speed will be retained in the meter memory until you change it to a new setting as described above.
3.2 Continuous Light Measurement

The LUNA-STAR F2 is designed for an exposure value measuring range of -2,5 to +18 at ISO 100/21°.

It offers the following possibilities depending on the application:

- With **shutter priority** "t" the reading is taken for the corresponding aperture.
- With **aperture priority** "f" the reading is taken for the corresponding shutter speed.
- For **exposure value** "EV" the shutter speed is preselectable, and the aperture is given as an analog value.
- **CINE speed** (frames per second)
- **Contrast measurement** in the function "t"

The desired continuous light function can be selected with the corresponding function button.
3.2.1 Shutter Priority Mode

- Select "t" with the function buttons (the last stored value appears on the display)
- Adjust the desired shutter speed with the values buttons
- Measure by depressing the measuring button M
- The measured aperture stop appears on the left-hand digital display (resolution: 1/10th stops), and additionally as a mark rounded off in the analog aperture scale
- Select other paired aperture/shutter values with the values buttons
3.2.2 Aperture Priority Mode

- Select "f" with the function buttons
- Set the desired aperture with the values buttons
- Measure by depressing the measuring button M
- The measured shutter speed appears on the right-hand digital display. Automatic adaption of the aperture in 1/10th stops to the fixed shutter speed
- Select other paired aperture/shutter values with the values buttons

Note:
The 1/10th stop values stored from the last measurement appear when the aperture is preset. These are invalid because the valid 1/10th stops will only appear after the next meter reading is taken.
3.2.3 Exposure Value EV

- Select "EV" with the function buttons
- Measure by depressing the measuring button M
- The measured aperture stop appears on the left-hand digital display (resolution: 1/10th stops), and additionally as a mark in the analog aperture scale
- With the value buttons select other paired aperture/shutter speed values corresponding to this Exposure Value
3.2.4 CINE Speed (Frames per Second)

- Select "t" with the function buttons
- Select the desired speed (f.p.s.) with the values buttons. For this purpose go beyond 1/8000th s. After approx. 1 second the meter switches over to CINE speeds. The symbol \( \ldots \) appears on the display. Cine speeds are variable between 8 and 64 frames/s.

- Measure by depressing the measuring button M
- The measured aperture stop appears on the left-hand digital display (resolution: 1/10th stops), and additionally as a mark rounded off in the analog aperture scale

The displayed aperture applies to a 180 degree shutter blade. Enter a COR value for other shutter blades as an extension factor

\[ V = 180 \degree \] : open aperture angle
3.2.5 Measuring the Contrast

- Select "t" with function buttons
- Keep measuring button depressed for some time and aim meter at the various areas in your subject
- In the left digital display, there appears the first measured aperture (f/stop). It will stay on in the display as reference value (e.g. a neutral grey card) during the entire measuring operation. On the analog aperture scale, the contrast range between the two extreme values will come on. The actual measuring value flashes.
- After the measuring button is released, the entire contrast range measured is indicated on the analog aperture scale. The last value measured does not flash any longer.
3.2.6 Flash Readings
Readings can be taken with or without synchronizing cable. When used in conjunction with a synchronizing cable, the flash is fired with the synch button.

- Select "" with the function buttons
- Adjust the desired synchronizing speed with the values buttons. Synch range from 1 s to 1/1000th s (including 1/90 s).
- Depress the measuring button M.
  LUNA-STAR F2 is operable for metering for a period of 45 s. (Meter readiness prevails as long as "F" remains visible on the display)
- Fire the flash
- The measured aperture stop (from the sum total of flash and continuous light) appears on the left digital display, and as a flashing mark on the analog aperture scale. The aperture stop for the share of continuous light is additionally indicated on the aperture scale (in our example f/8).
3.2.7 Multiple Flash
Occasionally the light output from a single flash may not be sufficient to enable you to work at the aperture desired. When this happens, simply push the top values button until the desired f/number appears in the display. The digital shutter speed display disappears, to be replaced by information on the number of flashes that have to be fired for the desired f-stop (e.g. F4 = 4 flashes).

The LUNA-STAR F2 will calculate up to a maximum of 10 flash sequences.

3.3 Measurements Outside the Measuring Range
- The LUNA-STAR F2 will not produce any useful readings outside its measuring range
- If it's too dark or too bright, an "E" (= error) appears on the left digital display, and alongside "□" for too dark, or "□" for too bright.
3.3.1 Read-out Outside the Display Range

- If the symbol " ▲ " or " ▼ " appears on the right or left digital display it means that a reading has been taken, but its display is outside the meter's display range.

- With " ▲ " actuate values button ▲ to enter the display range.

- With " ▼ " actuate values button ▼ to enter the display range.
3.4 Setting and Measuring Correction Values

(Please refer to "Important Remarks Concerning Correction Values", 3.4.4)

3.4.1 Setting Correction Values

- Select with the function buttons "COR".
  (The last valid correction value appears on the display)

- Enter or change the correction value with the values buttons.
  The extension factor appears on the right-hand digital display, the correction value is shown on the left in steps.
  Enter in 1/10th steps (small figure) within a range of ±7.9 Exposure Value steps.

A figure preceded by "−" indicates an exposure extending correction.

Example:
-3.1 steps equal factor 8.6

In the event of an exposure shortening correction only the left display appears as an exposure value difference in steps.
3.4.2 Measuring Correction Values

Correction values can also be directly measured. An evenly illuminated surface and constant light level are required.

- Press measuring button and get a reference reading; displayed as "rF --".
- Weaken light by holding e.g. a grey filter in front of the diffuser sphere. Press measuring button. The light reducing factor will be displayed automatically in stops at the right, as extension factor at the left.
- The COR value is now automatically taken into account in all subsequent measuring functions of the LUNA-STAR F2. The frame around "COR" is retained as a reminder that a correction value was entered.
- The COR value is considered automatically at all measuring functions.

3.4.3 Cancelling Correction Values
- Select "COR" with the function button
- Depress measuring button
  (display = "rF --")
- Select any other function with the function button
- Correction value is cancelled, and the frame around "COR" disappears
3.4.4 Important Remarks Concerning “Correction Values“

The LUNA-STAR F2 is a precision meter calibrated with great accuracy to provide you with exact exposure data. Should you still not be satisfied with the results, then you should remember that there are other independent variables that can influence the success of your exposures:

For instance
- The "true" speed of your film can deviate from that on the pack
- The "true" shutter speeds and f-stops on your camera can differ slightly from the rated values
- Deviations can arise when the film is processed

In addition to that purely subjective factors and matters of taste in the assessment of the finished photos may be involved.

However, you can calibrate your LUNA-STAR F2 to the peculiarities of your camera, your brand of film, your processing methods, and to your projector.

We recommend the following procedure:
Take the readings of a few normal subjects with the utmost care by the reflected and incident light measuring methods, and shoot five pictures of each subject on color reversal film. The first frame should be exposed with the exposure settings supplied by the LUNA-STAR F2. The exposure settings for two of the remaining shots are then increased by half an f-stop and a full f-stop, respectively, and for the other two decreased by half an f-stop and a full f-stop, respectively. Make a note of the shooting conditions. These must not change while the five shots are being taken. Now select from the processed pictures the one you consider to be optimal and compare its settings with the meter readings. If you find that you prefer exposures that were taken with settings that differ from those supplied by the meter, then this value can be programmed into your LUNA-STAR F2.
### 4 Technical Specifications

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<td>f/1 to f/90 9/10</td>
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<tr>
<td>Dimensions</td>
<td>71 x 128 x 24 mm</td>
<td></td>
<td>approx. 120 g</td>
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<tr>
<td>Weight</td>
<td>approx. 120 g</td>
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5 Care and Service

In the event that your LUNA-STAR F2 is not working to your complete satisfaction, please send it to:

Bogen Photo Corp.
565 E. CRESCENT AVE., P.O. BOX 506
RAMSEY, NJ 07446-0506
Telephone (201) 818-9500

You will make things easier, if you return your exposure meter without any accessories, i.e. without case, carrying cord, etc.
Optional accessories to widen the scope of your LUNA-STAR F2:

5° SPOT Attachment

Reduces the measuring angle of your LUNA-STAR F2 from 30° down to 5° for reflected light measurements and enables you to accurately frame in the viewfinder the part of the subject to be measured. The 5° SPOT Attachment is suitable for both ambient and flash light measurements.

Measuring range (ISO 100/21°):
Ambient light EV + 2.5 to + 23
Flash f/5.6 to 90

(Item No. V066)

Combination Pouch

This combination pouch (Item No. V067) is available from your local dealer for ready-access storage of the LUNA-STAR F2 with mounted 5° SPOT Attachment.

(Item No. V067)
Two other state-of-the-art photo meters from the GOSSEN range:

**SPOT-MASTER 2**

1° spotmeter for
Flash
Ambient light, and
Zone system
All settings, metered values and the subject visible in the viewfinder.

**COLORMASTER 2F**

**COLORMASTER 3F**

Color temperature meter and filter determination for
Flash and
Ambient light
Direct display in mired filter and Kodak-Wratten filter values.