

**GOSSEN**



Gossen Foto- und Lichtmesstechnik GmbH | Lina-Ammon-Str. 22 | 90471 Nürnberg | Germany  
Tel: + 49 (0) 911 8602 - 181 | Fax: +49 (0) 911 8602 - 142

[www.gossen-photo.de](http://www.gossen-photo.de)

**Starlite 2**

# 3 in 1: The Universal Exposure Meter

The Starlite 2 exposure meter is a versatile, high performance instrument – it's ideally suited for all types of measuring tasks in the fields of photography, film and photometry, where maximum precision is required. With its extremely compact format, it unites three completely pre-configured ranges of functions, amongst which the user can switch back and forth quickly and easily:

## Exposure Measurement

All types of measurement for continuous illumination and flash, right on up to the zone system: Object measurement with 1° and 5° measuring angle via the viewfinder, incident light measurement by means of diffusor with spherical and planar characteristics

## Cine Meter

Full-fledged cine meter: Standard size, 180° rotary disc shutter, additionally selectable sector sizes in 5° steps, no conversion with formulas required

## Illumination / Photometry

Comprehensive measuring program: Illuminance and luminous intensity measurement with continuous illumination and flash, precise measurement of time-integral quantities

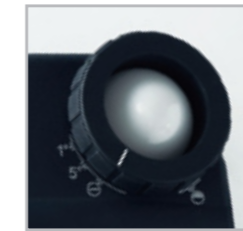


# Incident Light Measurement: Accurately Exposed Image Recordings

The Starlite 2 allows for high precision incident light measurement, which is above all interesting for portrait, object and fashion photography. It measures and analyzes light which strikes the motif, regardless of the object's reflectivity.

Complete control of lighting contrast leads to well balanced exposure results, and allows for targeted use of the available range of dynamics.

And the meter only takes illuminance into consideration, not object brightness. The user is thus able to count on obtaining correct evaluation, as well as good results, with both brighter than average and dark motifs: Optical influences which could lead to erroneous measurement data are eliminated automatically by the Starlite 2. Even objects which greatly deviate from the mean gray tone are reproduced with correct color and tonal values, as long as white balancing is correctly executed for the digital camera.



Planar Diffusor:  
for Reproductions and  
Illumination Technology



Spherical Diffusor:  
for Photography



## Ideal for Flash Measurements

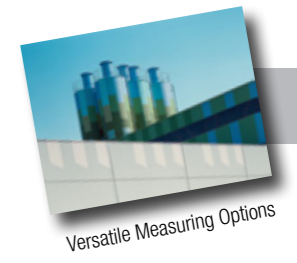
The Starlite 2 is capable of measuring individual flashes, calculating multiple flash illumination and analyzing flash and continuous illumination – even with several flash units in combination. Flash can thus be reliably assessed as a creative means, and utilized efficiently. With the help of a **multi-flash calculation**, the Starlite 2 automatically calculates the required number of flash units, if a single flash unit is inadequate for a given resolution.



Photo: Andrea D'Aquino



# Diverse Options for Professional Photography



The Starlite 2 places a broad range of options at the fingertips of the user, allowing him to consistently implement his own individual ideas regarding depth of focus and motion. Precise light values make it possible to quickly and simply compare two measurements.

**TIME SELECTION:** The measured aperture is displayed.

**APERTURE SELECTION:** Measured time is displayed.

**LIGHT VALUE:** Measured exposure value EV is displayed

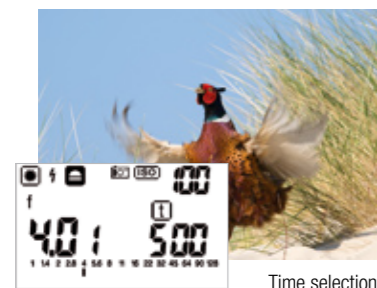
## Targeted Use of the Available Range of Dynamics – Optimized Workflow

Precise metrological analysis of both illumination and the motif make it possible for the photographer to take ideal advantage of the available range of dynamics of the recording sensor and the output media, right from the very start. Adaptation by means of frequently tedious post-processing is thus rendered unnecessary.

**CONTRAST MEASUREMENT:** from the brightest to the darkest areas of the motif with detail

**MEAN VALUE GENERATION:** based on measured values from important areas of the image

**ZONE MEASUREMENT:** Different brightness values are assigned to gray values in a defined fashion



Time selection



Aperture selection



Light value



# Object Measurement: High Precision Thanks to Additional Measuring Options

Where object measurement is concerned, the Starlite 2 evaluates light reflected from the object to the camera from the standpoint of the photographer. Motif brightness is analyzed during this process, i.e. light resulting from reflection and absorption. The measurement results are influenced alone by illuminance and object brightness which results therefrom. All types of measurement can thus be performed, right on up to the zone system.

## Effectively Produced, Perfectly Illuminated – with the Zone System

With the Starlite 2, the final visual results can be subjected to creative planning before the image is recorded: Use of an 11-stage zone system makes it possible to evaluate deviating brightness within the motif in consideration of exposure, such that adequate tonal values and detail are present even in the bright and dark areas of the motif to assure exact reproduction. As a standard feature, obtained measurement results correspond to the mean gray tone (18% reflection) in the zone V tone scale. All of the details which are important for an image recording can then be individually measured on this basis.



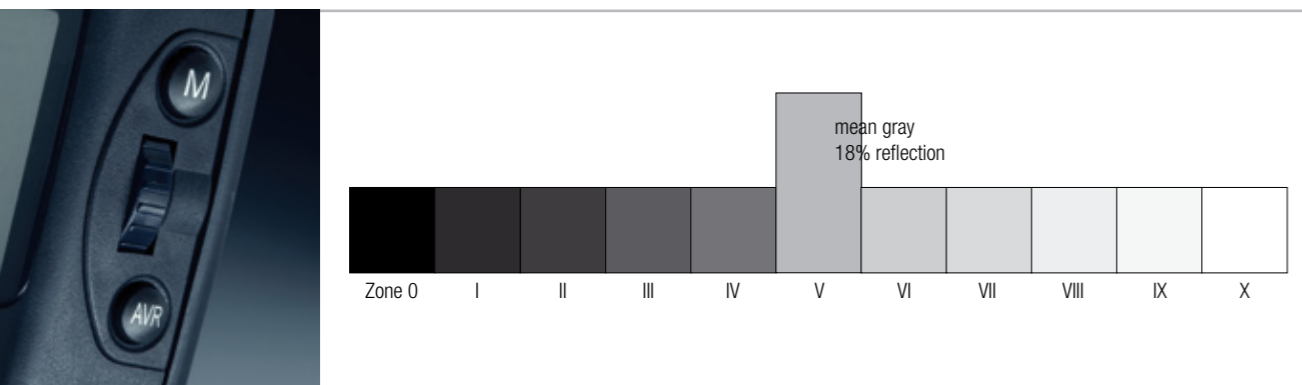
1° Via the Viewfinder



5° Via the Viewfinder



Photo: Roland Günter



## Highlights for Actual Practice



In order to assure an ideal overview at the display, currently unused functions can be cleared from the screen with the DIP switch:

For the **optimization of measuring contrast**, measurements can be performed with the Starlite 2 in accordance with the zone system with direct display of values on the zone scale.

**Standardized and Anglo units of measure** can be selected, and are read out directly: no conversion is necessary.

Exposure times for the standard series – 1/1 steps – can be changed to **1/2 values**.

In the cine meter mode, **additional speeds** can be added.

Four DIP switches in the battery compartment for selecting function ranges and displays

## Technical Data

| Digital Lightmeter for continuous illumination and flash, 270° swivel head with built-in viewfinder |   |
|---|---|
| Measuring principles  | Incident and reflected light  |
| Lightsensor   | two color corrected silicon photo diodes  |
| Incident  | Adjustable to flat or spherical diffusor characteristics  |
| Reflected   | Measuring angle adjustable 1° or 5°, viewing field 12°  |
| Measuring ranges  | Ambient<br>Incident light metering LW -2,5 to LW +18<br>Reflected light metering 5° LW 0 bis LW +18<br>Reflected light metering 1° LW 2 bis LW +18  |
|   | Flash<br>Incident light metering f/1,0 bis f/128<br>Reflected light metering 5° f/1,4 bis f/128<br>Reflected light metering 1° f/2,8 bis f/128  |
| Functions   | Brightness contrast, Subject contrast, Averaging, Zone metering, 9 memory slots each for flash and ambient, Multiple flash calculation, Readout of the share of the ambient light when flash metering, flash contrast measurement and averaging, Automatic display illumination at EV 4 or lower (10 sec.), Dual ISO, Automatic cut off after 2 minutes (Values retained in memory)   |
| Display ranges  | Photography<br>Film speeds ISO 3/6° to 8000 / 40° in 1/3 steps<br>Shutter speeds (ambient) 1/8000 s bis 60 min. in full Time Values or half TV<br>Cine-Speeds 8, 12, 16, 18, 24, 25, 30, 32, 50, 64 (2, .3, 4, 6, 36, 40, 48, 60, 72, 96, 120, 128, 150, 200, 240, 255, 300, 360)*<br>Flash sync speeds (Torzeiten) 1/1000 to 1 sec in 1 TV (1/2 TV)*<br>Apertures f/0,5 to f/128, digital in full stops + 1/10 analog in full stops + 1/2<br>Corrections, Extensions factors 1,0 to 955 VFX<br>Speicheranzeige 0 to 9<br>Analog scale f/1,0 to f/128 in AV, zone 0 to zone X |
|   | Photometry<br>Light intensity 0,5 bis 199900 lx (0,05 bis 50000 fc)*<br>Luminance 0,2 bis 30000 cd/m² (0,05 bis 9000 fL)*<br>Flash light intensity 2,0 bis 30000 lx*s (0,2 bis 3000 fc*s)*<br>Flash luminance 0,3 bis 1800 cd*s/m² (0,1 bis 500 fL*s)*  |
| Others  | Battery 1.5 V Mignon<br>Operating temperature range -10° C bis 50° C<br>Storage temperature -20° C bis 60° C<br>Dimensions Approx. 164 x 66 x 26 mm<br>Weight (without battery) Approx. 195 g   |

Accessories included: Carrying case, strap, battery, operating instructions

\* by switching over