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**State-of-the-Art Exposure Meters**

Functionality provided by GOSSEN’s time-tested SIXTOMAT F2 and DIGIPRO F2 exposure meters has been adapted to match the diversity of the latest camera systems and fulfill the requirements of analog and digital photographers and filmmakers. Individual images and video sequences can be recorded today with just a single camera, and erstwhile photographers are evolving into filmmakers and multimedia producers.

Both of these GOSSEN exposure meters have long since been faithful companions for routine daily work. They’ve now been equipped with **automatic display illumination** which is activated briefly as of an exposure value of less than 3. This makes the display easy to read in dark environments. The essential difference between the two otherwise functionally identical exposure meters is the **swivel head** included with the DIGIPRO F2, which makes it possible to lower the measuring sensor all the way down to the subject level for macro and tabletop photography. This provides for more accurate measurement results in the case of nearby light sources.

The SIXTOMAT F2 and the DIGIPRO F2 are high performance all-rounders for **analog and digital photographers** who use **continuous illumination** as well as **flash**. The light meters demonstrate their full potential by means of the **incident light metering method** which, as compared with the **reflected light metering method** used by cameras, functions independently of subject quality.

When the **shutter pre-selection** metering function is used, the desired exposure time is specified, for example in order to focus sharply on moving subjects. The exposure meter then determines the f-stop which has to be set at the camera. By pressing and holding the metering key and scanning the subject in this mode, the **contrast range** if displayed at the f-stop scale in f-stop values. When the **aperture pre-selection** metering function is used, the desired
f-stop is specified, for example in order to set the depth of focus. The exposure meter then determines the required exposure time. With the **exposure value** measuring function, the exposure value as well as **various f-stop / shutter speed combinations** are displayed. The adjustable **correction value** is then expanded to + 9.9 so that large extension factors for neutral-density filters can also be set for time exposures in daylight.

With **flash exposure metering**, it’s possible to work either with or without a synchronizing cable. The exposure meter determines the corresponding aperture for correct exposure using the preset flash sync time and displays it as a digital value, and as a flashing point on the analog aperture scale. Furthermore, a marking is continuously displayed for the aperture of the continuous light component, making it possible to estimate the continuous light proportion of total light. If flash power is insufficient to reach a selectable f-stop setting, the exposure meter can calculate the required number of **multiple flashes** to this end.

The **CINE mode** included with the SIXTOMAT F2 and the DIGIPRO F2 has been adapted to digital cinematography and expanded to include the required **film speeds** within a range of 8 to 96 fps. Compensation for **shutter angles** which deviate from 180° is made possible by entering a calculated correction value.

The exposure value function of both exposure meters has been expanded to include simple measurement of **illuminance in lx or fc** for setting up **film lighting**.

In the **HD CINE mode** included with the SIXTOMAT F2 and the DIGIPRO F2, durations ranging from 1/24 to 1/120 of a second are made available in a targeted fashion, corresponding to frame rates of 24 to 120 fps. In order to do justice to modern HD cameras, the ISO setting has also been expanded to include the value of ISO 850.

Further information is available at [www.gossen-photo.de](http://www.gossen-photo.de).

Images:

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