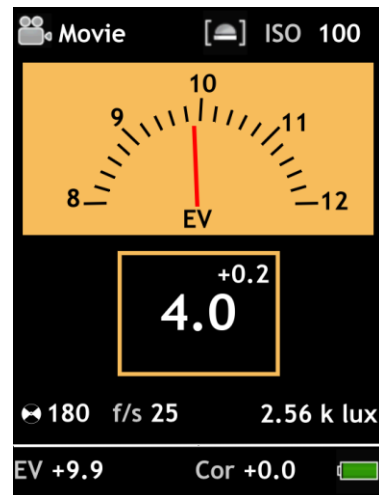
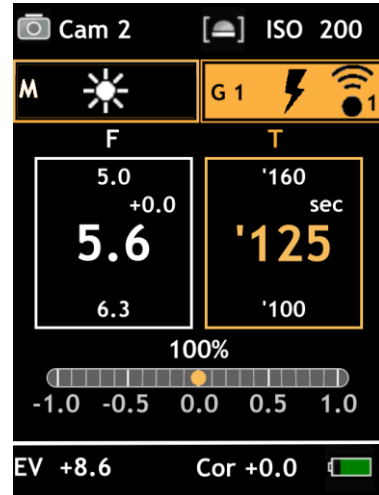


DIGISKY

Exposure Meter for Flash and Ambient Light

15477CD-V1.18 04/03.14



Thank you for selecting this state of the art **GOSSEN** product.

Please check that the exposure meter and accessories as detailed below are included in the box. If the contents are incomplete, please contact your local dealer.

- DIGISKY Meter
- V070A rechargeable battery
- Power supply and USB cable
- Carrying strap
- CD (includes operating instructions)
- Quick-start Guide

Your **DIGISKY** is a top quality instrument from GOSSEN's product range, and provides you with a precision multifunction exposure meter. **DIGISKY** is designed for ambient light, flash light, illuminance and luminance measurements and also incorporates a "Cine" function for use in modern movie making. The clear, bright TFT LCD colour screen provides an instant, easy-to-read display in any mode, whatever the ambient conditions, while the large controller ring and selector button make for simple and quick one-handed operation. State-of-the-art microprocessor technology in the **DIGISKY** allows decades of GOSSEN light-measuring experience to be presented in an integrated, compact, lightweight and user friendly product.

Key **DIGISKY** features

- Colour Graphic Display
- Built-in rechargeable battery
- Digital display in one tenth, one third, half and full f-stop increments
- Up to 3 user defined pre-selectable configurations
- Incident light measurement with retractable diffuser: flat/spherical
- Contrast measurement
- Reflected light measurement
- Flash measurement (cord / non-cord / radio)
- Display of ambient light component
- Flash analysis
- Radio trigger for Elinchrom „Skyport/Skyspeed“, Phottix „Strato II“ and Broncolor “RFS 2.1”
- Radio control for Elinchrom „Skyport/Skyspeed“ and Broncolor “RFS 2.1”
- Storage of setting values and measured values
- Setting of correction values
- Special cine meter, setting options for sector angles of other than 180°, with no conversion formulas required
- Photometry
- Measurement of illuminance and luminance

Preparation for use

Please ensure that you are familiar with the operation of your meter and that it is providing consistent, accurate exposures before you commit to photographing any unrepeatable material. We recommend you always carry out test exposures prior to final image capture. GOSSEN assumes no liability for consequential damages.

Copyrights

- GOSSEN, DIGISKY are trademarks of GOSSEN Foto- und Lichtmesstechnik.
- Adobe is a trademark of Adobe Systems Corporation.
- Windows is a registered trademark of the Microsoft Corporation of the United States of America in the USA and other countries.

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Users of **Elinchrom „RX- and BX flashes“** are recommended to use the **DIGISKY software version 2.xx** which include the enhanced radio control functions for flash heads power control. The software, update program and update instructions can be downloaded from the GOSSEN website (www.gossen-photo.de).

The specific functionality is described **in part 2 of the operating instructions - Additional “Elinchrom” Radio Control** which is also available on the GOSSEN website and can be downloaded as well.

Safety Precautions

Please read these safety precautions carefully before using your exposure meter. This will help you to avoid damaging the product and prevent personal injury.



This icon identifies important warnings which should be read in any case before the initial start-up of your GOSSEN product.

Warnings



In the event of malfunction, switch off the exposure meter immediately.

If the event that smoke develops or unusual odors become apparent, which are caused by either the exposure meter or the power supply, disconnect from mains power immediately and remove the rechargeable battery from the meter in order to prevent possible fire. Continuing to operate the exposure meter or the power supply after such malfunctions have occurred may result in severe injury. Please contact your local dealer or GOSSEN-Service in order to eliminate malfunctioning. If you bring or send the meter in for repairs, make sure that the rechargeable battery has been removed first.



Never use the exposure meter in proximity to flammable gases.

Electronic devices must not be used near flammable gases. Otherwise there would be danger of explosion and fire.



Never hang the meter and/or the carrying strap around the head or neck of a child.

Danger of strangulation exists if the carrying strap is hung around the head or neck of a child.



Store the exposure meter at a location which cannot be accessed by children.

The exposure meter and its accessories include parts which can be swallowed. Make sure that these parts (e.g. housing covers, rechargeable batteries etc.) do not fall into the hands of children who might swallow them. Otherwise, danger of suffocation prevails.



Use suitable cables only.

Use only the included, original GOSSEN cables for connection to external devices. GOSSEN assumes no liability if other cables are used.



Do not dismantle the exposure meter.

Never touch any parts located inside of the housing – injury may result. Never attempt to repair the meter yourself or try to open the meter. Repairs may only be made by qualified personnel. If the meter's housing is damaged due to dropping or other external influences, remove the rechargeable battery or power supply and contact your local dealer or GOSSEN-Service for repair.



Avoid any and all contact with liquid crystals.

If the display is damaged (e.g. broken), danger of injury due to contact with glass shards or discharge of liquid crystals exists. Make sure that skin, eyes and mouth do not come into contact with the liquid crystals.

CD ROMs

The CD ROMs included with your exposure meter contain relevant documentation and software. These CD ROMs cannot be played with an audio CD player, because they do not contain any audio files. When CD ROMs are played with an audio CD player, interference signals may be generated which lastingly damage human hearing or the audio components of your stereo system.



Handle rechargeable batteries with care.

Rechargeable and normal batteries may leak or explode if handled incorrectly. Please adhere to the following safety precautions:

- Make sure that the exposure meter is switched off before removing or inserting rechargeable batteries. If the exposure meter is used with a power supply, then, first of all, the power supply must be disconnected (pull the mains plug out of the electrical outlet).
- Only use the rechargeable batteries which are recommended for this meter.
- Make sure that the rechargeable battery is inserted correctly.
- Never short-circuit rechargeable batteries, and never attempt to open a rechargeable or a normal battery.
- Do not expose the rechargeable batteries to excessive heat or open flames.
- Do not expose the rechargeable batteries to moisture; never immerse rechargeable batteries in water.
- If the meter is not used regularly, remove the rechargeable battery and close the battery compartment cover
- Never store rechargeable batteries together with metallic objects which might cause short-circuiting.
- Danger of leakage exists, especially in the case of empty rechargeable batteries. In order to prevent damage to the exposure meter, rechargeable batteries should be removed when fully depleted or in case of lengthy periods of non-use.
- When not in use, rechargeable batteries should be stored in a cool place.
- Rechargeable batteries heat up during use and may become hot. Be careful not to burn yourself when removing rechargeable batteries. Switch the exposure meter off or wait until it has shut itself down, and then wait a bit longer until the rechargeable battery has cooled down.
- Do not use rechargeable batteries which show any signs of damage such as discoloration or deformation of the housing.

Notes

- Reproduction of product documentation or duplication of any excerpts from the same requires the express consent of GOSSEN Foto- und Lichtmesstechnik GmbH. This also applies to duplication in any electronic format and translation into other languages.
- Documentation is subject to change without notice.
- GOSSEN assumes no liability for damages resulting from incorrect use of the product.
- Documentation for your GOSSEN exposure meter was prepared with the greatest of care. If you should nevertheless discover errors, or if you would like to suggest any improvements, GOSSEN would be very pleased to hear from you. (The address of your local GOSSEN representative is listed separately.)

Icon for separate collection of recyclable materials / hazardous waste in European countries



This icon indicates that this product must be disposed of separately.

The following must be observed by users in European countries:

- This product may only be disposed of separately at a designated collection point. It may not be disposed of with household trash.
- For further information contact your local dealer or waste disposal authorities.

The following icons are used in order to make it easier to find additional information:

!!	Important safety precautions: Please read these safety precautions before using the exposure meter in order to avoid damaging your DIGISKY.
!	Important information which you should also read before using your DIGISKY
i	Notes: additional, useful information regarding use of your DIGISKY
↪	Reference to other information included in these operating instructions
M	Individual functions which can be configured in the menu

Meter Overview



1 Preparation

The DIGISKY works with a device-specific, rechargeable lithium-ion battery. Use the V070A rechargeable battery and the USB battery charger included with the exposure meter.

1.1 How to Insert the Rechargeable Battery

Switch your DIGISKY off or wait until the exposure meter is switched off automatically. Unscrew the battery cover at the back of the meter with a (Philips) recessed head screwdriver, and then pull it down and out of the housing.

Insert the battery into the compartment as shown in the figure. Make sure that the battery is inserted with correct polarity (+ and -)! Then place the battery cover over the battery compartment and secure it with the screw.



1.2 How to Charge the Battery

Connect the cable to the USB port at the exposure meter first, and then insert the mains plug into an electrical outlet.



The battery can also be charged using a USB port at a PC. Remove the mains plug to this end, and connect the USB plug to your PC.

The DIGISKY can be operated with an inserted battery, and while connected to a PC or to mains power.

Proceed as described in section 1.1, “**Inserting the Rechargeable Battery**”, in order to replace the battery.

To protect the battery pack and prolong its life, do not charge it for longer than 24 hours without break.

Replacement battery: GOSSEN order no. **V070A (3.7 V / 890 mAh)**

1.3 Factory Settings

Amongst others, the following default settings apply during initial start-up of the DIGISKY:

ISO 100
Language English
EV steps 1

User defined settings can be entered via the **main menu** (see page 23).

2 The Display Panel (Function Menu)

2.1 The Display Panel and Its Elements

2.1.1 Photography

Measuring Functions	
	Ambient light, f-stop preset
	Ambient light, time preset
	Flash, cord / non-cord
	Flash, radio
	Up to 40 groups and 40 studio channels (depending on radio system)

User	
	Cam 1
	Cam 2
	Cam 3
	Movie

Retractable diffuser head	
	Spherical incident light measurement
	Flat incident light measurement
	Reflected light measurement

ISO	
	3 to 32,000

Measured Values	
F	F-stop values: 0.5 to 128
T	Time values: 1/8000 s to 30 m

Analog Display (bar graph)	
Ambient light	Measured value conditioning
	Contrast display
Flash light	% flash

Battery / Mains / Data	
	Battery full
	Battery partially charged
	Battery nearly depleted: charge battery
	Charging/operation via cable
	Data exchange, mains operation

Exposure Value (EV)	
EV	-2.5 to +18.5

Correction Value	
Cor	0.0 +/- up to max. 15.0

2.1.2 Cine

Analog EV Display, Dynamic	
	From EV0 to EV19

Film Speed in f/s	
	From 2 to 1000

Sector Angle	
	From 45 to 315

Measured Value	
	F-stop with measured value correction
	Photometric values

Illuminance Luminance	
Metric	Lux or cd/m ²
British	fc or fL

2.2 Display ON-Time

If none of the keys on the DIGISKY are activated for a period of approximately 30 seconds, the display panel is switched off automatically (standby), i.e. the display turns blank but measured values and individual settings are stored.

- Stored values can be displayed by pressing any key or adjusting the retractable diffuser head.
- The values from the last measurement are stored until a new measurement is performed.

M

Options for selecting other display on-times can be found in the menu:
Menu – Settings – Display Off (see page 27).

2.3 Meter Status

The status of the meter is indicated by means of LEDs.



Right LED	Yellow, blinking	The DIGISKY is on, and if the display is switched off (standby) it can be reactivated by pressing any key.
	Off	The DIGISKY is in the sleep mode. It can be reactivated by pressing the measurement key (M).
Left LED	Red	Battery is charging
	Green	Battery is charged

3 The Retractable Diffuser Head Spherical Diffuser, Incident Light Measurement, Flat Diffuser, Off

The retractable diffuser head is DIGISKY's control centre and permits easy operation and practical work procedures.

!!

Caution!
Never attempt to circumvent the interlocking mechanism by turning the retractable diffuser head with force. This may result in a broken diffuser control unit!

The following measurement types can be selected with the diffuser ring surrounding the retractable diffuser head:



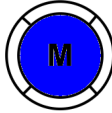
4 Keys

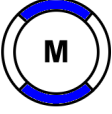
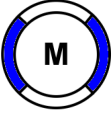
Data
DATA
Switch amongst flash groups
Radio menu Elinchrom (V2.xx) (if radio module is activated)
Contrast measurement: indicated values: average value, minimum value, maximum value







Functions
MENU
Switch between ambient light and flash
Menu
Open menu
Exit menu

! After switching the meter on, the settings used for the last working cycle are displayed.



Measurement key

Measure: Press measurement key briefly.
Contrast measurement: Press and hold measurement key.
Main menu: Acknowledge changes.
Device in sleep mode: Switch device on.

Ring Controller (Continuous key function on permanent strike)		
	Up	Turn marking up. Increase values
	Down	Turn marking down Decrease values
	Left	Switch between f-stop and time preset Up one menu level
	Right	Switch between f-stop and time preset Display submenu




Data and Ring Controller (RF - group and modeling light switchover)		
Use DATA and Ring Controller	 → 	Up Group „plus“
		Down Group „minus“
Use DATA and Ring Controller	 → 	Left Modeling light „off“
		Right Modeling light „on“
Use DATA and Measurement key	 → 	Returns from each group to the function „all flashes“ Elinchrom – All / broncolor - ST

5 How to Use the DIGISKY

5.1 Incident Light and Reflected Light Measurement

The DIGISKY has been designed for highly motivated amateurs, as well as for professional use.


The retractable diffuser head is laid out as an “optical control centre”, where the following measuring modes can be selected:

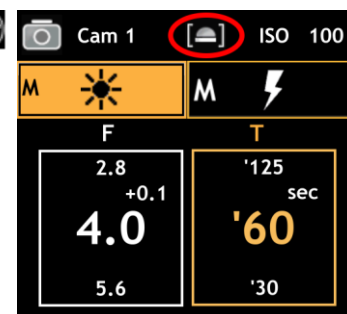
-  Incident light measurement, diffuser up: spherical measuring characteristic
-  Reflected light measurement with 20° measuring angle
-  Incident light measurement, diffuser down: flat measuring characteristic



In practice the meter can be set-up for all metering methods as shown.


5.1.1 Incident Light Measurement - Spherical Diffuser

Set the diffuser ring surrounding the retractable diffuser head to “diffuser up”  for this measurement. The corresponding icon appears at the display.

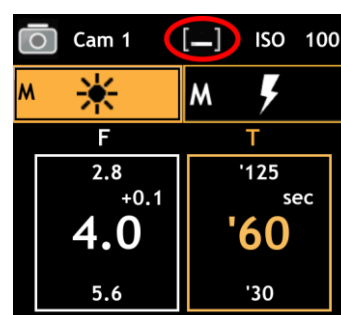


i The incident light reading delivers results with the highest precision. The DIGISKY measures **incident light falling on the subject from the camera / main light** with its spherical diffuser when using this metering method. As a result, reproduction with the correct tonal values, true to the subject is assured. This is particularly important for subjects that are intrinsically bright or dark. Also, in difficult recording situations – such as capturing high-contrast subjects - this metering method is considerably more reliable, delivering correctly exposed, professional quality exposures.

5.1.2 Incident Light Measurement – Flat Diffuser


Set the diffuser ring surrounding the retractable diffuser head to “diffuser down”  for this measurement. The corresponding icon appears in the display.

The lowered diffuser with flat measuring characteristic is suitable for reproductions, flash contrast, measurements for lighting technology and for movie applications.

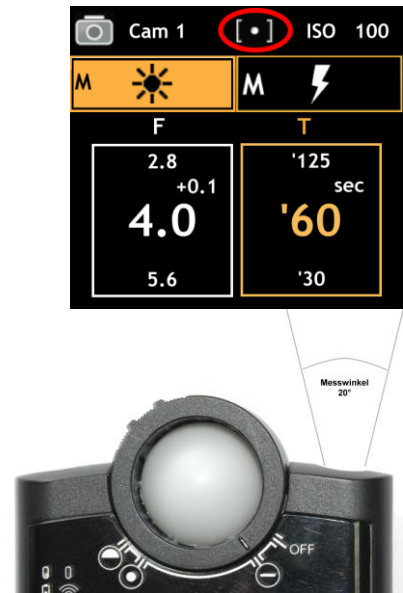


i For reproductions, flash contrast, measurements for lighting technology and for movie /video applications

5.1.3 Reflected Light Measurement

Set the diffuser ring surrounding the retractable diffuser head to “Reflected light measurement”  for this mode. The corresponding icon appears in the display.

i Only light reflected by the subject is measured. When this metering method is used, results are always dependent on reflection from the subject! This means, for example, that intrinsically bright subjects will be reproduced darker, and not as precisely exposed as with the incident light method. When employing this metering method, the use of a suitable grey card (18% coefficient of diffuse reflection) will help to deliver consistent results.

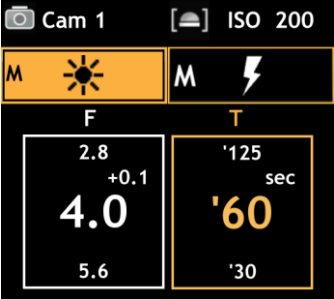


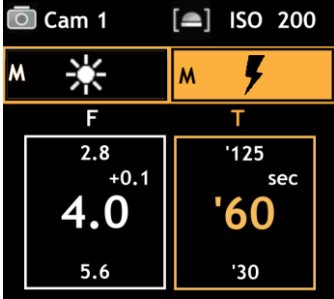



6 Functions Menu – Measuring/Operating Modes Mode Selection: Ambient Light – Flash Light

DIGISKY can be switched on using any key. All measuring and operating modes are instantly available.

If none of the meter modes are activated for a period of time, the meter will be switched into standby mode, and subsequently into sleep mode (setting option in **Menu – Settings – Display off** or **Power Off**, see page 27). The DIGISKY can only be switched on from the sleep mode by pressing the measurement key (**M**).

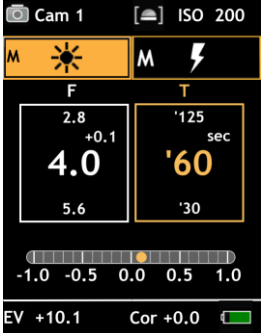
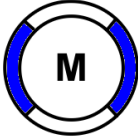
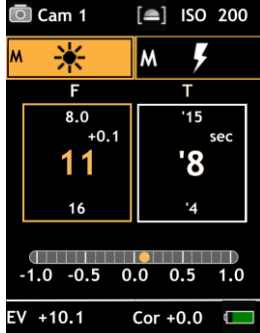
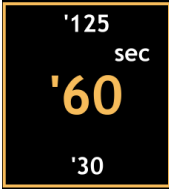
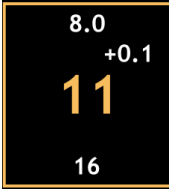
Function Selection: Ambient light – Flash light

 <p>Active: ambient light reading mode</p> 	<p>Use the menu key ...</p>  <p>to select a function</p>	 <p>Active: flash mode</p> 
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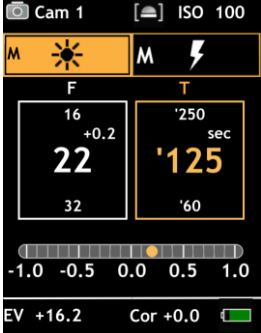
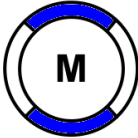
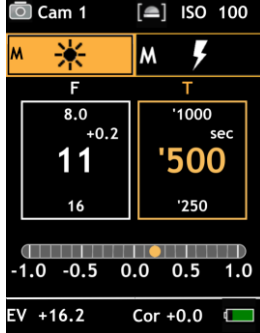
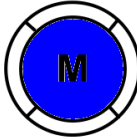
M Measured f-stop increments (1 EV, 1/2 EV, 1/3 EV) can be adapted as required by the user in **Menu – User (Cam 1, Cam 2, Cam 3, Cine) - EV Steps** (see page 25).

i The DIGISKY works with f-stop increments of 1/10 each. Measured correction values for the display value are specified in 1/10 f-stops depending upon your **EV Steps** setting.

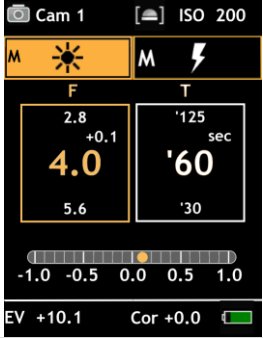
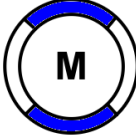
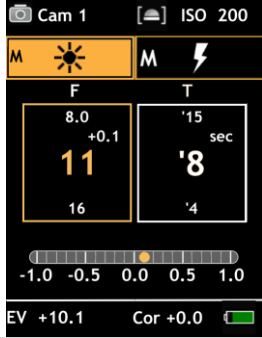
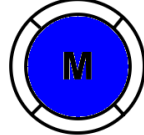
6.1 Ambient Light Adjust Time / F-Stop Preset Measurement


Time Preset		F-Stop Preset
	<p>Use the ring controller ...</p> 	
 <p>Active: time preset</p>	<p>to adjust time/f-stop preset.</p>	 <p>Active: f-stop preset</p>

6.1.1 Ambient Light Reading - Time Preset Measurement

	<p>Use the ring controller ...</p> 	
<p>Press the measurement key to perform measurement.</p> <p>Press and hold the measurement key to activate contrast measurement.</p>	<p>to select the desired time.</p> 	

6.1.2 Ambient Light Reading – F-Stop Preset Measurement

	<p>Use the ring controller ...</p>  <p>to select the desired f-stop.</p>	
<p>Press the measurement key to perform measurement. Press and hold the measurement key to activate contrast measurement.</p>		

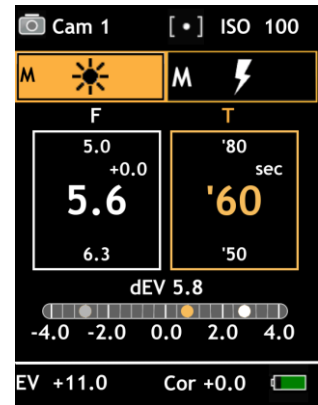
<p>i</p>	 <p>Range</p>	<p>Warning in Case of Exceeded Display Range Measurement has been performed outside of the display range (an exposure value appears at the display). Use the ring controller to switch to the display range.</p> <p>EV OVR Measurement has been performed outside of the measuring range. There are no usable results – EV display: OVR. Too bright or too dark during measurement. Change conditions and measure again. See also Technical Data – Measuring Range on page 31.</p>
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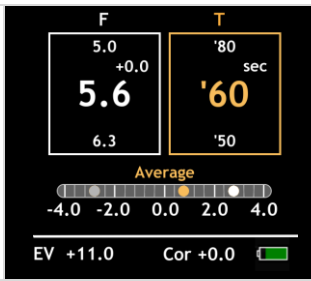
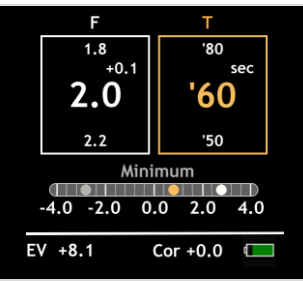
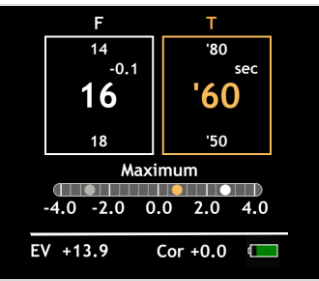
6.1.3 Ambient Light Reading – Contrast Measurement

Contrast can be measured with the DIGISKY by using the f-stop and time preset functions. In order to measure contrast, press and hold the **M** key and aim at the point of the subject to be measured.

The first measured value appears in the digital display. It remains for the duration of the entire measurement as a reference value (e.g. gray card measurement). The momentary measured value is indicated on the analog scale. After releasing the **M** key, the measured subject contrast appears on the analog scale. Subject contrast is indicated in light values as **dEV**.

The average, minimum and maximum values can be displayed one after the other by pressing the data key.



<p>Use the data key ...</p> <p>DATA</p> <p>to display the average, minimum and maximum values one after the other.</p>			
---	---	--	---

6.2 Flash Light Reading – NonCord / Cord / Radio

Flash measurement is possible with all diffuser settings (incident light or reflected light measurement).

Flash can be measured with or without a synchronizing cable, and with radio triggering (cord, non-cord, radio). If a cord or radio trigger is used, the flash will be triggered and measured automatically by the **M** key.

M

Radio trigger is activated in **Menu – User (Cam 1 to 3) – RF Module** and **RF Channel**, adapted to the respective user (see page 26).

!



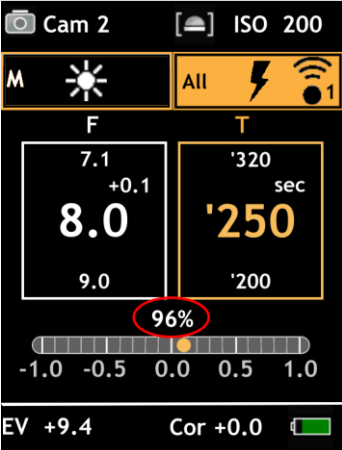
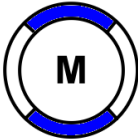
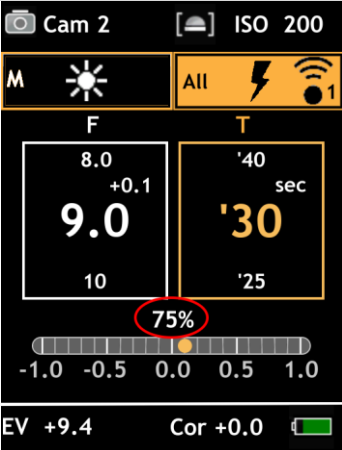
Cable

In order to trigger your flash unit with the measurement key (**M**), connect it to the DIGISKY using your flashgun's cable.



6.2.1 Flash Light Reading – Measurement

	<p>Use the ring controller ...</p>	
<p>to select the desired synchronization speed.</p>		
<p>Press the measurement key to perform measurement.</p>		
<p>Non-Cable</p>	<p>The flash is on standby for roughly 45 seconds. The flash unit must be triggered manually during this time. Readiness for measurement is indicated with an icon and Waiting in the “f-stop window”.</p>	
<p>Waiting</p>		
<p>Cord</p>	<p>Flash is triggered.</p>	
<p>Radio</p>		
	<p>Radio Use the data and the ring controller</p>	
<p>to select flash groups All / ST G1 to G4 (Elinchrom) A to D (Phottix) LP 1 to LP40 (Broncolor)</p>		

6.2.2 Flash Light Reading – Analysis

 <p>Cam 2 [] ISO 200</p> <p>M [] All []</p> <p>F 7.1 +0.1 8.0 9.0</p> <p>T '320 '250 '200</p> <p>96%</p> <p>-1.0 -0.5 0.0 0.5 1.0</p> <p>EV +9.4 Cor +0.0</p>	<p>Use the ring controller ...</p>  <p>to select synchronization speed and analyze flash component. Flash component is displayed as a percentage.</p>	 <p>Cam 2 [] ISO 200</p> <p>M [] All []</p> <p>F 8.0 +0.1 9.0 10</p> <p>T '40 '30 '25</p> <p>75%</p> <p>-1.0 -0.5 0.0 0.5 1.0</p> <p>EV +9.4 Cor +0.0</p>
---	--	---

i The ratio between flash and ambient light can be influenced by changing synchronization speed. This is interesting for brightening up the image with flash, or when ambient light is not desired.

!	Warning in Case of User Error	
	A warning may be caused by any of the following conditions.	
	<ul style="list-style-type: none"> • General: 	<p>Measurement has been performed outside of the measuring range. There are no usable results – EV display: OVR. Flash was too bright or too weak. Change conditions and measure again. See also Technical Data – Measuring Range on page 31.</p>
	<ul style="list-style-type: none"> • NonCord 	<p>Time out – Flash was not triggered during “<i>flash standby time</i>”.</p> <p>Break – Flash standby time was stopped by pressing the measurement key.</p>
	<ul style="list-style-type: none"> • Cord: 	<p>The synchronizing cable was not connected. The synchronizing cable is defective and must be replaced.</p>
	<ul style="list-style-type: none"> • Radio: 	<p>No flash regardless of setting: Check menu settings. RF module - RF channel on page 26.</p> <p>Flash is only triggered in the “All” setting. The menu settings are correct – please select the right group.</p>

i Please note that some flash units must first be triggered once when set to lower power levels. Stored power is still at the higher level, resulting in erroneous measurements.

6.2.3 Flash Light Reading – Radio Trigger Settings

The DIGISKY supports radio trigger for the following listed flash models or flash trigger kits:

- Elinchrom
 - Skyport / Skyspeed
 - Universal / BX / RX / also US versions (110V)
- Phottix
 - Strato II – compatible with Strato and Atlas II
- Calumet
 - Calumet Pro Series – compatible with Strato II mode
- Broncolor
 - RFS 2.1 – compatible with Scoro S and E, 1600 and 3200

Preparations:

To achieve a correct communication, all modules and devices have to be set on the studio channel and the same radio type.


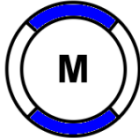

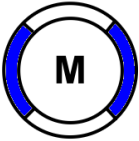
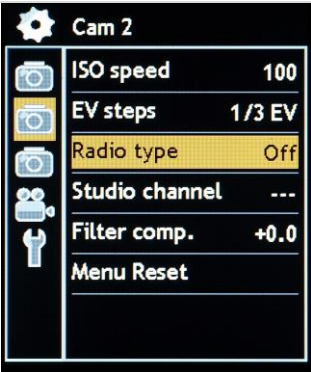
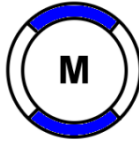
Please consult the instructions from the manufacturer of your equipment.

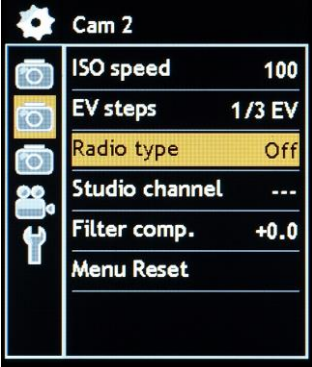
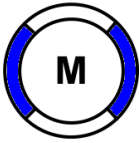


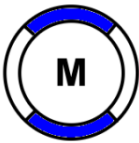
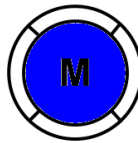


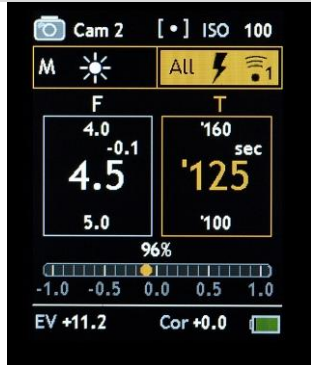
Selecting radio type and studio channel

Press the menu key (long)

MENU

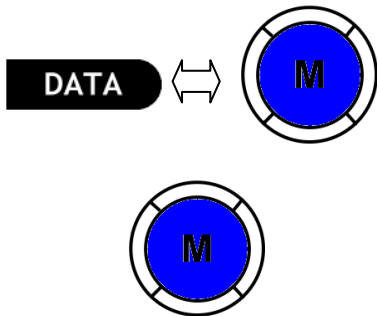
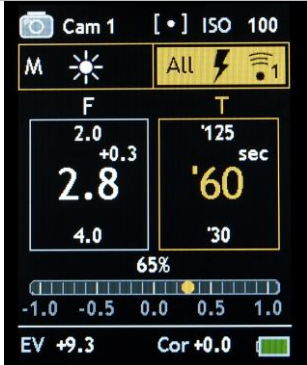
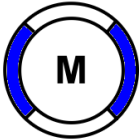
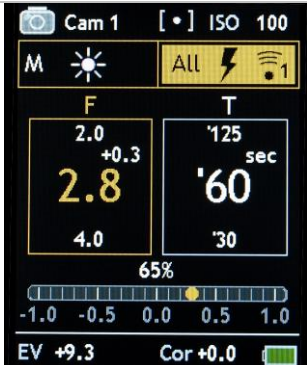
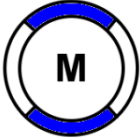
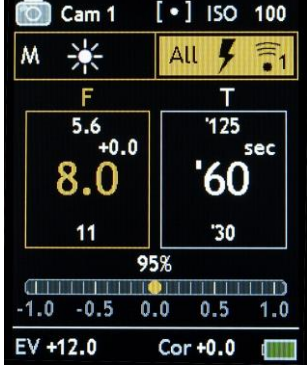
to open the main menu

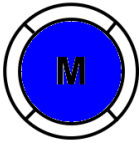
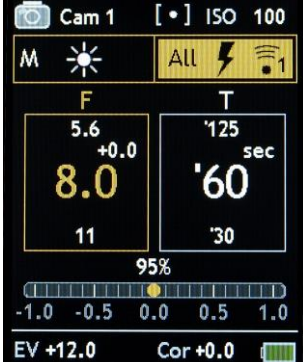

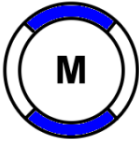
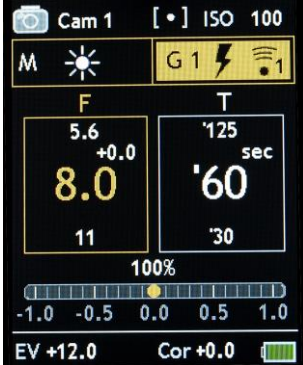

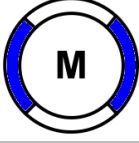
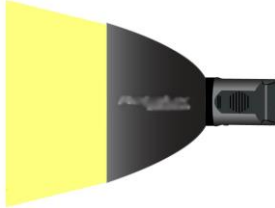

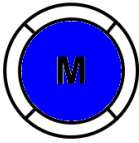
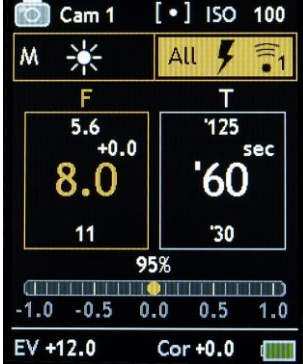
	<p>Use the ring controller ...</p>  <p>to select the user Cam1 - Cam2 - Cam3</p>	
<p>Use the ring controller ...</p>  <p>to navigate into the user settings</p>		<p>Use the ring controller ...</p>  <p>to select submenu Radio type, Studio channel</p>

	<p>Use the ring controller ...</p>  <p>to select the desired module</p>	
	<p>Use the ring controller ...</p>  <p>to select the desired type</p>	<p>Press the measurement key</p>  <p>to confirm the selection</p>
<p>After selecting the desired Radio type it is necessary to select the used studio channel in the same way.</p> <p>Please pay attention that you confirm your selection with the measurement key.</p>		
<p>At least you should switch on your radio trigger modules now!</p>		
<p>Use the menu key ...</p>		
<p>to go to the functions menu</p>		
<p>i Users of Elinchrom „RX- and BX flashes“ are recommended to use the DIGISKY software version 2.xx which include the enhanced radio control functions for flash heads power control.</p> <p>This functionality is described in part 2 of the operating instructions - Additional “Elinchrom” Radio Control.</p>		

6.2.4 Flash Light Reading – Radio Power and Modeling Light Control

Additionally to the radio trigger function of the DIGISKY the power of elinchrom RX and BX series flashes, as well as the broncolor Scoro series S and E can be controlled. The modeling light can be switched also.


Please check first if all flashes / modules are on and set on the same RF channel that you have selected		
<p>Use the data and the measurement key to select flash group All</p> <p>Use the measurement key to trigger the flashes</p>		
<p>All flashes should have triggered now.</p> <p>If not all flashes / modules have been triggered please check again your settings according</p> <p>6.2.3 Flash Light Reading – Radio Trigger Settings</p>		
<p>Use the ring controller to select f-stop</p>		
<p>Use the ring controller to change the power in 1/10 steps</p>		
<p>i</p>	<p>In bright surrounding light condition it may be that the changing of the flash head power by e.g. one exposure value doesn't influence the measurement by one exposure value. The power setting only influences the part of the flash and not the surrounding light which remains unchanged.</p>	
<p>i</p>	<p>If the flash power is changed in total or for one group a new measurement series is necessary. The DIGISKY do not recalculate all values. The measurement values shown by the DIGISKY for the complete flashes (All /ST) or of a single group represent the values of the last measurement!</p>	

<p>Use the measurement key to measure and check the new power settings</p>		
<p>Use DATA key and ring controller</p> <p>Flash groups All / ST G1 to G4 LP 1 to LP40</p> <p>select</p>	 <p>+</p> 	
<p>Use DATA key and ring controller</p> <p>Modeling light on/off</p>	 <p>+</p> 	
<p>Use DATA and measurement key</p> <p>Returns to All / ST</p>	 <p>+</p> 	
<p>After measuring and setting all groups you can step through the values of the separate groups by using the DATA key and ring controller.</p>		
<p>Setting All / ST - Modifications will be accepted by all devices</p> <p>Setting group - Modifications will be accepted by the devices linked to the selected group.</p>		

7 Cine Function / Photometry





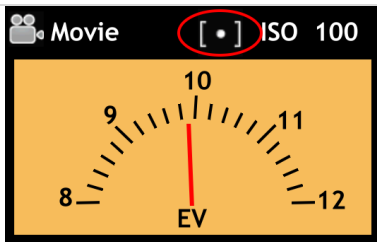
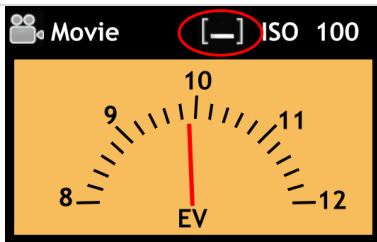
7.1 The Retractable Diffuser Head

Your DIGISKY is a top quality cine meter. The photometry mode is activated at the same time as the Cine function.

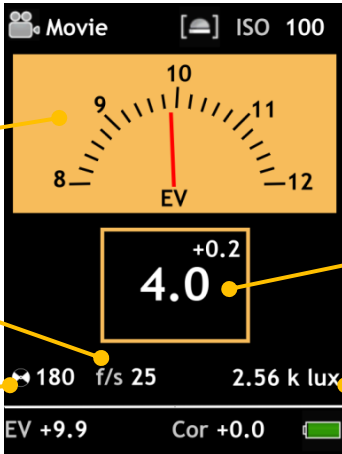
 **Cine Meter / Photometer**
 In order to use the DIGISKY as a cine meter / photometer, the corresponding function has to be activated in **Menu – Movie** (see description on page 25).

The following measurement modes can be selected by the diffuser ring surrounding the retractable diffuser head:



Selecting the mode of measurement by the retractable diffuser head		
Light measurement, spherical diffuser 	Reflected light measurement, 20° measurement angle 	Light measurement, flat diffuser 
		

7.2 The Display Panel



Analog EV Display, (dynamic)
From EV2 to EV19

Film Speed in f/s
From 2 to 1000

Sector Angle
From 45 to 315

Measured Value

F-stop	From f0.5 to F128
Photometry	lx / cd/m ² fc / fL

Illuminance Luminance

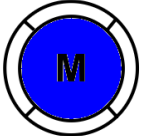

metric	lux or cd/m ²
british	fc or fL

M

The following setting options are available in the menu:

ISO speed	From ISO 3 to 32000
EV steps	1/1 – 1/2 – 1/3
Cine speeds	From 2 to 1000
Shutter angle	From 45 to 315
Photometry	metric – british
Filter comp.	0.0 +/- up to max. 15.0




7.3 Cine – Measurement

	<p>Press the measurement key to perform measurement.</p>  <p>Or: Press and hold the measurement key for continuous measurement.</p>	
<p>DATA</p>	<p>Use the data key to display average, minimum and maximum values for continuous measurement, one after the other.</p> <p>Average - Minimum - Maximum</p>	
	<p>Use the menu key ...</p>  <p>to switch between f-stop and photometry values.</p>	

8 Main Menu


This chapter expands upon previous modes and explains the different options, default settings and presets offered by the DIGISKY.

8.1 Overview

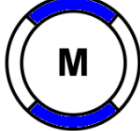
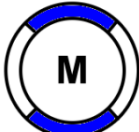
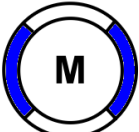
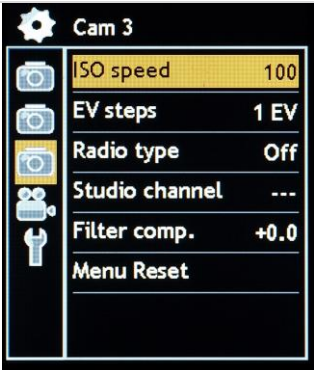
Description	Menu	Submenu	Description
 Exposure meter Up to 3 user-presets can be set up and configured.	Cam 1	ISO speed	Film sensitivity
	Cam 2	EV steps	Measured value resolution
	Cam 3	Radio type	Type of radio module
		Studio channel	Radio channel selection
		Filter comp.	Filter value
		Menu Reset	Reset Menu - user
		Movie	ISO speed
 Film Exposure Meter	Movie	EV steps	Measured value resolution
		Cine speeds	Film speed
		Shutter angle	Sector angle
		Photometry	Measured value unit of measure
		Filter comp.	Filter value
		Menu Reset	Reset Menu - user
		 Device Default Settings	Settings
Display off (s)	Time to "display off"		
Power off (s)	Auto. shutdown		
Language	Country code		
Information	Device and user information		
Restart defaults	Default values - Reset all settings		


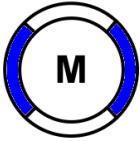


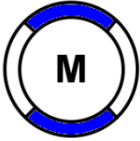
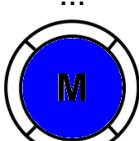


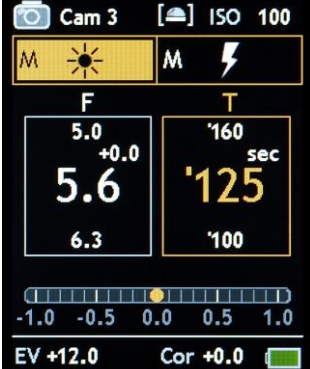
8.2 Navigation – Setup

Press and hold the menu key ...



to open the main menu.

 <p>Use the ring controller ... to select the desired menu.</p>		 <p>Use the ring controller ... to select a submenu.</p>
 <p>Use the ring controller ... to navigate user settings.</p>		

	<p>Use the ring controller ...</p>  <p>to display values.</p>	
	<p>Use the ring controller ...</p>  <p>to select the desired value.</p>	<p>Use the measurement key ...</p>  <p>to acknowledge.</p>
	<p>Use the menu key ...</p>  <p>to exit the main menu at any time.</p>	

8.3 User Settings

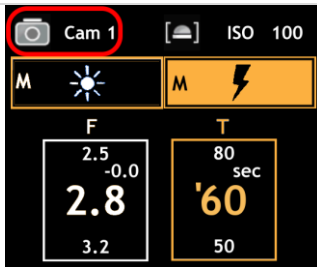


All values which are changed on the DIGISKY are reflected in the measurement results!



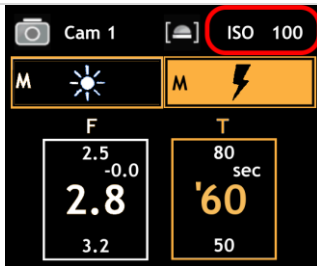
Changed user settings appear in the function display.

8.3.1 User Selection



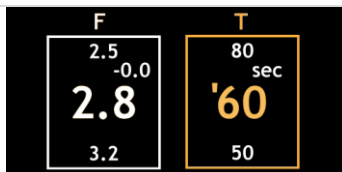
The selected user pre-set appears on the display. One of the following users can be selected: **Cam 1**, **Cam 2**, **Cam 3** or **Movie**.

8.3.2 ISO Speed Setting Film Speed



The film speed can be selected in steps of 1/3 from **ISO 3** to **ISO 32000**.

8.3.3 EV Steps Gradation



F-stop and time series can be gradated in accordance with your camera in steps of **1 EV**, **1/2 EV** and **1/3 EV**. This setting influences the f-stop and time series on the display.

8.3.4 Radio type (Photo Only) Type Setting



Assuming your device is compatible (see technical data or refer to your local dealer), your flash receiver / flash unit can be triggered and controlled directly by the DIGISKY. You can select between:
Off / Skyport (Elinchrom) / **SkySpeed** (Elinchrom) / **Strato II** (Phottix), **RFS 2.1** (Broncolor)

8.3.5 Studio Channel (Photo Only) Channel Setting



Up to 40 channels according manufacturer specifications are available. They make it possible to isolate several sets of image recordings from each other.

i Further informations for the operating of the elinchrom radio system are described in part 2 of the operating instructions - Additional "Elinchrom" Radio Control.

8.3.6 Filter Compensation Filter Value - Setting Correction Values



Known deviations can be programmed into the default setting of the DIGISKY as part of your workflow. Correction values of up to ± 15.0 EV can be entered – the setting is entered in 1/10 values.

8.3.7 Cine Speeds (Movie Only) Frame Rates




Film frame rates ranging from 2 to 1000 f/s can be selected.

8.3.8 Shutter Angle (Movie Only) Sector Angle



Sector angles from 45° to 315° can be selected. Settings are entered in 5° steps.

8.3.9 Photometry (Movie Only) Illuminance / Luminance

	You may select the readings in Metric (lux and cd/m ²) or British – US/GB (fc and fL) display.
---	--

8.3.10 Menu Reset – Delete User Settings

Only the settings of the currently selected user are reset to the factory setting values whereas the settings of the other users and corresponding meter settings remain the same.

8.4 Meter Settings

8.4.1 LCD Brightness – Display Brightness

Setting options:

- From 50 to 100 in steps of 10

8.4.2 Display off (s) – Display On-Time

Setting options:

- Off
- From 30 to 60 seconds in 15 second steps

The DIGISKY display is switched off and set to standby if no modes are activated for the duration of the selected period of time.

The display is switched back on after activating any key or after having changed the retractable diffuser head setting. All measured values and settings are retained.


8.4.3 Power off (s) – Standby Time

Setting options:

- Off
- From 60 to 240 seconds in 60 second steps

When the DIGISKY is switched to the sleep mode, your settings and measured values are first stored to memory. When the DIGISKY is reactivated, it returns to the previous operating mode. All measured values and settings are retained.

The meter can be reactivated by pressing the **M** key.

	Standby Time Off If you have selected on the DIGISKY this setting, the device can be switched in the Standby mode by turning the head in the off position.
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8.4.4 Language – Country Settings

Setting options (at present):

- German
- English
- If Gossen provides other languages in the future, you will be able to install them by means of a meter update (see also **Update** on page 33).

8.4.5 Information

Information about your DIGISKY is included in this menu, for example serial number, as well as hardware and software version levels.

8.4.6 Restart Defaults

Standard Values - Delete Meter and User Settings

The settings selected by the user, as well as the meter settings are deleted, and the meter is reset to its factory-set values. Confirm by **OK** if you want to reset the DIGISKY to its factory-set values.

Factory-set values

User Settings	Cam 1 to Cam 3	Movie
ISO speed	100	100
EV steps	1 EV	1 EV
Radio type	Off	
Studio channel	1	
Filter comp.	0.0	0.0
Cine speeds		25
Shutter angle		180
Photometry		metric

Meter Settings	
LCD brightness	90
Display off (s)	45
Power off (s)	180
Language	English

9 Practical Notes

Programming DIGISKY to compensate for external influences affecting exposure

The DIGISKY provides you with precise exposure data in accordance with DIN 19010. In the unlikely event that you are not satisfied with your results, it is possible that one or more external factors may have adversely influenced the final exposure. Some possible factors are:

- The “Actual” film speed may differ.
- Your camera’s “actual” shutter speeds may deviate somewhat from the nominal values.
- Your camera’s “actual” f-stops may differ from those specified.
- Deviations may occur while developing negatives and prints.

Any or all of these factors may be further compounded by subjective factors and personal taste when evaluating finished pictures.

Fortunately, you can adapt the DIGISKY to your camera’s individual characteristics, your workflow and your own subjective evaluation criteria.

We recommend the following method - Carefully measure several standard objects (grey card, grey scale and colour charts are perfect for this purpose) in reflected light and incident light modes, and complete a series of exposures. Use the value given by your DIGISKY. The first image is made with the exposure value displayed by the DIGISKY. Then, this exposure value is increased or reduced by up to one f-stop, dependant on the increments/“stops” of the lens. Lighting conditions must remain unchanged during this test series. From all developed or printed photos, select the image which is the best one in your opinion and compare its settings with the measurements. If the image has a different value (i.e. +/- one f-stop, etc.) compared to the original meter reading, you can set the corresponding value into your DIGISKY with the help of the **Correction Value Mode** (see page 26).

Contrast and Best Exposure

Basic rules for the best possible exposure dictate that the brightest and darkest parts of the image should have adequate detail. Yet, individual opinion and personal creativeness may, of course, render these rules null and void. Thus only general recommendations regarding the subject of ideal exposure can be provided.

It is important to consider the fact that the final product (photo, print etc.) is only capable of processing a small contrast range compared to the human eye. By means of the DIGISKY, you can measure the lighting contrast in the incident light measurement mode, as well as the subject contrast in the reflected light measurement mode. In both cases, the contrast is shown in the analog display. In general, you do not get the correct exposure for your subject by measuring the brightest and the darkest points. This should be either a medium grey within the subject, or the average value of the measurement results for the brightest and darkest points. The average value is calculated automatically by the DIGISKY. If you find that the subject contrast range is bigger than your workflow is capable of processing, you can brighten up shadows, for example, by using a reflector or a employing a fill-in flash, consequently reducing the subject contrast.

When subject contrast is taken into consideration by means of generating an average value, the following general rules apply:

Negative Film

Negative film has reasonably broad exposure latitude. Providing there is not more than two steps (EV) between bright and dark areas of a scene, then any exposure value in-between these two can be used as the exposure setting. The average value can also be used, but it usually suitable for more exacting demands.

Denser negatives result in reduced acutance. In the case of negative film, the lowest, but nevertheless still printable, density is important. Consequently it is better to overexpose slightly, rather than to underexpose.

Digital Photography – Colour Reversal Film

In comparison with negative film, colour reversal film is capable of managing greater subject contrast, but its exposure latitude for practically usable results is considerably smaller. It is the reading of the subject contrast that is the basis for deciding whether the subject can be reproduced realistically - or not. If the subject allows, it is recommended to measure towards the highlights.

In the case of colour reversal film, the key highlights of the image are most significant. Keep this in mind and remember that it is better to underexpose slightly rather than to overexpose. In this way, the colours will appear more luminous and rich.

Night Photography

For accurately capturing a night scene with a lot of darkness and very little detail, it is best to use less exposure time than indicated by your DIGISKY, in order to make sure that the image does not look like a daytime exposure. However, there are no firm rules in this case. So, in order to gain experience, it would be best to start with exposures which use the unchanged value from the DIGISKY and bracket for flexibility.

Snow Photography

If a landscape is completely covered with snow, the reflected light measurement will generally result in underexposure. Due to the extraordinary high reflection of the snow, parts which are relevant for the image might be underexposed. To adapt the measurement accordingly add 1 to 1½ f-stops.

It is highly likely, however, that the best results will still be obtained by the incident light measurement, which immediately provides the correct exposure value. If you want to include special effects, for example to emphasize fine detail in shadow within the snow, you should expose about ½ f-stop lower.

DIGISKY enables you to make precise measurements for each and every photographic application, but it is important to note that not every recording device/media is able to accurately record the same, wide contrast variances as **DIGISKY**.

10 Technical Data

Measurement capabilities	<ul style="list-style-type: none"> • Incident light measurement (flat or spherical can be selected) • Reflected light measurement, 20° • Digital display • Average value calculation • Flash light measurement (cord / non-cord / radio) • Display of the share of flash light as percentage • Cine meter (180° / 5° sectors) • Photometry (illuminance / luminance)
Measuring sensor	<ul style="list-style-type: none"> • 2 sbc silicon photo diodes, color-corrected
Shortest measuring distance	<ul style="list-style-type: none"> • Approx. 100 cms
Measuring ranges	<p>Ambient light reading (at ISO 100/21°)</p> <ul style="list-style-type: none"> • Incident light measurement EV -2.5 to +18.5 • Reflected light measurement EV -2.5 to +18.5 <p>Flash (at ISO 100/21°)</p> <ul style="list-style-type: none"> • Incident light measurement f/1.0 to f/90 • Reflected light measurement f/1.0 to f/90
Processing	<ul style="list-style-type: none"> • Digital
Repeat Accuracy	<ul style="list-style-type: none"> • + 1 digit (= 0.1 EV/EV)
Film speeds	<ul style="list-style-type: none"> • ISO 3/6° to ISO 32000/46° (in 1° DIN)
Apertures	<ul style="list-style-type: none"> • f/0.5 to f/128
Measuring value steps	<ul style="list-style-type: none"> • 1/1, 1/2 and 1/3 steps, f-stops and times
Shutter speeds	<ul style="list-style-type: none"> • From 1/8000 of a second to 30 minutes
Flash measuring times (sync speeds)	<ul style="list-style-type: none"> • From 1 second to 1/1000 of a second
Flash calculation for altered measuring times	<ul style="list-style-type: none"> • From 1 second to 1/1000 of a second
CINE speeds	<ul style="list-style-type: none"> • From 2 to 1000 f/s
CINE sector angles	<ul style="list-style-type: none"> • From 45° to 315° in 5° steps
CINE analog scale	<ul style="list-style-type: none"> • Dynamic from EV 0 to EV 18 in 0.1EV steps
Further display values	<ul style="list-style-type: none"> • Illuminance and luminance • lx, fc, cd/m², fL
Other display features	<ul style="list-style-type: none"> • Overflow, underflow (for measurement and display) • Battery Control • User • Retractable diffuser head setting • Exposure value (EV) • Measured value correction in steps of 1/10 • Status of the meter
Analog scale	<ul style="list-style-type: none"> • Dynamic contrast display
Correction values	<ul style="list-style-type: none"> • EV-5.0 to EV+15.0
Illuminance	<ul style="list-style-type: none"> • 0.5 to 199900 lx; 0.05 to 50000 fc
Luminance	<ul style="list-style-type: none"> • 0.2 to 30000 cd/m²; 0.05 to 9000 fL
Display	<ul style="list-style-type: none"> • 2.2" color TFT-LCD • Brightness settable from 50 to 100, and OFF

Standby	<ul style="list-style-type: none"> • Settable: off and from 30 to 60 s
Sleep Mode	<ul style="list-style-type: none"> • Settable: off and from 60 to 240 s
Country Settings	<ul style="list-style-type: none"> • German • English
USB Port	<ul style="list-style-type: none"> • USB 2.0 • Battery charging • Update
Flash Triggering	<ul style="list-style-type: none"> • NonCord • Cord (synchronizing cable) • Radio 2.4 GHz <ul style="list-style-type: none"> ○ Elinchrom Skyport and Skyspeed 4 groups, 8 channels ○ Phottix Strato II 4 groups, 4 channels Compatible with Calumet Pro Serie ○ Broncolor RFS 2.1 40 groups, 40 channels
Flash Control <ul style="list-style-type: none"> • Power • Modeling Light 	<ul style="list-style-type: none"> • Elinchrom Skyport and Skyspeed RX- and BX-Serie • Broncolor RFS 2.1 Scoro E- and S-Serie
Rechargeable Battery	<ul style="list-style-type: none"> • V070A device-specific rechargeable lithium ion battery; 3.7 V / 890 mAh • Charge of battery via USB – 5V DC or external power supply
Battery charging times	<p>Is depending on the range of temperature - a temperature range of +10 °C to 30 °C is recommended</p> <ul style="list-style-type: none"> • With external power supply: approx. 3 hours • Via USB: approx. 30 hours (not recommended)
Battery operating time	<ul style="list-style-type: none"> • Continuous operation without display or switching OFF of the meter: approx. 8 hours • Continuous operation with standby after 45 s and switching OFF after 120 s: approx. 4 weeks
Dimensions	<ul style="list-style-type: none"> • Approx. 164 x 66 x 26 mms
Weight with battery	<ul style="list-style-type: none"> • Approx. 100 gs
Delivery Contents	<ul style="list-style-type: none"> • V070A rechargeable battery • Power supply and USB interface cable • Carrying strap • CD ROM (includes operating instructions) • Quick start guide
Maximum operating temperature range	<ul style="list-style-type: none"> • Charge of battery via USB: -10 °C to +43 °C • Charge of battery with external power supply: 0 °C to + 40 °C • Operating mode: -10 °C to + 50 °C
Storage Temperature	<ul style="list-style-type: none"> • -20 °C to +60 °C
Additional Accessories	<ul style="list-style-type: none"> • Replacement battery, order no. V070A, 3.7 V / 890 mAh

11 Interface

The DIGISKY has a built-in USB port at the bottom of the housing. The exposure meter can be connected to a PC via this port and, amongst other applications, the battery can be recharged. Meter settings may be made by PC and transferred to the DIGISKY. It will also be possible to download future DIGISKY updates from the Internet to your PC and to transfer them directly to the meter.

11.1 Update

Updates for the meter and new functions will be made available for downloading from the Gossen website.

Homepage address: www.gossen-photo.de

12 Service

No special maintenance is required, if the DIGISKY is handled correctly. Keep the outside surface clean. Use a slightly dampened cloth for cleaning. Do not use cleansers, abrasives or solvents.

Should the meter nevertheless not work to your satisfaction, please send it to:

GOSEN Foto- und Lichtmesstechnik GmbH

Lina-Ammon-Str.22 | 90471 Nürnberg | Germany

Phone: +49 911 8602-181 | Fax: +49 911 8602-142 | E-Mail: info@gossen-photo.de

www.gossen-photo.de

or to the **GOSEN** agency in your country.

13 FCC and IC Declaration

FCC & IC (USA)	
Modifications	Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.
Conditions of Operations	This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
15.105 Class B digital device or peripheral	This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: -- Reorient or relocate the receiving antenna. -- Increase the separation between the equipment and receiver. -- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. -- Consult the dealer or an experienced radio/TV technician for help.
15.105 Class A digital device or peripheral	This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

The following data, required for the fulfillment of FCC and IC regulations, are referred to the meter(s) mentioned in this document.

Product name : DIGISKY
 Model number: H260A
 FCC ID number YXF-DIGISKY
 IC number 9333A-DIGISKY
 Company name: Gossen Foto- und Lichtmeßtechnik GmbH





EG - KONFORMITÄTSERKLÄRUNG
DECLARATION OF CONFORMITY

GOSSEN

Dokument-Nr./ Document No.: **108/2010**

Hersteller/ Manufacturer: **GOSSEN Foto- und Lichtmesstechnik GmbH**

Anschrift / Address: **Lina-Ammon-Str. 22
90471 Nürnberg**

Produktbezeichnung/ Product name: **Belichtungsmesser
Lightmeter**

Typ / Type: **DIGISKY**

Bestell-Nr. / Order No.: **H260A**

Das bezeichnete Produkt stimmt mit den Vorschriften folgender Europäischer Richtlinien überein, nachgewiesen durch die vollständige Einhaltung folgender Normen:

The above mentioned product has been manufactured according to the regulations of the following European directives proven through complete compliance with the following standards:

Nr. / No.	Richtlinie	Directive
73/23/EWG 73/23/EEC	Elektrische Betriebsmittel zur Verwendung innerhalb bestimmter Spannungsgrenzen - Niederspannungsrichtlinie – Anbringung der CE-Kennzeichnung : 2003	Electrical equipment for use within certain voltage limits - Low Voltage Directive - Attachment of CE mark : 2003

EN/Norm/Standard	IEC/Deutsche Norm	VDE-Klassifikation/Classification
EN 60950-1:2006 +A11:2009	IEC 60950-1:2005 2nd Edition	VDE 0411-1 : 1994 VDE 0413-3 : 1997

Nr. / No.	Richtlinie	Directive
89/336/EWG 89/336/EEC	Elektromagnetische Verträglichkeit - EMV - Richtlinie	Electromagnetic compatibility -EMC directive

Fachgrundnorm / Generic Standard

Nürnberg, den 15. Dezember 2010

Ort, Datum / Place, date:

Vorsitzender der Geschäftsführung

Diese Erklärung bescheinigt die Übereinstimmung mit den genannten Richtlinien, beinhaltet jedoch keine Zusicherung von Eigenschaften. Die Sicherheitshinweise der mitgelieferten Produktdokumentationen sind zu beachten.

This declaration certifies compliance with the above mentioned directives but does not include a property assurance. The safety notes given in the product documentations, which are part of the supply, must be observed.

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