



Thank you for choosing a Hedler F 1000 and your confidence in the Hedler Light System. Please, read the following technical information carefully before using the Light Unit.

Codes are given in <Brackets>.



## TECHNICAL DESCRIPTION

Light Units of the HEDLER F range are designed for professional use. They are assembled by applying precision methods and tested individually for function and quality. The Flashlight HEDLER F 1000 is provided with an integrated U-Bracket and a friction brake and a 5/8" Quick-Lock Light Stand Attachment. After loosening the hex key screws by approx. 2 turns, the U-Bracket can be moved back and forth in its keyway for gravity adjustment and can be turned for either right or left hand use. On its front side, the aluminium housing holds the Borofloat™ safety glass. Additionally there is the QuickFit adapter (compatible with Uni-Adapt system) for attaching reflectors.

The Flashlight HEDLER F 1000 uses AC of 220 - 230 V and the modern Tungsten Lamps 650 W as a pilot light. The flash light source is a quartz-flash bulb with daylight quality and a maximum power of 1000 Ws.

The Flashlight HEDLER F 1000 has a Setting-Safe-Function (SSF). It is activated by pressing and holding down the TEST switch for more than 3 seconds. A signal tone indicates, that the SSF has been activated; this saves the settings even when the light unit is switched off and on, and the user will not lose their valuable information! An unwanted change of the Light Units settings isn't possible. The function is deactivated by pressing and holding the TEST switch for more than 3 seconds.

## FLASH OUTPOWER and FLASHFUNCTIONS

The flash light output power of the HEDLER F 1000 is infinitely adjustable by 4 f-stops. Reducing the flash light output power charging is automatically done by the electronics, no manual flashing to unload the flash light unit is necessary.

Under maximum flash light output power, the longest flash duration lasts 1/400 second, and this allows the use of a 1/250 second as sync-time. The relatively „short“ 1/250 second is extremely helpful while photographing Portrait and Fashion: it can prevent „blurred“ photographs even when working without a tripod. Please check your camera to find out which sync-time can be used; if you use a shutter speed shorter than your camera's sync-time while using flash lighting, your photographs will be darkened or underexposed on their longer side.

The HEDLER F 1000 can be flash fired with the sync-cord or Photocell. If you use more than one flash light unit, the synchronized flash firing can be done in two ways:

- one flash light unit will be connected to the camera by a sync-cord, which has to be plugged into the **Socket SYNC**. When shooting the photograph, the camera triggers the sync-cord connected flash light unit and every other flash light unit with **Photocell** switched on will be released synchronized;
- connect an IR trigger to your camera and switch on the **Photocell** at every flash light unit that must/should be released synchronized; when shooting the photograph, the IR trigger will be released by the camera, and every flash light unit (that receives a strong enough IR light impulse) will be released synchronized. For technical and practical reasons, we recommend this flash release version.

To assess lighting and shadow ratio/impact the F 1000 is equipped with a 650 W pilot or modeling light. With switch **PILOT SET** set to **position I**, the pilot light output power will change proportionally and continuously when flash light output power is changed. Set to **position II** the pilot light output power will also change proportionally when the flash light output power is changed, but in addition: the pilot light will automatically turn-off during the re-/discharging time of the F 1000. After re-/discharging, the pilot light will automatically turned on again to indicate readiness for flash firing (useable as an optical flash firing control).

In certain circumstances, such as when the material has shiny surfaces or is deep/dark black, focusing the lens can be a problem. In such a situation, the **PILOT RANGE switch** can reduce the output power from **100% (position I)** or **50% (position II)**; this is only effective if the **PILOT SET** switch is set either to position I or II). Using the **PILOT RANGE switch** does **not** change the flash light output power setting!

The **ACOUSTIC CONTROL switch**, in position I or II, allows the successful control of different acoustic tone flash firing ready/flash firing.

# Flashlight F 1000



#	Position	Description
1		Photocell switch
	0	Photocell is switched off
	I	Photocell is switched on; the F 1000 will only be released if it receives a strong enough light or IR light impulse
	II	Photocell is switched on and ignores some camera's metering pre-flash; the F 1000 will be released when the camera's main flash is released (if the main flash is released not later than 1/500 seconds after pre-flash was released)
2		Pilot Set switch (=Modeling light switch)
	0	Pilot light is switched off (prevents possible reflections on shiny materials caused by the pilot light)
	I	Pilot light is switched on + adjusted proportionally to flash light output power without flash re-/discharging indication
	II	Pilot light is switched on + adjusted proportionally to flash light output power with flash re-/discharging indication (if the flash light unit has to be re-/discharged after changing the flash light output power or after flash firing the pilot light is automatically turned off until the F 1000 is ready for flash firing)
3		Pilot Range switch (Pilot light output power additional function)
	0	Pilot light output power additional function is switched off
	I	Pilot light output power additional function is switched on - pilot light output power is set to 100% without changing the actual flash light output power setting
	II	Pilot light output power additional function is switched on - pilot light output power is set to 50% without changing the actual flash light output power setting
4		Acoustic Control switch
	0	Acoustic Control is switched off
	I	Acoustic Control is switched on - a repeated tone is followed by one longer tone which indicates the F 1000 is ready for flash release after changing the flash light output power or after successfully releasing a flash
	II	Acoustic control is switched on - one single tone indicates the F 1000 is ready for flash release after changing the flash light output power or after successfully releasing a flash
5		Test switch - flash firing manually, refer to page 1 for further information about function
6		Digital Indicator - 1/10 f-stop graded - to adjust the flash output power very precisely between two flash lights
7		Wing bolt incl. friction brake - open the wing bolt by a counter-clockwise turn and the tilting of the F 1000 can be adjusted to your required lighting angle. Always secure the wing bolt and friction brake with a clockwise turn to avoid unwanted movement or damage to the HEDLER F 1000 and/or injury to the user
8		Sync cord socket 6,3 mm
9		Main switch HEDLER F 1000
	0	HEDLER F 1000 is switched off
	I	HEDLER F 1000 is switched on
10		Flash bulb fuse T 6,3 A - please refer to page 4: <b>Necessary precautions</b> and <b>To replace the fuse T 6,3 A (flash bulb)</b> : ALWAYS use T 6,3 A. Replacement Fuses supplied by Hedler Systemlicht GmbH
11		Power cord socket - use only a power cord that is supplied by Hedler Systemlicht GmbH to put your HEDLER F 1000 into operation
12		Socket for the optional remote control HEDLER RC 7
13		Pilot light fuse F 4 A - please refer to page 4: <b>Necessary precautions</b> and <b>To replace the fuse F 4 A (flash bulb)</b> : ALWAYS use F 4 A. Replacement Fuses supplied by Hedler Systemlicht GmbH
14		Flash light output power rotary control - allows the infinitely variable setting of the flash units power over 4 f-stops; it is scaled in f-stops, which means, the „distance“ - for example - between -3 and -2 has the value of approx. 1 f-stop
		<b>Example:</b>
		<ul style="list-style-type: none"> <li>• HEDLER F 1000 set to position -2 / digital indicator shows 5, your light meter indicates f-stop 8 and 3/10 (=f-stop 9)</li> <li>• for your actual lighting idea you need f-stop 11 and 3/10 (=f-stop 13)</li> <li>• turn your flash light output power rotary control from position -2 to -1 / digital indicator shows now 6 instead of 5</li> <li>• please do another light metering</li> <li>• your light meter should display approx. f-stop 11 and 3/10</li> </ul>
		<b>Please note:</b>
		Because of your Studio situation (colour of the wall, size, reflections, etc.) and the combination with additional flash light units, it may happen that a changing of the flash light output power (which will be displayed additionally by the digital indicator) does not lead to the expected f-stop increase/decrease. This is not an error of the system but the result of the conditions within the situation. In that case please adjust the flash light output power rotary control until light metering shows the needed f-stop value.
15		Spring-secured pre-locking - is used to prevent unwanted disconnecting from a light stand or a wall boom with a 5/8" male adapter; to disconnect you must press the pin and lift the complete light unit at the same time
16		5/8" Quick-Lock Light Stand Attachment - allows use with every secure and sufficiently strong light stand (ALWAYS check the light stand's maximum load capacity) with 5/8" male adapter
17		Wing bolt - open the wing bolt by a counter-clockwise turn and the horizontal rotating of the F 1000 can be adjusted to the required position. ALWAYS secure the wing bolt with a clockwise turn to avoid any unwanted movement of the F 1000 around the horizontal axis (if connected to an upright standing light stand)



Please, disconnect the Hedler Light Unit from the power supply when exchanging lamp and/or fuse.

## NECESSARY PRECAUTIONS

Never obstruct the Forced Air Cooling (intakes or exhausts) in any way when the HEDLER F 1000 is in use. Always keep a minimum distance of 100 cm between the safety glass (or accessories) and any combustible materials when the HEDLER F 1000 is in use. Never use the HEDLER F 1000 near any inflammable liquids, gases, materials or explosives that may be ignited by heat or spark. HEDLER F 1000 are designed for professional use and should be used with professional care. The manufacturer will not assume responsibility for damage caused by unprofessional or otherwise careless use of this equipment.

Please pay attention to the following safety notes:

- Always disconnect the HEDLER F 1000 from the power supply before performing any kind of maintenance work on the unit.
- Never use a defective HEDLER F 1000. Never use a HEDLER F 1000 with a defective power cord.
- Never use a HEDLER F 1000 with a defective safety glass. Replace a defective safety glass immediately.
- Always use the HEDLER F 1000 in combination with a steady and secure standing light stand. Always work within the light stand's load capacity, especially if you are using, or plan to use, large and/or heavy folding reflectors.
- Never use a HEDLER F 1000 unattended.
- Never use the HEDLER F 1000 outdoors nor in exceptionally humid conditions.
- Never use the HEDLER F 1000 for any reason other than photographic or cinematic lighting.
- Always keep the HEDLER F 1000 out of reach of children. This is not a toy, the F 1000 is unsuitable for use by children.

## SAFETY GLASS, LAMPS and FUSES

**To replace the safety glass**, first allow the HEDLER F 1000 to cool down. Then unscrew the securing screw of the glassholder securing clip, pull the clip upward and remove the glass. Replace the safety glass only with an original Hedler safety glass, push the clip downwards to secure the Borofloat™ safety glass and tighten the securing screw.

**To replace the flash bulb**, the HEDLER F 1000 has to be sent in to Hedler Systemlicht GmbH directly or via the Hedler dealer in your country. For safety reasons, the flash bulb is secured by screws inside the flash light unit's housing and cannot be replaced by the customer.

**To replace the lamp**, unscrew the securing screw, pull the clip upward, which secures the Borofloat™ safety glass and remove the glass. Make sure that the lamp has cooled off, before pulling it upward and out of the socket. Push the new lamp into the socket, observing instructions by the lamp manufacturer. Replace the safety glass, push the clip down to secure Borofloat™ safety glass and tighten the securing screw.

**To replace the fuse T 6,3 A (flash bulb)** open the fuse holder lid (located between main switch and power cord socket) and remove the old fuse and replace it with the correct Hedler fuse. To close the lid, press it downwards; **fuse F 4 A (pilot or modeling light)** use a coin to unscrew the cap of the fuse box (located to the right of the main switch on the backside of the Light Unit's housing) by turning it counter-clockwise. Remove the spent fuse and replace it by a new one of the appropriate type. Closing is done by pressing down the lid and screwing the cap into its place by a clockwise turn.

## Accessories

It is recommended to use Hedler Light Units only in combination with an original HEDLER Leaf Barndoor or one of the HEDLER accessory reflectors. This permits adjusting the light beam to the requirements of any situation. In addition to the reflectors MaxiNorm, MaxiSun, MaxiBrite, MaxiSpot 65 and 130 or the MaxiSoft Folding reflectors, 4-Leaf Barndoor, Reflex Umbrellas and Honeycombs are available. Please ask for our catalogue with information about light shaping or visit our website. On the web you'll find the latest news, hints as well as lighting examples.

## ATTACHING and DETACHING REFLECTORS

Interchangeable reflectors with bayonet ring can be attached in the following way: place the rim of the ring into the guide grooves of the upper studs and the round opening over the cone-shaped bolt, and lock it by a turn to the left. To attach the rotatable Leaf Barndoors or a MaxiSoft Folding Reflector, place the rim of the ring into the guide grooves of the upper studs, and then push the complete reflector towards the Quick-Fit's cone-shaped bolt until the ring locks in the bolt's groove. Detach the reflector by lifting the Quick-Fit's handle, moving the lower side of the reflector away from the light unit's housing, and then lifting the reflector's ring out of the guide grooves of the upper studs.

## HEDLER WARRANTY

All Hedler equipment is fully guaranteed against any material or manufacturing defects for three years after date of purchase. Parts made out of glass, Tungsten Halogen lamps and Flash bulbs are not covered by this warranty.

## MAINTENANCE and REPAIR

Used under normal professional conditions, Hedler Flash Lights require no maintenance. If repair is required, please, contact your dealer, the authorized distributor in your country or the Hedler factory directly. Please note, that a pre-dismantled Light Unit could cause increased repair costs.

## APPROVAL and UL STANDARDS for SAFETY

The Hedler F 1000 Light Unit is not SEV Standard tested, sign Schweiz HD 504.

The Hedler F 1000 Light Units does not have the UL (Underwriters Laboratories) Standards for Safety sign for the USA and Canada.