



THE FASCINATION OF FLASH PHOTOGRAPHY –

Metz mecablitz – Flash units for
analog and digital cameras



METZ MECABLITZ

COMPLETE PHOTO ELECTRONICS CATALOGUE 2010/2011

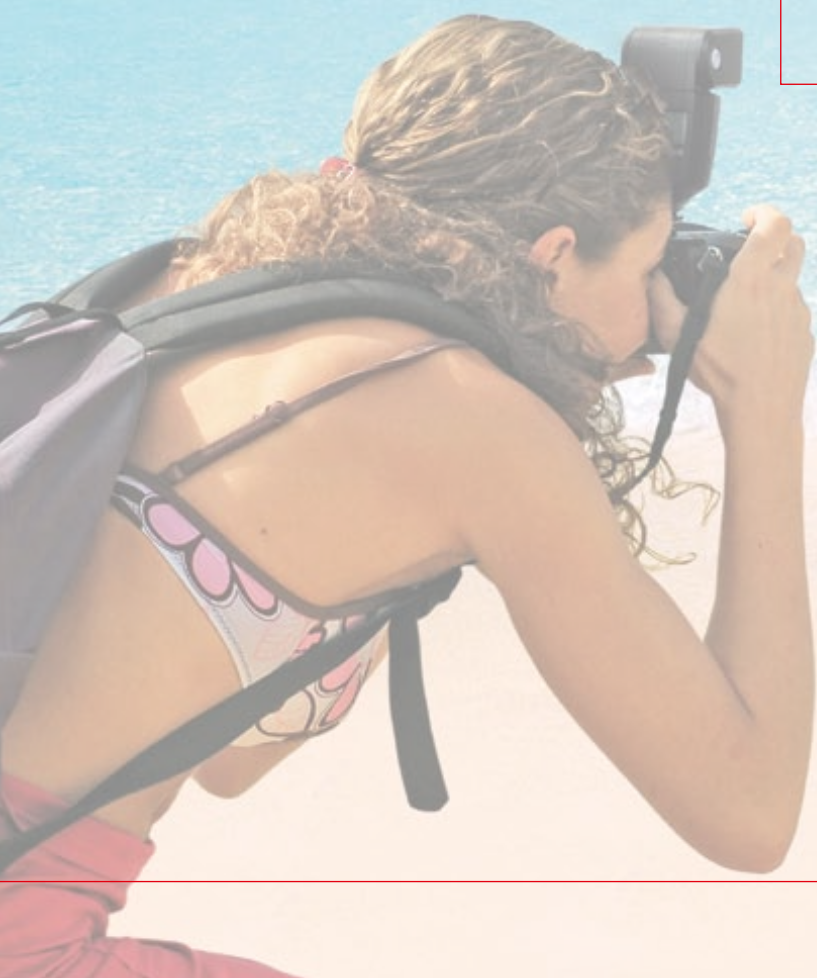
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Into the future with tradition



For decades, Metz has played a leading role in professional flash photography. It's no wonder, because the company's product range is very diverse. Ranging from handy and compact up to powerful handheld flashguns, there is just the right light for any need. The highly-developed SCA adapter system is another Metz strength. It makes it possible for Metz SCA flash units to be used on many cameras. Metz thus successfully manufactures products that stand out due to their versatility, long service life, and quality.



Excellent quality

Metz flash units operated convincingly in many tests. This is the case for light performance as well as reliability and handling. In order to maintain this quality, the Metz plants in Zirndorf near Nuremberg consistently rely on development and production in its German location. Highly-qualified personnel and our own training system, as well as the know-how from decades of development work, combined with demanding quality management (ISO 9001) in all corporate divisions guarantee that the highest demands are met: Metz – always first class.

Metz – Ideas have a future

Through an entire series of pioneering technical work, the Metz plants have established an excellent reputation over many decades. This is the result of core competences in the areas of electronics and plastics engineering. An entire series of innovations, such as the world's first



integrated USB port in the mecablitz 58 AF-2 digital, mecablitz 50 AF-1 digital, mecablitz 44 AF-1 digital and mecablitz 15 MS-1 digital, or the self-learning servo mode of the mecablitz 28 CS-2 digital, are typical examples of this.

Technical perfection

Decades of development experience and production in Germany ensure the high technical standard of Metz devices. The use of high-quality components in connection with the most modern high-tech SMD assembly machines ensure that you can rely on Metz products. Convincing evidence for this is the worldwide marketing of high-quality products, both in the flash sector as well as in ultramodern TV production.



More fun – better pictures

Using a flash pays off: Anyone using additional light when taking a photograph obtains better results, because in post-processing, it isn't possible to obtain missing colors or brilliance from the picture:

The methods:

Using a flash doesn't only mean flooding a dark subject with light; it also means handling this light in a targeted manner as well as creatively. There are very different methods available to achieve this. It starts with a direct flash of the subject with a flash unit fastened to the camera, and continues with a bounce flash, which is made possible by turning and tilting the reflector head. This way, the light can be redirected either with a special bounce diffuser or with an extendable, integrated reflector card. In addition, there are other flash methods that can be achieved through an "off-camera" use of the units. Adjusting the flash exposure plays a major role in the effect of a subject. In many Metz flash devices, the amount of light can be controlled variably, and thus balanced entirely according to need. In this way, a lighting mood is never lost. There is even considerable advantage in using a Metz flash in daylight. Shadowed areas or backlight can be brightened optimally in this way, and it enables pictures with undreamed-of sharpness and brilliance. In contrast to bygone eras, flashes and cameras themselves already contribute a great deal to successful exposure. These days, no flash photographer has to spend time



on f-stop calculations or use various formulas. Intelligent units have now taken over most of the work. With the help of various special functions, one can concentrate on the essentials, i.e. the picture composition. That way, using a flash is really fun!



With Metz mecablitz digital into the future

The flexibility of Metz mecablitz units can be seen within the different flash families. They have the respective functionality to meet varying requirements. In principle, there are the following groups:



SYSTEM FLASH UNITS



SCA FLASH UNITS

With System flash units, using a flash is a great deal of fun. Thanks to them being highly-developed and fully automatic, you only have to attach the flash, and away you go. System flash units are available in different versions. In this way, they provide a specific connection for a specific brand of camera, with which they work together perfectly. Set the appropriate TTL control and guarantee perfect illumination for any ambient lighting conditions. Since requirements differ, there are five different models for each level of experience.

Cameras can change, Metz can adapt! The unique special feature of Metz SCA flash units is that one and the same flash unit can be used with different cameras – it doesn't matter whether they are digital or analog. By simply replacing the adapter, system cameras of different manufacturers can be used. Flash units with SCA adapters are particularly good for reflex cameras, because they offer the richest array of special functions. Of course, the SCA modules are also suitable for cameras from many other manufacturers, because of the adapters available.



AUTOMATIC FLASH UNITS

Automatic flash units are connected to the camera via a hot-shoe contact or a sync cord connection and have their own automatic flash control. This means that it isn't the camera that controls the flash, rather the flash itself responds intelligently and meters the light as precisely as required by the subject. Automatic flash units are available in manageable compact flash format in guide number classes 36 and 20.

Automatic flash units are particularly suitable for digital bridge cameras with simple hot shoe flash.



SLAVE/SERVO FLASH UNITS

The range of slave/servo flash units is designed to achieve extremely varied, interesting lighting effects. This is because they can be used as so-called "off-camera" flashes, because they can be positioned anywhere in the room. Because they don't need a direct contact to the camera, they are especially interesting for owners of compact digital cameras that don't have a flash connection option. The macro-flash mecablitz 15 MS-1 digital is regarded as an innovation. Its wireless TTL* control makes it unique in its class. Even the mecablitz 58 AF-2 digital, 50 AF-1 digital or the 44 AF-1 digital can be used as a "slave", even though they are not directly assigned to this category. In this mode of operation, they also support the flash modes of the respective camera manufacturer.

* subject to camera



SYSTEM FLASH UNITS

Using a flash is more fun than ever before. It's no wonder, because with Metz system flash units, operation simplicity is assured. Clearly-arranged displays, some of them even illuminated, give information, for example, about what values the respective flash program automatically sets. Sophisticated flash techniques are therefore child's play. There is also the guaranteed future factor for units with an integrated USB port. It's not without good reason that the mecablitz 58 AF-1 digital was given the prize for the "Best Flash Unit in Europe 2007/2008"* . Mecablitz 48 AF-1 can proudly display the Tipa Award "Best Accessory 2008". Both units have now gained worthy successors in the mecablitz 58 AF-2 and 50 AF-1.

* EISA Award 2007/2008



FLASH TIP

Spanning large distances:

The choice of flash mode decisively affects the mood in photography. The pictures compared on this page show an effectively brightened subject that was at a great distance. In this connection, it was wise to use a powerful flash unit such as the Metz mecablitz 58 AF-1 digital. It can also brighten parts of pictures distant from one another both effectively and extremely accurately. There are special camera-specific functions available for this purpose, depending on the version.



FLASH TIP

Obtaining the lighting mood:

Thanks to modern flash controllers such as, for example, E-TTL, i-TTL, P-TTL, and ADI, the light output of Metz system flash units can be controlled by the camera. If the existing lighting mood is to be retained, it is important to use a shutter time that is longer than the flash synch time. For portraits, however, an exposure time of 1/60 second should not be exceeded.



MECABLITZ 58 AF-2 DIGITAL

For the ambitious

Top model with new fine tuning

Even an award-winner can be made better. The "best flash unit in Europe 2007/2008**" has received a little more fine tuning. In order to carry on meeting the highest standards in quality, a high quality metal base** has been added which can be attached to the camera's flash shoe in one easy movement. Technically speaking, no wish is left unfulfilled. The innovative high performance unit boasts a USB interface through which specific firmware for each model variant can be conveniently updated via computer and Internet. It looks sleek, artfully meters flash and is both intuitive and impressively powerful. Equipped with new innovations, the Metz mecablitz 58 AF-2 digital offers cutting-edge secondary reflector technology, high performance energy

management, multiple zone AF flash metering and a fully pivoting reflector system. The Metz top model works with all camera-specific system flash modes from Canon, Nikon, Pentax, Olympus/Panasonic or Sony Alpha cameras including their respective wireless TTL modes. If the camera has a built-in flash then the mecablitz 58 AF-2 digital can be employed wirelessly in the system, even in servo mode. Thanks to its high guide number, the 58 AF-2 digital is not only extremely powerful but can also be used effectively for bouncing flash. Metz has integrated a flip-out reflector card for its vertically tilting and horizontally swivelling reflector. Thanks to the integrated and system controlled secondary reflector, bouncing flash adds additional brilliance to close-ups.

Flash output

- high max. GN of 58 for ISO 100/21° and 105 mm

Basic configuration

- secondary reflector with 3 light output ratios
- vertical (-7/+90°) and horizontal (300°) swivel reflector
- easy operating concept
- illuminated dot-matrix display
- motor zoom for 24 - 105 mm illumination
- integrated wide-angle diffuser for 12 mm illumination
- reflector card that can be flipped open for soft flash illumination
- modeling light (permanent light for checking the photo)
- integrated autofocus multi-zone measuring flash
- Flash readiness indicator and correct exposure display on unit and camera (subject to camera model)
- flash range indicator
- automatic unit switch-off and manual key lock
- Metal base** with quick lock

Standard flash modes

- TTL flash mode
- automatic flash mode with 12 automatic apertures
- manual flash mode with 25 partial lighting levels
- stroboscope mode
- HSS – high speed synchronization
- 1st and 2nd shutter curtain synchronization
- manual flash exposure correction for TTL or automatic flash mode
- automatic fill-in flash
- flash bracketing

* Mecablitz 58 AF-1 digital was awarded the EISA "Best Product" 2007-2008.

** excluding Sony model

IN DETAIL



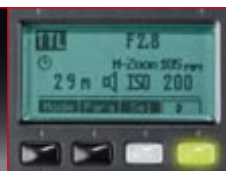
Detail metal base**



Extendible reflector card



Tilt reflector



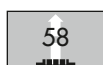
Easy to operate



USB port



Secondary reflector with 3 partial lighting levels



GN of 58 at ISO 100/21° (105 mm)
GN of 42 at ISO 100/21° (50 mm)

TTL	SONY ADI	CANON E-TTL II	NIKON i-TTL	FUJIFILM i-TTL	OLYMPUS Four Thirds	PANASONIC Four Thirds	PENTAX P-TTL
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Camera-specific system flash modes

CANON VERSION

- E-TTL / E-TTL-II flash mode
- E-TTL remote mode (Master, servo and slave mode)

NIKON/FUJIFILM VERSION

- i-TTL / D-TTL / 3D flash mode
- i-TTL remote mode (Master, servo and slave mode)

OLYMPUS/PANASONIC/LEICA VERSION

- Four Thirds TTL flash mode
- Four Thirds TTL remote mode (Slave and servo mode)

PENTAX VERSION

- P-TTL flash mode
- P-TTL remote mode (master and slave operation)

SONY ALPHA VERSION

- ADI flash mode
- ADI remote mode (master and slave operation)

Guaranteed in the future

- Firmware update via integrated USB port

Power supply

- 4 x AA alkaline-magnesium or lithium batteries
- 4 x AA NC or NiMH rechargeable batteries
- powerful Metz NiMH Power Pack P 76 with V 58-50 cable

Included in delivery

- belt case
- slave mounting foot



CANON

NIKON

FUJIFILM

OLYMPUS

PANASONIC

PENTAX

SONY

ACCESSORIES



Power Pack P 76 Set (V58-50 cable required)



Mecabounce 58-90 for softer illumination (Fig. similar)



Bounce diffuser 58-23 for bounce flash

LEICA Four Thirds	A	M	STROBE	HSS	◀▶	DOT MATRIX Display	Motor Zoom	USB	REMOTE	METAL**	SERVO
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MECABLITZ 50 AF-1 DIGITAL

For committed amateur photographers

High performance and future-proof

The successor to the Best Accessory "Tipa 2008" award-winning mecablitz 48 AF-1 digital has been launched with a new high quality metal base which allows quick and easy attachment to the respective camera. The mecablitz 50 AF-1 digital has all the right technological features too, including numerous application possibilities and even higher performance levels (guide number 50). Equipped with a USB interface for online firmware updates, its innovative and future-proof credentials are proven. It is available in five versions, each one perfectly tailored to a digital camera by one of the leading manufacturers (Canon, Nikon, Olympus/Panasonic, Pentax

or Sony ADI) – all of which are rapid response due to their fully automatic flash modes. These permit precise light output tailored to each individual subject. Numerous manual fine tuning options extend your creative photographic freedom. Virtually limitless possibilities are opened up for creative lighting thanks to a fully swivelling reflector system which also contains a flip-out reflector card and a diffuser. The slave function allows the 50 AF-1 digital to be used "without constraints". In the respective camera-specific wireless TTL mode it can even be used as a slave device. With built-in camera flash, wireless applications are available in servo mode. A superb flash unit for committed amateur photographers.

Flash output

- high max. GN of 50 for ISO 100/21° and 105 mm

Basic configuration

- vertical (-7/+90°) and horizontal (300°) swivel reflector
- illuminated LCD display
- easy operating concept
- motor zoom for 24 - 105 mm illumination
- integrated wide-angle diffuser for 12 mm illumination
- extendible reflector card for soft flash illumination
- modeling light (permanent light for checking the photo)
- integrated autofocus measuring flash
- Flash readiness indicator and correct exposure display on unit and camera (subject to camera)
- flash range indicator in the LCD display
- automatic unit switch-off and manual key lock
- Metal base* with quick lock

Standard flash modes

- TTL flash mode
- manual flash mode with 8 partial lighting levels
- HSS – high speed synchronization
- 1st and 2nd shutter curtain synchronization
- manual flash exposure correction for TTL flash mode
- automatic fill-in flash
- flash bracketing

* excludes Sony model

IN DETAIL



Detail metal base*



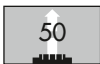
Extendible reflector card



Tilt reflector



USB port



GN of 50 at ISO 100/21° (105 mm)
GN of 36 at ISO 100/21° (50 mm)

TTL	SONY ADI	CANON E-TTL II	NIKON iTTL	FUJIFILM iTTL	OLYMPUS Four Thirds
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Camera-specific system flash modes

CANON VERSION

- E-TTL / E-TTL-II flash mode
- E-TTL remote mode (Slave and servo mode)

NIKON/FUJIFILM VERSION

- i-TTL / D-TTL / 3D flash mode
- i-TTL remote mode (Slave and servo mode)

OLYMPUS/PANASONIC/LEICA VERSION

- Four Thirds TTL flash mode
- Four Thirds TTL remote mode (Slave and servo mode)

PENTAX VERSION

- P-TTL flash mode
- P-TTL remote mode (slave operation)

SONY ALPHA VERSION

- ADI flash mode
- ADI remote mode (slave operation)

Guaranteed in the future

- Firmware update via integrated USB port

Power sources

- 4 x AA alkaline-magnesium or lithium batteries
- 4 x AA NC or NiMH rechargeable batteries



CANON

NIKON

FUJIFILM

OLYMPUS

PANASONIC

PENTAX

SONY

ACCESSORIES



Mecabounce 58-90
for softer
illumination
(Fig. similar)

Bounce diffuser 58-23
for bounce flash

PANASONIC Four Thirds	PENTAX P-TTL	LEICA Four Thirds	M	HSS	←→	LCD	Motor Zoom	USB	SLAVE	METAL*	SERVO
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MECABLITZ 44 AF-1 DIGITAL

For price-conscious amateur photographers

Compact high performance

With its slim-line design and new quick lock system for the unit base, the mecablitz 44 AF-1 digital is the perfect solution for price-conscious amateur photographers. The clear control panel on the back of the unit impresses with its simple operation; offering a high level of functional reliability. The high performance design affords reserve power in any photo situation (max. guide number 44 for ISO 100/21° and 105 mm). Depending on the camera, it has the appropriate application possibilities for any lighting conditions in TTL mode. The photographer can manual-

ly set up to 4 partial light levels enabling manipulation of lighting effects. With the appropriate camera model the mecablitz can also be synchronised to the first or second shutter curtain enabling variable options for creative lighting. Depending on the camera, the Metz 44 AF-1 also offers a slave mode, making wireless TTL flash child's play – and opening up new dimensions in flash photography. Its motor zoom function (24 -105 mm), the fully swivelling reflector with flip-out reflector card and the integrated wide-angle diffuser (12 mm) afford the photographer additional creative scope.

Flash output

- Max. guide number 44 for ISO 100/21° and 105 mm

Basic configuration

- Vertical (+90°) and horizontal (300°) swivel reflector
- Simple operating concept
- Motor zoom for 24 – 105 mm illumination
- Integrated wide-angle diffuser for 12 mm illumination
- Flip-out reflector card
- Modelling light (permanent light for checking the image (subject to camera))
- Integrated auto focus flash metering
- Flash readiness indicator and correct exposure display on the unit and camera (subject to camera)
- Automatic unit shut-off

Standard flash modes

- TTL flash mode
- Manual flash mode with 4 partial lighting levels
- Slave mode: remote mode in camera-specific mode, exposure via built-in mastering camera flash or an additional external flash unit (master mode)
- First and second shutter curtain synchronisation (subject to camera)
- Manual flash exposure correction for TTL flash mode (subject to camera)
- Automatic fill-in flash

IN DETAIL



Flip-out reflector card

Swivel reflector

Simple operation

USB interface



GN of 44 at ISO 100/21° (105 mm)
GN of 32 at ISO 100/21° (50 mm)

TTL

SONY
ADI

Camera-specific system flash modes

CANON VERSION

- E-TTL / E-TTL II flash mode
- E-TTL remote mode (slave mode)

NIKON/FUJIFILM VERSION

- i-TTL / i-TTL BL
- i-TTL remote mode (slave mode)

OLYMPUS/PANASONIC/LEICA VERSION

- Four thirds TTL flash mode
- Four thirds TTL remote mode (slave mode)

PENTAX VERSION

- P-TTL flash mode
- P-TTL remote mode (slave mode)

SONY ALPHA VERSION

- ADI flash mode / pre-flash TTL
- ADI remote mode (slave mode)

Ready for the future

- Firmware update via integrated USB socket

Power supply

- 4 x AA alkaline-magnesium or lithium batteries
- 4 x AA NC or NiMH rechargeable batteries



CANON

NIKON

FUJIFILM (i-TTL)

OLYMPUS

PANASONIC

PENTAX

SONY

ACCESSORIES



Mecabounce 52-90
for softer
illumination
(Fig. similar)

Reflector umbrella
58-23
for bouncing flash

CANON E-TTL II	NIKON i-TTL	FUJIFILM i-TTL	OLYMPUS Four Thirds	PANASONIC Four Thirds	PENTAX P-TTL	LEICA Four Thirds	M	Motor Zoom	USB	SLAVE
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MECABLITZ 36 AF-5 DIGITAL

For demanding beginners

The compact class

Presenting the Metz mecablitz 36 AF-5C digital for Canon, 36 AF-5N digital for Nikon, 36 AF-5O digital for Olympus and Panasonic, 36 AF-5P for Pentax and 36 AF-5S for Sony Alpha, in the smart Cobra design. With these sophisticated entry-level models Metz has just the right flash solution for these digital camera user groups. In addition, they are impressive because of their easy operation. Even bounce flash becomes child's play, due to the vertically-tilting reflector. The manually-adjustable zoom reflector has other advantages. By adjusting the reflector to different focal lengths, the illumination angle of the 36 AF-5 digital can be optimally utilized.

Flash output

- max. GN of 36 for ISO 100/21° and 85 mm

Basic configuration

- vertically tilting reflector +90°
- LED displays
- manual zoom reflector for 28 - 85 mm illumination
- integrated autofocus measurement flash
- flash readiness and exposure control indicators on the unit and camera (subject to camera)
- 18 mm diffuser included in delivery
- Automatic unit shut-off

Standard flash modes

- TTL flash mode
- First and second shutter curtain synchronisation (subject to camera)
- Manual flash exposure correction via TTL flash mode (subject to camera)
- automatic fill-in flash

IN DETAIL



Spotlight for AF measurement flash



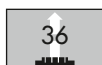
Tilt reflector (only vertical)



Zoom reflector (28-85 mm)



Wide-angle adapter (18 mm)



GN of 36 at ISO 100/21° (85 mm)
GN of 30 at ISO 100/21° (50 mm)

Camera-specific system flash modes

CANON VERSION

- E-TTL flash mode

NIKON/FUJIFILM VERSION

- i-TTL flash mode

OLYMPUS/PANASONIC/LEICA VERSION

- Four Thirds TTL flash mode

PENTAX VERSION

- P-TTL flash mode

SONY ALPHA VERSION

- ADI flash mode

Guaranteed in the future

- firmware update possible via
Metz Service

Power sources

- 4 x AA alkaline-magnesium batteries
- 4 x AA NC or NiMH
rechargeable batteries

CANON
NIKON
FUJIFILM
OLYMPUS
PANASONIC
PENTAX
SONY



TTL	CANON E-TTL	SONY ADI	NIKON i-TTL	OLYMPUS Four Thirds	PANASONIC Four Thirds	PENTAX P-TTL	LEICA Four Thirds	⬆ ⬇ ⬆	Manual Zoom
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MECABLITZ 24 AF-1 DIGITAL

Perfect travel companion

The new mecablitz 24 AF-1 digital is perfect when you're on the go. Thanks to the compact, slim-line and lightweight design it can be stashed easily in a jacket pocket and is at hand just when you need it. Currently the smallest Metz system flash unit with GN 24 for ISO 100/21° and 35 mm focal length, it is particularly suited to flash novices who are looking for better illumination in their photos than is possible with an integrated camera flash. Thanks to intelligent TTL camera control the mecablitz 24 AF-1 digital even makes automatic fill-in flash possible. Additional illumination levels are also possible thanks to the 90° adjustable swivel reflector. Flash readiness and exposure levels are displayed on the back of the unit by two LED indicators.

Flash output

- Max guide number 24 for ISO 100/21° and 35 mm

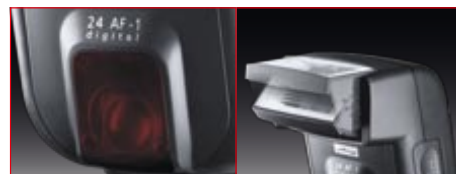
Basic configuration

- Vertical swivel reflector +90°
- LED display
- Integrated autofocus flash metering
- Flash readiness and correct exposure display on unit and camera (subject to camera)

Standard flash modes

- TTL flash mode
- First and second shutter curtain synchronisation (subject to camera)
- Manual flash exposure correction for TTL flash mode (subject to camera)
- Automatic fill-in flash

IN DETAIL



Beam for
AF flash metering

Swivel reflector
(vertical)



GN of 24 at ISO 100/21° (35 mm)

Camera-specific
system flash modes

CANON VERSION

- E-TTL flash mode

NIKON/FUJIFILM VERSION

- i-TTL flash mode

OLYMPUS/PANASONIC/LEICA VERSION

- Four thirds TTL flash mode

PENTAX VERSION

- P-TTL flash mode

SONY ALPHA VERSION

- ADI flash mode

Ready for the future

- Firmware update via Metz Service

Power supply

- 2 x AA alkaline-magnesium or lithium batteries
- 2 x AA NC or NiMH rechargeable batteries

CANON
NIKON
FUJIFILM (i-TTL)
OLYMPUS
PANASONIC
PENTAX
SONY



TTL	CANON E-TTL	SONY ADI	NIKON i-TTL	OLYMPUS Four Thirds	PANASONIC Four Thirds	PENTAX P-TTL	LEICA Four Thirds	⬆ ⬇ ⬆
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SCA FLASH UNITS

The unique special feature of Metz SCA flash units is that one and the same flash unit can be used with different cameras – it doesn't matter whether they are digital or analog. By simply replacing the adapter, system cameras from different manufacturers can be used, because they offer the richest array of special functions. Flash units with SCA adapters are just as suitable for system camera owners as for medium-format camera owners. All members of the SCA family meet this criteria, whether it is a handheld flash gun or a compact flash.

FLASH TIP

A second look

Many wedding photographs are exclusively standard poses. Anyone who comes up with additional ideas here can score bonus points. Why not photograph the bridal couple or wedding guests during small talk? With some flash, the subject is given additional sharpness and brilliance. For this purpose, there are different partial light output levels to choose from with Metz handheld flash guns.



FLASH TIP

Perfectly-equipped

Tough professional use requires the maximum flash power. The new, practical, high-power Power Pack P 76, which attaches to your belt, provides even more energy. This increases flash output, while simultaneously reducing the flash recycle time. This is a dramatic improvement, which makes it possible to fall back on maximum flash power when taking a battery-draining series of shots.



MECABLITZ 76 MZ-5 DIGITAL

Light power for pros

Powerful handheld flash guns

Worldwide, professional photographers put their trust in the powerful 76 MZ-5 digital from Metz. Above all at weddings and fashion shows, its ability to take fast series of shots pays off. Its secondary reflector – which makes it possible to set perfect highlights in the eye – is worth its weight in gold. It goes without saying that the camera-specific system flash modes of the various manufacturers can also be used perfectly with this professional flash, through different SCA adapters. All menu navigation settings can be activated from the device itself, and a locking function means you won't accidentally change fixed values. Of course, the 76 MZ-5

digital keeps up with the times and provides outstanding flash convenience with a great deal of creative flexibility in setting up shots. Discriminating photographers will appreciate the lasting flash performance ensured by the NiMH rechargeable battery and the Metz charger. It offers considerably more power than the previous NiCad rechargeable battery. The control unit of the 76 MZ-5 digital is specially equipped with a large, illuminated dot matrix display. Plus, the reflector of the zoom flash unit automatically adapts to a focal length range of 24 - 105 mm depending on the type of camera. A wide-angle diffusing disk, included with the flash, enables expansion to 20 mm.

Flash output

- high max. GN of 76 for ISO 100/21° and 105 mm

Basic configuration

- SCA adapter system (universal flash unit useable with different cameras)
- secondary reflector with 3 lighting levels
- vertical (+90°) and horizontal (270°) tilt reflector
- control unit with illuminated dot matrix display
- easy operating concept
- motor zoom for 24 - 105 mm illumination
- accompanying wide-angle diffuser for 20 mm illumination
- modeling light (permanent light for checking the illumination)
- integrated auto-focus measurement flash in the control section
- flash readiness and exposure control indicators on the unit and camera (subject to camera)
- flash range indicator in LCD
- manual key lock

Standard flash modes

- TTL flash mode
- automatic flash mode with 12 automatic apertures
- manual flash mode with 25 partial lighting levels
- stroboscope mode
- 1st and 2nd shutter curtain synchronization
- manual flash exposure correction for TTL or automatic flash mode
- automatic fill-in flash
- flash bracketing

IN DETAIL



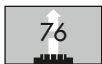
Swivel reflector

Secondary reflector with 3 selectable light lighting levels

Illuminable dot matrix display

Control unit with LCD display and integrated AF measurement flash

SCA 3002 adapter



GN of 76 at ISO 100/21° (105 mm)
GN of 54 at ISO 100/21° (50 mm)

TTL	SONY ADI	CANON E-TTL II	NIKON i-TTL	FUJIFILM i-TTL
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Camera-specific system flash modes with SCA adapters

CANON

- E-TTL / E-TTL-II flash mode

NIKON/FUJIFILM

- i-TTL / i-TTL-BL / D-TTL / 3D flash mode

OLYMPUS/PANASONIC/LEICA

- Four Thirds TTL flash mode

PENTAX

- P-TTL flash mode

SONY ALPHA

- ADI flash mode
- ADI remote mode (slave operation)

Guaranteed in the future

- firmware update possible via Metz Service

Power sources

- Metz NiMH rechargeable battery 76-56 (included with flash)
- powerful Metz NiMH Power Pack P 76 with V 76 cable

Included in delivery

- standard foot
- camera bracket
- NiMH rechargeable batteries
- charger
- wide-angle diffuser (20 mm)



CANON

NIKON

FUJIFILM

HASSELBLAD

LEICA

MAMIYA

OLYMPUS

PANASONIC

PENTAX

ROLLEI

SONY

ACCESSORIES



Mounting bracket 50-25



Power Pack P 76 Set (V76 cable required)



NiMH charger set B 47



Mecabounce 50-90 for softer illumination



Bounce diffuser 76-23 for bounce flash

OLYMPUS Four Thirds	PANASONIC Four Thirds	PENTAX P-TTL	LEICA Four Thirds	A	M	STROBE	↔	DOT MATRIX Display	Motor Zoom	SCA 3002
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MECABLITZ 45 CL-4 DIGITAL BASIC/KIT

For pros

Great performance:

The Metz mecablit 45 CL-4 digital is a powerful handheld flashgun that is very convincing, due to its GN of 45 for ISO 100/21° and 35 mm focal length, as well as the most modern charging method available. It is an ideal flash unit for photographers who put higher priority on high light output and rapid recycling times, as well as extensive optional features. It is equipped with a secondary reflector in order to be able to create perfect highlights in portraits. It goes without saying that the camera-specific system flash modes of the various manufacturers can also be used perfectly with this professional flash, through various SCA adapters.

The TTL mode and the automatic functions can be just as easily set as manual partial lighting, via the practical dial on the top of the 45 CL-4 digital. This flash unit, specially designed for digital cameras, also offers all the important special functions listed above for the 76 MZ-5 digital, including high-speed synchronization (HSS). The reflector's vertical and horizontal tilt and swivel abilities can also be used for indirect flash lighting, just like on the 76 MZ-5 digital. The Power Pack P 76 is available for particularly intensive professional use, which can increase the flash output and further reduce the flash recycle time.

Flash output

- high max. GN of 45 for ISO 100/21° and 35 mm

Basic configuration

- SCA adapter system (flash unit useable with different cameras)
- socket for SCA 3045 digital cable (to connect to SCA adapter on camera shoe)
- secondary reflector with 3 lighting levels
- vertical (+90°) and horizontal (360°) tilt reflector
- LED displays
- standard 35 mm illumination
- accompanying wide-angle diffuser for 28 mm illumination
- integrated auto-focus measurement flash (only via connection cable SCA 3045)
- flash readiness and exposure control indicators on the unit and camera (subject to camera)
- flash range indicator in LED (for manual settings)

Standard flash modes

- TTL flash mode
- automatic flash mode with 6 automatic apertures
- manual flash mode with 5 partial lighting levels
- HSS – high speed synchronization (subject to camera)
- 1st and 2nd shutter curtain synchronization (subject to camera)
- manual flash exposure correction for TTL flash mode (subject to camera)
- automatic fill-in flash

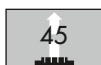
IN DETAIL



Swivel reflector

Secondary reflector

SCA 3002 adapter
with SCA 3045 cable



GN of 45 at ISO 100/21° (35 mm)

TTL	SONY ADI	CANON E-TTL II
-----	-------------	-------------------

Camera-specific system flash modes with SCA adapters

CANON

- E-TTL / E-TTL-II flash mode

NIKON/FUJIFILM

- i-TTL / i-TTL-BL / D-TTL / 3D flash mode

OLYMPUS/PANASONIC/LEICA

- Four Thirds TTL flash mode

PENTAX

- P-TTL flash mode

SONY ALPHA

- ADI flash mode
- ADI remote mode (slave function)

Guaranteed in the future

- firmware update possible via Metz Service

Power sources

- Metz NiMH rechargeable battery 45-56 (included with kit version)
- powerful Metz NiMH Power Pack P 76 with V 76 cable
- alkaline-magnesium batteries (Battery basket 45-39 required separately; already included with BASIC version)

Included in delivery

45 CL-4 DIGITAL BASIC

- Wide-angle diffuser
- Sync cable
- Camera bracket
- Empty battery basket 45-39

45 CL-4 DIGITAL KIT

- Wide-angle diffuser
- Connection cable SCA 3045 digital
- Camera bracket
- NiMH rechargeable battery and charger



CANON

NIKON

FUJIFILM

HASSELBLAD

LEICA

MAMIYA

OLYMPUS

PANASONIC

PENTAX

ROLLEI

SONY

ACCESSORIES



Power Pack P 76 Set
(V76 cable required)



NiMH charger
set B46



Battery basket 45-39



Mecabounce 45-90
for softer
illumination
(Fig. similar)



Bounce diffuser 76-23
for bounce flash

NIKON i-TTL	FUJIFILM i-TTL	OLYMPUS Four Thirds	PANASONIC Four Thirds	PENTAX P-TTL	LEICA Four Thirds	A	M	HSS		SCA 3002
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MECABLITZ 54 MZ-4i DIGITAL

For semi-professionals

Especially versatile:

Presenting the simple and highly functional flagship of the Metz SCA compact flash units.

It is convincing due to the:

- High light output: GN of 54 at ISO 100/21° and 105 mm focal length.
- Large light angle: illumination of a focal length range of 24-105 mm.
- switch-controlled secondary reflector, with light output that can be reduced by using a grey filter.
- Ease of use: a large display ensures you always have a good overview. Only two function keys and a control dial facilitate good handling.

- Great flexibility: To begin with, the Metz 54 MZ-4i digital is available with a standard foot. Furthermore, due to the SCA system, there are many adapters available for almost any camera.
- Diversity: Via various adapters, there are also a great deal of interesting special functions such as E-TTL and E-TTL II flash mode from Canon, i-TTL from Nikon, or ADI flash control from Sony Alpha, and many more, which increase the creative flexibility.

Flash output

- high max. GN of 54 for ISO 100/21° and 105 mm

Basic configuration

- SCA adapter system (flash unit useable with different cameras)
- secondary reflector
- vertical (-7/+90°) and horizontal (270°) tilt reflector
- illuminated LCD display
- easy operating concept
- motor zoom for 24 - 105 mm illumination
- integrated wide-angle diffuser for 20 mm illumination
- modeling light (permanent light for checking the photo)
- integrated autofocus measurement flash
- flash readiness and exposure control indicators on the unit and camera (subject to camera)
- flash range indicator in LCD
- automatic unit switch-off and manual key lock

Standard Flash Modes

- TTL flash mode
- automatic flash mode with 12 automatic apertures
- manual flash mode with 25 partial lighting levels
- stroboscope mode
- HSS – high speed synchronization (Canon, Sony, Nikon analog, Leica)
- 1st and 2nd shutter curtain synchronization
- manual flash exposure correction for TTL or automatic flash mode
- automatic fill-in flash
- flash bracketing

IN DETAIL

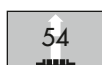


Swivel reflector

Secondary reflector
with attachable
reduction filter

2 function keys,
1 control dial

SCA 3002 adapter



GN of 54 at ISO 100/21° (105 mm)
GN of 40 at ISO 100/21° (50 mm)

TTL	SONY ADI	CANON E-TTL II	NIKON i-TTL	FUJIFILM i-TTL	OLYMPUS Four Thirds
-----	-------------	-------------------	----------------	-------------------	------------------------

Camera-specific system flash modes with SCA adapters

CANON

- E-TTL / E-TTL-II flash mode

NIKON/FUJIFILM

- i-TTL / i-TTL-BL / D-TTL / 3D flash mode

OLYMPUS/PANASONIC/LEICA

- Four Thirds TTL flash mode

PENTAX

- P-TTL flash mode

SONY ALPHA

- ADI flash mode
- ADI remote mode (slave function)

Power sources

- 4 x AA alkaline-magnesium or lithium batteries
- 4 x AA NC or NiMH rechargeable batteries
- powerful Metz NiMH Power Pack P 76 with V 54-50 cable

Included in delivery

- Light reduction filter
- Bag
- Standard foot



CANON

NIKON

FUJIFILM

HASSELBLAD

LEICA

MAMIYA

OLYMPUS

PANASONIC

PENTAX

ROLLEI

SONY

ACCESSORIES



Power Pack P 76
(V 54-50 connection cable required)



Connecting cable SCA 3008A with SCA 3002 adapters and camera bracket 40-36



SCA 3083 digital slave adapter



Mecabounce 44-90 for softer illumination (Fig. similar)



Bounce diffuser 58-23 for bounce flash

PANASONIC Four Thirds	PENTAX P-TTL	LEICA Four Thirds	A	M	STROBE	HSS	⬅➡	☐	LCD	Motor Zoom	SCA 3002
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AUTOMATIC FLASH UNITS

The flash units in this family don't have TTL flash mode; instead, they have the so-called automatic flash mode, in addition to manual flash mode. Numerous photographers still make use of this simple but extremely effective form of flash measurement. With automatic flash mode, it isn't the camera that controls the flash, but instead, the photocell integrated in the flash measures the light reflected from the object. It is a really nice thing!

FLASH TIP

Fill-in flash

Backlighting makes interesting light effects possible, if you know how to use it correctly. A flash should be used in any case. With the flash output reduced by 1 or 2 f-stops, it is possible to retain the character of the existing light. The higher the guide number, the greater the range of the flash unit. However, when comparing, it is important to make sure that the same focal length and the same ISO specification are used.



FLASH TIP

Long exposure times

It is worth experimenting with exposure times that are longer than the flash sync speed. For moving objects, interesting blurring effects and a corresponding brightening of the foreground can be obtained in a range of approx. 1 second. By the way, the easiest way to extend the range of a flash unit is to increase the ISO setting on the camera. To be set at 1600 ISO instead of 100 thus quadrupling the range of the flash unit.

MECABLITZ 36 C-2

For beginners

CANON

NIKON

FUJIFILM

HASSELBLAD

LEICA

MAMIYA

OLYMPUS

PANASONIC

PENTAX

ROLLEI

SONY



Flash output

- max. GN of 36 for ISO 100/21° and 85 mm

Basic configuration

- connection to camera via hot-shoe contact (x-synchronization) or via sync cable (included in delivery)
- vertically tilting reflector +90°
- LED displays
- manual zoom reflector for 28 – 85 mm illumination
- flash readiness and exposure control indicator on the unit

Standard flash modes

- automatic flash mode with 3 automatic apertures
- manual flash mode

Power sources

- 4 x AA alkaline-magnesium batteries
- 4 x AA NC or NiMH rechargeable batteries

Included in delivery

- standard sync cable

Reliable:

Those who are looking for a precise automatic flash with a tilting reflector unit will be well-served by the mecablitz 36 C-2. It offers three different automatic apertures (8, 4, 2, at ISO 100/21°) as well as a manually

adjustable zoom reflector, with which the light output can be optimized within the focal length of 28 - 85 mm. LED displays on the back of the unit give information about the flash readiness and correct exposure.

IN DETAIL



Zoom reflector (28-85mm)

ACCESSORIES



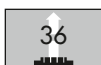
Standard sync cable 36-50



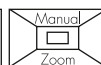
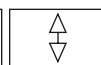
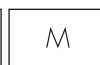
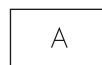
Camera bracket 40-36



Spiral sync cable 36-52



GN of 36 at ISO 100/21° (85 mm)
GN of 30 at ISO 100/21° (50 mm)



MECABLITZ 20 C-2

For price-conscious beginners

Small, but look out:

This is an ideal complement for everyone who loves compactness and doesn't want to go without good flash photos. The smallest compact flash unit currently available from Metz is clearly more effective than the flash integrated into the camera. The mecablitz 20 C-2 with GN 20 at ISO 100/21° and 35 mm focal length is intended for all those who prefer a flash which will also fit into your jacket pocket. This small, chic model offers two automatic apertures. And the special key feature is the swivel reflector! LED displays on the back of the unit provide information about the flash readiness and also the correct exposure.

Flash output

- max. GN of 20 for ISO 100/21° and 35 mm

Basic configuration

- connection to camera via hot-shoe contact (x-synchronization) or via sync cable (included in delivery)
- vertically tilting reflector +90°
- LED displays
- flash readiness and exposure control indicator on the unit

Standard flash modes

- automatic flash mode with 2 automatic apertures
- manual flash mode

Power sources

- 2 x AA alkaline-magnesium batteries
- 2 x AA NC or NiMH rechargeable batteries

Included in delivery

- standard sync cable



CANON

NIKON

FUJIFILM

HASSELBLAD

LEICA

MAMIYA

OLYMPUS

PANASONIC

PENTAX

ROLLEI

SONY

IN DETAIL ACCESSORIES



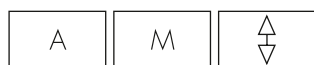
Practical tilt reflector



Standard sync cable 36-50



Camera bracket 40-36



GN of 20 at ISO 100/21° (35 mm)



SLAVE/SERVO FLASH UNITS



Servo mode (light controlled):

With the mecablitz 28 CS-2 digital, you have a pure slave flash unit at your disposal that only flashes when you want it to – with any camera. This is made possible by its learning function, which recognizes the pre-flash of your camera and only responds to its main flash. With this model, the picture results can be controlled very easily via the plus/minus buttons.

Metz slave mode

(wireless Metz remote system):

This clever Metz system facilitates targeted light control for two Metz flash units. Here, one is attached directly to the camera as a so-called master flash. In contrast, the other slave flash unit can be positioned anywhere in the room. For this type of slave mode, a current Metz SCA flash unit is equipped with an SCA slave adapter (SCA-3083) instead of the SCA camera adapter, which is used for a conventional flash. This slave adapter makes additional slave qualities possible. By using a mecalux 11 as a server flash trigger, a flash unit can also be activated. However, all settings must be made on the flash unit



itself here.

Slave mode for the respective camera manufacture:

The three system flash units mecablitz 58 AF-2 digital, mecablitz 50 AF-1 digital und 44 AF-1 digital open up another way to use slave mode. These models can be used as intelligent slave versions, supporting the flash modes of the respective camera manufacturers. In addition, the mecablitz 58 AF-2 digital has a master function that you can always use if the integrated flash of the camera doesn't provide a master mode.



Slave/servo mode at close range:

The Metz macro flash is fixed directly on the subject and creates precise yet creative lighting for close-ups. In addition to which the Metz mecablitz 15 MS-1 digital can also be used in its slave function for effectively brightening up dark areas of the picture.



FLASH TIP

Side lighting

The slave flash mode is interesting in order to obtain especially varied directed lighting. Completely without a cable (wireless), this method can be used to place and trigger an external flash at any place in the room. In this way, interesting additional lighting can be set, whether in the form of a light accent or a side light, for example. Naturally, multiple slaves can be used at the same time. It is particularly exciting to use this to obtain separate lighting for the subject and the background of the picture.



FLASH TIP

Creative at close range:

Correct lighting is of particular importance in the macro range. The Metz macro flash 15 MS-1 digital is especially suited for this. Due to its positioning directly on the lens the light cannot fail to reach its destination. With its ring form and completely wireless functionality, the new Metz flash unit is excitingly attractive. Special light accents and a variety of lighting options are also possible thanks to adjustable reflectors. Thus, directed light can be adjusted in terms of contrast and brightness. In the slave mode, the Metz mecablitz 15 MS-1 can also be used to effectively lighten shadowed areas of pictures.



MECABLITZ 28 CS-2 DIGITAL

For the imaginative

Flash with a fun factor:

Have you ever been upset due to photographs that are too dark, because the integrated flash in your camera was once again inadequate? Wouldn't you like to have a handy flash unit that can also be used separate from the camera once in a while? Then Metz has the perfect solution for you! Let the curtain rise for the Metz mecablitz 28 CS-2 digital, with technology and a size that have been optimally matched to compact digital cameras. The fun factor is increased by the self-learning

servo mode and the smart EASY mode. For the very first time the flash result can be directly manipulated via the immediate correction buttons (+/-). Simply shoot, check the result on the camera screen and adjust straight away as required – all at the touch of a button. Thanks to this servo model you can increase your flash power without any undesired side effects. The compact tool draws its power from either universally available alkaline micro batteries or equally competitive rechargeable micro batteries.

Flash output

- max. GN of 28 for ISO 100/21° and 85 mm

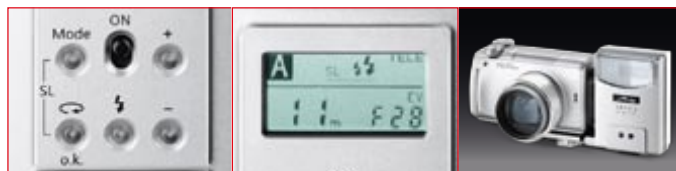
Basic configuration

- Servo mode: flash unit exposure via built-in camera flash or additional external flash unit
- LCD display
- flash readiness and exposure control indicator on the unit
- flash range indicator in the LCD
- illumination from 24 mm (wide-angle diffuser) up to 85 mm (telephoto attachment)
- automatic unit switch-off

Standard flash modes

- automatic flash mode with 8 automatic apertures
- manual flash mode with 4 partial lighting levels
- Easy Mode: manual exposure correction with +/- buttons

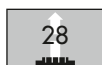
IN DETAIL



Easy control with the +/- buttons

Clearly laid out display

Perfect for mounting on the integrated, extendible telescopic bracket



GN of 28 at ISO 100/21° (85 mm)
GN of 22 at ISO 100/21° (35 mm)

Special feature

- Learning mode: optimum adaptation of the flash unit to the camera-specific pre-flash only once at the beginning
- Metz-specific TTL remote mode (slave mode) with other Metz flash units as the master

Guaranteed in the future

- firmware update possible via Metz Service

Power sources

- 2 x AAA alkaline-magnesium batteries
- 2 x AAA NC or NiMH rechargeable batteries

Included in delivery

- wide-angle diffuser (24 mm)
- telephoto attachment 85 mm
- extendible, integrated telescopic bracket to be fastened to the tripod socket of the camera



MECABLITZ 15 MS-1 DIGITAL

For those who love attention to detail

Innovation in the macro world!

As a wireless macro flash, the Metz mecablitz 15 MS-1 digital has two individually adjustable reflectors. As a result this new ring-shaped macro flash ensures even, precise lighting. On the other hand it also enriches creative lighting configuration in the macro range. There are no limits to personal creativity thanks to the individually adjustable reflectors (0°- 20°) and the associated finely calibrated light-distribution. In this way it is particularly easy to create effective high-lights with any subject. This is all achieved with maximum ease because the Metz mecablitz 15 MS-1 digital automatically adjusts its light output by means of wireless TTL*,

making it particularly reliable and precise. There is also a clear, dot-matrix display, which makes the mecablitz 15 MS-1 digital even easier to use. If you are looking for even greater scope for creativity, you can use the manual control facility of the new mecablitz 15 MS-1. This enables you to vary the amount of light given off, with six levels of light output. Space-saving internal (rechargeable) batteries provide efficient power supply. The Metz mecablitz 15 MS-1 digital is compatible with all camera manufacturers (Canon, Nikon, Olympus, Panasonic, Pentax und Sony-Alpha) – and naturally, even if the camera has no built-in flash, manual flash mode is possible via sync cable.

Flash output

- High max. guide number of 15 with ISO 100/21° und 50 mm

Basic configuration

- Two reflector system, individually adjustable (0 °, 10 °, 20 °) and separately accessible.
- Ratio (light distribution from left to right) 8:1, 4:1, 2:1, 1:1, 1:2, 1:4, 1:8
- DOT matrix display
- Second shutter curtain synchronisation (subject to camera)
- Slow synchronisation (SLOW)
- Autofocus auxiliary light

Standard flash modes

- Wireless servo flash mode with/without pre-flash suppression
- Servo mode with learning function
- Manual flash mode (operation via sync socket/servo)

* For TTL operation in the remote mode, you need a master flash unit. Depending on the camera manufacturer or camera model, the TTL specific master function has an integrated or external flash, as the Metz 58 AF-1 or the Metz 58 AF-2. More details at www.metz.de

IN DETAIL



Dot-matrix display



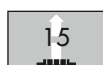
Wireless TTL flashes



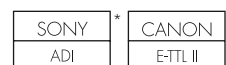
3-stage swivel reflector



Bouncer disk included – makes for softer lighting.



GN of 15 at ISO 100/21° (50 mm)



Camera-specific flash modes

Wireless TTL flash control, remote slave mode available for:

CANON

- E-TTL / E-TTL II flash mode

NIKON/FUJIFILM

- i-TTL flash mode

OLYMPUS

- RC system

PENTAX

- P-TTL flash mode

SONY ALPHA

- DSLR remote flash mode

Ready for the future

- Firmware update via integrated USB socket

Power supply

- Integrated power supply via 2 x AAA (micro) alkaline magnesium batteries (1.5V)
- 2xAAA (Micro) NiMH/NC rechargeable batteries (1.2V)
- 2xAAA (micro) lithium batteries (1.5V)

Accessories included

- Bounce diffuser
- Adapter ring 52 mm, 55 mm, 58 mm
- IR filter bracket
- Belt pouch



CANON
NIKON
FUJIFILM
OLYMPUS
PANASONIC
PENTAX
SONY



ACCESSORIES



Bouncer diffuser (included)

Adapter rings (52, 55, 58mm) and IR brackets (included)

Belt pouch (included)

Adapter rings (62, 67, 72mm) (optional extra)

NIKON [*]	FUJIFILM [*]	OLYMPUS [*]	PANASONIC [*]	PENTAX [*]	M	SLAVE	USB	↔	DOT MATRIX Display	SERVO
i-TTL	i-TTL	Four Thirds	Four Thirds	P-TTL						

* With respective remote slave operation

QUICK SEARCH

76 MZ-5 DIGITAL

45 CL-4 DIGITAL KIT
INCL. SCA 3045

45 CL-4 DIGITAL BASIC

CANON				
Analog EOS cameras (except EOS 300X)		SCA 3102	SCA 3102	SCA 3102 + SCA 3045
Digital cameras	DSLR	SCA 3102	SCA 3102	SCA 3102 + SCA 3045
	Power Shot G6, G7, G9, S5 IS, G10, G11, SX1 IS, SX10 IS, SX20 IS	SCA 3102	SCA 3102	SCA 3102 + SCA 3045
NIKON				
Analog AF-SLR cameras	(except F6)	SCA 3402	SCA 3402	SCA 3402 + SCA 3045
	F6	SCA 3402	SCA 3402	SCA 3402 + SCA 3045
Digital cameras	DSLR (except D100, D1x, D2x, D2h)	SCA 3402	SCA 3402	SCA 3402 + SCA 3045
	D100, D1x, D2x, D2h	SCA 3402	SCA 3402	SCA 3402 + SCA 3045
	Coolpix 8400, 8800, P5000, P5100	SCA 3402	SCA 3402	SCA 3402 + SCA 3045
FUJIFILM				
	S7000, S9500, S9600, S100FS, S200EXR, HS10	301	SCA 300A + SCA 301	SCA 300A + SCA 301
	S1 Pro, S2 Pro, S5 Pro	SCA 3402	SCA 3402	SCA 3402 + SCA 3045
	S3 Pro	SCA 3402	SCA 3402	SCA 3402 + SCA 3045
HASSELBLAD				
	6x6	SCA 390	SCA 390	SCA 390 + SCA 300 A
	H1, H2, H3, H4	SCA 3902	SCA 3902	SCA 3902 + SCA 3045
LEICA				
	R4, R4s, R5, R6, R6.2, R7, RE	SCA 351	SCA 351	SCA 351 + SCA 300 A
	R8, R9, M6 TTL, M7, M8, Digilux 2, CM, M8.2, M9	SCA 3502	SCA 3502	SCA 3502 + SCA 3045
	Digilux 1	301	SCA 300A + SCA 301	SCA 300A + SCA 301
	Digilux 3, V-Lux 1, D-Lux 4	SCA 3202	SCA 3202	SCA 3202 + SCA 3045
MAMIYA				
	645 Pro TL	SCA 396 + SCA 300 E + 50-35	SCA 396	SCA 396
	645 AF, ZD	SCA 3952	SCA 3952	SCA 3952 + SCA 3045
OLYMPUS				
	C-770, C-8080, SP-350, SP-570 UZ, E-Series, Pen E-P1, Pen E-P2, Pen E-PL1	SCA 3202	SCA 3202	SCA 3202 + SCA 3045
PANASONIC				
	DMC-FZ20, DMC-FZ30	301	SCA 300A + SCA 301	SCA 300A + SCA 301
	DMC-LC 1	SCA 3502	SCA 3502 M5	SCA 3502 M5 + SCA 3045
	DMC-FZ50, DMC-L1, DMC-L10, DMC-LX3, DMC-G1, DMC-GH1, DMC-G10, DMC-G2	SCA 3202	SCA 3202	SCA 3202 + SCA 3045
PENTAX				
	DSLR	SCA 3702	SCA 3702	SCA 3702 + SCA 3045
ROLLEI				
	2,8GX, 6008	SCA 356 + SCA 300 D	SCA 356	SCA 356 + SCA 300 A
	6008 AF, Hy6	SCA 3562	SCA 3562	SCA 3562 + SCA 3045
SAMSUNG				
	GX-10, GX-1L, GX-1S, GX-20	SCA 3702	SCA 3702	SCA 3702 + SCA 3045
SONY				
	Alpha	SCA 3302	SCA 3302	SCA 3302 + SCA 3045

Regarding your type of camera, also take note the SCA packaging imprint and the M version of the adapter.
For current versions of the flash units or alternatively the adapters, see www.metz.de.

	58 AF-2 DIGITAL	54 MZ-4i DIGITAL	50 AF-1 DIGITAL	44 AF-1	36 AF-5/36C-2	24 AF-1/20 C-2	15 MS-1 DIGITAL *
	58 AF-2C	SCA 3102	50 AF-1C	44 AF-1C	36 AF-5C	24 AF-1C	•
	58 AF-2C	SCA 3102	50 AF-1C	44 AF-1C	36 AF-5C	24 AF-1C	•
	58 AF-2C	SCA 3102	50 AF-1C	44 AF-1C	36 AF-5C	24 AF-1C	•
	58 AF-2N	SCA 3402	50 AF-1N	44 AF-1N	36 AF-5N	24 AF-1N	•
	58 AF-2N	SCA 3402	50 AF-1N	44 AF-1N			•
	58 AF-2N	SCA 3402	50 AF-1N	44 AF-1N	36 AF-5N	24 AF-1N	•
	58 AF-2N	SCA 3402	50 AF-1N				•
	58 AF-2N	SCA 3402	50 AF-1N	44 AF-1N	36 AF-5N	24 AF-1N	•
		301			36 C-2	20 C-2	•
	58 AF-2N	SCA 3402	50 AF-1N	44 AF-1N	36 AF-5N	24 AF-1N	•
	58 AF-2N	SCA 3402	50 AF-1N				•
		SCA 390 + 40-36					•
		SCA 3902					•
		SCA 351					•
		SCA 3502					•
		301			36 C-2	20 C-2	•
	58 AF-2O	SCA 3202	50 AF-1O	44 AF-1O	36 AF-5O	24 AF-1O	•
		SCA 396 + SCA 300 E + 40-36					•
		SCA 3952					•
	58 AF-2O	SCA 3202	50 AF-1O	44 AF-1O	36 AF-5O	24 AF-1O	•
		301			36 C-2	20 C-2	•
		SCA 3502					•
	58 AF-2O	SCA 3202	50 AF-1O	44 AF-1O	36 AF-5O	24 AF-1O	•
	58 AF-2P	SCA 3702	50 AF-1P	44 AF-1P	36 AF-5P	24 AF-1P	•
		SCA 356 + SCA 300 D					•
		SCA 3562					•
	58 AF-2P	SCA 3702	50 AF-1P	44 AF-1P	36 AF-5P	24 AF-1P	•
	58 AF-2S	SCA 3302	50 AF-1S	44 AF-1S	36 AF-5S	24 AF-1S	•
	28 CS-2 DIGITAL is suitable for compact cameras of all brands with an integrated flash						

* The following operating modes are available, depending on camera configuration:

- Remote TTL slave
- Servo with or without preflash suppression
- Manual mode via sync cable

Please follow the operating instructions. Consult www.metz.de for more information

TECHNICAL DATA

Configuration features:

	76 MZ-5 DIGITAL	45 CL-4 DIGITAL BASIC / KIT	58 AF-2 DIGITAL	54 MZ-4i DIGITAL	50 AF-1 DIGITAL	44 AF-1 DIGITAL	36 AF-5 DIGITAL	36 C-2	28 CS-2 DIGITAL	24 AF-1 DIGITAL	20 C-2	15 MS-1 DIGITAL
Flash output												
GN for ISO 100 and 35 mm or 50 mm	54	45	42	40	36	32	30	30	22	24	20	15
GN for ISO 100 and max. zoom	76	45	58	54	50	44	36	36	28	24	20	15
Basic configuration												
Adapter system SCA 300	•	•		•								
Adapter system SCA 3002	•	•		•								
Illumination from ... mm (KB format)	20	28	12	20	12	12	18	28	24	35	35	50
Motor zoom main reflector	•		•	•	•	•						
Manual zoom main reflector							•	•				
Extended zoom mode for main reflector	•		•	•	•							
Main reflector can be tilted and rotated	• / •	• / •	• / •	• / •	• / •	• / •	• / -	• / -		• / -	• / -	• / •
Vertical tilting range in °	+90	+90	-7...+90	-7...+90	-7...+90	+90	+90	+90		+90	+90	
Horizontal swiveling range in °	270	360	300	270	300	300						20
Integrated wide-angle diffuser for illumination in mm (KB format)			12	20	12	12						
Attachable wide-angle / telephoto / bounce diffuser lens cover	• / - / -	• / - / -					• / - / -		• / • / -			- / - / •
Integrated reflector card for main reflector			•		•	•						
Secondary reflector / partial lighting levels (manually adjustable)	• / 2	• / 2	• / 2	• / -								
Secondary reflector support for system flash functions	•	•	•									
Dot matrix display / illuminated	• / •		• / •									• / -
LCD display / illuminated				• / •	• / •				• / -			
LED displays		•				•	•	•		•	•	
Range display	•		•	•	•				•			
Flash readiness indicator / exposure control indicator on the flash unit	• / •	• / •	• / •	• / •	• / •	• / •	• / •	• / •	• / •	• / •	• / •	• / •
Acoustic status messages (beep)	•		•	•								
Modelling light function	•		•	•	•	• ⁷⁾						•
Manual key lock (KEYLOCK)	•		•	•								
Automatic unit switch-off (auto off)			•	•	•	•	•		•	•		
Wake-up function by the camera			•	•	•	•	•			•		
Automatic AF measurement flash / multi-zone AF measurement flash	• / -	¹⁾ / -	• / •	• / -	• / -	• / -	• / -			• / -		
AF auxiliary light												•
Metz remote flash mode (master/slave)	• / •	- / ²⁾		• / ⁴⁾					- / •			
Standard flash modes												
TTL flash mode (without pre-flash)	•	•	•	•	•	•	•			•		
Automatic flash mode (f-stops)	• (12)	• (6)	• (12)	• (12)				• (3)	• (8)		• (2)	
EASY Mode flash mode									•			
Manual flash mode	•	•	•	•	•	•		•	•		•	•
Partial lighting levels	25	5	25	25	8	4			4			6
Servo flash mode ⁷⁾ (without pre flash suppression/with pre flash suppression/learning function)	⁴⁾ / ⁴⁾ / -	²⁾ / ²⁾ / -	• / • / -	⁴⁾ / ⁴⁾ / -	• / • / -				• / • / •			• / • / •
Stroboscope flash mode	•		•	•								
System flash functions												
Automatic fill-in flash	•	•	•	•	•	•	•			•		
Flash-ready indication in camera viewfinder	•	•	•	•	•	•	•			•		
Exposure control indication in camera viewfinder ⁷⁾	•	•	•	•	•	•	•			•		
1st and 2nd shutter curtain synchronization ⁷⁾	•	•	•	•	•	•	•			•		•
High-speed synchronization (HSS or FP)		•	•	•	•							
Manual flash exposure correction	•	⁶⁾	•	•	•							
Manual flash bracketing	•		•	•								
Pre-flash function against the "red eye effect" ⁷⁾	•	•	•	•	•	•	•			•		

			76 MZ-5 DIGITAL	45 CL-4 DIGITAL BASIC / KIT	58 AF-2 DIGITAL	54 MZ-4I	50 AF-1 DIGITAL	44 AF-1 DIGITAL	36 AF-5 DIGITAL	36 C-2	28 CS-2 DIGITAL	24 AF-1 DIGITAL	20 C-2	15 MS-1 DIGITAL
Configuration features:														
System flash modes														
Canon E-TTL / E-TTL-II flash mode			• / •	• / •	• / •	• / •	• / •	• / •	• / -			• / -		
Canon FE flash exposure memory for E-TTL and E-TTL-II flash mode			•	•	•	•	•	•	•			•		
Canon E-TTL remote flash system as master/controller/slave					• / • / •		- / - / •	- / - / •						- / - / •
Leica group number control (GNC)			•	•		•								
Nikon 3D multi-sensor fill-in flash mode			•	•	•	•	•							
Nikon D-TTL / 3D flash mode			• / •	• / •	• / •	• / •	• / •							
Nikon FV flash exposure memory for i-TTL and i-TTL-BL flash mode			•	•	•	•	•	•	•			•		
Nikon i-TTL / i-TTL-BL flash mode			• / •	• / •	• / •	• / •	• / •	• / •	• / -			• / -		
Nikon matrix controlled fill-in flash mode			•	•	•	•	•							
Nikon underexposure warning in EV (f-stops)			•		•	•								
Nikon i-TTL remote flash system as master/controller/slave					• / • / •		- / - / •	- / - / •						- / - / •
Olympus/Panasonic/Leica Four Thirds System (TTL compatible)			•	•	•	•	•	•	•			•		
Olympus Four Thirds System TTL remote flash system (RC mode)					•		•	•						•
Pentax/Samsung contrast control			•	•	•	•	•							
Pentax/Samsung P-TTL flash mode			•	•	•	•	•	•	•			•		
Pentax Spot-beam mode			•	•	•	•	•							
Pentax/Samsung P-TTL remote flash system as master/controller/slave					• / • / •		- / - / •	- / - / •						- / - / •
Sony DSLR-ADI flash control			•	•	•	•	•	•	•			•		
Sony DSLR multi-zone flash measurement (TTL pre-flash measurement)			•	•	•	•	•	•	•			•		
Sony DSLR remote flash system as master/controller/slave (CTRL/CTRL+ operation)					• / • / •		- / - / •	- / - / •						- / - / •
Guaranteed in the future														
Firmware update via Metz Service			•	•	•		•	•	•		•	•		•
Firmware update via USB port					•		•	•						•
Power supply														
Runs on alkaline-magnesium batteries (1.5 V)				³⁾	•	•	•	•	•	•	•	•	•	•
Runs on NC rechargeable batteries or NiMH rechargeable batteries (1.2 V)					•	•	•	•	•	•	•	•	•	•
Runs on lithium batteries (1.5 V)					•	•	•	•			•			•
Runs on Metz NiMH rechargeable battery pack			•	•										
External energy supply with Metz Power Pack P 76			•	•	•	•								
Number of flashes (at full light output)														
Running on alkaline-magnesium batteries (1.5 V)				170	180	180	210	220	450	450	100 ⁵⁾	200	150	140 ⁵⁾
Running on NiMH rechargeable batteries (1.2 V/2100 mAh)					250	230	330	270	460	460	140 ⁵⁾	250	190	200 ⁵⁾
Running on lithium batteries (1.5 V)					320	240	460	450			175 ⁵⁾			250 ⁵⁾
Running on Metz NiMH rechargeable battery pack (1600 mAh)			160	200										
External energy supply with Metz Power Pack P 76			350	400	430	430								
Flash cycle time in sec. (min./max.)														
Running on alkaline-magnesium batteries (1.5 V)				0,1/4	0,1/4,5	0,1/6	0,1/3,5	0,1/3	0,3/3	0,3/5	0,3/8	0,3/5	0,3/10	0,3/4
Running on NiMH rechargeable batteries (1.2 V)					0,1/4,5	0,1/5	0,1/3,5	0,1/3	0,3/3	0,3/5	0,3/6	0,3/6	0,3/8	0,3/4
Running on lithium batteries (1.5 V)					0,1/4,5	0,1/10	0,1/3,5	0,1/4		0,3/5	0,3/6		0,3/8	0,3/5
Running on Metz NiMH rechargeable battery pack			0,1/4	0,1/4										
External energy supply with Metz Power Pack P 76			0,3/2,5	0,1/3	0,1/2,5	0,1/2,5								
Size and weight														
Weight without power source in g (approx.)		Lamp pole Control section	880 138	680	355	480	340	320	205	205	140	140	120	190
Approx. dimensions in mm (W x H x D)	W	Lamp pole Control section	103 67	92	71	75	71	73	71	73	75.5	65	65	133
	H	Lamp pole Control section	244 35	247	148	125	137	128	115	110	83	98	98	144
	D	Lamp pole Control section	118 89	102	99	108	99	105	95	87	32.5	54	54	38

1) With connecting cable SCA 3045

2) With slave adapter SCA 3083 digital and connecting cable SCA 3045

3) With battery case 45-39

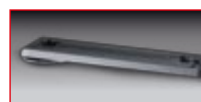
4) With slave adapter SCA 3083 digital

5) Running on micro-cells (AAA): NiMH (1000 mAh)

6) With SCA 3045 (subject to camera)

7) subject to camera

ACCESSORIES



	76 MZ-5 DIGITAL	45 CL-4 DIGITAL KIT	45 CL-4 DIGITAL BASIC	58 AF-1/-2 DIGITAL	54 MZ-4I DIGITAL	50 AF-1 DIGITAL/ 48 AF-1 DIGITAL	44 AF-1 DIGITAL	36 AF-4/36 AF-5	36 C-2	28 CS-2 DIGITAL	24 AF-1 DIGITAL	20 C-2	15 MS-1 DIGITAL
Rechargeable batteries and battery case													
NiMH rechargeable batteries 45-56		•	•										
NiMH rechargeable batteries 76-56	•												
Battery basket without batteries 45-39		•	•										
Charging sets and chargers													
NiMH charger set B 46		•	•										
NiMH charger set B 47	•												
Power packs and accessories													
Power Pack P 76 Set (incl. charger)	•	•	•	•	•								
Connecting cable V 76 (for P 50 / P 76)	•	•	•										
Connecting cable V 58-50 (for P 50 / P 76)				•									
Connecting cable V 54-50 (for P 50 / P 76)					•								
Connecting cable V 50 (for P 50 / P 76)	•	•											
mecabounce													
mecabounce 44-90					•								
mecabounce 52-90							•						
mecabounce 50-90	•												
mecabounce 45-90		•	•										
mecabounce 58-90				•		•							
Sync cables													
Standard sync cable 15-50													•
Spiral sync cable 36-52	1)				1)				•			•	
Spiral sync cable 45-49		•	•										
Standard sync cable 36-50 (25 cm)	1)				1)				•			•	
Standard sync cable 45-47 (40cm)		•	•										
Standard sync cable 45-48 (100cm)		•	•										
Camera brackets and accessories													
Camera bracket 40-36					•				•			•	
Camera bracket 32-38	•	•	•										
Bracket adapter 60-28		•	•										
Mounting bracket for control unit 50-35	•												
Bracket plate for medium format 70-35	•	•	•										

	76 MZ-5 DIGITAL	45 CL-4 DIGITAL KIT	45 CL-4 DIGITAL BASIC	58 AF-1/-2 DIGITAL	54 MZ-4I DIGITAL	50 AF-1 DIGITAL/ 48 AF-1 DIGITAL	44 AF-1 DIGITAL	36 AF-4/36 AF-5	36 C-2	28 CS-2 DIGITAL	24 AF-1 DIGITAL	20 C-2	15 MS-1 DIGITAL
Bounce diffusers													
				•	•	•	•						
Bounce diffuser 76-23	•	•	•										
mecalux													
mecalux 11	•	•	•		•								
Camera straps													
Camera straps 50-31	•	•	•										
Connecting cable													
SCA 3008 A for SCA 3002 adapter					•								
SCA 307 A for SCA 300 adapter					•								
SCA 3045 for SCA 300/3002 adapter		•	•										
SCA 300 A for SCA 300 adapter		•	•										
Adapters													
SCA 356 for Rollei ⁴⁾	3)	5)	5)		3)								
SCA 390 for Hasselblad ⁴⁾	•	5)	5)		•								
SCA 3102 for Canon	•	2)	2)		•								
SCA 3202 for Olympus / Panasonic / Leica	•	2)	2)		•								
SCA 3302 for Konica Minolta / Sony	•	2)	2)		•								
SCA 3402 for Nikon	•	2)	2)		•								
SCA 3502 for Leica	•	2)	2)		•								
SCA 3562 for Rollei ⁴⁾	•	2)	2)		•								
SCA 3702 for Pentax	•	2)	2)		•								
SCA 3902 for Hasselblad ⁴⁾	•	2)	2)		•								
SCA 3952 for Mamiya ⁴⁾	•	2)	2)		•								
SCA 3083 digital slave adapter	•	2)	2)		•								
SCA 300 E	•				•								
Standard foot 301	•	2)	5)		•								
Lens adapter rings													
62mm adapter ring													•
67mm adapter ring													•
72mm adapter ring													•

1) = Standard foot 301 required

2) = SCA 3045 required

3) = SCA 300 D required

4) = Can be obtained from the reseller partners of the camera manufacturer

5) = SCA 300 A or SCA 3045 required

TECHNICAL GLOSSARY

A

AF measurement flash

 An autofocus auxiliary light (AF measurement flash) integrated in the flash unit automatically supports the central autofocus sensor of the camera in the event of low ambient light. For a multi-zone AF measurement flash, the decentralized AF sensors are supported in the process.

Automatic unit switch-off

 During extended breaks from photographing, the flash unit is switched automatically to an energy-saving standby state to prevent the power source from discharging (Auto-Off). Through the wake-up function, the flash unit is reactivated, for example when the shutter release is actuated.

Automatic flash mode

 A photo sensor integrated in the flash unit measures the subject during photographing, and automatically terminates the light output as soon as the subject is correctly exposed.

B

Buzzer

 Additional acoustic status messages can be activated for flash readiness, flash exposure control as well as warning tones.

C

Correct exposure indication

 The correct exposure indication OK is shown on the flash unit after the photograph if the subject in automatic or TTL flash mode was correctly exposed.

D

D-TTL

 Modern further development of the TTL flash control with measurement pre-flash technique for Nikon cameras.

3D and D-TTL-3D

 For the 3D-TTL (Nikon) and  D-TTL-3D flash control, additional data such as the distance to the subject, for example, is taken into consideration in the flash exposure.

Dot matrix display with soft keys

 Individual adaptation of the display on the camera system and the operating state for optimum and self-explanatory operation of the flash unit via soft keys.

E

E-TTL

 Modern further development of the TTL flash control with measurement pre-flash technique for Canon EOS and PowerShot cameras.

E-TTL II

 For E-TTL-II, additional data is taken into consideration during flash exposure such as the distance to the subject and the guide number of the flash unit, for example.

Extended zoom

 With Motor Zoom mode, the main reflector illuminates the subject more than necessary by one reflector position. As a result, the additional dispersed light provides softer illumination of the subject.

F

Flash bracketing

 Flash bracketing series with three photos of different flash exposure: minus correction value, no correction value, and plus correction value.

Flash readiness indication

 The flash readiness indication illuminates when there is enough energy in the flash capacitor of the flash unit.

G

Guide number (GN)

 The guide number is the code number for the light output of a flash unit. It is dependent on the set light sensitivity ISO and (for zoom reflectors) on the reflector position, as well as on any reflector attachments that may be in use (e.g. wide-angle or telephoto lens cover). For high speed synchronization (HSS), the guide number is dependent on the shutter speed as well.

H

HSS – high speed synchronization

 In high speed synchronization (HSS), you can flash with exposure times that are shorter than the flash sync time of the camera. As a result, flash photos with wide aperture openings are possible for high ambient light levels, for example to limit the depth of field in portrait shots.

I

i-TTL

 Modern further development of the TTL flash control with measurement pre-flash technique for Nikon and Fujifilm cameras.

i-TTL-BL

 For the i-TTL BL flash control, additional data such as the distance to the subject, for example, is taken into consideration in the flash exposure.

K

Key function

 Locking of the operating elements. Protects against unintentional changes.

L

LCD / LED display

 Provides information on the flash modes and settings being used. (>>> Dot matrix display)

M

Manual flash mode

 Flash mode with unregulated light output. The flash unit delivers the full light output, if no partial light output is set.

Manual zoom

 The zoom position of the main reflector and thus the illumination of the flash unit can be adjusted manually to the lens focal length.

Metal stand

 High quality metal base for secure attachment on camera shoe.

Modeling light



Modeling light is a stroboscope light with a high flash frequency lasting a few seconds. With this "quasi permanent light", the light dispersion and shadow formation at the subject can be checked before taking the photograph.

Motor zoom



The zoom position of the main reflector and hence the illumination of the flash unit can be adjusted automatically to the lens focal length.

P

Partial light mode



Manual flash mode with unregulated light output. By setting partial light mode on the flash unit, the light output or illumination duration of the flash unit can be adapted specifically to the photographic situation.

P-TTL



Modern further development of the TTL flash control with measurement pre-flash technique for Pentax cameras.

R

REAR



Synchronisation to the 2nd shutter curtain for more natural blurring effects for longer exposure times.

Remote operation



A remote system consists of a master or controller flash unit on the camera and one or more slave flash units. The slave flash unit is remotely controlled wirelessly by the master or controller flash unit. With a master flash unit, the flash light contributes to the exposure, in contrast to a controller flash unit.

S

SCA 3002 adapter system



For system cameras with digital or analog data transmission between the camera and flash unit. By using an SCA adapter from the SCA 3002 system, there are numerous additional system flash functions available with flash units from the SCA 3002 system, depending on the type of camera. The firmware of an SCA adapter from the SCA 3002 system is updateable via Metz service for future cameras. The SCA 3002 adapters are an updated version of the SCA 3000 system.

SCA 300 adapter system



For system cameras for adaptation to flash units of the SCA 3002 or SCA 300 system. Depending on the type of camera, not all system flash functions are supported by the SCA 300 system.

Secondary reflector



To brighten shadows cast in the close-up ranges which appear when using an indirect flash.

Servo mode



The servo mode allows you to operate the Metz flash unit of the corresponding camera system wirelessly with the built-in flash unit on the digital camera. Allows light output to be calibrated as partial lighting.

Slave mode



An integrated sensor makes this wireless slave flash mode possible in combination with a master or controller flash unit. (>>> Remote operation)

Sony / ADI



Modern further development of the TTL flash control for Sony Alpha and Konica-Minolta cameras in which, for example, the data for distance to the subject must be put into the flash exposure in addition.

Stroboscope mode



Manual flash mode for flash sequences with a selectable intensity, frequency, and number of flashes, e.g. for special effect photos and motion studies.

Swivel reflector



Can be tilted horizontally and vertically for indirect flash.



Can be tilted vertically for indirect flash.

T

TTL flash control



While taking the photograph, the flash light is measured through the lens (TTL = through the lens) by a sensor in the camera. The light output of the flash unit is terminated as soon as the subject is correctly exposed.

TTL fill-in flash control



Reduces too high subject contrast (e.g. to brighten dark shadowy areas in bright sunshine).

U

USB



Interface for firmware updates via the Internet.

W

Wake-up



The flash unit can be reactivated by actuating the shutter release if the flash is in energy-saving standby mode after an extended break from taking photographs.

(>>> Automatic unit switch-off)

Wide-angle attachment



Increases the light angle of the flash unit. Depending on the type of flash unit, the wide-angle attachment is either integrated or attachable as an accessory.

Z

Zoom size



Automatic adaptation of the display of the reflector position of the flash unit to the picture-taking chips for digital cameras.



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Metz – Quality made in Germany

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