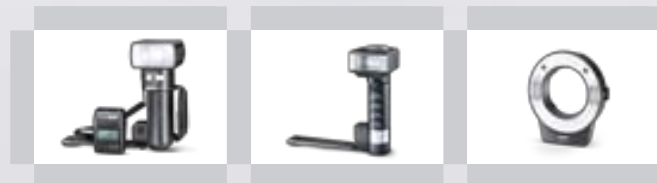




# THE FASCINATION OF FLASH PHOTOGRAPHY –

Metz mecablitz – Flash units for  
analog and digital cameras



METZ MECABLITZ

COMPLETE PHOTO ELECTRONICS CATALOGUE 2008/2009

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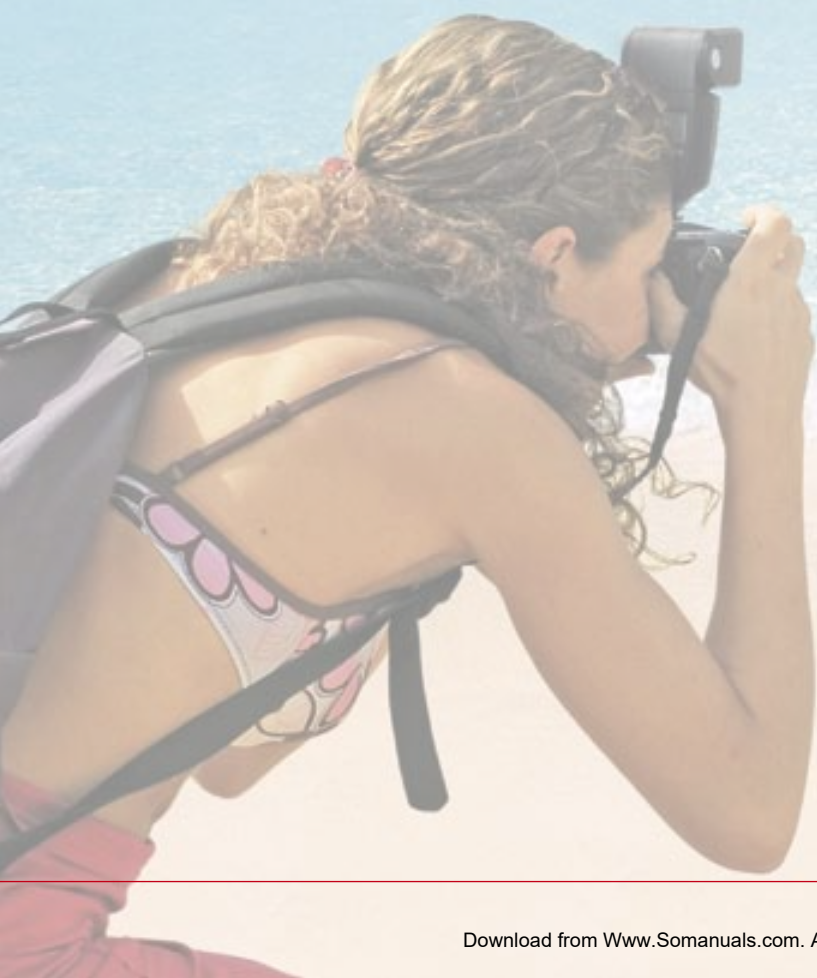
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# Into the future with tradition

**MECABLITZ**  
Die ersten und einzigen Blitzgeräte der Welt mit selbstleuchtendem SONNENLICHTFILTER und BLENDENMESSER

Durch die folgenden einmaligen Neuerungen und Fortzüge der Metz-Elektronenblitzgeräte macht Ihnen die Fotojagd mit einem Mecablitz nachmal soviel Freude.

**Farbkorrektur**  
durch selbstleuchtendes Sonnenlichtfilter - deshalb erstmals völlig farbgetreue Coloraufnahmen ganz ohne Farbton.

**Lichtstärke**  
deshalb keine verlängerte Entwicklungszeit mehr - Tageslicht- und Blitzstrahlen auf einem Film können nun gleich lang entwickelbar werden.

**Kameravertäglich**  
durch fehlerichere, automatische Umschaltung - stellt selbsttätig, ohne Schalter oder Taste, von Akkubetrieb auf Lade- bzw. Netzbetrieb um.

Die eingestellte Lichtleistung wird beim Messblitz 30 und durch zwei Signalampen im Blitzzahl angezeigt. Dadurch ist die Belichtung mehr durch sichtbare Einheiten der Lichtleistung zu kontrollieren.

**MECABLITZ 50**  
Akkur-Netzgerät mit unerschütterlicher Lichtleistung  
Ausleuchtung von 1 bis 20 m durch amphotrope Lichtleitung  
Eingebaute Ladegerichtung - 110 / 127 / 220 V - Ultraschall-Polymeridgohäuse - Elektr. Energie 120 Wh - Blitzzahl 2 bzw. 5 Sek. - 75 bzw. 150 Blitze pro Ladung - Latenzzeit für normale Entwicklungszeit: 30 bzw. 25 bei 17/18 DIN, Color 20-24 bzw. 8/14. DM 28,--

**MECABLITZ 50S**  
Das „Amkande“ Luxus-Blitzgerät mit eingebautem Blendemesser und Weitwinkelumkehrung  
Das Blendemesser sorgt für alle Filmtypen und Empfängerblenden eine richtige Blende an und stellt die Entfernung. Die Weitwinkelumkehrung des Blitzzahl von 11 auf 40 ermöglicht überaus hellen, ausgeleuchteten Programmen und Weitwinkelblitzern. Elektr. Energie 120 Wh. DM 38,--

**MECABLITZ 32**  
Handliches Blitzgerät für Batterie-Akku-Netzbetrieb  
4 Monozellen 1,5 V oder wetterfeste Akku 6 V 3 Ah - ca. 80 Blitze  
Batteriesatz - ca. 150 Blitze Akkubetrieb - Eingebaute Ladegerichtung - 110 / 127 / 220 V - Elektr. Energie 60 Wh - Blitzzahl 2 bzw. 5 Sek. - Latenzzeit für normale Entwicklungszeit: 32 bei 17/18 DIN, Color 13 - 16. Ohne Batterien und Akku. DM 19,--  
Spezialzelle 1,5 V DM 6,81. Kippständer Akku 4 Volt DM 28,50

**MECABLITZ 32 A**  
Preiswertes Blitzgerät für 2 Volt-Akkubetrieb  
Eingebaute Ladegerichtung - Elektrische Energie ca. 40 Wh - 40 Blitze pro Ladung - Latenzzeit und Form wie Mecablitz 32. Komplet mit Akku 2 Volt 2,5 Ah. DM 128,--

**METZ** RADIO · FERNSEHEN · PHOTO · FÜRTH · BAY.



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 man-

agement (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 technical pioneer 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-1 digital, mecablitz 48 AF-1 digital and mecablitz 15 MS-1 digital, or the self-learning slave 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; rather it also means handling this light in a target 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 back-light 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 in the different flash families. They have the respective functional equipment to go along with the different requirements profiles. 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 their 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 it works together perfectly. The best examples are the Metz mecablitz 58 AF-1 digital, which was awarded "Best Flash Unit in Europe 2007/2008"\* , or the Metz mecablitz 48 AF01 digital, which received the coveted TIPA Award 2008 in the category Best Accessory.

Cameras can change, but not Metz! 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.

\* EISA Award 2007/2008





**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. There are automatic flash units ranging from professional handheld flash guns to small, handy compact flashes.

For compact digital cameras (with flash connectors), there is the particularly handy mecablitz 20 C-2 in this category, which offers a vertically-tilting reflector, despite its minimal size.



**SLAVE FLASH UNITS**

The group of slave flash units is intended to be used for particularly varied and interesting directed lighting. 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-1 digital or the 48 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.



## SYSTEM FLASH UNITS

Using a flash is more fun than ever before. It's no wonder, because with Metz system flash units, absolute operating comfort is available. Clearly-arranged displays, some of them even illuminated, give information, for example, about what values the respective flash program completely automatically sets. Sophisticated flash techniques are therefore child's play to use. There is also the guaranteed future factor for units with an integrated USB port. It's not for nothing 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".

\* 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 therefore important to use a shutter time that is longer than the flash sync time. For portraits, however, an exposure time of 1/60 second should not be exceeded.

# MECABLITZ 58 AF-1 DIGITAL

For the ambitious

## Best flash unit in Europe 2007/2008\*

Experts from 50 different trade journals from 18 European countries awarded this coveted prize to the Metz mecablitz 58 AF-1 digital in the Photo Accessories category. The innovative high-performance unit was the first flash equipped with a USB port. It can be used to conveniently update the specific firmware of each variation of the model via the computer and Internet. It looks sleek, adjusts the flash exposure with every trick in the book, is intuitive to use and tremendously powerful. Equipped with innovative developments, the Metz mecablitz 58 AF-1 digital provides state-of-the-art secondary reflector technology, high-perform-

ance power management, multi-zone AF measuring flash, and a fully swiveling reflector system. The new top Metz model transmits all camera-specific system flash modes from Canon, Nikon, Pentax/Samsung, Olympus/Panasonic or Sony Alpha cameras (as of 03/2008), including the respective wireless TTL mode. Due to its high guide number, the 58 AF-1 digital is not only especially powerful, but is also outstanding for bounce flash use. For its vertical as well as horizontal rotating and swiveling reflector, Metz integrated an extendible reflector card for the first time. Additional brilliance can be obtained for the close-up range via the integrated, system-controlled, secondary reflector for bounce flash.

## 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 (270°) swivel reflector
- easy operating concept
- illuminable dot-matrix display
- motor zoom for 24 - 105 mm illumination
- integrated wide-angle diffuser for 18 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 and exposure control indicators on the unit and camera
- flash range indicator
- 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
- 1st and 2nd shutter curtain synchronization
- manual flash exposure correction for TTL or automatic flash mode
- automatic fill-in flash
- flash bracketing

## IN DETAIL



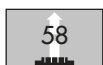
Extendible reflector card

Tilt reflector

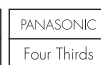
Easy to operate

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)



## Camera-specific system flash modes

### CANON VERSION

- E-TTL / E-TTLII flash mode
- E-TTL remote mode (master and slave operation)

### NIKON / FUJIFILM VERSION

- i-TTL / D-TTL / 3D flash mode
- i-TTL remote mode (master and slave operation)

### OLYMPUS / PANASONIC / LEICA VERSION

- Four Thirds TTL flash mode
- Four Thirds TTL remote mode (master and slave operation)

### PENTAX / SAMSUNG VERSION

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

### SONY ALPHA VERSION

- ADI flash mode
- ADI remote mode (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  
SAMSUNG  
SONY (DSLR)

# ACCESSORIES



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

Mecabounce 58-90 for softer illumination

Bounce diffuser 58-23 for bounce flash



PENTAX P-TTL	SAMSUNG P-TTL	LEICA Four Thirds	A	M	STROBE	HSS	⏪ ⏩	☐	DOT MATRIX Display	Motor Zoom	USB	REMOTE
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# MECABLITZ 48 AF-1 DIGITAL

For committed amateur photographers

## Best Accessory 2008

Having just been awarded the coveted "TIPA Awards 2008" in the category Best Accessory, the Metz mecablitZ 48 AF-1 digital is stylish and technically advanced. Equipped with a USB port for firmware updates via Internet, it has shown itself to be just as innovative as its big brother the 58 AF-1 digital, which has been singled out as "Europe's Flash Unit of the Year 2007/2008"\*. Perfectly matched to digital cameras from leading manufacturers, it is available in five different versions (Canon, Nikon, Olympus/Panasonic, Pentax/Samsung or Sony Alpha) - each is

flash-ready, due to its fully automatic flash modes. They facilitate precision light output is tailor-made for each individual subject. A variety of manual intervention options complement the photographic creative flexibility. Supported by a fully swivelling reflector system, extendible reflector card and diffuser, it has almost unlimited options for creativity of directional lighting. Thanks to the slave function, the 48 AF-1 digital can even be used detached from the camera. In the respective camera-specific wireless TTL mode, it can thus be used as a slave unit - an outstanding flash unit for committed amateur photographers.

## Flash output

- high max. GN of 48 for ISO 100/21° and 105 mm

## Basic configuration

- vertical (-7/+90°) and horizontal (270°) swivel reflector
- illuminable LCD display
- easy operating concept
- motor zoom for 24 - 105 mm illumination
- integrated wide-angle diffuser for 18 mm illumination
- extendible reflector card for soft flash illumination
- modeling light (permanent light for checking the photo)
- integrated autofocus measuring flash
- flash readiness and exposure control indicators on the unit and camera
- flash range indicator in the LCD display
- automatic unit switch-off and manual key 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

## IN DETAIL

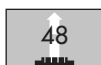


Extendible reflector card

Tilt reflector

USB port

\* EISA Award 2007/2008



GN of 48 at ISO 100/21° (105 mm)  
GN of 35 at ISO 100/21° (50 mm)

TTL	SONY ADI	CANON E-TTL II	NIKON i-TTL
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## Camera-specific system flash modes

### CANON VERSION

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

### NIKON/FUJIFILM VERSION

- i-TTL / D-TTL / 3D flash mode
- i-TTL remote mode (slave operation)

### OLYMPUS/PANASONIC/LEICA VERSION

- Four Thirds TTL flash mode
- Four Thirds TTL remote mode (slave operation)

### PENTAX/SAMSUNG 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

SAMSUNG

SONY (DSLR)

# ACCESSORIES



Mecabounce 58-90  
for softer  
illumination

Bounce diffuser 58-23  
for bounce flash

FUJIFILM i-TTL	OLYMPUS Four Thirds	PANASONIC Four Thirds	PENTAX P-TTL	SAMSUNG P-TTL	LEICA Four Thirds		LCD		USB	SLAVE
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# MECABLITZ 36 AF-4 DIGITAL

For demanding beginners

## The compact class

Presenting the Metz mecablitz 36 AF-4C digital for Canon, 36 AF-4N digital for Nikon, 36 AF-4O digital for Olympus and Panasonic, 36 AF-4P for Pentax / Samsung and 36 AF-4S 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 likeably 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-4 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

## Standard flash modes

- TTL flash mode
- 1st and 2nd shutter curtain synchronization
- manual flash exposure correction for TTL flash mode (if it can be set on the camera)
- automatic fill-in flash

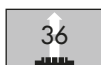
## IN DETAIL



Spotlight for AF measurement flash

Tilt reflector (only vertical)

Zoom reflector (28-85 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/SAMSUNG 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

SAMSUNG

SONY (DSLR)



TTL	CANON E-TTL	SONY ADI	NIKON i-TTL	OLYMPUS Four Thirds	PANASONIC Four Thirds	PENTAX P-TTL	SAMSUNG P-TTL	LEICA Four Thirds	↕	Manual Zoom
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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 criterion, 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

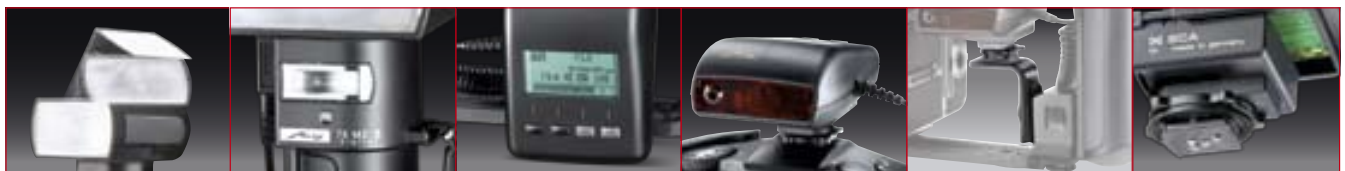
### Basic configuration

- SCA adapter system (universal flash unit useable with different cameras)
- secondary reflector with 3 light 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
- 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

Mounting bracket 50-25

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

## Camera-specific system flash modes with SCA adapters

### CANON

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

### NIKON/FUJIFILM

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

### OLYMPUS/PANASONIC/LEICA

- Four Thirds TTL flash mode

### PENTAX/SAMSUNG

- 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

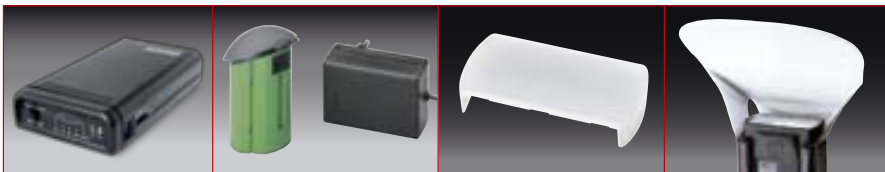
PENTAX

ROLLEI

SAMSUNG

SONY

# ACCESSORIES



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	SAMSUNG P-TTL	LEICA Four Thirds	A	M	STROBE	◀▶	☐	DOT MATRIX Display	Metz Zoom	SCA 3002
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# MECABLITZ 45 CL-4 DIGITAL BASIC / KIT

For pros

## Great performance:

The Metz mecablitz 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 light 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
- flash range indicator in LED (for manual settings)

## Standard flash modes

- TTL flash mode
- automatic flash mode with 12 automatic apertures
- manual flash mode with 5 partial lighting levels
- HSS – high speed synchronization
- 1st and 2nd shutter curtain synchronization
- manual flash exposure correction for TTL flash mode (if it can be set on the camera)
- automatic fill-in flash

## IN DETAIL

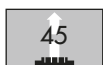


Swivel reflector

Secondary reflector

SCA 300 adapter  
with SCA 300A cable

SCA 3002 adapter  
with SCA 3045 cable



Leitzahl 45 bei ISO 100/21° (35 mm)

TTL

SONY  
ADI

CANON  
E-TTL II

NIKON  
i-TTL

FUJIFILM  
i-TTL

## Camera-specific system flash modes with SCA adapters

### CANON

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

### NIKON/FUJIFILM

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

### OLYMPUS/PANASONIC/LEICA

- Four Thirds TTL flash mode

### PENTAX/SAMSUNG

- 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

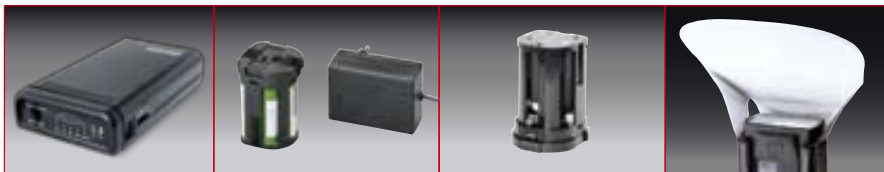
PENTAX

ROLLEI

SAMSUNG

SONY

# ACCESSORIES



Power Pack P 76 Set  
(V76 cable required)

NiMH charger  
set B46

Battery basket 45-39

Bounce diffuser 76-23  
for bounce flash

OLYMPUS  
Four Thirds

PANASONIC  
Four Thirds

PENTAX  
P-TTL

SAMSUNG  
P-TTL

LEICA  
Four Thirds

A

M

HSS



SCA  
3002

# 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
- illuminable 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
- 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
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## Camera-specific system flash modes with SCA adapters

### CANON

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

### NIKON/FUJIFILM

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

### OLYMPUS/PANASONIC/LEICA

- Four Thirds TTL flash mode

### PENTAX/SAMSUNG

- 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

SAMSUNG

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

Bounce diffuser 58-23 for bounce flash

PANASONIC Four Thirds	PENTAX P-TTL	SAMSUNG P-TTL	LEICA Four Thirds	A	M	STROBE	HSS	⏪ ⏩	📷	LCD	Motor Zoom	SCA 3002
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# MECABLITZ 44 MZ-2 DIGITAL

For committed amateur photographers

## Variable entry-level model:

In conjunction with the respective SCA adapter, the mecablitz 44 MZ-2 digital can be used with almost any analog SLR camera as well as with digital cameras from Nikon and Olympus/Panasonic (Four Thirds standard). The powerful motor zoom compact flash model (GN 44) with the large light angle of 28-105 mm can be used either in TTL, automatic, or manual flash mode and is distinguished by the interesting special functions. For example, its strengths include the Nikon i-TTL flash mode, which makes fill-in flash possible in daylight to effectively brighten far too dark shadowy areas, second curtain synchronization (important to enable more natural blurring effects) and much more. In addition, the 44 MZ-2 digital supports the special flash functions for cameras from Hasselblad, Mamiya, Rollei, and Leica.

## Flash output

- max. GN of 44 for ISO 100/21° and 105 mm

## Basic configuration

- SCA adapter system (flash unit useable with different cameras)
- vertical (-7/+90°) tilt reflector
- illuminable LCD display
- motor zoom for 28 - 105 mm illumination
- integrated autofocus measurement flash
- flash readiness and exposure control indicators on the unit and camera
- flash range indicator in LCD
- automatic unit switch-off

## Standard flash modes

- TTL flash mode
- automatic flash mode with 12 automatic apertures
- manual flash mode with 8 partial lighting levels
- 1st and 2nd shutter curtain synchronization
- manual flash exposure correction for TTL or automatic flash mode
- automatic fill-in flash

## IN DETAIL



Spotlight for AF measurement flash

Tilt reflector

Easy to operate



GN of 44 at ISO 100/21° (105 mm)  
GN of 34 at ISO 100/21° (50 mm)

## Camera-specific system flash modes with SCA adapters

### NIKON/FUJIFILM

- i-TTL flash mode

### OLYMPUS/PANASONIC/LEICA

- Four Thirds TTL flash mode

## Guaranteed in the future

- Firmware update possible via Metz Service (flash unit and SCA adapter)

## Power sources

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

## Included with delivery

- Standard foot



NIKON

FUJIFILM

HASSELBLAD

LEICA

MAMIYA

OLYMPUS

PANASONIC

ROLLEI

# ACCESSORIES



SCA 3083 digital slave adapter



SCA 300 or 3002 adapter



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



Mecabounce 44-90 for softer illumination



Bounce diffuser 58-23 for bounce flash

TTL	NIKON i-TTL	FUJIFILM i-TTL	OLYMPUS Four Thirds	PANASONIC Four Thirds	LEICA Four Thirds	A	M	▲ ▼	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. If you use ISO 1600 instead of ISO 100, then the sensitivity of the photo chip increases is quadrupled.

# MECABLITZ 45 CL-1

For purists

## Simply a powerful light:

The powerful Metz handheld flashgun family begins with the robust Metz mecablitz 45 CL-1. It offers a fully swiveling and tilting reflector, high light output with easy handling and is reduced down to the essentials. There is a choice of 5 automatic apertures. Mainly intended for the owners of analog cameras, even professional photographers with modern DSLR cameras swear by the automatic flash mode of the 45 CL-1. Thanks to the included modern NiMH rechargeable battery, it is possible to have a high number of flashes with low recycling times.

In order to be able to fall back on maximum flash power when taking a series of shots, the practical, high-power Power Pack P 76, which attaches to your belt, can be used in connection with the optionally available V 45 cable.

## Flash output

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

## Basic configuration

- connection to camera via sync cable (included with delivery)
- vertical (+90°) and horizontal (360°) swivel reflector
- LED displays
- standard 35 mm illumination
- accompanying wide-angle diffuser for 28 mm illumination
- flash readiness and exposure control indicator on the unit
- flash range indicator in aperture calculator (for manual settings)

## Standard flash modes

- automatic flash mode with 5 automatic apertures
- manual flash mode

## Power sources

- Metz NiMH rechargeable battery 45-56 (included with flash)
- powerful Metz NiMH Power Pack P 76 with V 45 cable
- alkaline-magnesium batteries (battery basket 45-39 required separately)

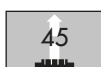
## Included in delivery

- wide-angle diffuser
- sync cable
- camera bracket
- NiMH rechargeable battery and charger

## IN DETAIL



Swivel reflector

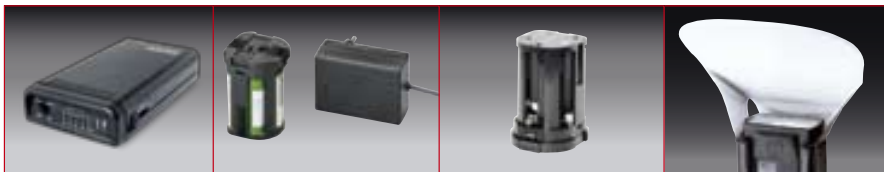


GN of 45 at ISO 100/21° (35 mm)



- CANON
- NIKON
- FUJIFILM
- HASSELBLAD
- LEICA
- MAMIYA
- OLYMPUS
- PANASONIC
- PENTAX
- ROLLEI
- SAMSUNG
- SONY

## ACCESSORIES



Power Pack P 76 Set  
(V 45 cable required)

NiMH charger set B46

Battery basket 45-39

Bounce diffuser 76-23  
for bounce flash



# MECABLITZ 36 C-2

For beginners

CANON
NIKON
FUJIFILM
HASSELBLAD
LEICA
MAMIYA
OLYMPUS
PANASONIC
PENTAX
ROLLEI
SAMSUNG
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)



Standard sync cable 36-50



Sync extension cable 60-54

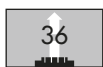


Camera bracket 40-36

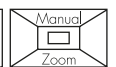
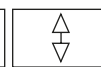
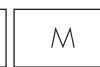


Spiral sync cable 36-52

## ACCESSORIES



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 currently smallest compact flash unit 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.



CANON
NIKON
FUJIFILM
HASSELBLAD
LEICA
MAMIYA
OLYMPUS
PANASONIC
PENTAX
ROLLEI
SAMSUNG
SONY

### Flash output

- max. GN of 20 for ISO 100/21° and 35 mm
- high number of flashes (e.g. 150 full flashes with alkaline-magnesium batteries)
- flash recycle time 0.3 – 10 sec. (depending on the energy source and flash output)

### 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

## 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 FLASH UNITS



### Slave 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:

Another way of using slave mode is opened up by the two system flash units mecablitz 58 AF-1 digital and mecablitz 48 AF-1 digital. Both models are not directly assigned to the slave category, but they still can be used as intelligent slave variants as well. Here, they support the flash modes of the respective camera manufacturer. In addition, the mecablitz 58 AF-1 digital has a master function that you can always use if the integrated flash of the camera doesn't provide a master mode.



### Slave mode at close range:

The Metz macro flash is attached directly onto the lens, thus enabling precise and creative lighting in the macro range. 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 comes from the self-learning

slave mode and the clever EASY mode. For the first time, flash results can be affected directly by means of the immediate correct buttons (+/-). This means you only have to take the shot – check the results on the camera's monitor – and readjust using the buttons if necessary. With this slave model, you increase the flash power absolutely without any undesired side effects. This is because it draws its energy either from alkaline micro batteries, which are available everywhere, or from equally economical rechargeable Micro batteries.

## Flash output

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

## Basic configuration

- Slave mode: flash unit triggered by the integrated camera flash or by another 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

### 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 Ni/MH 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



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

# MECABLITZ 15 MS-1 DIGITAL

## 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\*, ma-

king 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, built-in batteries / rechargeables provide an efficient source of power. The Metz mecablitz 15 MS-1 digital is suitable for all camera manufacturers (Canon, Nikon, Olympus, Panasonic, Pentax, Samsung and Sony-Alpha) – even if the camera does not have a built-in flash, because the manual flash mode can also be used by means of the sync cable.

## Flash output

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

## Basic configuration

- Wireless TTL flash control, slave remote operation available for Canon E-TTL and E-TTL II, Sony DSLR remote flash systems, Nikon i-TTL, Olympus and Panasonic Four-Third system, Pentax and Samsung P-TTL
- 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
- 2nd shutter curtain synchronisation
- Slow synchronisation (SLOW)
- Autofocus auxiliary light

\* 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. More details at [www.metz.de](http://www.metz.de)

## IN DETAIL



Dot-matrix display

Wireless TTL flashes

3-stage swivel reflector

Bouncer disk included – makes for softer lighting.

SONY *	NIKON *	FUJIFILM *	OLYMPUS *	PANASONIC *	PENTAX *	SAMSUNG *	LEICA *
ADI	i-TTL	i-TTL	Four Thirds	Four Thirds	P-TTL	P-TTL	Four Thirds

\* With respective remote slave operation

### Standard flash modes

- Wireless slave flash mode with or without preflash suppression
- slave operation with learning function
- Manual flash mode (operated via sync socket / slave)

### Guaranteed in the future

- firmware update possible via Metz Service

### Power sources

- Integrated power supply via 2x AAA (Micro) alkaline batteries (1.5 V) or 2x AAA (Micro) NiMH rechargeable batteries (1.2 V) or 2x AAA (Micro) lithium batteries (1.5 V)

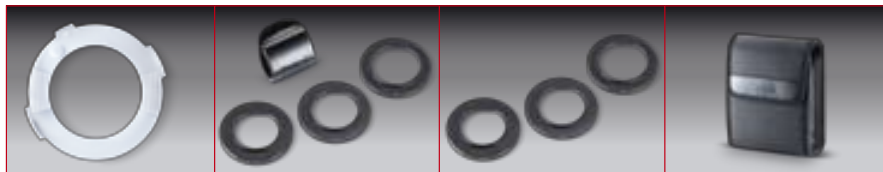
### Included in delivery

- bouncer diffuser
- adapter rings 52mm, 55mm, 58mm
- IR filter bracket
- belt pouch



CANON
NIKON
FUJIFILM
OLYMPUS
PANASONIC
PENTAX
SAMSUNG
SONY (DSLR)

## ACCESSORIES



Bouncer diffuser (included)

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

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

Belt pouch (included)

M	SLAVE	USB	◀▶	DOT MATRIX Display
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↑ 15
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GN of 15 at ISO 100/21° (50 mm)

# QUICK SEARCH

76 MZ-5 DIGITAL

45 CL-4 DIGITAL KIT  
INKL. SCA 3045

45 CL-4 DIGITAL BASIC

45 CL-1

<b>CANON</b>					
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	SCA 3102	SCA 3102	SCA 3102 + SCA 3045	
<b>NIKON</b>					
Analog AF-SLR cameras	(except F6)	SCA 3402	SCA 3402	SCA 3402 + SCA 3045	
	F6	SCA 3402	SCA 3402	SCA 3402 + SCA 3045	
Analog Non AF-SLR	F3	SCA 344 + SCA 300 E + 50-35	SCA 344	SCA 344	
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	
<b>FUJIFILM</b>					
	S7000, S9500, S9600, S100FS	301	45-54	45-54	45-54
	S1 Pro, S2 Pro, S5 Pro	SCA 3402	SCA 3402	SCA 3402 + SCA 3045	
	S3 Pro	SCA 3402	SCA 3402	SCA 3402 + SCA 3045	
<b>HASSELBLAD</b>					
	6x6	SCA 390	SCA 390	SCA 390 + SCA 300 A	
	H1, H2, H3	SCA 3902	SCA 3902	SCA 3902 + SCA 3045	
<b>LEICA</b>					
	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	SCA 3502	SCA 3502	SCA 3502 + SCA 3045	
	Digilux 1	301	45-54	45-54	45-54
	Digilux 3, Vlux 1	SCA 3202	SCA 3202	SCA 3202 + SCA 3045	
<b>MAMIYA</b>					
	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	
<b>OLYMPUS</b>					
	C-770, C-8080, SP-350, SP-570 UZ, E-Series	SCA 3202	SCA 3202	SCA 3202 + SCA 3045	
<b>PANASONIC</b>					
	DMC-FZ20, DMC-FZ30	301	45-54	45-54	45-54
	DMC-LC 1	SCA 3502	SCA 3502 M5	SCA 3502 M5 + SCA 3045	
	DMC-FZ50, DMC-L1, DMC-L10	SCA 3202	SCA 3202	SCA 3202 + SCA 3045	
<b>PENTAX</b>					
	DSLR	SCA 3702	SCA 3702	SCA 3702 + SCA 3045	
<b>ROLLEI</b>					
	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	
<b>SAMSUNG</b>					
	DSLR	SCA 3702	SCA 3702	SCA 3702 + SCA 3045	
<b>SONY</b>					
	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](http://www.metz.de).



58 AF-1 DIGITAL	54 MZ-4i DIGITAL	48 AF-1 DIGITAL	44 MZ-2	36 AF-4/36C-2	20 C-2	15 MS-1 DIGITAL*
58 AF-1C	SCA 3102	48 AF-1C	SCA 3102	36 AF-4C		•
58 AF-1C	SCA 3102	48 AF-1C		36 AF-4C		•
58 AF-1C	SCA 3102	48 AF-1C		36 AF-4C		•
58 AF-1N	SCA 3402	48 AF-1N	SCA 3402	36 AF-4N		•
58 AF-1N	SCA 3402	48 AF-1N	SCA 3402			•
	SCA 344 + SCA 300 E + 40-36		SCA 344 + SCA 300 E + 40-36			•
58 AF-1N	SCA 3402	48 AF-1N	SCA 3402	36 AF-4N		•
58 AF-1N	SCA 3402	48 AF-1N				•
58 AF-1N	SCA 3402	48 AF-1N	SCA 3402	36 AF-4N		•
	301		301	36 C-2	20 C-2	•
58 AF-1N	SCA 3402	48 AF-1N	SCA 3402	36 AF-4N		•
58 AF-1N	SCA 3402	48 AF-1N				•
	SCA 390 + 40-36		SCA 390 + 40-36			•
	SCA 3902		SCA 3902			•
	SCA 351		SCA 351			•
	SCA 3502		SCA 3502			•
	301		301	36 AF-4O	20 C-2	•
58 AF-1O	SCA 3202	48 AF-1O	SCA 3202			•
	SCA 396 + SCA 300 E + 40-36		SCA 396 + SCA 300 E + 40-36			•
	SCA 3952		SCA 3952			•
58 AF-1O	SCA 3202	48 AF-1O	SCA 3202	36 AF-4O		•
	301		301	36 C-2	20 C-2	•
	SCA 3502		SCA 3502			•
58 AF-1O	SCA 3202	48 AF-1O	SCA 3202	36 AF-4O		•
58 AF-1P	SCA 3702	48 AF-1P		36 AF-4P		•
	SCA 356 + SCA 300 D		SCA 356 + SCA 300 D			•
	SCA 3562		SCA 3562			•
58 AF-1P	SCA 3702	48 AF-1P		36 AF-4P		•
	SCA 3302	48 AF-1S		36 AF-4S		•

**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
- Slave with or without pre-flash suppression
- Manual mode via sync cable

Please follow the operating instructions. Consult [www.metz.de](http://www.metz.de) for more information

# TECHNICAL DATA

76 MZ-5 DIGITAL

45 CL-4 DIGITAL  
BASIC / KIT

45 CL-1

58 AF-1 DIGITAL

54 MZ-4i DIGITAL

48 AF-1 DIGITAL

44 MZ-2 DIGITAL

36 AF-4 DIGITAL

36 C-2

28 CS-2 DIGITAL

20 C-2

15 MS-1 DIGITAL

## Configuration features:

	76 MZ-5 DIGITAL	45 CL-4 DIGITAL BASIC / KIT	45 CL-1	58 AF-1 DIGITAL	54 MZ-4i DIGITAL	48 AF-1 DIGITAL	44 MZ-2 DIGITAL	36 AF-4 DIGITAL	36 C-2	28 CS-2 DIGITAL	20 C-2	15 MS-1 DIGITAL
<b>Flash output</b>												
GN for ISO 100 and <b>35</b> mm or 50 mm	54	<b>45</b>	<b>45</b>	42	40	35	34	30	30	<b>22</b>	<b>20</b>	15
GN for ISO 100 and max. zoom	76	45	45	58	54	48	44	36	36	28	20	15
<b>Basic configuration</b>												
Adapter system SCA 300	•	•			•		•					
Adapter system SCA 3002	•	•			•		•					
Illumination from ... mm (KB format)	20	28	28	18	20	18	28	28	28	24	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	+90	-7...+90	-7...+90	-7...+90	-7...+90	+90	+90		+90	
Horizontal swiveling range in °	270	360	360	270	270	270						20
Integrated wide-angle diffuser for illumination in mm (KB format)				18	20	18						
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	•			•	•	•						•
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	• / -	<sup>1)</sup> / -		• / •	• / -	• / -	• / -	• / -				
AF auxiliary light												•
Metz remote flash mode (master/slave)	•				•							
Master flash mode (Metz remote)	•				•							
Slave flash mode (Metz remote)	•	<sup>2)</sup>			<sup>4)</sup>		<sup>4)</sup>			•		
<b>Standard flash modes</b>												
TTL flash mode (without pre-flash)	•	•		•	•	•	•	•				
Automatic flash mode	12	12	5	12	12		12		3	8	2	
EASY Mode flash mode										•		
f-stops for automatic flash mode	12	6	5	12	12		12		3	8	2	
Manual flash mode	•	•	•	•	•	•	•		•	•	•	•
Partial lighting levels	25	5		25	25	8	8			4		6
Slave flash mode (pre-flash technique / learning function)	<sup>4)</sup> / -	<sup>2)</sup> / -			<sup>4)</sup> / -		<sup>4)</sup> / -			• / •		• / •
Stroboscope flash mode	•			•	•							
<b>System flash functions</b>												
Automatic fill-in flash	•	•		•	•	•	•	•				
Flash-ready indication in camera viewfinder	•	•		•	•	•	•	•				
Exposure control indication in camera viewfinder	•	•		•	•	•	•	•				
1st and 2nd shutter curtain synchronization	•			•	•	•	•					•
High-speed synchronization (HSS or FP)		•		•	•	•						
Manual flash exposure correction	•			•	•	•	•					
Manual flash bracketing	•			•	•	•						
Pre-flash function against the "red eye effect"	•	•		•	•	•	•					

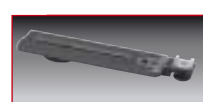
	76 MZ-5 DIGITAL	45 CL-4 DIGITAL BASIC / KIT	45 CL-1	58 AF-1 DIGITAL	54 MZ-4I	48 AF-1 DIGITAL	44 MZ-2	36 AF-4 DIGITAL	36 C-2	28 CS-2 DIGITAL	20 C-2	15 MS-1 DIGITAL
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**Configuration features:**

<b>System-Blitzbetriebsarten</b>														
Cannon 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 iTTL and iTTL-BL flash mode	•	•		•	•	•	•	•						
Nikon iTTL / iTTL-BL flash mode	• / •	• / •		• / •	• / •	• / •	• / •	• / -						
Nikon matrix controlled fill-in flash mode	•	•		•	•	•	•							
Nikon underexposure warning in EV (f-stops)	•				•	•	•							
Nikon iTTL remote flash system as master/controller/slave				• / • / •		- / - / •						- / - / •		
Olympus TTL flash mode with measurement pre-flash technique	•	•		•	•	•	•							
Olympus/Panasonic/Leica Four Thirds System (TTL compatible)	•	•		•	•	•	•							
Olympus Four Thirds system TTL remote flash system as master/controller/slave				• / • / •		- / - / •						- / - / •		
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				- / - / •		- / - / •						- / - / •		
<b>Guaranteed in the future</b>														
Firmware update via Metz Service	•	•		•		•	•	•		•		•		
Firmware update via USB port				•		•						•		
<b>Power supply</b>														
Runs on alkaline-magnesium batteries (1.5 V)		3)	3)	•	•	•	•	•	•	•	•	•		
Runs on NiCad 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	•	•	•	•	•									
<b>Number of flashes (at full light output)</b>														
Running on alkaline-magnesium batteries (1.5 V)		170	100	180	180	210	240	450	450	100 <sup>5)</sup>	150	140 <sup>5)</sup>		
Running on NiCd rechargeable batteries (1.2 V/600 mAh)				70	60	90	85	160	160	35 <sup>5)</sup>	75	150 <sup>5)</sup>		
Running on NiMH rechargeable batteries (1.2 V/1600 mAh)				180	180	250	205	320	320	140 <sup>5)</sup>	150	200 <sup>5)</sup>		
Running on lithium batteries (1.5 V)				320	240	460	370			175 <sup>5)</sup>		250 <sup>5)</sup>		
Running on Metz NiMH rechargeable battery pack (1600 mAh)	160	200	130											
External energy supply with Metz Power Pack P 76	350	400		430	430									
<b>Flash cycle time in sec. (min./max.)</b>														
Running on alkaline-magnesium batteries (1.5 V)		0,1/4	0,3/11	0,1/5	0,1/6	0,1/4	0,2/5	0,3/5	0,3/5	0,3/8	0,3/10	0,3/4		
Running on NiCd rechargeable batteries or NiMH rechargeable batteries (1.2 V)				0,1/5	0,1/5	0,1/4	0,2/4	0,3/5	0,3/5	0,3/6	0,3/8	0,3/4		
Running on lithium batteries (1.5 V)				0,1/6	0,1/10	0,1/4	0,2/6	0,3/5	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	0,3/7											
External energy supply with Metz Power Pack P 76	0,3/2,5	0,1/3		0,1/2,5	0,1/2,5									
<b>Size and weight</b>														
Weight without power source in g (approx.)		Lamp pole	880											
		Control section	138	680	570	355	480	340	325	205	205	140	120	190
Approx. dimensions in mm (W x H x D)	W	Lamp pole	103	92	92	71	75	71	75	71	73	75,5	65	133
		Control section	67											
	H	Lamp pole	244	247	147	148	125	137	125	115	110	83	98	144
		Control section	35											
	D	Lamp pole	118	102	102	99	108	99	108	95	87	32,5	54	38
		Control section	89											

- 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): NiCd (250 mAh), NiMH (1000 mAh)

# ACCESSORIES



	76 MZ-5 DIGITAL	45 CL-4 DIGITAL KIT	45 CL-4 DIGITAL BASIC	45 CL-1	58 AF-1 DIGITAL	54 MZ-4 DIGITAL	48 AF-1 DIGITAL	44 MZ-2	36 AF-3 / 36 AF-4	36 C-2	28 CS-2 DIGITAL	20 C-2	15 MS-1 DIGITAL
<b>Rechargeable batteries and battery case</b>													
NiMH rechargeable batteries 45-56		*	•	•									
NiMH rechargeable batteries 76-56	•												
Battery basket without batteries 45-39		*	•	•									
<b>Charging sets and chargers</b>													
NiMH charger set B 46		*	•	•									
NiMH charger set B 47	•												
<b>Power packs and accessories</b>													
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)	•	•	•										
Connecting cable V 45 (for P 50 / P 76)				•									
<b>mecabounce</b>													
mecabounce 44-90						•		•					
mecabounce 50-90	•												
mecabounce 45-90		•	•	•									
mecabounce 58-90					•		•						
<b>Sync cables</b>													
Spiral sync cable 15-52													•
Spiral sync cable 36-52	1)					1)		1)		•		•	
Spiral sync cable 45-49		•	•	•									
Spiral sync cable 45-54 for hot-shoe contact		•	•	•									
Standard sync cable 36-50 (25 cm)	1)					1)		1)		•		•	
Standard sync cable 45-47 (40cm)		•	•	•									
Standard sync cable 45-48 (100cm)		•	•	•									
Sync extension cable 60-54 (500 cm)	•	•	•	•		•		•		•		•	
<b>Camera brackets and accessories</b>													
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
45 CL-1
58 AF-1 DIGITAL
54 MZ-4 DIGITAL
48 AF-1 DIGITAL
44 MZ-2
36 AF-3/36 AF-4
36 C-2
28 CS-2 DIGITAL
20 C-2
15 MS-1 DIGITAL



**Bounce diffusers**

Bounce diffuser 54-23 (or 58-23)

Bounce diffuser 76-23



**mecalux**

mecalux 11

**Camera straps**

Camera straps 50-31



**Wrist strap**

Wrist strap 45-27

**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 344 for Nikon F3

SCA 351 for Leica

SCA 356 for Rollei<sup>4)</sup>

SCA 390 for Hasselblad<sup>4)</sup>

SCA 3102 for Canon

SCA 3202 for Olympus / Panasonic / Leica

SCA 3302 for Konica Minolta / Sony

SCA 3402 for Nikon

SCA 3502 for Leica

SCA 3562 for Rollei<sup>4)</sup>

SCA 3702 for Pentax / Samsung

SCA 3902 for Hasselblad<sup>4)</sup>

SCA 3952 for Mamiya<sup>4)</sup>

SCA 3083 digital slave adapter

SCA 300 E

Standard foot 301

**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


### 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.


### 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 and Fujifilm 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.

### 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 and Samsung 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.

### Slave mode



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

### 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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