

Technical features: Metz 48 AF-1 digital

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Product name:	48AF-1C Canon	48AF-1N Nikon / Fuji S	48AF-1O/P Olympus / Panasonic	48AF-1P/S Pentax / Samsung	48AF-1SO Sony Alpha
Guide numbers					
Guide Number with ISO 100 and 105 mm	48 (m) / 157 (ft)	48 (m) / 157 (ft)	48 (m) / 157 (ft)	48 (m) / 157 (ft)	48 (m) / 157 (ft)
Guide Number with ISO 100 and 50 mm	35 (m) / 114 (ft)	35 (m) / 114 (ft)	35 (m) / 114 (ft)	35 (m) / 114 (ft)	35 (m) / 114 (ft)
General flash modes					
Standard TTL-mode	•	•	•	•	•
Automatic flash control / f-stops	- / -	- / -	- / -	- / -	- / -
Manual flash control / partial lighting levels	• / 12	• / 12	• / 12	• / 12	• / 12
Stroboscopic flash mode	-	-	-	-	-
Dedicated flash modes and functions					
Canon E-TTL-/E-TTL II flash control	• / •				
Canon E-TTL-remote-flash-system as master/controller/slave	- / - / •				
Canon FE-flash exposure memory with E-TTL- and E-TTL II flash control	• / •				
Nikon i-TTL-/i-TTL-BL flash control		• / •			
Nikon i-TTL-remote-flash-system as master/controller/slave		- / - / •			
Nikon D-TTL-/D-TTL-3D flash control / 3D multi-sensor fill-in flash		• / • / •			
Nikon FV flash-exposure measurement memory by i-TTL / i-TTL-BL control		• / •			
Nikon matrix-controlled fill-in flash mode / under exposure display in EV		• / •			
Olympus TTL-flash control with measuring pre-flash technique			•		
Olympus/Panasonic/Leica FourThirds-System (TTL-compatible)			•		
Olympus FourThirds-System TTL-remote-system as master/controller/slave			- / - / •		
Pentax contrast control				•	
Pentax P-TTL flash control				•	
Pentax spot beam mode				•	
Pentax P-TTL-remote-flash-system as master/controller/slave				- / - / •	
Sony DSLR ADI flash control					•
Sony DSLR-remote-flash-system as master/controller/slave					- / - / •
Sony DSLR wide area TTL-pre-flash measuring					•
Flash reflector data					
Illumination from ... mm onwards (35 mm format)	18	18	18	18	18
Zoom area of the mail reflector head (35 mm format)	24 - 105 mm	25 - 105 mm	26 - 105 mm	27 - 105 mm	28 - 105 mm
Main reflector head tilt / swivel	• / •	• / •	• / •	• / •	• / •
Vertical rotation area (5 positions)	-7° / +90°	-7° / +90°	-7° / +90°	-7° / +90°	-7° / +90°
Horizontal rotation area (6 positions)	270°	270°	270°	270°	270°
Automatic zoom automatically / manual adjustable	• / •	• / •	• / •	• / •	• / •
Extended zoom mode for main reflector	•	•	•	•	•
Zoom size function (adaption on format of the camera chip)	•	•	•	•	•
Secondary flash with 2 light outputs / with dedicated flash functions	- / -	- / -	- / -	- / -	- / -
Integrated wide-angle diffuser for illumination from ... mm onwards (35mm)	18	18	18	18	18
Integrated reflector card for main reflector	•	•	•	•	•
Flash display					
Illuminated LC-Display: Grafic multi-function LCD / Standard-LCD	- / •	- / •	- / •	- / •	- / •
Flash ready indication / Flash exposure control display on flashgun	•	•	•	•	•
Automatic flash range display, alternatively in meter or feet	• / •	• / •	• / •	• / •	• / •
System flash functions					
Manual flash exposure correction by TTL flash mode / automatic flash mode	• / -	• / -	• / -	• / -	• / -
Modelling light function	•	•	•	•	•
Automatic fill-in flash control	•	•	•	•	•
Flash ready indication / flash exposure control display in camera view finder	• / •	• / •	• / •	• / •	• / •
Automatic X-sync shutter speed control	•	•	•	•	•
Synchronisation on the 1st / 2nd (REAR) shutter curtain	• / •	• / •	• / •	• / •	• / •
High speed synchronisation (HSS) / slow speed synchronisation (SLOW)	• / •	• / •	• / •	• / •	• / •
Manual flash exposure correction / Flash bracketing	• / •	• / •	• / •	• / •	• / •
Automatic AF measuring flash control / Wide-area AF illuminator	• / -	• / -	• / -	• / -	• / -
Pre-flash function to prevent the "red eye" effect	-	•	•	•	-
Buzzer (beep function)	-	-	-	-	-
Manual key function (key-lock)	-	-	-	-	-
Service functions and power management					
Reset function (back to basic adjustment)	•	•	•	•	•
Firmware-Update via USB socket or Metz-Service	• / •	• / •	• / •	• / •	• / •
Automatic energy-saving cut-off (Auto Off)	•	•	•	•	•
Wake-Up function of the flash through the camera	•	•	•	•	•
Possible power sources					
Non-rechargeable Alkali-Mangan batteries (1,5 V), Lithium batteries (1,5 V)	4 x AA	4 x AA	4 x AA	4 x AA	4 x AA
Rechargeable NiCd- or NiMH batteries (1,2 V)	4 x AA	4 x AA	4 x AA	4 x AA	4 x AA
Connection to external Metz NiMH Power Pack P76	-	-	-	-	-
Min. number of flashes by full light output					
With Alkali-Mangan batteries (1,5 V) approx.	240	240	240	240	240
With NiCd batteries (1,2 V/600 mAh) approx.	90	90	90	90	90
With NiMH batteries (1,2 V / 1600 mAh) approx.	240	240	240	240	240
With Lithium batteries (1,5 V) approx.	480	480	480	480	480
With NiMH Power Pack P76 approx.	-	-	-	-	-
Flash recovery time (min./max.)					
With Alkali-Mangan batteries (1,5 V) approx.	0,1 - 4 sec.	0,1 - 4 sec.	0,1 - 4 sec.	0,1 - 4 sec.	0,1 - 4 sec.
With NiCd batteries (1,2 V/600 mAh) approx.	0,1 - 4 sec.	0,1 - 4 sec.	0,1 - 4 sec.	0,1 - 4 sec.	0,1 - 4 sec.
With NiMH batteries (1,2 V / 1600 mAh) approx.	0,1 - 4 sec.	0,1 - 4 sec.	0,1 - 4 sec.	0,1 - 4 sec.	0,1 - 4 sec.
With Lithium batteries (1,5 V) approx.	0,1 - 4 sec.	0,1 - 4 sec.	0,1 - 4 sec.	0,1 - 4 sec.	0,1 - 4 sec.
With NiMH Power Pack P76 approx.	-	-	-	-	-
Weight and dimensions					
Weight without batteries approx.	340 g	340 g	340 g	340 g	340 g
Dimensions in mm (Width x Height x Depth)	71 x 137 x 99	71 x 137 x 99	71 x 137 x 99	71 x 137 x 99	71 x 137 x 99
Included in box					
Flash unit	•	•	•	•	•
Instruction manual 6lingual GB / D / E / F / I / NL	•	•	•	•	•
Slave stand	•	•	•	•	•
Belt case	-	-	-	-	-
External accessories					
Bounce diffuser 54-23	•	•	•	•	•
mecabounce 58-90	•	•	•	•	•
Power Pack P 76 / Connecting cable V 58-50 to Power Pack P 76	- / -	- / -	- / -	- / -	- / -