

# Technical features: Metz 48 AF-1 digital

10-Oct-07



| Product name:                                                                 | 48AF-1C<br>Canon  | 48AF-1N<br>Nikon / Fuji S | 48AF-1O/P<br>Olympus / Panasonic | 48AF-1P/S<br>Pentax / Samsung | 48AF-1SO<br>Sony Alpha |
|-------------------------------------------------------------------------------|-------------------|---------------------------|----------------------------------|-------------------------------|------------------------|
| <b>Guide numbers</b>                                                          |                   |                           |                                  |                               |                        |
| 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)      |
| <b>General flash modes</b>                                                    |                   |                           |                                  |                               |                        |
| Standard TTL-mode                                                             | •                 | •                         | •                                | •                             | •                      |
| Automatic flash control / f-stops                                             | — / —             | — / —                     | — / —                            | — / —                         | — / —                  |
| Manual flash control / partial lighting levels                                | • / 12            | • / 12                    | • / 12                           | • / 12                        | • / 12                 |
| Stroboscopic flash mode                                                       | —                 | —                         | —                                | —                             | —                      |
| <b>Dedicated flash modes and functions</b>                                    |                   |                           |                                  |                               |                        |
| 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                                   |                   |                           |                                  |                               | •                      |
| <b>Flash reflector data</b>                                                   |                   |                           |                                  |                               |                        |
| Illumination from ... mm onwards (35 mm format)                               | 18                | 18                        | 18                               | 18                            | 18                     |
| Zoom area of the main reflector head (35 mm format)                           | 24 - 105 mm       | 24 - 105 mm               | 24 - 105 mm                      | 24 - 105 mm                   | 24 - 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                                  | •                 | •                         | •                                | •                             | •                      |
| <b>Flash display</b>                                                          |                   |                           |                                  |                               |                        |
| 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                 | • / •             | • / •                     | • / •                            | • / •                         | • / •                  |
| <b>System flash functions</b>                                                 |                   |                           |                                  |                               |                        |
| 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)                                                | —                 | —                         | —                                | —                             | —                      |
| <b>Service functions and power management</b>                                 |                   |                           |                                  |                               |                        |
| 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                              | •                 | •                         | •                                | •                             | •                      |
| <b>Possible power sources</b>                                                 |                   |                           |                                  |                               |                        |
| 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                               | —                 | —                         | —                                | —                             | —                      |
| <b>Min. number of flashes by full light output</b>                            |                   |                           |                                  |                               |                        |
| 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.                                              | —                 | —                         | —                                | —                             | —                      |
| <b>Flash recovery time (min./max.)</b>                                        |                   |                           |                                  |                               |                        |
| 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.                                              | —                 | —                         | —                                | —                             | —                      |
| <b>Weight and dimensions</b>                                                  |                   |                           |                                  |                               |                        |
| 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          |
| <b>Included in box</b>                                                        |                   |                           |                                  |                               |                        |
| Flash unit                                                                    | •                 | •                         | •                                | •                             | •                      |
| Instruction manual 6lingual GB / D / E / F / I / NL                           | •                 | •                         | •                                | •                             | •                      |
| Slave stand                                                                   | —                 | —                         | —                                | —                             | —                      |
| Belt case                                                                     | —                 | —                         | —                                | —                             | —                      |
| <b>External accessories</b>                                                   |                   |                           |                                  |                               |                        |
| Bounce diffuser 54-23                                                         | •                 | •                         | •                                | •                             | •                      |
| mecabounce 58-90                                                              | •                 | •                         | •                                | •                             | •                      |
| Power Pack P 76 / Connecting cable V 58-50 to Power Pack P 76                 | — / —             | — / —                     | — / —                            | — / —                         | — / —                  |