



## External Camera Flash DMW-FL580L

<b>Power Requirements</b>	DC 6.0 V
<b>Batteries Recommended for Use</b>	AA alkaline dry batteries (LR6) x 4 /
<b>Batteries Recommended for Use</b>	AA rechargeable nickel metal hydride batteries (Ni-MH) x 4
<b>Charging Time (from full flash until the [TEST/CHARGE] lamp lights)</b>	Approx. 2.7 sec: AA alkaline dry batteries
<b>Charging Time (from full flash until the [TEST/CHARGE] lamp lights)</b>	Approx. 1.7 sec: AA rechargeable nickel metal hydride batteries
<b>Firing Period</b>	Approx. 1/20,000 - 1/250 sec
<b>Firing Period</b>	(varies depending on the flash intensity; FP firing excluded)
<b>Number of Flashes (with full flash)</b>	Approx. 125 flashes: AA alkaline dry batteries
<b>Number of Flashes (with full flash)</b>	Approx. 175 flashes: AA rechargeable nickel metal hydride batteries (min. 1,900 mAh type)
<b>Number of Flashes (with full flash)</b>	(differs depending on the photo taking conditions)
<b>AF Assist Lamp</b>	Effective distance: Approx. 1 - 5 m / 3.28 - 16.4 feet
<b>AF Assist Lamp</b>	(differs depending on the digital camera and type of lens used)
<b>Flash Mode</b>	TTL AUTO / AUTO / MANUAL / FP TTL AUTO / FP MANUAL / SL AUTO
<b>Guide Number</b>	58 (ISO100 · m), 26 (ISO100 · m, when the wide panel is used)
<b>Lighting Angle</b>	Covers the angle of view of 12 - 100 mm lenses (35 mm camera equivalent: 24 - 200 mm)
<b>Lighting Angle</b>	(with wide panel: 7 mm lens, 35 mm camera equivalent: 14 mm)
<b>                    Illuminance</b>	100 lux at 1 m
<b>                    Lighting Angle</b>	Compatible to the lens of focal length more 12 mm (35 mm camera equivalent: more 24 mm)
<b>                    Control Mode</b>	AUTO / MANUAL
<b>LED</b> <b>                    Continuous Light-Emitting Time</b>	Approx. 170 minutes: AA alkaline dry batteries
<b>                    Continuous Light-Emitting Time</b>	Approx. 240 minutes: AA rechargeable nickel metal hydride batteries
<b>                    Continuous Light-Emitting Time</b>	(varies depending on the condition of use)

<b>Wireless (RC) function*</b>	<b>Flash Mode</b>	SL AUTO / SL MANUAL / RC / MULTI
	<b>Channel</b>	4 channels
	<b>Group</b>	3 groups control
	<b>Up / Down</b>	Upward: 0 - 90 degrees
<b>Bounce Angle</b>	<b>Up / Down</b>	Downward: 0 - 7 degrees
	<b>Right / Left</b>	Toward the right: 0 - 180 degrees
	<b>Right / Left</b>	Toward the left: 0 - 180 degrees
	<b>Dimensions</b>	Approx. 72.0 (W) x 112.5 (H) x 112.5(D) mm / 2.835 (W) x 4.429 x (H) 4.429 (D) inch
	<b>Dimensions</b>	(excluding the projecting parts)
	<b>Weight</b>	Approx. 435 g / 15.34 oz (including alkaline dry batteries)
	<b>Weight</b>	Approx. 340 g / 11.99 oz (main unit)
	<b>Operating Temperature</b>	0 - 40 °C / 32 - 104 °F
	<b>Operating Humidity</b>	10 - 80 %RH (no condensation)
	<b>NOTE</b>	* Wireless control is available with the DMC-GH4/ GH3 / GX7 / G6 / GF6.