

# INON

## INON Underwater Strobe Z-330 Specifications (\*1)

Model	Z-330
Strobe Control Mode (*2)	S-TTL Auto / TTL Auto / Manual
Connection (*2)	Optical Connection (Optical D Cable, Wireless) / Electrical Connection (Sync. Code)
Settable flash output, Guide Number (*3)	FULL [ 1/1 (33) ], -0.5 [ 1/1.4 (27) ], -1 [ 1/2 (23) ], -1.5 [ 1/2.8 (19) ], -2 [ 1/4 (16) ], -2.5 [ 1/5.6 (13) ], -3 [ 1/8 (11) ], -3.5 [ 1/11 (9.8) ], -4 [ 1/16 (8.2) ], -4.5 [ 1/22 (6.9) ], -5 [ 1/32 (5.8) ], -5.5 [ 1/45 (4.9) ], -6 [ 1/64 (4.1) ] (13 steps in 1/2EV.)
Beam Angle (*4)	110°x110°circular beam [flash light] 30° [Focus Light]
Focus Light intensity (*5)	220lm
Color Temp.	Approx. 5500K [flash light / without Strobe Dome Filter SOFT] Approx. 5400K [flash light / with Strobe Dome Filter SOFT] 5300 ~ 36000K [Focus Light (*5)]
Recycle Time (*6)(*8)	Approx. 1.8 seconds minimum ["eneloop" batteries] Approx. 1.6 seconds minimum ["eneloop pro" batteries] Approx. 2.4 seconds minimum [Alkaline batteries] Approx. 3.5 seconds minimum [Lithium 1.5V batteries]
Flash Capacity (*6)(*8)	Approx. 210 flashes ["eneloop" batteries] Approx. 280 flashes ["eneloop pro" batteries] Approx. 200 flashes [Alkaline batteries] Approx. 330 flashes [Lithium 1.5V batteries]
Focus Light Operable Duration (*7)(*8)	Approx. 2hrs 30 min ["eneloop" batteries] Approx. 3hrs 20 min ["eneloop pro" batteries] Approx. 3hrs 00 min [Alkaline batteries] Approx. 4hrs 00 min [Lithium 1.5V batteries]
Compatible Batteries	AA "eneloop" (BK-3MCC) [[recommended]] x 4 AA "eneloop pro"(BK-3HCD) [[recommended]] x 4 AA NiMH(*9) x 4 AA Alkaline x 4 AA Lithium (1.5V) x 4
Dimensions	Diameter:102mm/4.0in., Hight:131mm/5.2in., Depth:125mm/4.9in. [without Strobe Light Shade / Strobe Dome Filter SOFT] Diameter:111mm/4.4in., Hight:131mm/5.2in., Depth:129mm/5.1in. [with Strobe Light Shade]
Weight (air)	637g/22.5oz. [without Strobe Light Shade / Strobe Dome Filter SOFT / batteries] 789g/27.8oz. [with Strobe Light Shade / 4 x "eneloop" batteries]
Weight (U/W) (*10)	Approx. 48g/1.7oz. [with Strobe Light Shade / 4 x "eneloop" batteries]
Working Temperature	0°C ~ 30°C / 32°F ~ 86°F *water temperature
Storage Temperature	0°C ~ 30°C / 32°F ~ 86°F *air temperature 50°C / 122°F (temporary allowable temperature limit)
Depth Rating	100m/328ft
Body Material/Color	Polycarbonate resin/gray
Package contents	Strobe Light Shade, Strobe Dome Filter SOFT, Sync. Connector Cap, Slave Sensor Cap, Sensor Cap Caution Sticker, Repeated Flashes Limitation Sticker, INON Grease, Spare O-ring(Battery Box, Synch Connector), TTL Insulation Plate(x2)
EMC standards	EN55015:2013, EN61547:2009, CFR47 FCC-P15 Class B, ICES-003:2016+A1 Class B

\*1 As of December 2017. Specifications/product design/price subject to change without prior notice.

\*2 Compatible flash mode/connection method varies depending on combined camera system and usable flash mode differs depending on connection method. Refer to the manual.

\*3 Measurement in air without Strobe Dome Filter SOFT, at ISO100 x 1 meter. Nominal value.

\*4 Measurement in U/W. Nominal value.

\*5 Nominal value by LED manufacture.

\*6 Measured with FULL strobe output at 30-second intervals with both Focus Light and Advanced Cancel Circuit OFF, at 25°C/77°F with using following batteries giving 5 minutes cooling period every 50 flashes.

\*7 Operable duration is accumulated time of continuous mode with 5 minute cooling OFF every 30 minutes at 25°C/77°F with test batteries \*Cooling OFF time is excluded.

\*8 Recycle Time / Flash Capacity / Focus Light operable duration based on INON test data.

Actual values may vary depending on battery manufacturer, battery type and age.

\*9 Not all NiMH batteries have been tested to guarantee compatibility.

Because some "conventional" or "high-capacity" NiMH rechargeable batteries excluding "new generation" NiMH batteries ("eneloop" type) have significant self-discharge and heat-generating characteristic resulting difficulty to keep their performance during usage.

Only when "eneloop"/"eneloop pro" batteries are not available, other quality NiMH batteries are recommended.

\*10 Measurement in fresh water (25°C/77°F). Nominal value.

### Test battery:

"eneloop" battery: Panasonic "eneloop", BK-3MCC, 1.2V, Min.1,900mAh

"eneloop pro" battery: Panasonic "eneloop pro", BK-3HCD, 1.2V, Min.2,500mAh

Alkaline battery: Panasonic "EVOLTA NEO", LR6(NJ), 1.5V

Lithium 1.5V battery: FUJIFILM/Energizer LITHIUM, FR6, 1.5V