

INON

INON -1.5 White Diffuser 2 (TTL/Manual)

INON -1.5 Blue Diffuser 2 (TTL/Manual)

Thank you for purchasing INON product.

-1.5 White/Blue Diffuser 2 (TTL/Manual) is for INON「Z-240」/「D-2000W」/「D-2000Wn」/「D-2000」/「D-2000S」/「Z-220F」/「Z-220S」/「Z-220」. The diffuser is compatible with following strobe modes; S-TTL Auto mode, TTL Auto mode, Manual + TTL Auto mode and Manual mode.

This diffuser is exclusively for「Z-240」,「D-2000W」,「D-2000Wn」,「D-2000」,「D-2000S」, 「Z-220F」, 「Z-220S」 or 「Z-220」 but can not be used for「D-180」 or 「D-180S」. External Auto mode is unusable when attaching this diffuser on 「Z-240」 「D-2000W」 「D-2000Wn」 「D-2000」. For using External Auto mode of 「Z-240」 「D-2000W」 「D-2000Wn」 「D-2000」, use 『-0.5/-1.5 White/Blue Diffuser (External Auto)』.

Features

- Widen strobe beam angle (circular light distribution 100° → 110°) and soften light quality.
- 『Blue』 Diffuser compensate/ease yellowish/reddish compensation characteristic mainly by Canon digital camera. (Different model from standard “『White』 Diffuser”).
- Two Focus Light filters are included to support various shooting situations; 『W40° Filter・LE』 which has fly-eye lens construction to effectively widen Focus Light coverage and 『Red Filter・LE』 to change color tone of the Focus Light so that it will not stimulate light-sensitive subject.

Package contents :
-1.5 [White or Blue] Diffuser 2 (TTL/Manual)
(image shows [White] Diffuser) ① ×1
• W40° Filter・LE ② ×1
• Red Filter・LE ③ ×1
• This User Manual ×1
• User manual of filters ×1

Compatible strobe :
(as of July 2009)
• INON Z-240, D-2000W, D-2000Wn, D-2000, D-2000S, Z-220F, Z-220S, Z-220

Compatible flash mode:
(as of July 2009)
• S-TTL Auto mode, TTL Auto mode, Manual + TTL Auto mode, Manual mode
(External Auto mode is unusable with this diffuser.)

Compatible camera system
(as of July 2009)
• **[Blue] Diffuser:**
Specific digital camera system(especially Canon digital camera system) which has tendency to get yellowish/reddish image and hard to get natural color image.
• **[White] Diffuser:**
Digital camera system other than above. Or specific digital camera system (especially Canon digital camera system) which can have natural color image.

Preparation :
• **Attach 『W40° Filter・LE』 / 『Red Filter・LE』 (not mandatory).**
Attach 『W40° Filter・LE』 or 『Red Filter・LE』 on a “-1.5 Diffuser 2” depending on subject/shooting condition/camera system/flash mode.
Please see user manual of filters for detail.

How to attach :
• **Attach diffuser**
Set the diffuser on compatible strobe so that it completely covers strobe front and INON logo match to strobe's INON logo. Then tighten the screw. Do not tighten too much to prevent damage on “Diffuser” itself or screw holes of strobe.
Check and make sure that the diffuser seats on strobe rubber protector 『groove』 without lifting up.



Handling precaution: • **When using Manual mode**

Actual flash output is $3/2EV$ (1.5 stop) less than selected value at “Main Mode Switch/EV Control Switch” [Z-240, D-2000W, D-2000Wn, D-2000, D-2000S] or “Mode Switch” [Z-220F, Z-220S, Z-220]. [an image gets $-3/2EV$ (-1.5 stop) dark compared to an image without the diffuser]

Actual flash output of Z-240 with the -1.5 Diffuser for each switch position. ([*]:air/ISO100·m)

Main Mode Switch	EV. Control Switch	Guide Number with the -1.5 Diffuser [air/ISO100·m]	Relative Flash output to FULL(G.N.24[*]) without the -1.5 Diffuser		
			[EV.]	[absolute value]	
FULL M^{-0.5}▼.6	(any position)	approx.14	-1.5EV.	approx.1/2.8	
	11 (-0.5)	approx.12	-2.0EV.	approx.1/4.0	
	-	approx.10	-2.5EV.	approx.1/5.7	
	8	approx.8.5	-3.0EV.	approx.1/8.0	
	-	approx.7.1	-3.5EV.	approx.1/11	
	5.6	approx.6.0	-4.0EV.	approx.1/16	
	-	approx.5.0	-4.5EV.	approx.1/23	
	4	approx.4.2	-5.0EV.	approx.1/32	
	-	approx.3.6	-5.5EV.	approx.1/45	
	2.8	approx.3.0	-6.0EV.	approx.1/64	
	-	approx.2.5	-6.5EV.	approx.1/91	
	2	approx.2.1	-7.0EV.	approx.1/128	
	-	approx.1.8	-7.5EV.	approx.1/181	
	-	(M-6)			

Actual flash output of D-2000W, D-2000Wn, D-2000, D-2000S with the -1.5 Diffuser for each switch position. ([*]:air/ISO100·m)

Main Mode Switch	EV. Control Switch	Guide Number with the -1.5 Diffuser [air/ISO100·m]	Relative Flash output to FULL(G.N.20[*]) without the -1.5 Diffuser		
			[EV.]	[absolute value]	
FULL M^{-0.5}▼.6	(any position)	approx.12	-1.5EV.	approx.1/2.8	
	11 (-0.5)	approx.10	-2.0EV.	approx.1/4.0	
	-	approx.8.4	-2.5EV.	approx.1/5.7	
	8	approx.7.1	-3.0EV.	approx.1/8.0	
	-	approx.5.9	-3.5EV.	approx.1/11	
	5.6	approx.5.0	-4.0EV.	approx.1/16	
	-	approx.4.2	-4.5EV.	approx.1/23	
	4	approx.3.5	-5.0EV.	approx.1/32	
	-	approx.3.0	-5.5EV.	approx.1/45	
	2.8	approx.2.5	-6.0EV.	approx.1/64	
	-	approx.2.1	-6.5EV.	approx.1/91	
	2	approx.1.8	-7.0EV.	approx.1/128	
	-	approx.1.5	-7.5EV.	approx.1/181	
	-	(M-6)			

Actual flash output of Z-220F, Z-220S, Z-220 with the -1.5 Diffuser for each switch position. ([*]:air/ISO100·m)

Mode Switch	Guide Number with the -1.5 Diffuser [air/ISO100·m]	Relative Flash output to FULL(G.N.22[*]) without the -1.5 Diffuser	
		[EV.]	[absolute value]
FULL	approx.13	-1.5EV.	approx.1/2.8
-1/2	approx.11	-2.0EV.	approx.1/4.0
-1	approx.9.5	-2.5EV.	approx.1/5.7
-1 1/2	approx.8.0	-3.0EV.	approx.1/8.0
-2	approx.6.7	-3.5EV.	approx.1/11
-2 1/2	approx.5.6	-4.0EV.	approx.1/16
-3	approx.4.5	-4.5EV.	approx.1/23
-3 1/2	approx.4.0	-5.0EV.	approx.1/32
-4	approx.3.5	-5.5EV.	approx.1/45
-4 1/2	approx.2.8	-6.0EV.	approx.1/64
-5	approx.2.5	-6.5EV.	approx.1/91

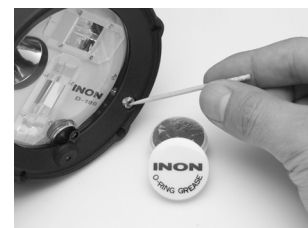
Please see user manual of strobe for detail of Manual flash setting.

• **When using S-TTL Auto[Z-240, D-2000W, D-2000Wn, D-2000, D-2000S] / TTL Auto[Z-240, D-2000W, D-2000Wn, D-2000, D-2000S, Z-220, Z-220S] / Manual + TTL Auto [Z-240, D-2000W, D-2000Wn]**

With the -1.5 Diffuser being attached, S-TTL Auto/TTL Auto/Manual + TTL Auto metering range shifts to subject side at $-3/2EV$ (-1.5 stop) compare to range without the -1.5 Diffuser. But actual flash output remains same if single strobe configuration within strobe's auto metering range operation is exercised. Please see user manual of strobe for detail of S-TTL/TTL Auto/Manual + TTL Auto, flash output compensation, metering range.

Maintenance

- **Make sure to detach the diffuser from strobe** after diving and soak the diffuser in fresh water (below 30 deg C / 86 deg F) for several hours to dissolve any salt build up. Blow off water drop by air gun/blower and dry the diffuser in shaded and well ventilated area. It may take several days to completely dry.
- Periodically grease up the screw holes (to fix the diffuser) of your strobe to avoid 「salt build-up」 or 「ionization」 which may cause sticking.



INON Inc.
2-18-9, Dai, Kamakura Kanagawa 247-0061 Japan
E-mail support@inon.co.jp / Fax. +81(0)467-48-2178
URL <http://www.inon.co.jp/>

July 2009