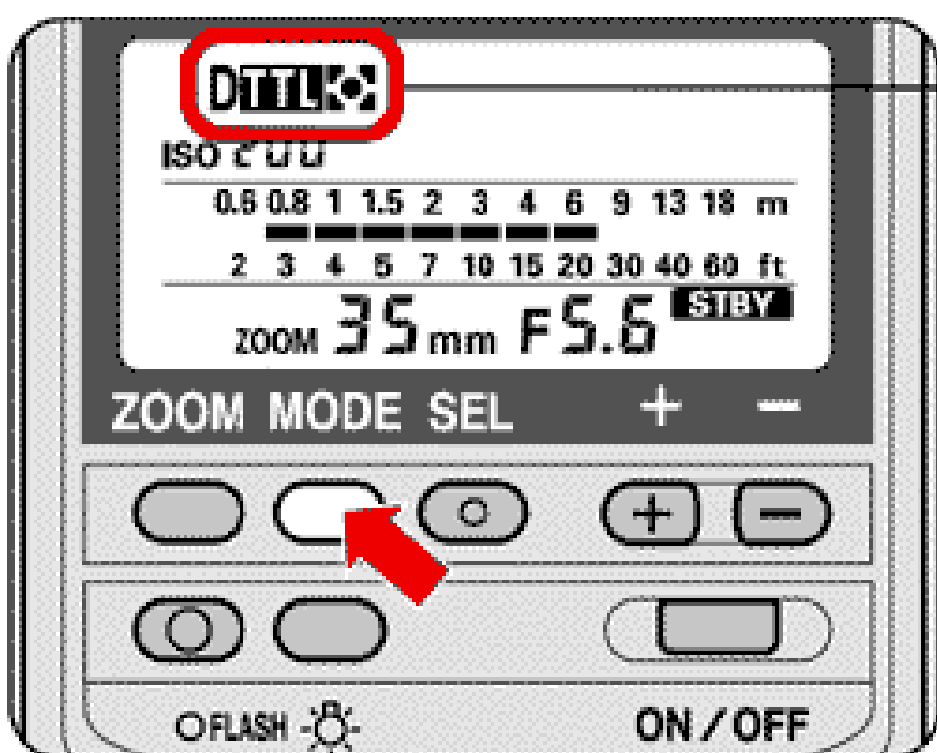












DTTL 

3D Multi-Sensor
Balanced Fill-Flash
or Multi-Sensor
Balanced Fill-Flash
for Digital SLR
cameras

DTTL 

Center-Weighted
Fill-Flash for Digital
SLR cameras

DTTL

Standard TTL Flash
for Digital SLR
cameras

DTTL

ISO 200

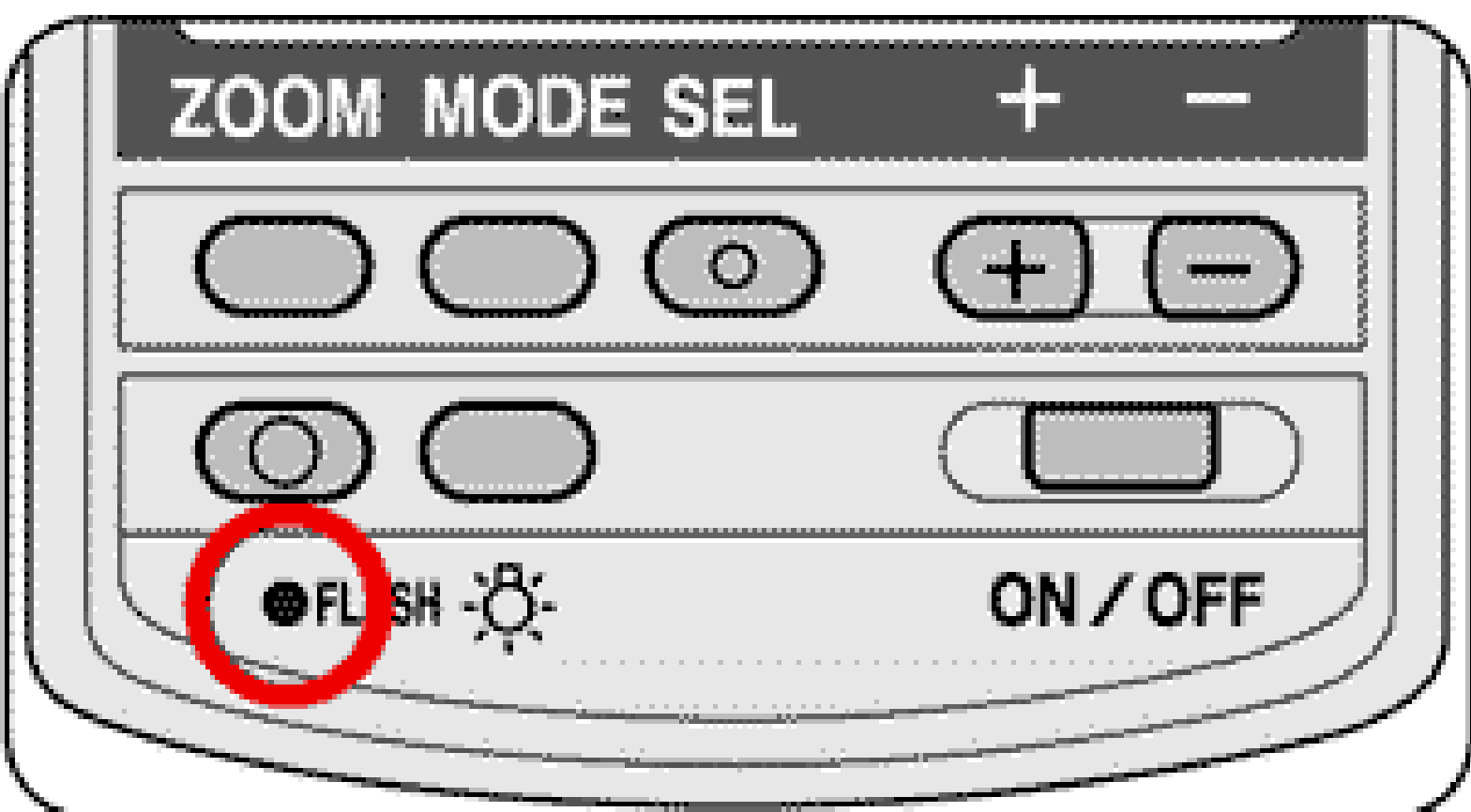
0.6 0.8 1 1.5 2 3 4 6 13 18 m

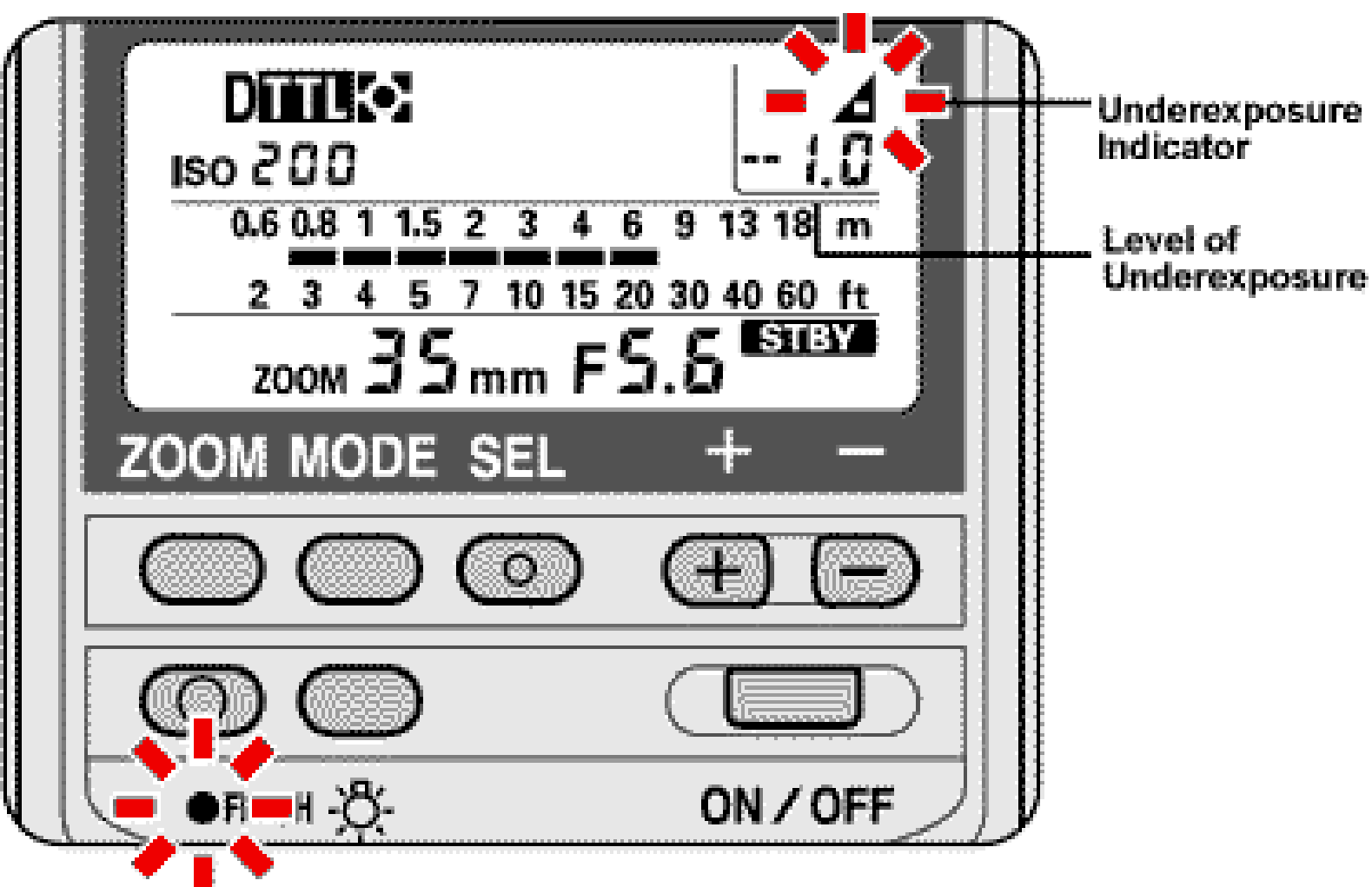
3 4 5 7 10 15 20 30 40 60 ft

ZOOM 35 mm F5.6

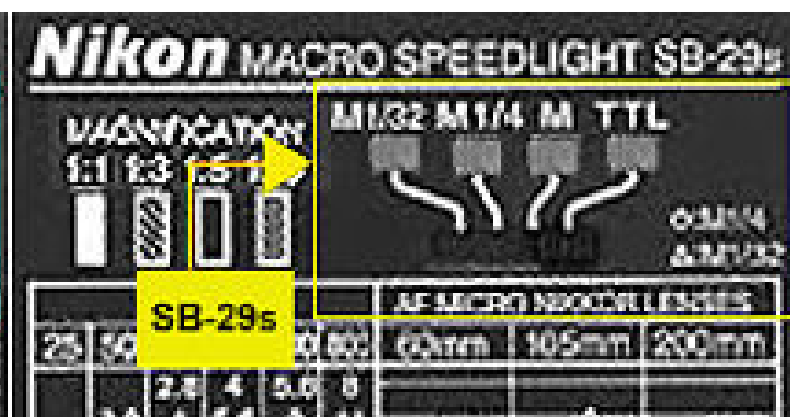
STBY

A flash shooting distance range of 0.8 to 6m (3 to 20 ft.) is shown.





ISO number (f/number)				Distance range according to zoom settings (Upper figures are in meters, lower figures are in feet.)							
1600	800	400	200	18mm	20mm	24mm	28mm	35mm	50mm	70mm	85mm
8	5.6	4	2.8	0.8-9 2.6-29	0.9-10 2.9-32	1.4-15 4.4-49	1.5-16 4.7-52	1.6-18 5.2-59	1.9-20 6.1-66	2.2-20 7.0-66	2.2-20 7.2-66
11	8	5.6	4	0.6-6.3 2.2-20	0.7-7.0 2.1-23	1.0-10 3.1-34	1.0-11 3.3-37	1.2-12 3.7-41	1.4-14 4.3-48	1.5-16 4.9-55	1.6-17 5.1-57
16	11	8	5.6	0.6-4.5 2.0-14	0.6-5.0 2.0-16	0.7-7.5 2.2-24	0.7-8.0 2.4-26	0.8-9.0 2.6-29	1.0-10 3.0-34	1.1-12 3.5-39	1.1-12 3.6-41
22	16	11	8	0.6-3.1 2.0-10	0.6-3.5 2.0-11	0.6-5.3 2.0-17	0.6-5.6 2.0-18	0.7-6.3 2.0-20	0.7-7.4 2.2-24	0.8-8.4 2.5-27	0.8-8.8 2.6-28
32	22	16	11	0.6-2.2 2.0-7.3	0.6-2.5 2.0-8.2	0.6-3.7 2.2-12	0.6-4.0 2.0-13	0.6-4.5 2.0-14	0.6-5.2 2.0-17	0.6-6.0 2.0-19	0.6-6.2 2.0-20
45	32	22	16	0.6-1.5 2.0-5.2	0.6-1.7 2.0-5.7	0.6-2.6 2.0-8.6	0.6-2.8 2.0-9.2	0.6-3.1 2.0-10	0.6-3.7 2.0-12	0.6-4.2 2.0-13	0.6-4.4 2.0-14
64	45	32	22	0.6-1.1 2.0-3.6	0.6-1.2 2.0-4.1	0.6-1.8 2.0-6.1	0.6-2.0 2.0-6.5	0.6-2.2 2.0-7.3	0.6-2.6 2.0-8.6	0.6-3.0 2.0-9.8	0.6-3.1 2.0-10
	64	45	32	0.6-0.7 2.0-2.6	0.6-0.8 2.0-2.8	0.6-1.3 2.0-4.3	0.6-1.4 2.0-4.6	0.6-1.5 2.0-5.2	0.6-1.8 2.0-6.0	0.6-2.1 2.0-6.9	0.6-2.2 2.0-7.2
		64	45		0.6 2.0	0.6-0.9 2.0-3.0	0.6-1.0 2.0-3.2	0.6-1.1 2.0-3.6	0.6-1.3 2.0-4.3	0.6-1.5 2.0-4.9	0.6-1.5 2.0-5.1







Nikon MACRO SPEEDLIGHT SB-29S

MAGNIFICATION

1:1 1:3 1:5 1:10



M1/32 M1/4 M TTL



ON/4
OFF/32

ISO						AF MICRO NIKKOR LENSES		
25	50	100	200	400	800	60mm	105mm	200mm
		2.8	4	5.6	8			
	2.8	4	5.6	8	11			
2.8	4	5.6	8	11	16			
4	5.6	8	11	16	22			
5.6	8	11	16	22	32			
8	11	16	22	32	45			
11	16	22	32	45	64			
16	22	32	45	64				
22	32	45	64					
32	45	64						

OVER

OFF ON STBY FLASH

READY



CHARGE TIME 11 HOURS

MADE IN JAPAN





Nikon SB-29s Speedlight









SB29/29s						
	TTL 3D Multi-Sensor balanced fill-flash	TTL Multi-sensor balanced fill-flash	TTL	Manual	Rear Curtain Sync	Slow sync
F6	☑		☑	☑	REAR	SLOW
F5	☑		☑	☑	REAR	SLOW
F4		☑	☑	☑		
F100/F90x	☑		☑	☑	REAR	SLOW
F80/F75/F70	☑		☑	☑	REAR	SLOW
F65		☑	☑	☑	REAR	SLOW
F60/F50		☑		☑		
F55				☑		SLOW
F3 series 4			☑	☑		
FM2/FM2n				☑		
FM3a			☑	☑		
D1 series				☑	REAR	SLOW
D100				☑	REAR	SLOW
D2H /D2X				☑	REAR	SLOW
D70				☑	REAR	SLOW
COOLPIX 8800,8400				☑	REAR	SLOW
COOLPIX 5000,5400			☑	☑	REAR ₁	SLOW
COOLPIX 4500/995/ 990/ 950 ₃			☑	☑		SLOW





SPEEDLIGHT SB30



STBY

400	100
5.6	2.8
8	4
11	5.6
16	8



+1/2 0 -1/2



OFF ON STBY

M1/32

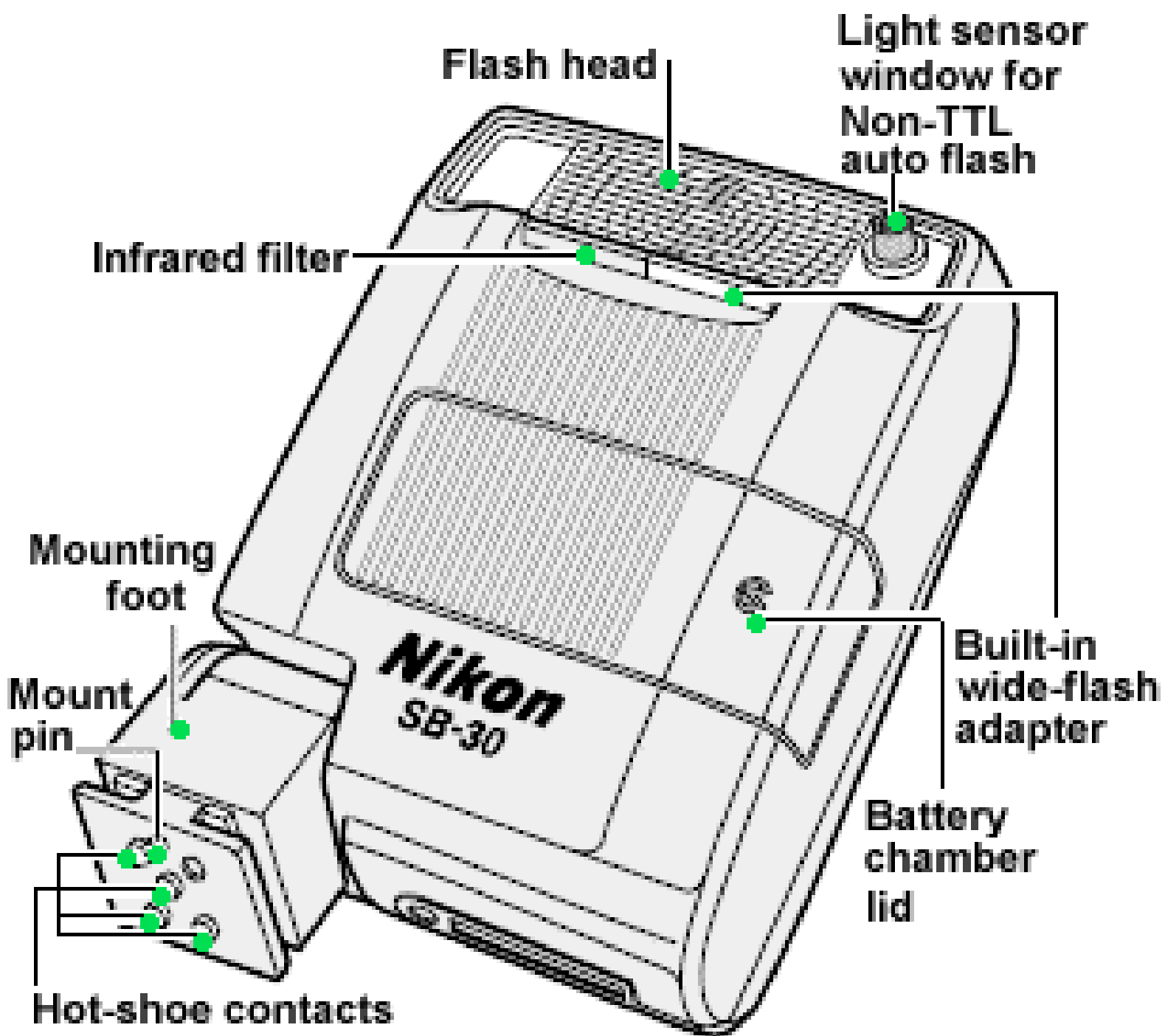
M1/8

M1/1

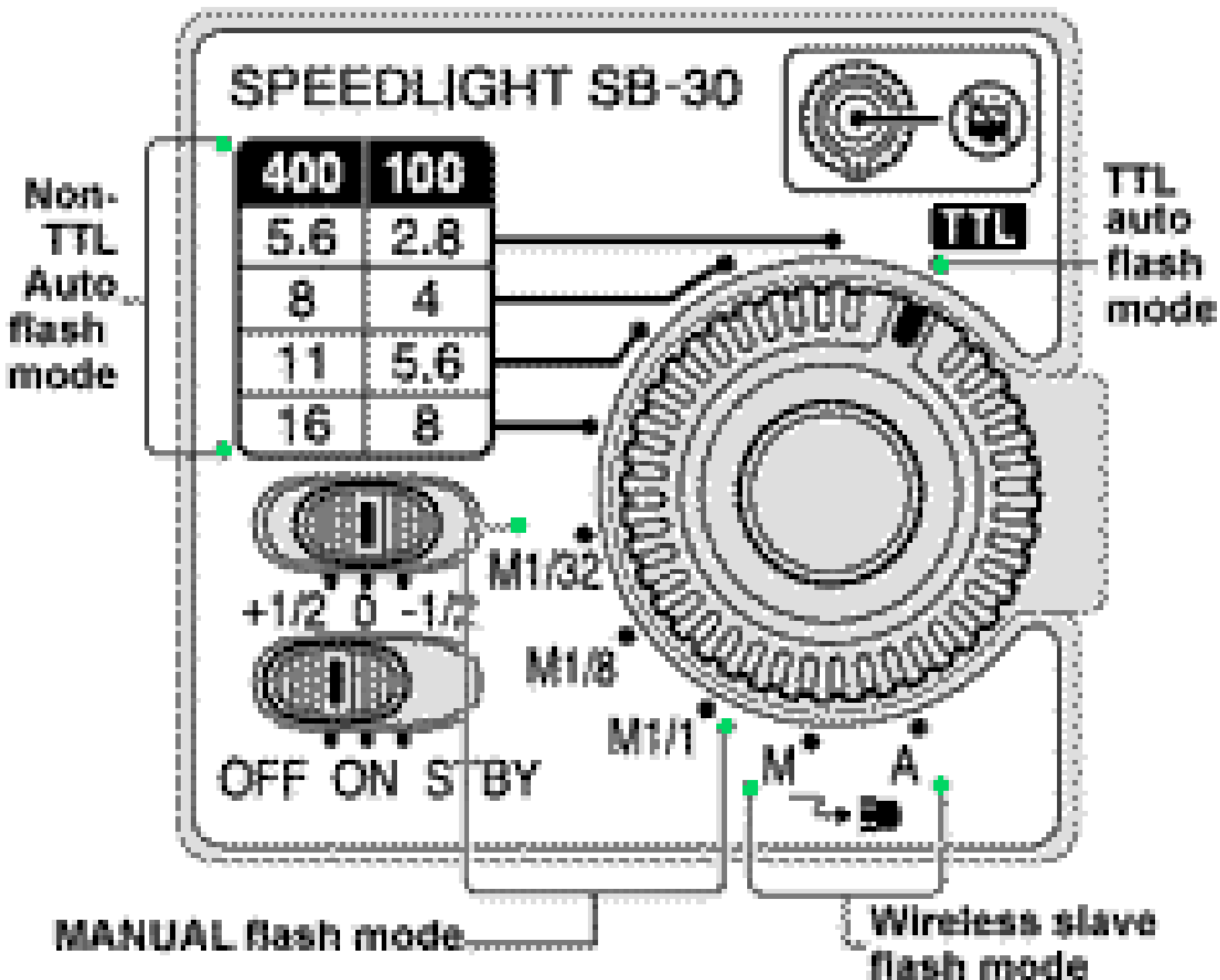
M A S B P L F E C O M P A N Y I N C O R P O R A T E D U S A M A D E I N U S A P A T E N T N O 5 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100







Mode selector dial (REAR SECTION)



**Exposure
compensation
switch**

Ready-light

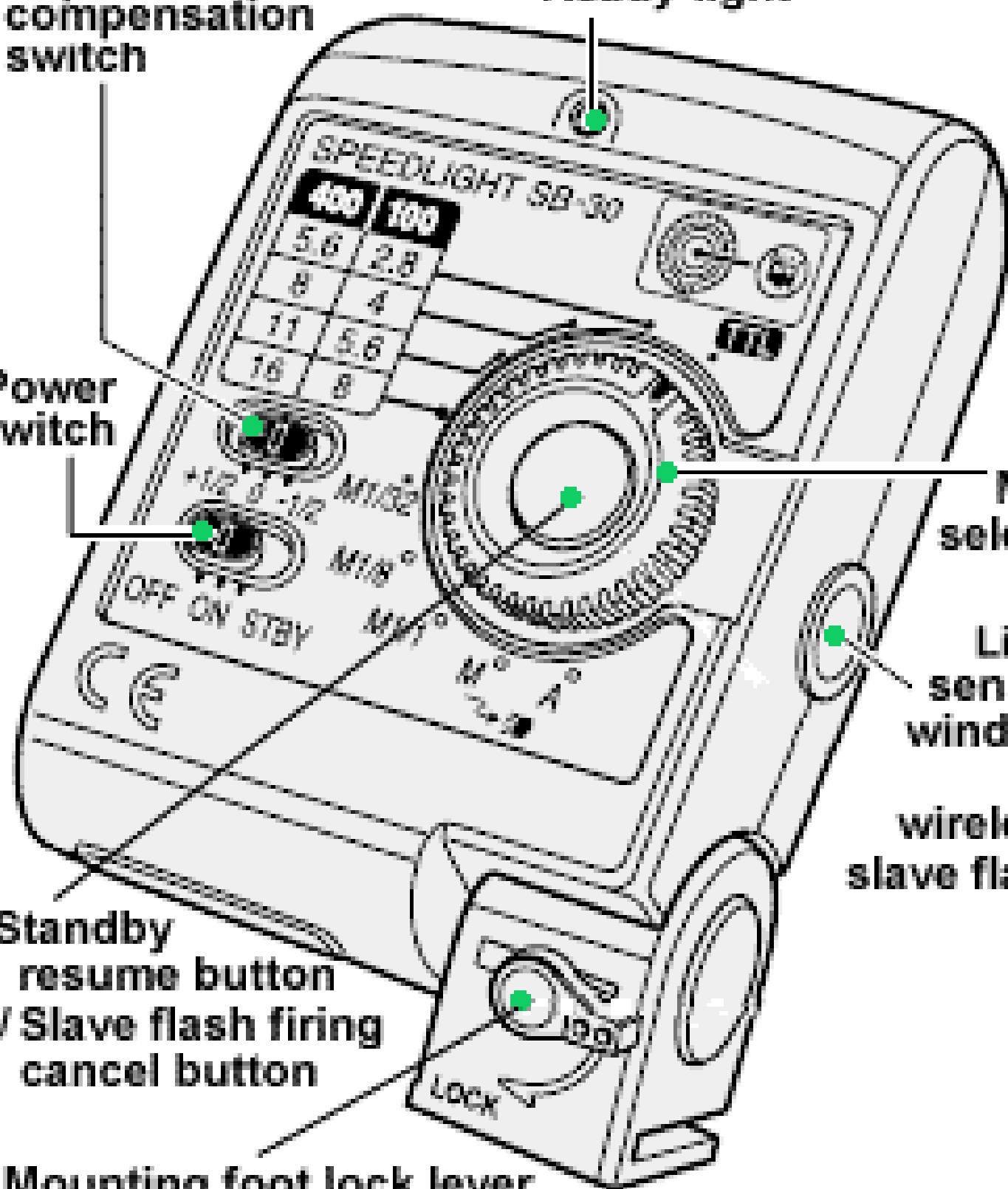
**Power
switch**

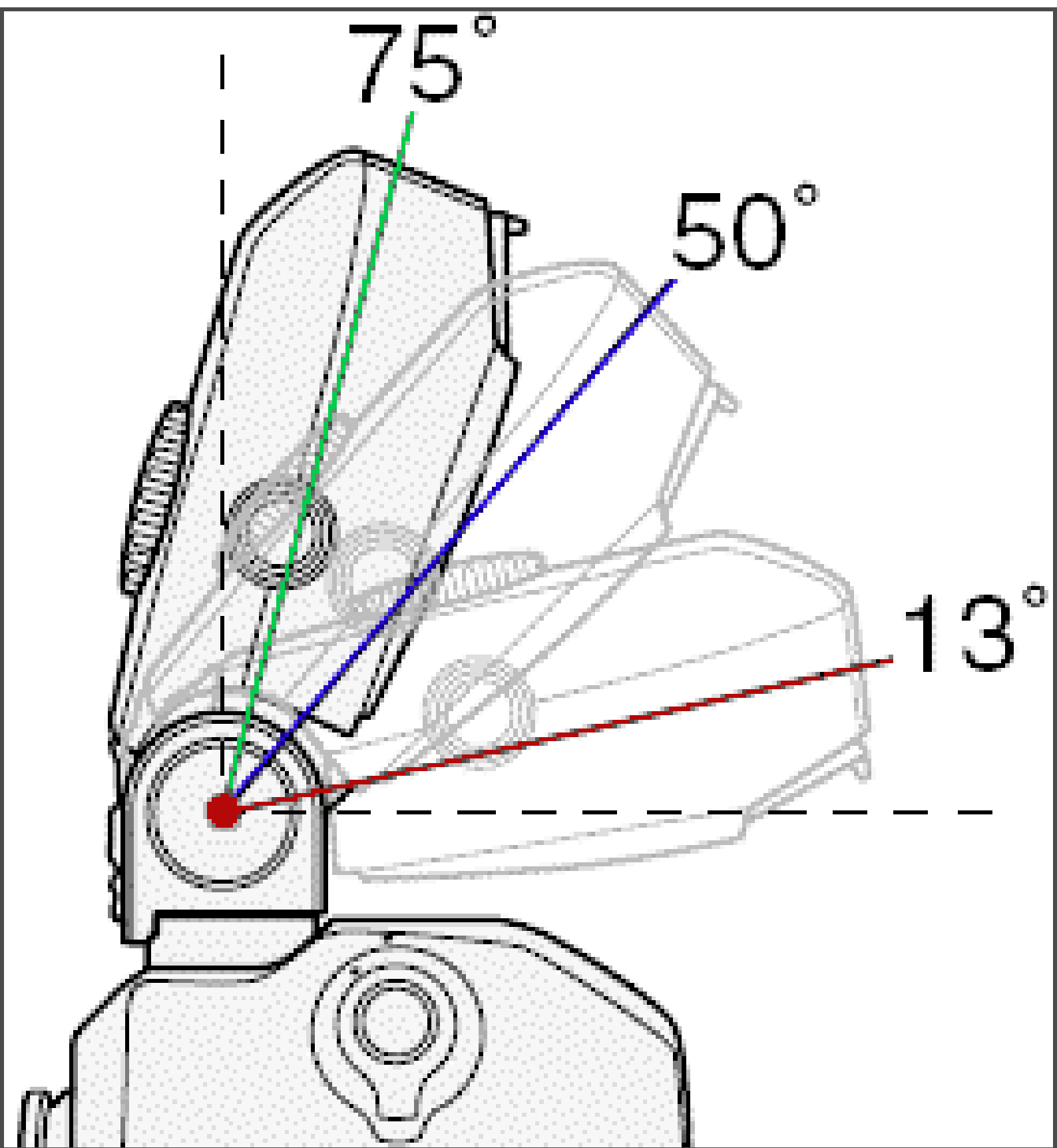
**Mode
selector
dial**

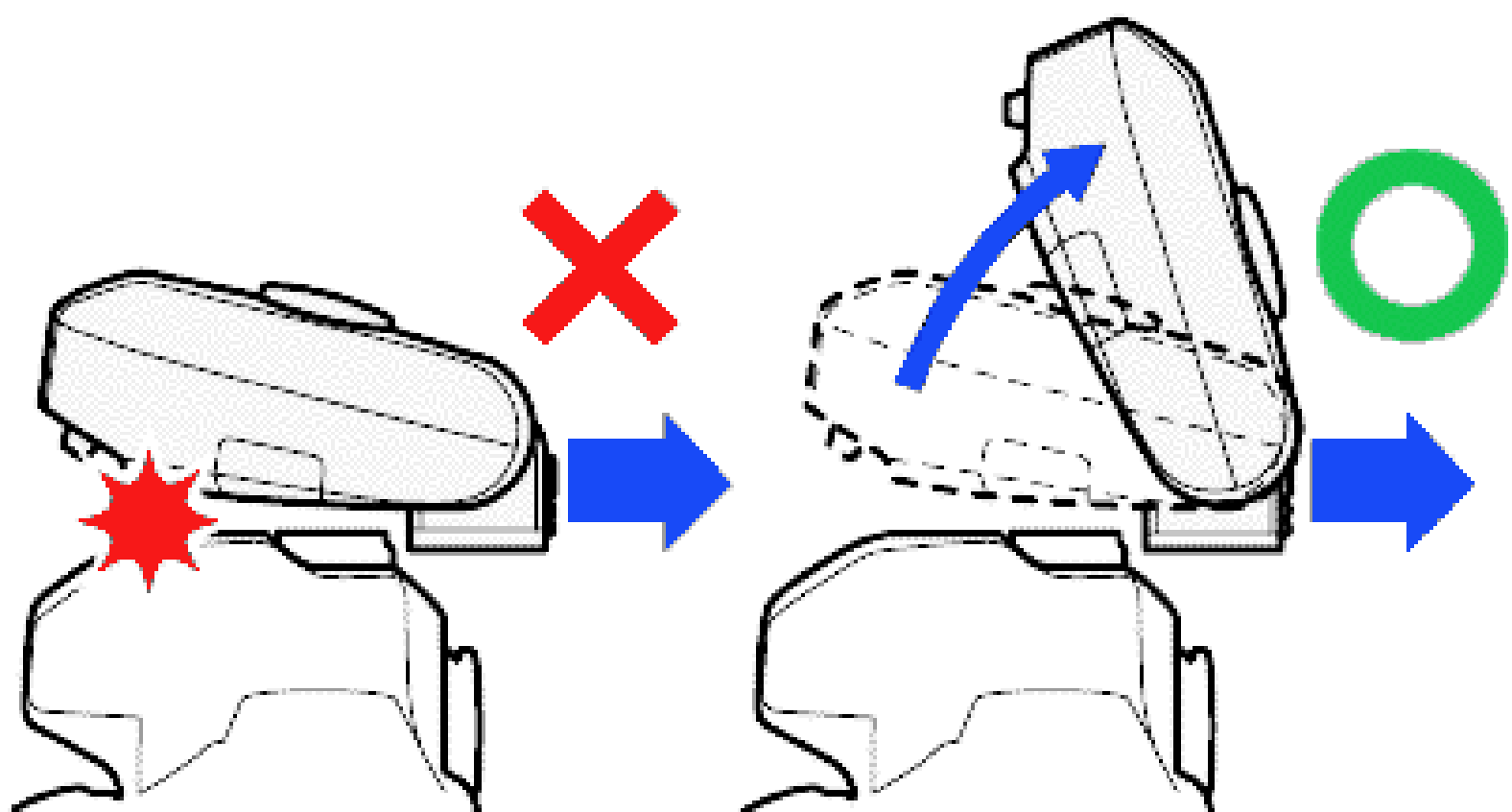
**Light
sensor
window
for
wireless
slave flash**

**Standby
resume button
/ Slave flash firing
cancel button**

Mounting foot lock lever







SB30

	TTL 3D Multi-Sensor balanced fill-flash	TTL Multi-sensor balanced fill-flash	TTL	Non TTL Auto	Manual	Rear Curtain Sync	Slow sync
F6	Ⓜ	Ⓜ	Ⓜ	A	M	Ⓜ	SLOW
F5	Ⓜ	Ⓜ	Ⓜ	A	M	Ⓜ	SLOW
F4			Ⓜ	A	M		SLOW
F100/F90x	Ⓜ	Ⓜ	Ⓜ	A	M	Ⓜ	SLOW
F80/F75/F70	Ⓜ	Ⓜ	Ⓜ	A	M	Ⓜ	SLOW
F65			Ⓜ	A	M	Ⓜ	SLOW
F60/F50				A	M		
F55				A	M		SLOW
F3 series 4			Ⓜ	A	M		
FM2/FM2n				A	M		
FM3a			Ⓜ	A	M		
D1 series				A	M	Ⓜ	SLOW
D100				A	M	Ⓜ	SLOW
D2H / D2X				A	M	Ⓜ	SLOW
D70				A	M	Ⓜ	SLOW
COOLPIX 8800, 8400				A	M	Ⓜ	SLOW
COOLPIX 5000, 5400, 5700, 8700			Ⓜ	A	M	Ⓜ ₁	SLOW
COOLPIX 4500/995/990/950 3			Ⓜ	A	M		SLOW
COOLPIX 5200/4200/4100/3500/3700/3200/3100/2500/2200/2100/2000/885/775 7			Ⓜ		M		SLOW

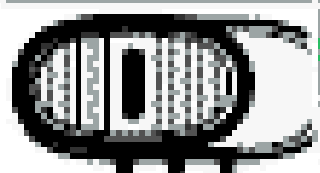
Available flash modes with film-based SLRs cameras: ⊙: Recommended flash mode ○: Usable flash mode ×: Not usable —: Not applicable

Camera type and model		Connection to the camera	Mode selector dial settings				
			TTL auto	Non-TTL auto	Manual	Wireless (M)	Wireless (A)
Without a built-in flash	Cameras compatible with the TTL auto flash mode:	Accessory shoe	⊙	○	○	—	—
	F5, F4-Series, F100, F90X/N90s, F90-Series/N90, F-801s/N8008s, F-801/N8008, F-601M/N6000, F-501/N2020, F-301/N2000, FM3A, FA, FE2, FG, F3-Series*1						
	Cameras incompatible with the TTL auto flash mode:	Accessory shoe	×	⊙	○	—	—
	F2*2, FM2, New FM2, FE, FG20, EM, FM10, FE10						
With a built-in flash	Cameras with an accessory shoe:	Accessory shoe	⊙	○	○	—	—
	F80-Series/N80-Series*4, F70-Series/N70*4, F65-Series/N65-Series, F60-Series/N60, F55/N55*3, F50-Series/N50, F-601/N6006, F-401x/N5005, F-401s/N4004s, F-401/N4004, Pronea 600i/6i	Wireless	—	—	—	⊙	⊙
	Cameras without an accessory shoe:	Wireless	—	—	—	⊙	⊙
	Pronea S						



SPEEDLIGHT SB-30

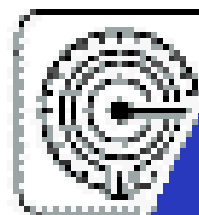
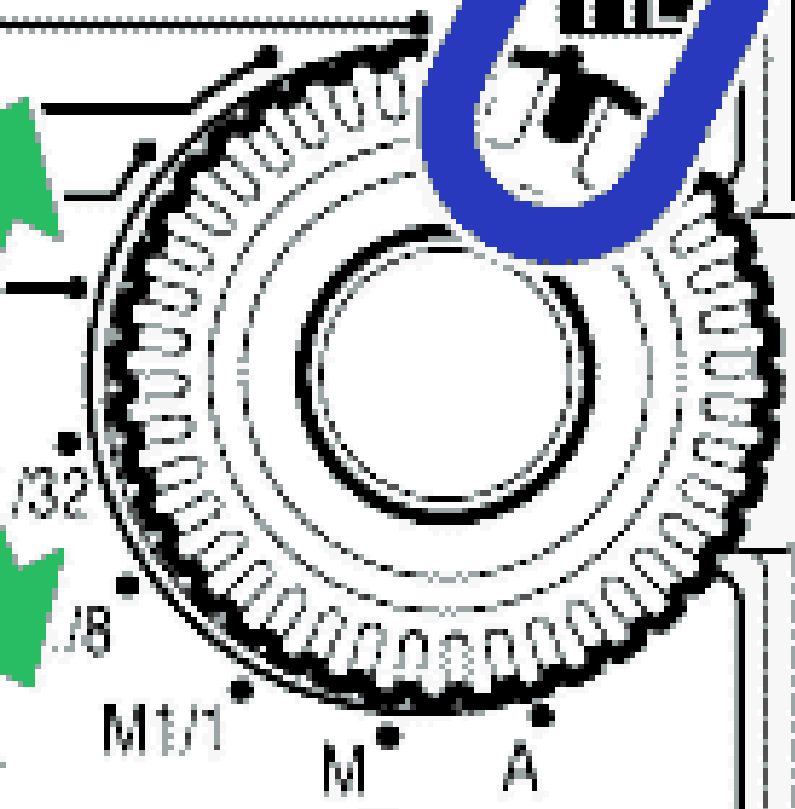
400	100
5.6	2.8
8	4
11	5.6
16	8



+1/2 0 -1/2



OFF ON STBY



TTL

Available flash modes with digital cameras ☉: Recommended flash mode ○: Usable flash mode ×: Not usable —: Not applicable

Camera type and model	Connection to the camera	Mode selector dial settings				
		TTL auto	Non-TTL auto	Manual	Wireless (M)	Wireless (A)
D1-Series*1, D100	Accessory shoe	×	☉	○	—	—
COOLPIX 5000/5700	Accessory shoe	☉	○	○	—	—
COOLPIX 900/910/950/990/995/4500	Cord*2*3	☉	○	○	—	—
	Wireless*4	—	—	—	—	☉
COOLPIX*5 700/775/800/880/885/2000/2500/3500/4300	Wireless*4	—	—	—	×	☉
COOLPIX 100/300/600*6/5000*7/5700	Wireless*4	—	—	—	☉	☉

*1 The D-TTL auto flash mode is not possible with the SB-30.

*2 Except the COOLPIX 900

*3 Use of the Multi-Flash Bracket Unit SK-E900 is recommended.

*4 Use of the Bracket Set SK-9 is recommended.

*5 The built-in flash fires one preliminary flash before actually firing to produce the correct flash output.

*6 A dedicated Speedlight for the COOLPIX 600 is required.

*7 At the "Auto with red-eye reduction" setting, the Wireless (M) mode is not possible. Use the Wireless (A) mode instead.

400

100

5.6

2.8

8

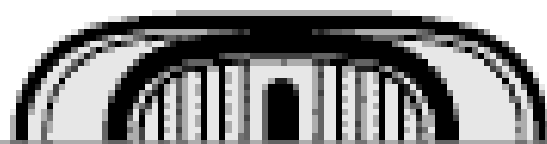
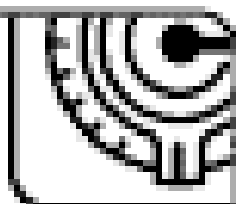
4

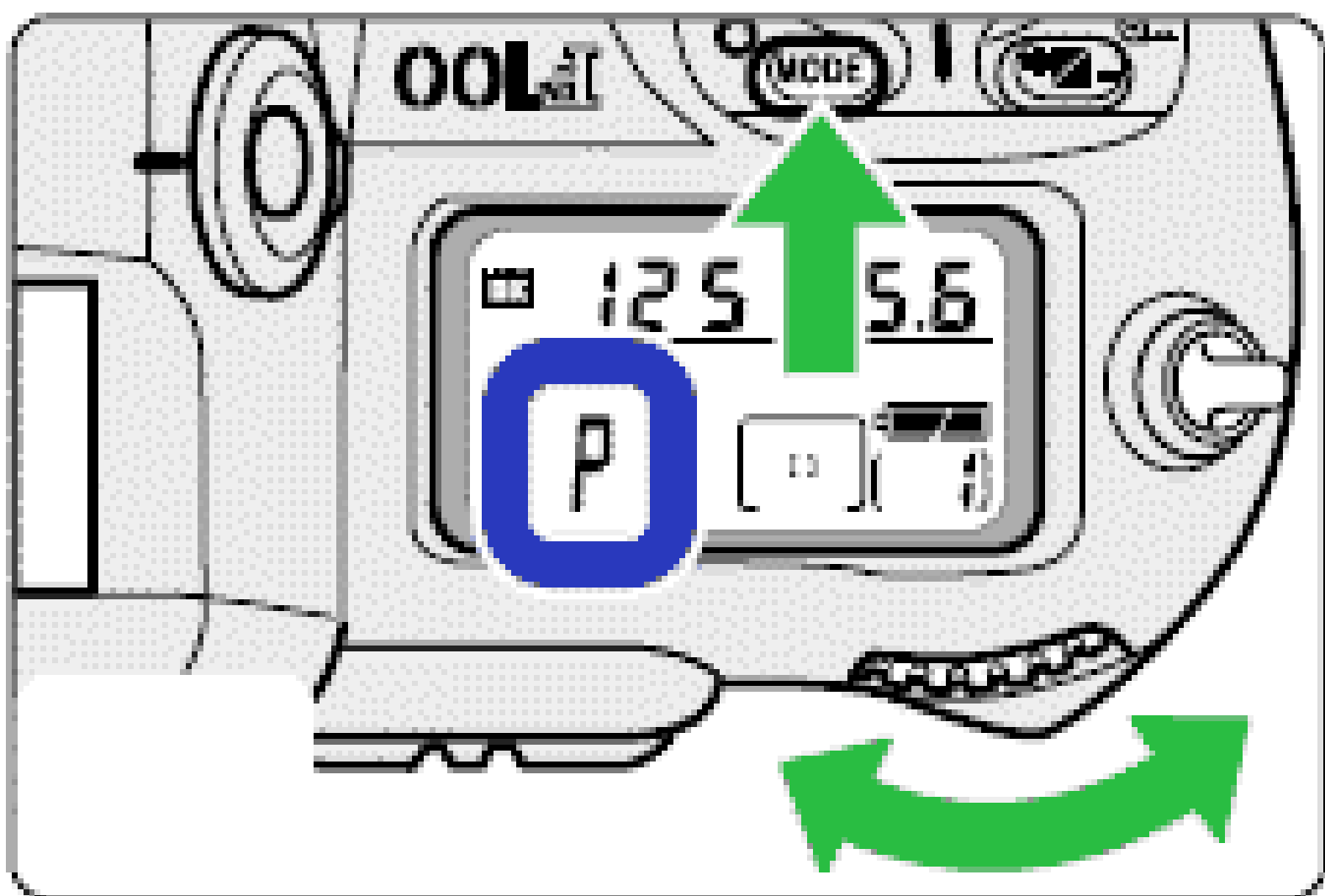
11

5.6

16

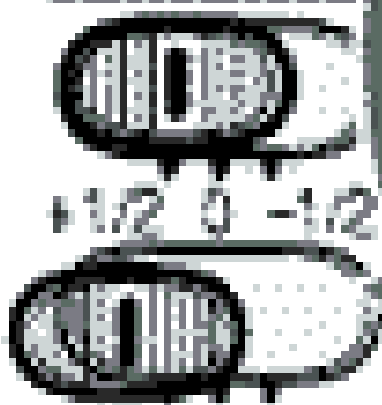
8



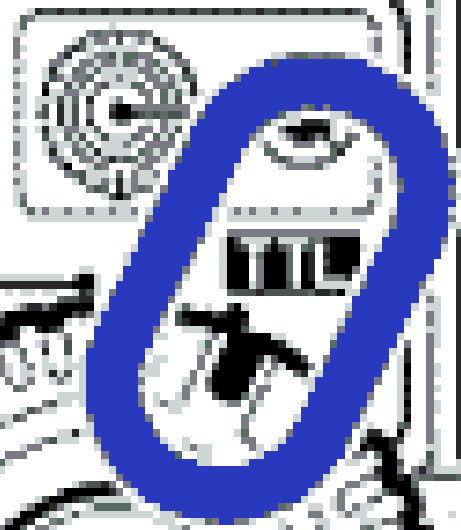
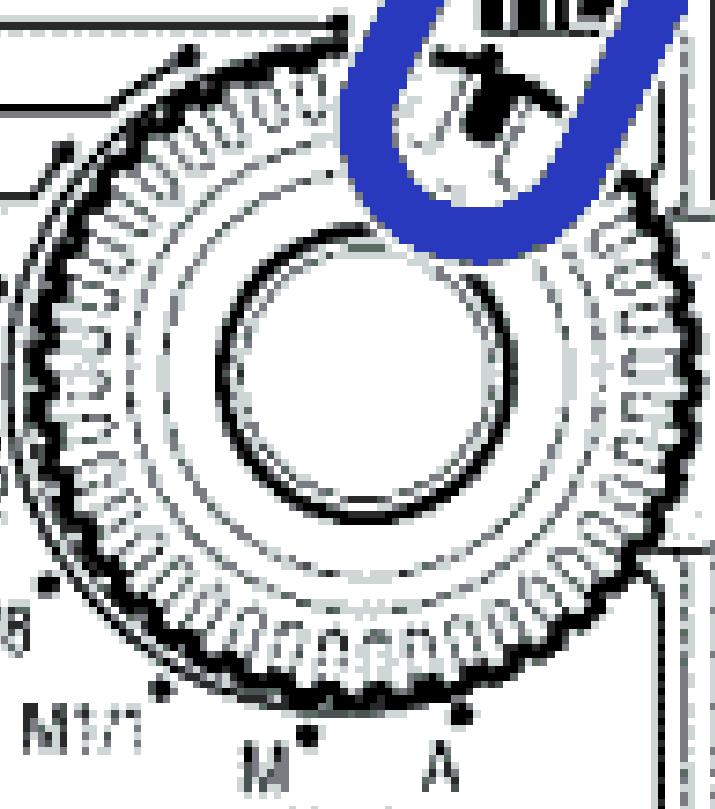
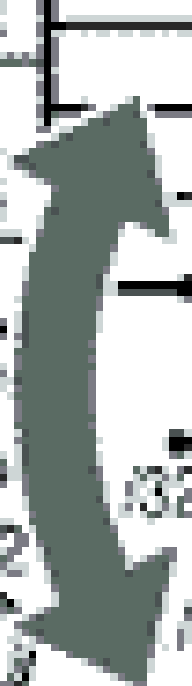


SPEEDLIGHT SB-30

400	100
5.6	2.8
8	4
11	5.6
16	8



OFF ON STBY





SPEEDLIGHT SB-80DX

MODE

TWOFF

FLASH

TTL

SEL

[Flash Icon]

READY

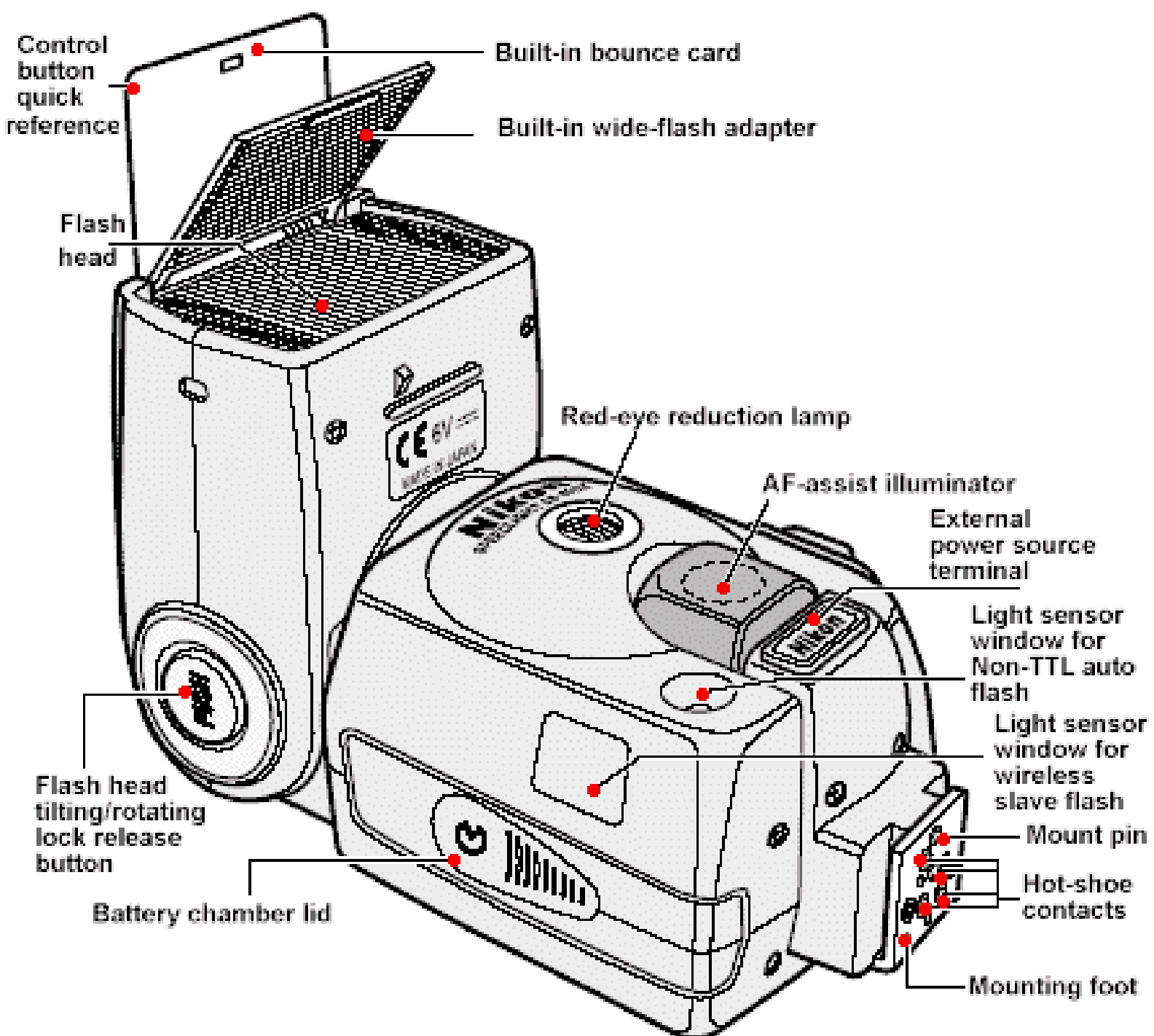
CANON

28-70









Flash head
tilting angle
scale

Modeling
illuminator
button

Wireless slave
flash cancel
button

Flash head
rotating angle
scale

Terminal
cover

TTL multiple
flash terminal

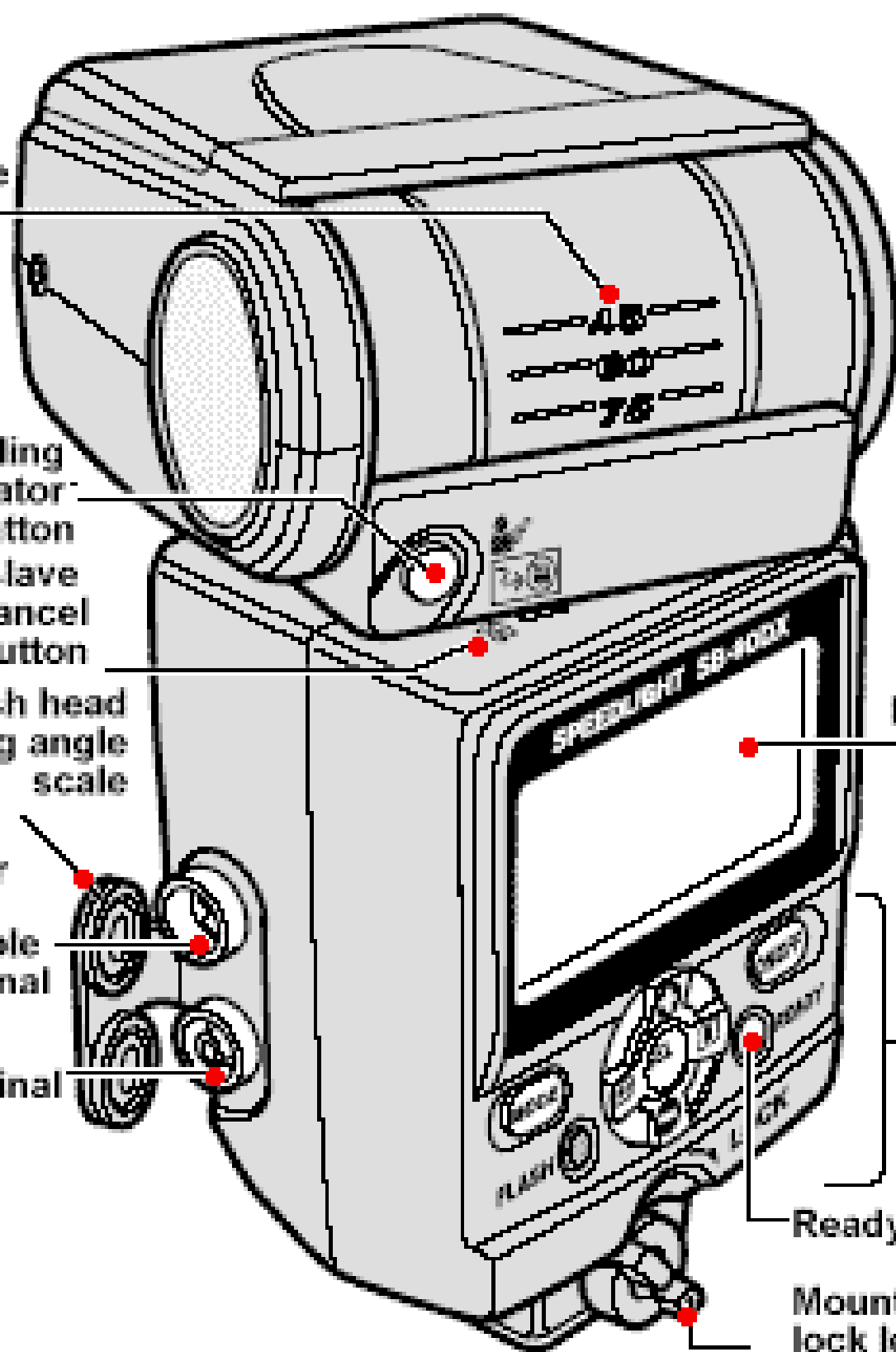
Sync terminal

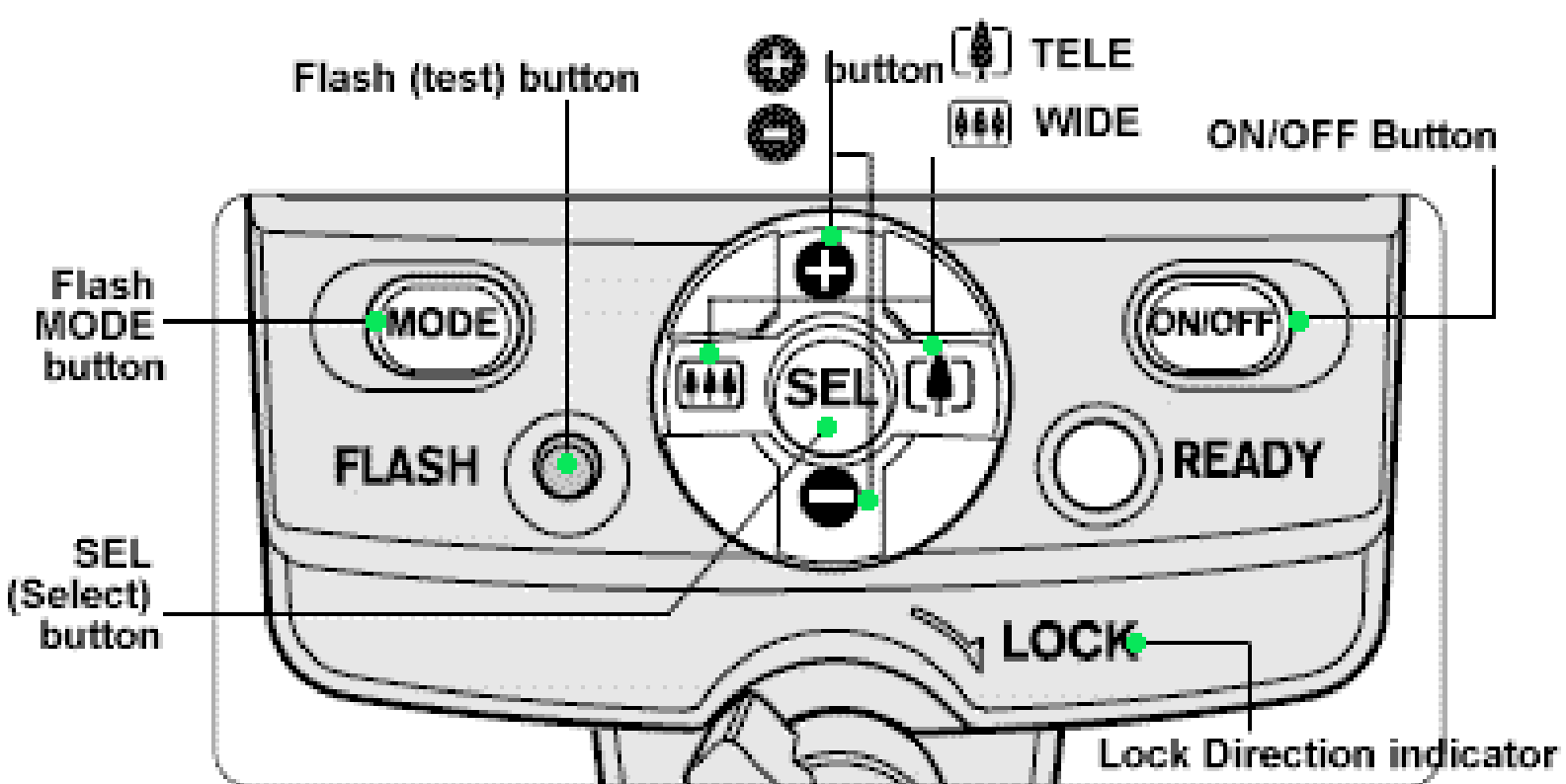
LCD panel

Control
buttons

Ready-light

Mounting foot
lock lever







Group	Camera name	TTL auto flash				
		3D Multi-Sensor Balanced Fill-Flash	Multi- Sensor Balanced Fill-Flash	Matrix Balanced Fill-Flash	Center- Weighted Fill-Flash/Spot Fill-Flash	Standard TTL flash
I	F6, F5, F100, F90X/ N90s, F90-Series/ N90, F80-Series/ N80-Series, F70-Series/ N70	○	○	–	○	○
II	F4-Series, F65-Series/N65-Series, F-801s/ N8008s, F-801/N8008, Pronea 600i/6i	–	–	○	○ ^{*1}	○
III	F-601/N6006, F-601M/N6000	–	–	○	○	○
IV	F60-Series/N60, F50-Series/N50, F-401x/N5005	–	–	○	○	–
V	F-501/N2020, F-401s/N4004s, F-401/N4004, F-301/N2000	–	–	–	○ ^{*2}	○
VI	FM3A, FA, FE2, FG, Nikonos V, F3-Series (with the AS-17)	–	–	–	–	○
VII	New FM2, FM10, FE10, F3-Series, F55/N55	–	–	–	–	–
Digital SLRs	D1-Series, D100	–	–	–	–	–

- TTL** Automatic Balanced Fill-Flash with TTL Multi Sensor
- D TTL** Automatic Balanced Fill-Flash with TTL Multi Sensor for Digital SLRs
- TTL** Matrix Balanced Fill-Flash, Center-Weighted Fill-Flash/Spot Fill-Flash
- D TTL** Center-Weighted Fill-Flash for Digital SLRs
- TTL** Standard TTL Flash, Matrix Balanced Fill-Flash, Center-Weighted Fill-Flash/Spot Fill-Flash
- D TTL** Standard TTL Flash for Digital SLRs

- A** Non-TTL Auto Flash
- AA** Auto Aperture Flash
- M** Manual Flash
- M** Repeating Flash
- M** **FP** FP High-Speed Flash sync

Flash Modes

Flash output level
Exposure compensation

ISO sensitivity /
No. of repeating
flashes/Frequency

Red-eye
reduction

Sound monitor

Wireless flash

Zoom-head position

Underbar

Aperture

AF-assist illuminator

Underexposure

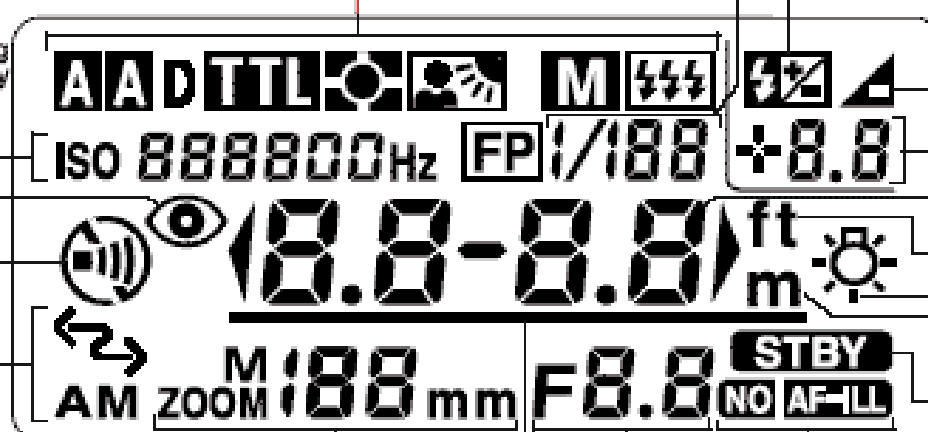
Flash output level
compensation value
/Underexposure value

Flash shooting
distance range
ft (feet)

LCD panel illuminator

m (meters)

Standby function



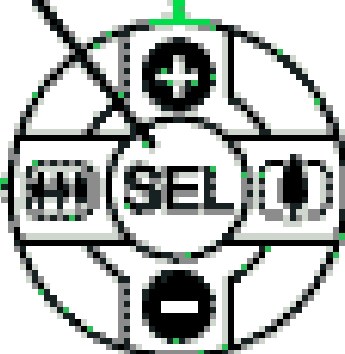
D-TTL auto flash ^{*3}						Manual mode			Group
3D Multi-Sensor Balanced Fill-Flash for Digital SLRs	Multi-Sensor Balanced Fill-Flash for Digital SLRs	Center-Weighted Fill-Flash for Digital SLRs	Standard TTL flash for Digital SLRs			Manual Flash	Repeating Flash	FP High-Speed Flash sync	
–	–	–	–	○	–	○	○	○ ^{*6}	I
–	–	–	–	○	–	○	○	–	II
–	–	–	–	○	–	○	○	–	III
–	–	–	–	○	–	○	○	–	IV
–	–	–	–	○	–	○	○	–	V
–	–	–	–	○	–	○	○ ^{*5}	–	VI
–	–	–	–	○	–	○	○	–	VII
○	○	○	○	○ ^{*4}	○	○	○	○	Digital SLRs

2sec



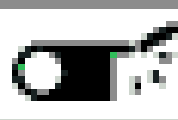
NOAF-LL

STBY



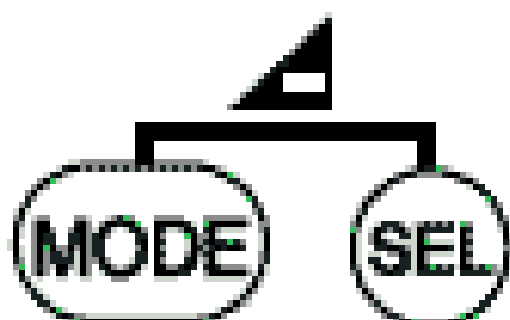
ON/OFF

AUTO
40sec
80sec
160sec
300sec
ON



M ZOOM

m/ft

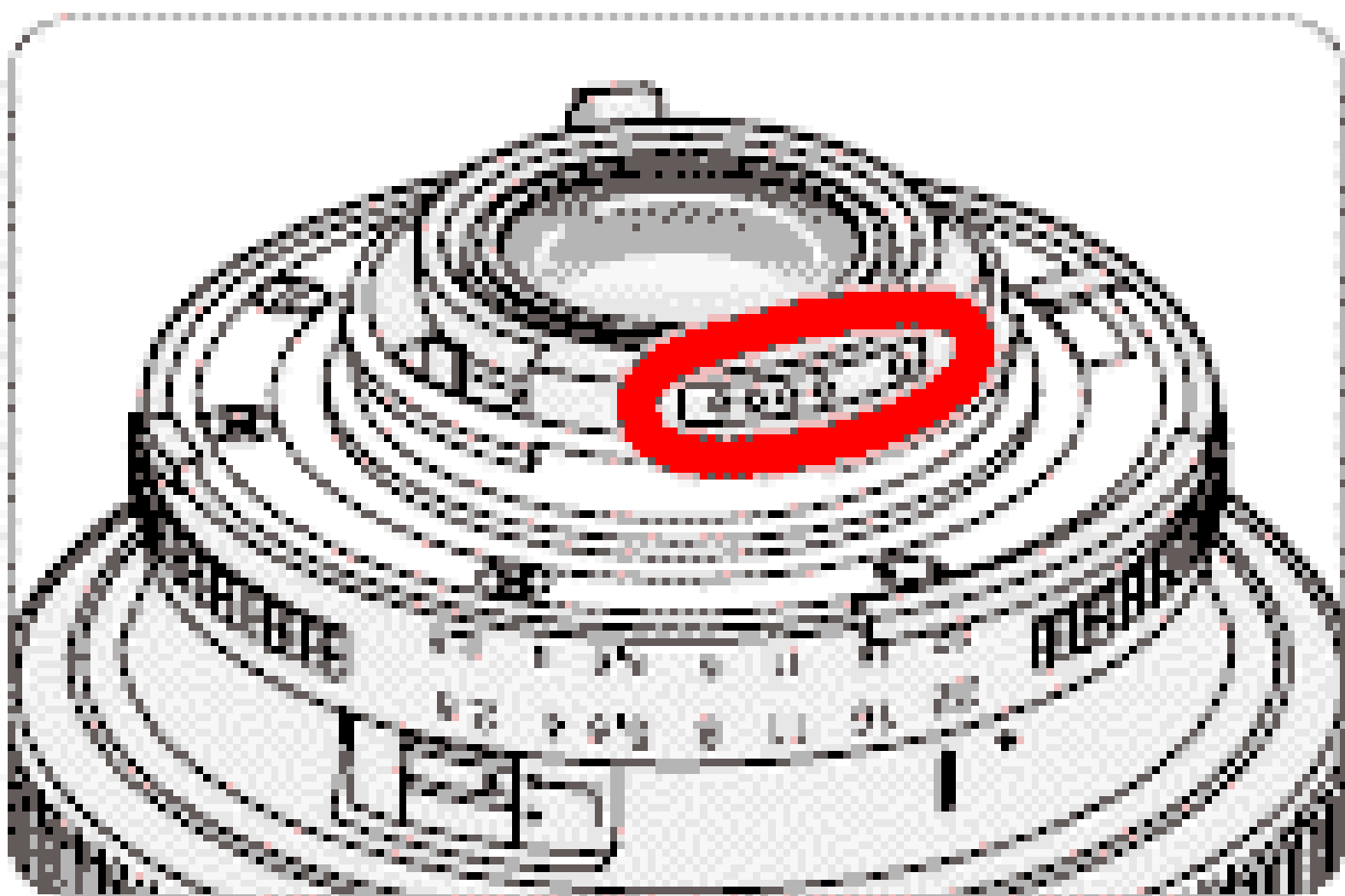


RESET

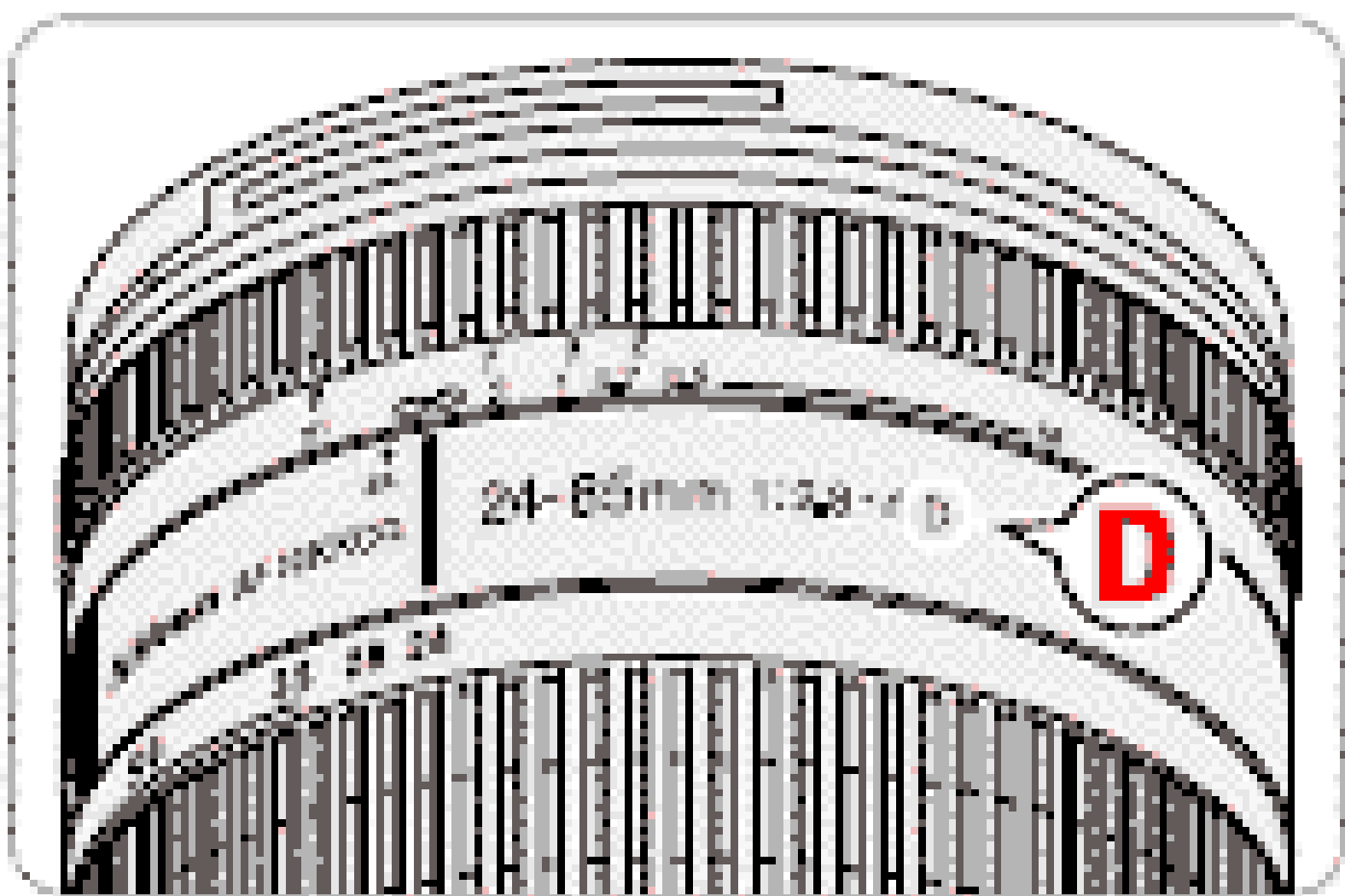
2sec

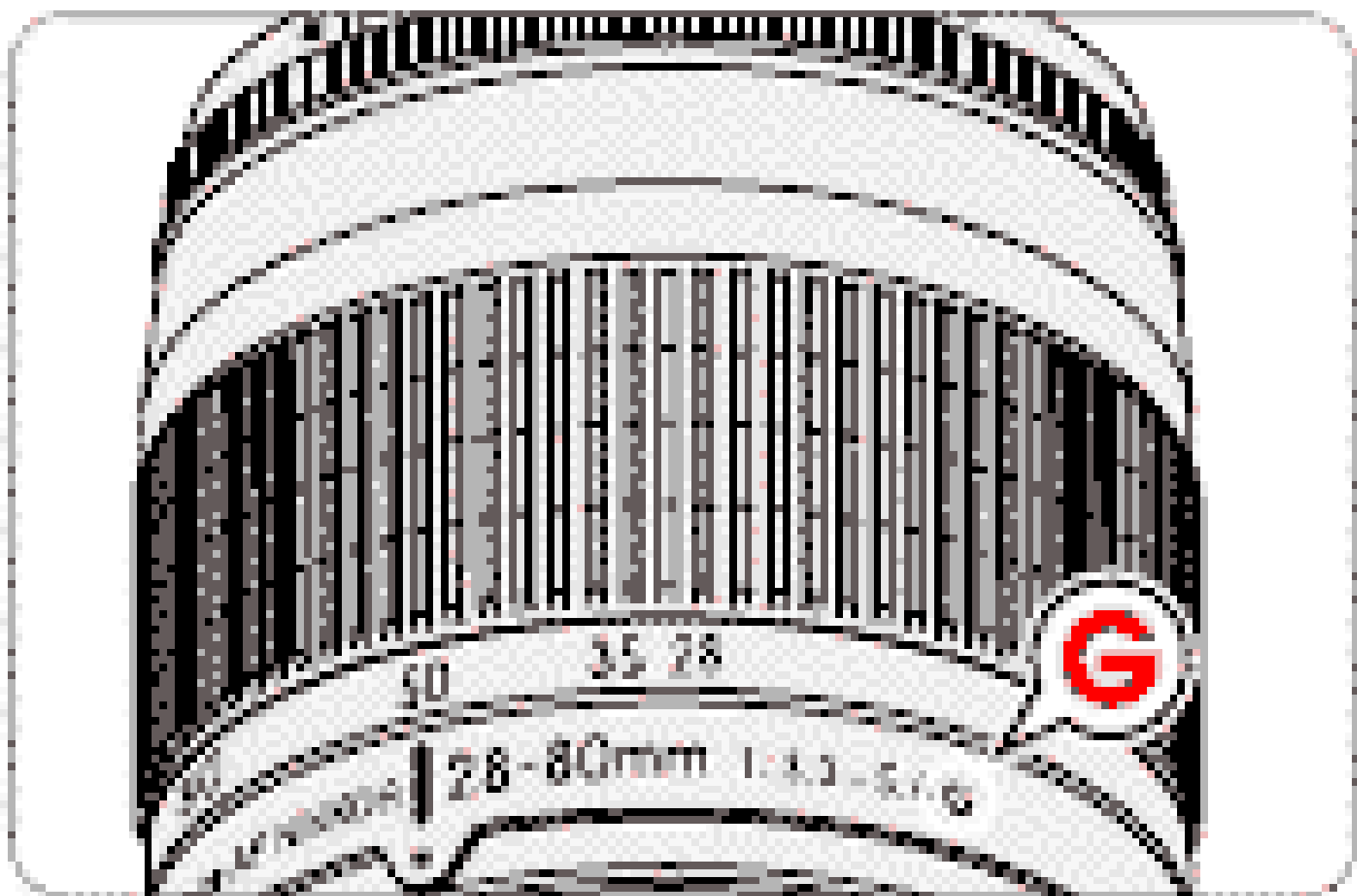


Item		Setting (Bold: default)	
	Wireless flash mode* ¹	OFF (canceled)	ON (activated)
	Sound monitor* ² in the wireless flash mode	• (sound on)	 (sound off)
	AF-assist illuminator	AF ILL (activated)	NO AF ILL (canceled)
	Standby function	40 (sec.) → 80 (sec.) → 160 (sec.) → 300 (sec.) 	
	Selecting the distance unit (m, ft)	m (meters)	ft (feet)
	Canceling the power zoom function	OFF (activated)	ON (canceled)
	Emergency mode* ³	OFF (not possible)	ON (possible)
	LCD panel illuminator	ON (turn on)	OFF (turn off)



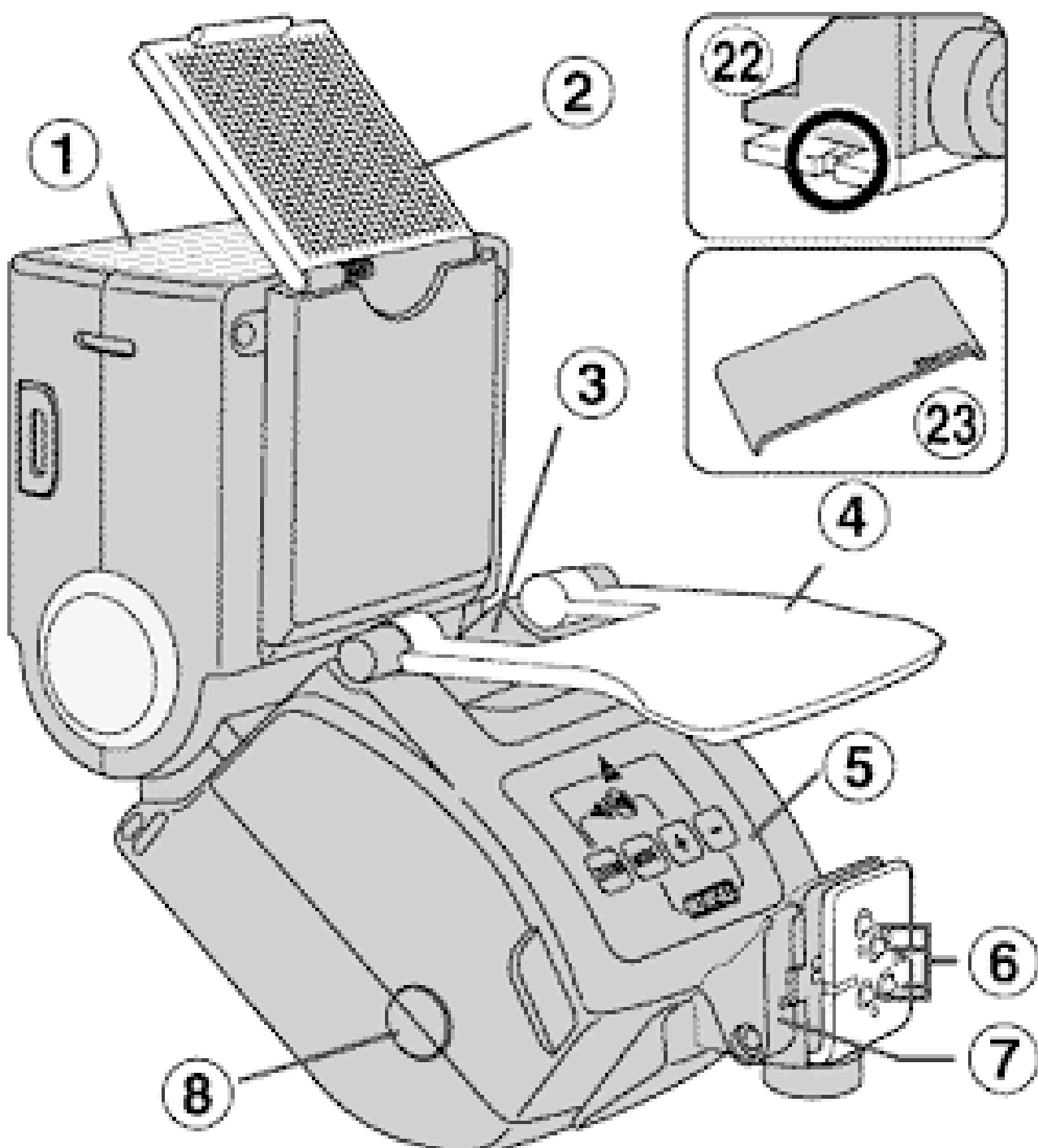






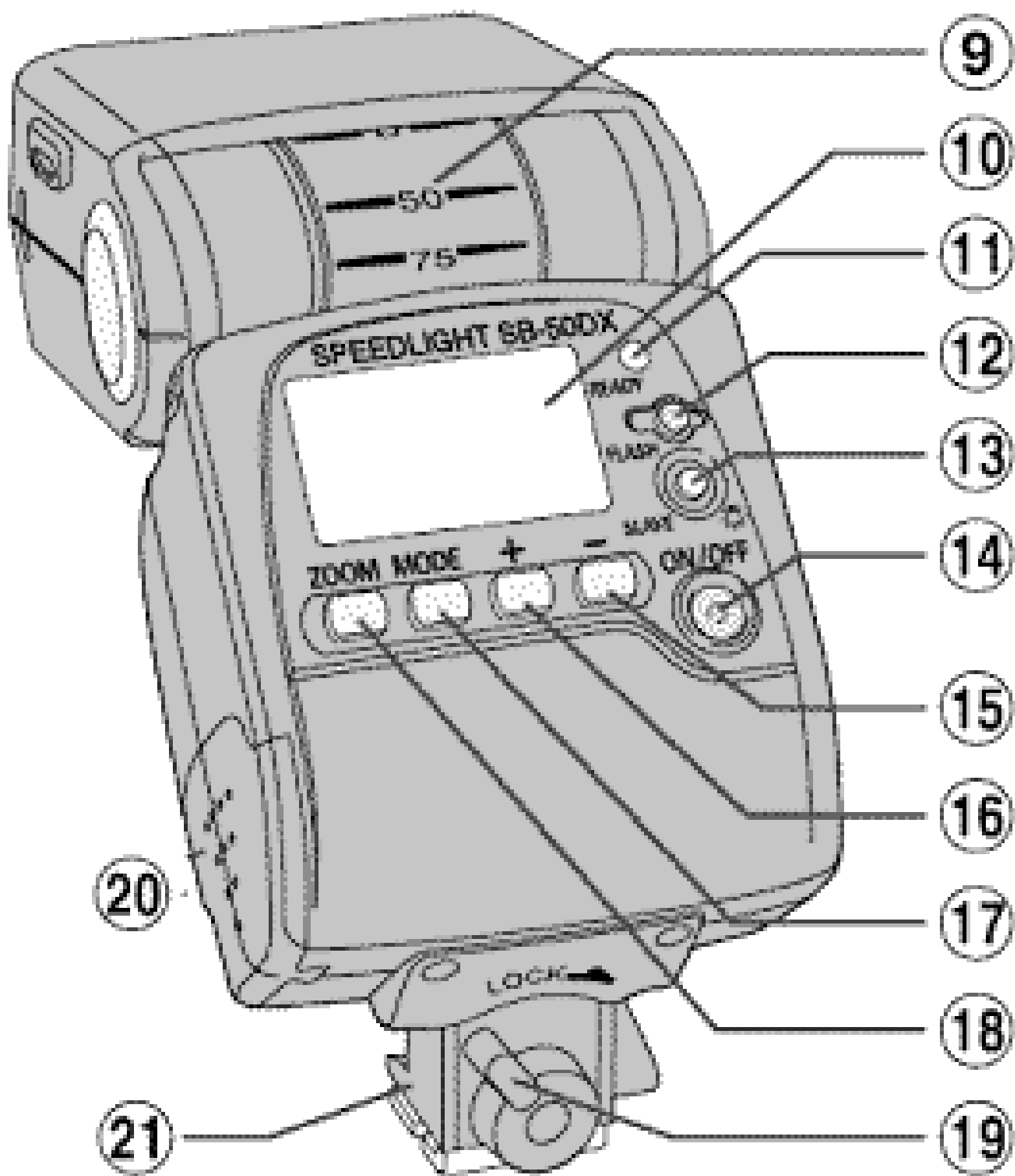


**Nikon SB-50DX
AF-TTL Speedlight**



SB800X

	TTL 3D Multi- Sensor balanced fill-flash	TTL Multi- sensor balanced fill-flash	TTL Matrix balanced fill-flash	TTL	Auto Aperture	Non TTL Auto	Manual	FP high speed flash sync	Repeating flash	Rear Curtain Sync	Slow sync	Red eye reduction	AF-assist illuminator	Automatic power Zoom
F6	OK	OK		OK	AA	OK	OK	FP	SR	SR ₂	SLOW	⊗	OK	OK
F5	OK	OK		OK		OK	OK	FP	SR	SR ₂	SLOW		OK	OK
F4			OK	OK		OK	OK		SR				OK	OK
F100/F90x	OK	OK		OK		OK	OK	FP	SR	SR ₂	SLOW	⊗	OK	OK
F80/F75/ F70	OK	OK		OK		OK	OK		SR	SR ₂	SLOW	⊗	OK	OK
F65			OK	OK		OK	OK		SR	SR ₂	SLOW	⊗	OK	OK
F60/F50			OK			OK	OK		SR				OK	
F55						OK	OK		SR		SLOW			
F3 series 4				OK		OK	OK		SR					
FM2/FM2n						OK	OK		SR					
FM3a				OK		OK	OK		SR					
D1 series	OK	OK		OK	AA	OK	OK	FP	SR	SR ₂	SLOW	⊗	OK	OK
D100	OK	OK		OK	AA	OK	OK		SR	SR ₂	SLOW	⊗	OK	OK
D2H/ D2X	OK	OK		OK	AA	OK	OK	FP	SR	SR ₂	SLOW	⊗	OK	OK
D70						OK	OK			SR ₂	SLOW			
COOLPIX 8800, 8400						OK	OK		SR	SR ₂	SLOW			
COOLPIX 5000, 5400, 5700, 8700				OK		OK	OK		SR	SR ₂	SLOW			
COOLPIX 4500/995/ 990/ 950 3				OK		OK	OK		SR		SLOW			
COOLPIX 2000 7				OK			OK				SLOW			

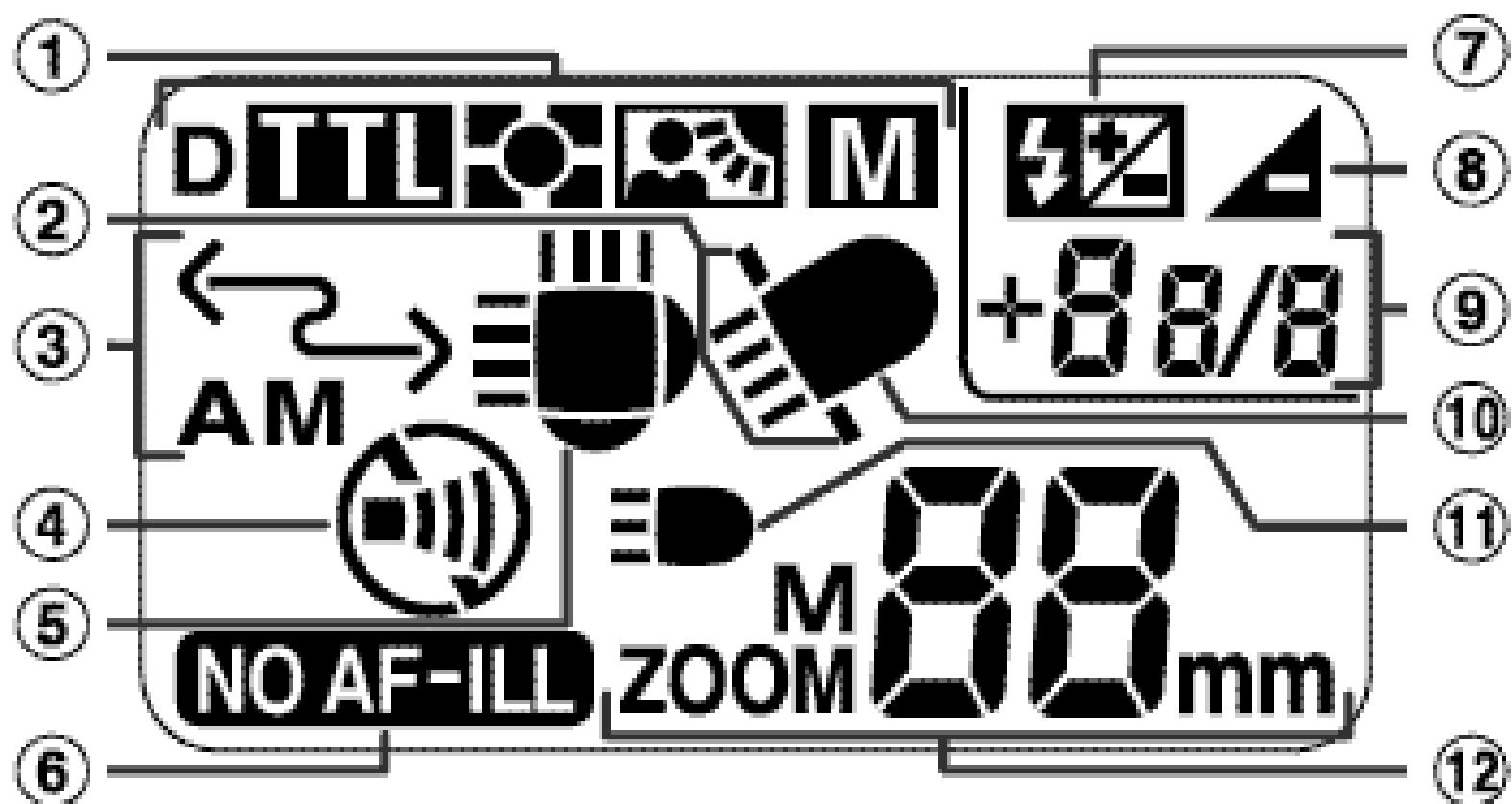




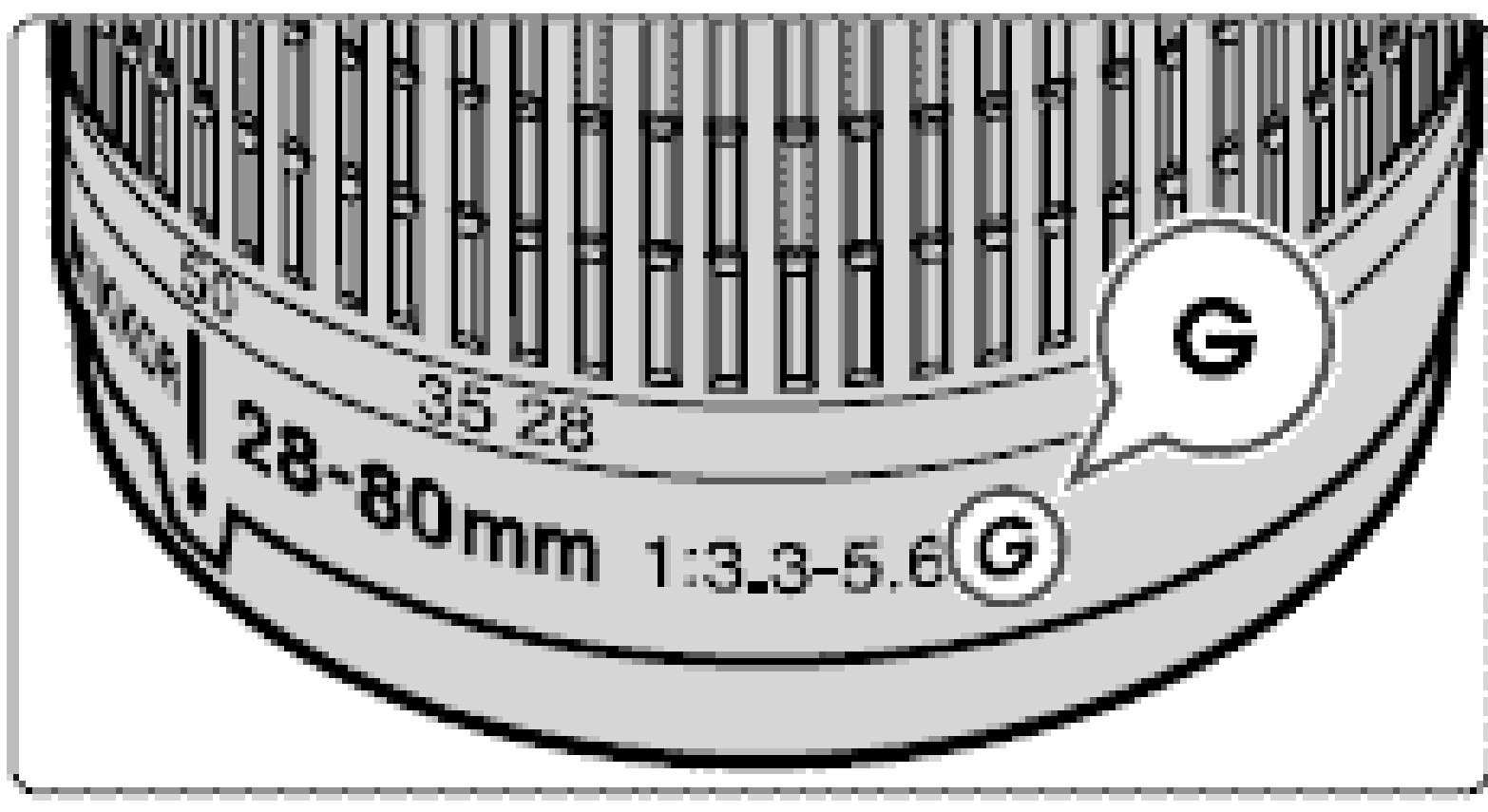
SB50DX									
	TTL 3D Multi-Sensor balanced fill- flash	TTL Multi-sensor balanced fill- flash	TTL Matrix balanced fill- flash	TTL	Manual	Rear Curtain Sync	Slow sync	AF-assist illuminator	Automatic power Zoom
F6	800	30		1000	1/3	2000	SLOW	0.2	1000
F5	800	30		1000	1/3	2000	SLOW	0.2	1000
F4			2.5	1000	1/3			0.2	1000
F100/F90x	800	30		1000	1/3	2000		0.2	1000
F80/F75/F70	800	30		1000	1/3	2000	SLOW	0.2	1000
F65			2.5	1000	1/3	2000	SLOW	0.2	1000
F60/F50			2.5		1/3			0.2	
F55									
F3 series 4				1000	1/3				
FM2/FM2n					1/3				
FM3a				1000	1/3				
D1 series	800	30		1000	1/3	2000	SLOW	0.2	1000
D100	800	30		1000	1/3	2000	SLOW	0.2	1000
D2H / D2X	800	30		1000	1/3	2000	SLOW	0.2	1000
D70					1/3	2000	SLOW		
COOLPIX 8800, 8400					1/3	2000	SLOW		
COOLPIX 5000, 5400, 5700, 8700				1000	1/3	2000 ₁	SLOW		
COOLPIX 4500/995/990/ 950 3				1000	1/3		SLOW		
COOLPIX 2000 2				1000	1/3		SLOW		

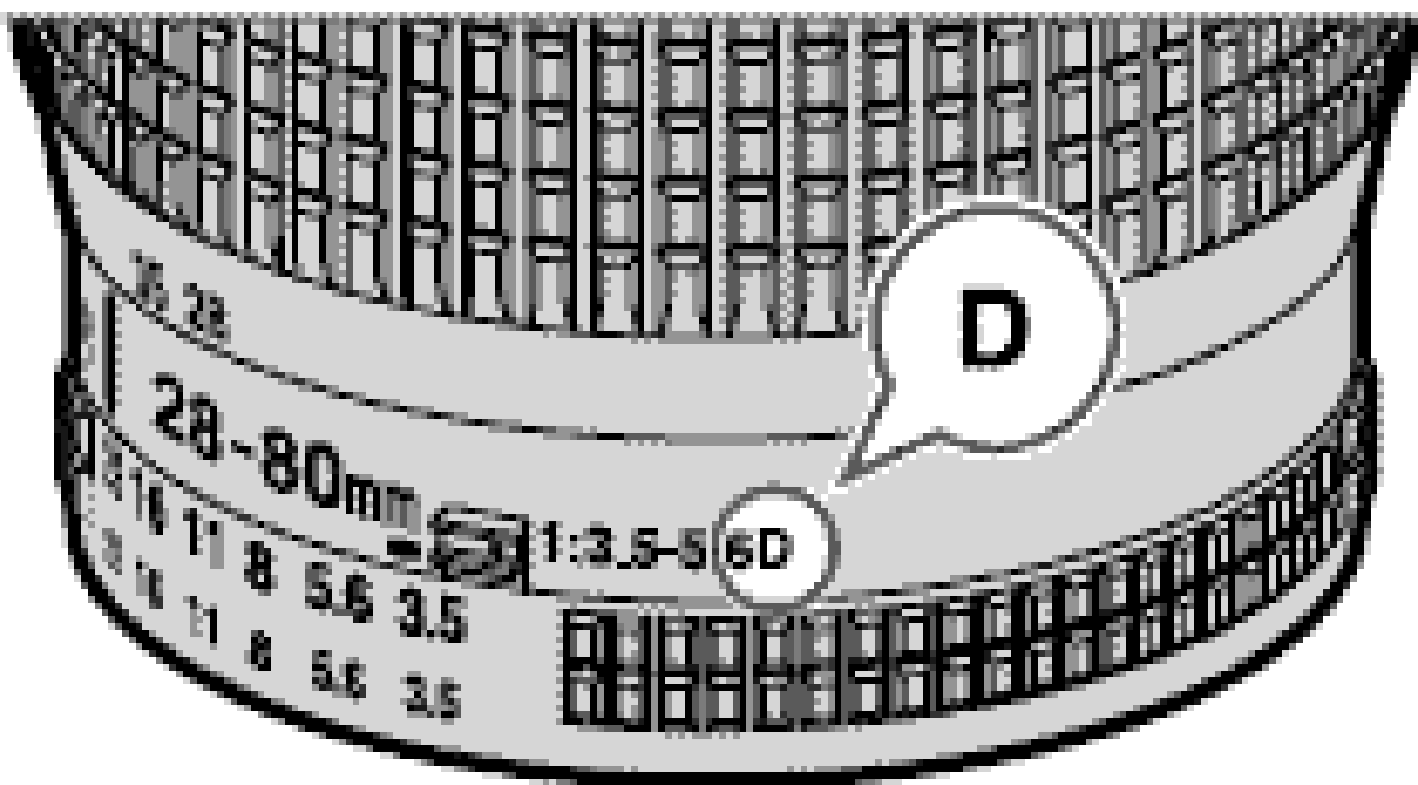


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Group	Camera	TTL/D-TTL auto flash mode	Lens		Exposure mode				Metering system		
			CPU	Non-CPU							
I	F5 F100	 	☐		P	S	A	M			
		 		☐			A	M			
			☐		P	S	A	M			
				☐			A	M			
	F90X/N90s F90-series/N90 F70-series/N70	 	☐		P	S	A	M			
		 		☐			A	M			
			☐		P	S	A	M			
				☐			A	M			
	F80-series/ N80-series	 	☐		P	S	A	M			
			☐		P	S	A	M			
			☐	☐				M			
II	F4-series	 	☐		P	S	A	M			
		 		☐			A	M			
		 	☐		P	S	A	M			
		 		☐			A	M			
			☐		P	S	A	M			
				☐			A	M			
	F65-series/ N65-series	 	☐		P	S	A				
			☐		P	S	A	M			
	F-801s/N8008s F-801/N8008	 	☐		P	S	A	M			
		 	☐		P	S	A	M			
		 		☐			A	M			
			☐		P	S	A	M			
	PRONEA 600i/ PRONEA 6i	 	☐		P	S	A				
			☐		P	S	A	M			
				☐				M			
III	F-601/N6006 F-601M/N6000	 	☐		P	S	A	M			
		 	☐		P	S	A	M			
		 		☐			A	M			
			☐		P	S	A	M			
				☐			A	M			
IV	F60-series/N60 F50-series/N50 F-401x/N5005	 	☐		P	S	A				
		 	☐	☐				M			

Group	Camera	TTL/D-TTL auto flash mode	Lens		Exposure mode				Metering system		
			CPU	Non-CPU							
V	F-501/N2020 F-301/N2000		○	○	P		A	M			
	F-401s/N4004s		○		P	S	A				
	F-401/N4004		○	○				M			
VI	FA		○	○	P		A	M			
	FG		○	○	P		A	M			
	F3-series (with AS-17) FM3A FE2		○	○			A	M			
	Nikonos V			○			A	M			
Digital SLR	D1X		○		P	S	A	M			
	D1H			○			A	M			
	D1		○		P	S	A	M			
	D100			○			A	M			

• TTL/D-TTL auto flash mode

: Automatic Balanced Fill-Flash with TTL Multi Sensor

: Matrix Balanced Fill-Flash/Center-Weighted Fill-Flash/Spot Fill-Flash

: Standard TTL Flash

: Automatic Balanced Fill-Flash with TTL Multi Sensor for Digital SLR

: Center-Weighted Fill-Flash for Digital SLR

: Standard TTL Flash for Digital SLR

• Exposure mode

P: Programmed Auto/Auto-Multi Program

S: Shutter-Priority Auto

A: Aperture-Priority Auto

M: Manual

• Metering system

: Matrix

: Center-Weighted

: Spot

Digital Data Communication

With groups I, II and Digital SLR cameras (in shaded area), the SB-50DX performs Digital Data Communication

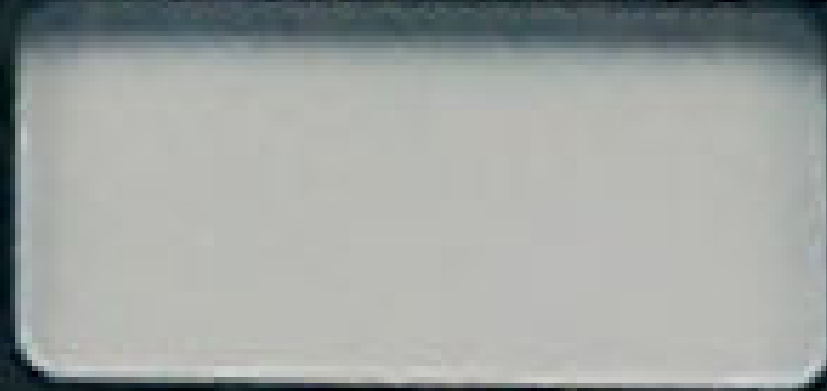


**Nikon
SB-600
AF-TTL
Speedlight**

50

75

SPEEDLIGHT SB-600X



READY

FLASH



ZOOM MODE

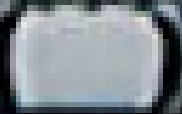
+

-

SLAVE



ON/OFF

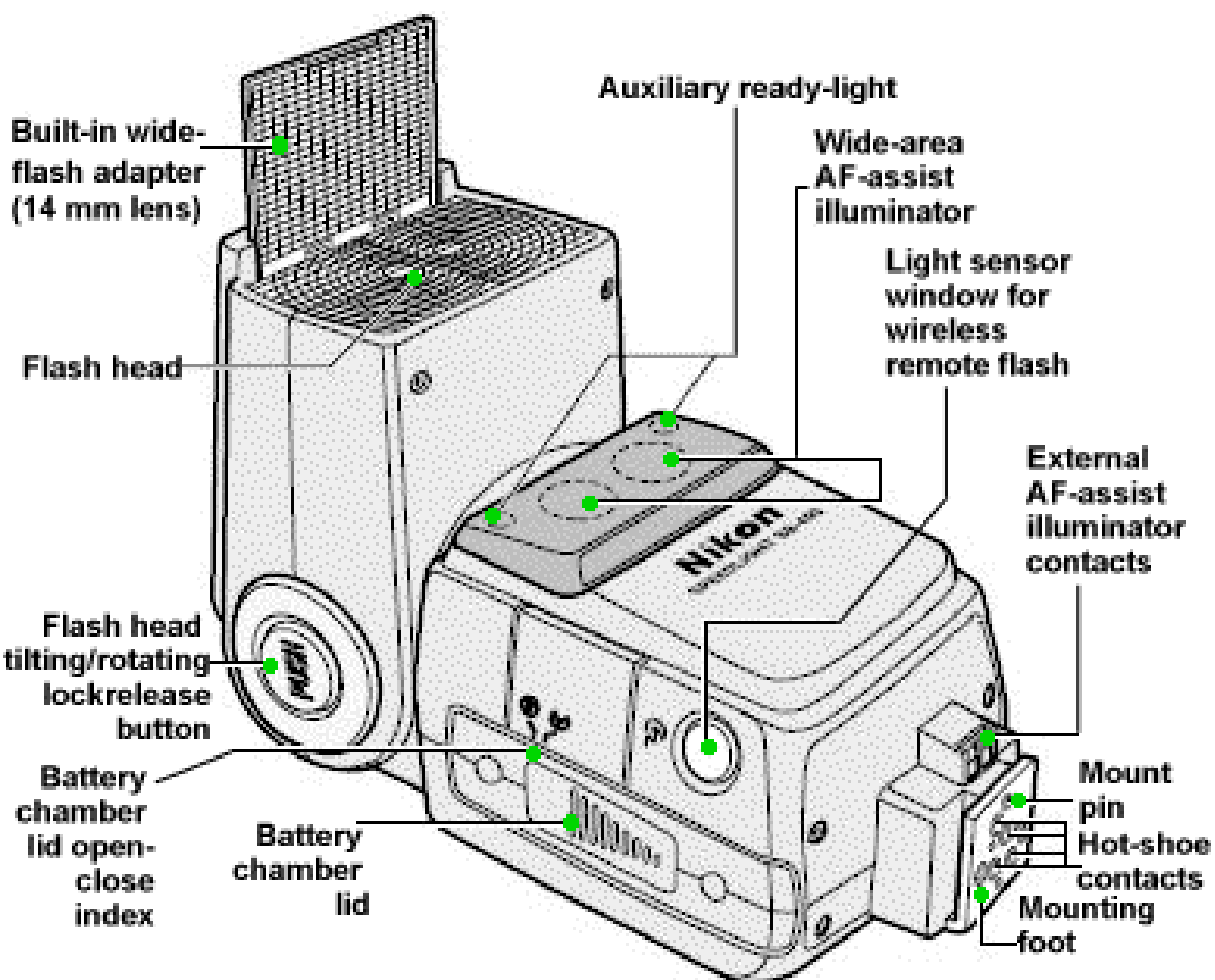


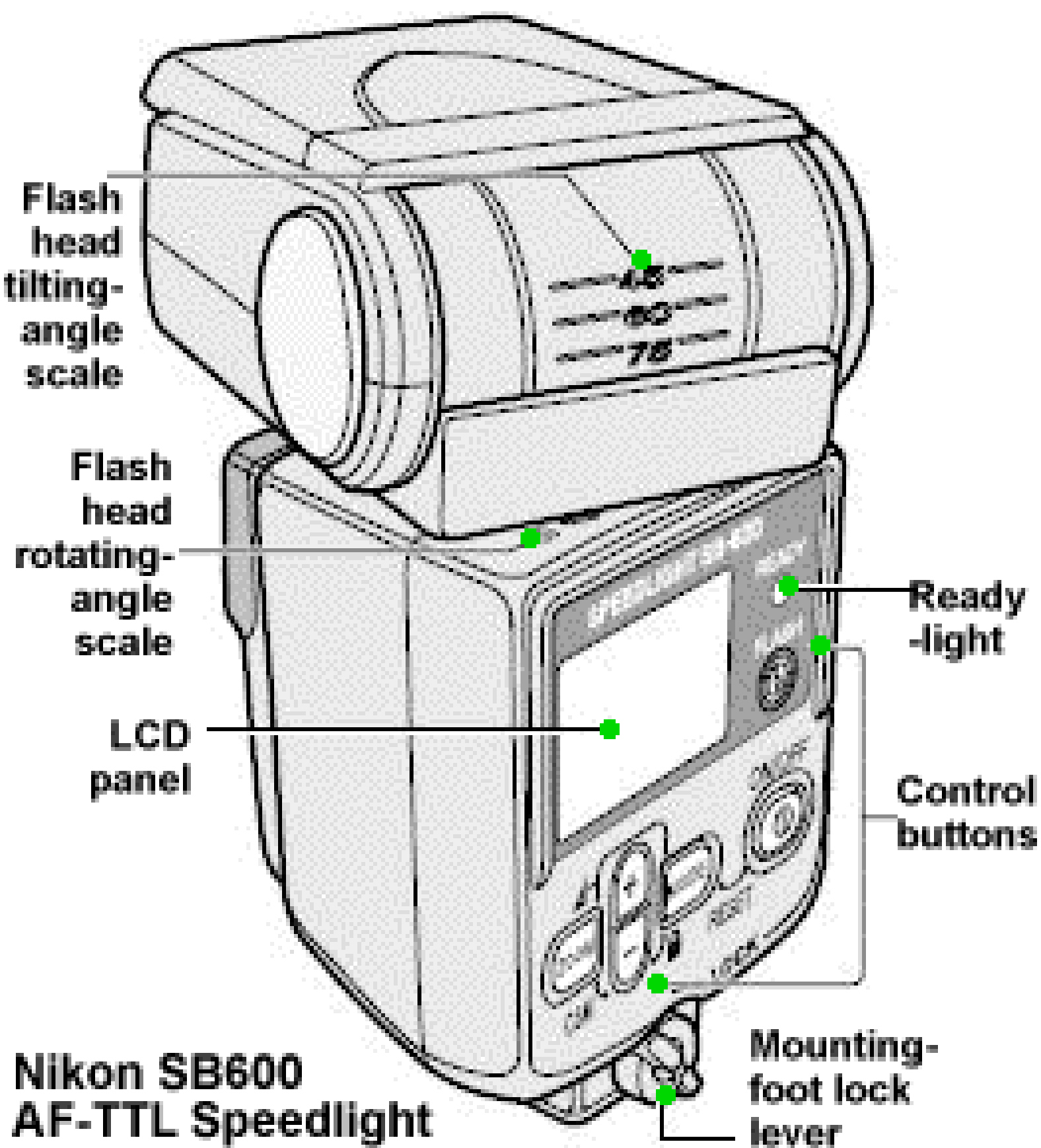
SB-600											
	i-TTL	D-TTL	TTL	Balanced Fill Flash	Manual	FP high speed flash sync	Rear Curtain Sync	Slow sync	Red eye reduction	AF-assist illuminator	Automatic power Zoom
F6								SLOW			
F5								SLOW			
F4											
F100/F90x								SLOW			
F80/F75/F70								SLOW			
F65								SLOW			
F60/F50											
F55								SLOW			
F3 series *											
FM2/FM2n											
FM3a											
D1 series								SLOW			
D100								SLOW			
D2H /D2X								SLOW			
D70								SLOW			
COOLPIX 8800,8400								SLOW			
COOLPIX 5000,5400,5700,8700								SLOW			
COOLPIX 4500/995/990/950 s								SLOW	* No icon displayed on SB-600 LCD		

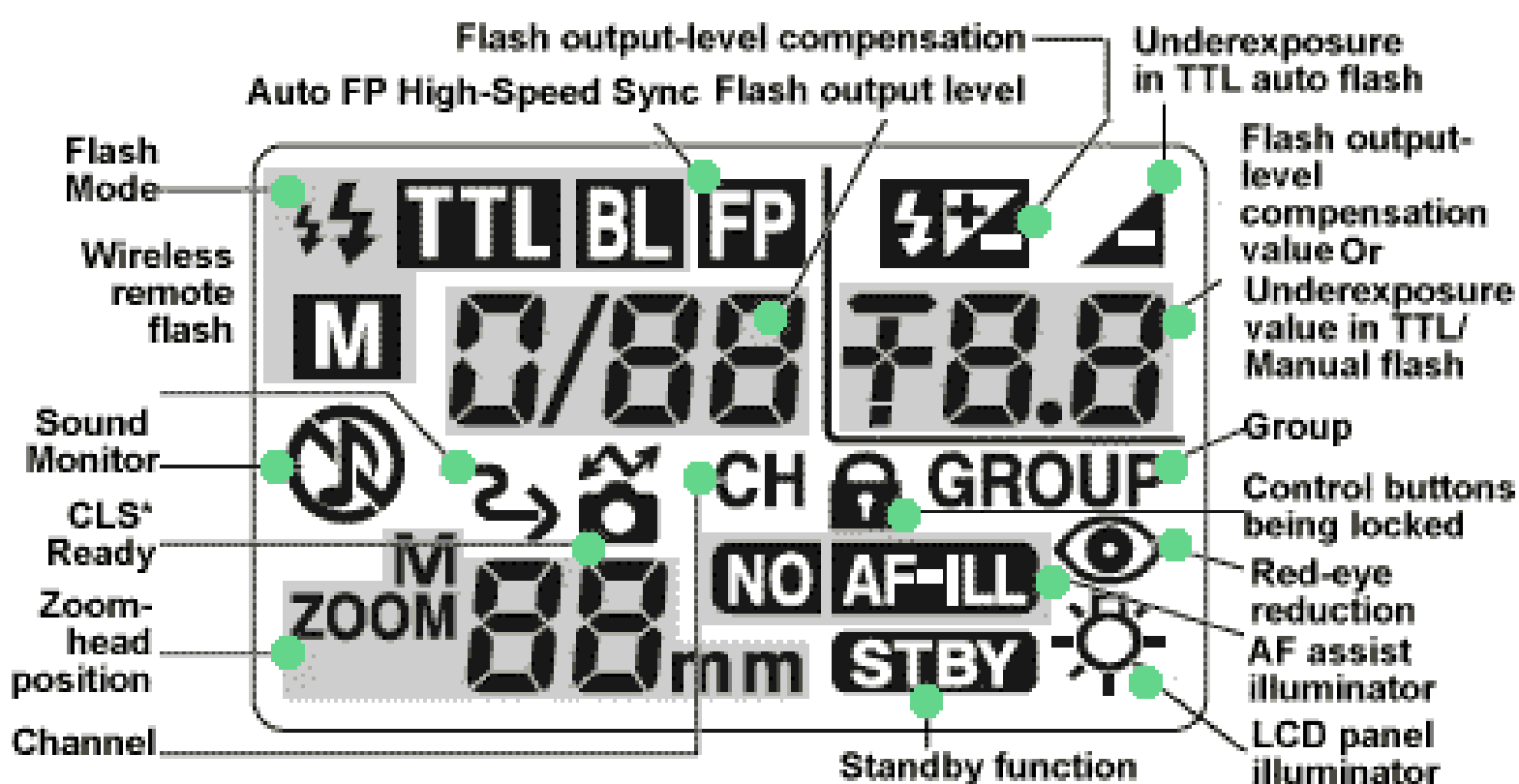




Purpose	Gel filter	Adjust the camera's white balance to:
Balances the color of light from the flash to match that of fluorescent light	FL-G1, FL-G2	Fluorescent
Balances the color of light from the flash to match that of incandescent or tungsten light	TN-A1, TN-A2	Incandescent
Creates interesting effects by changing the light from the flash to a different color	Blue, Yellow, Red, Amber	Flash











SPEEDLIGHT SB-600

INTL

24mm

READY

FLASH



ZOOM

+

MODE

ON/OFF



CSM

-



RESET

SPEEDLIGHT SB-600

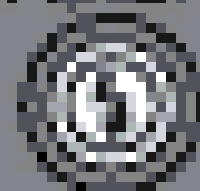
TTL BL FP

zoom 24mm

READY



FLASH



zoom

+

-

MODE

ON/OFF

1

CSM

RESET

LOCK

pressed for 2 sec.

TTL AUTO Flash Mode				M Manual mode	Wireless multiple flash
TTL i-TTL	TTL D-TTL	TTL TTL	BL ★ ¹		Advanced Wireless Lighting (works as a remote flash unit only)
○	—	—	○	○	○ ^{★2}
—	○	—	○	○	—
—	—	○	○	○	—
—	—	○	○	○	—
—	—	○	○ ^{★3}	○	—
—	—	○	○ ^{★3}	○	—
—	—	○	—	○	—
—	—	○	—	○	—
—	—	—	—	○	—

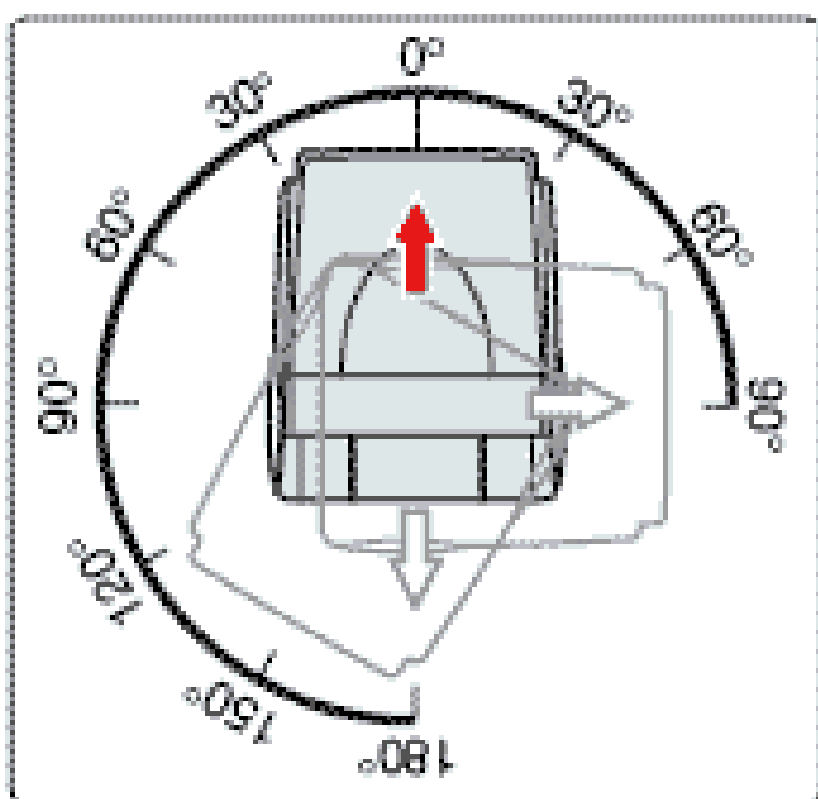
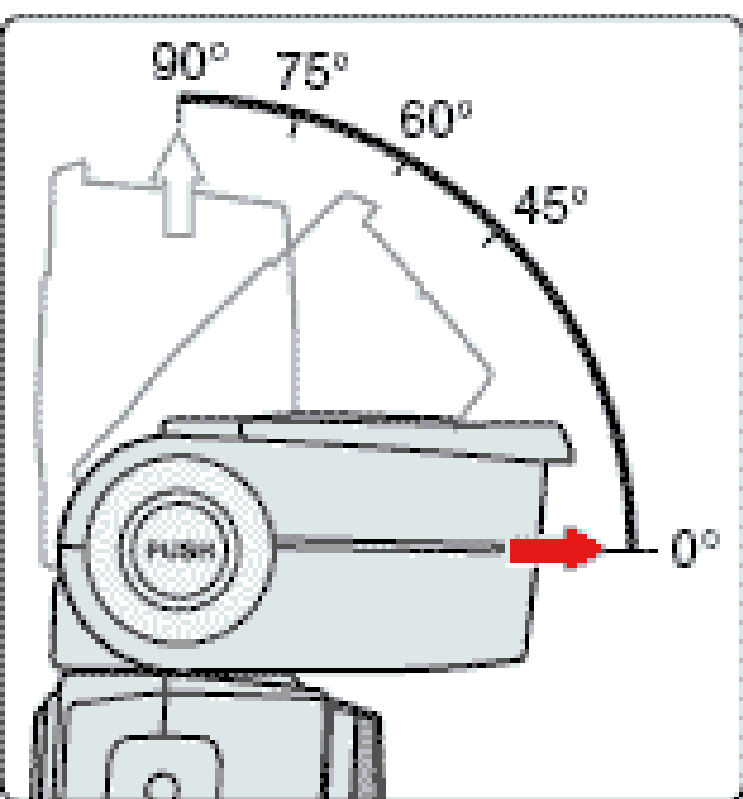
○ possible

ISO sensitivity	Zoom-head position (mm)						
	14*	24	28	35	50	70	85
25	2.9/9.5	4.7/15	5.1/17	5.6/18	6.6/22	7.3/24	8/26
50	4.0/13	6.7/22	7.2/24	8/26	9.3/31	10.3/34	11.4/37
100	5.7/19	9.4/31	10.1/33	11.3/37	13.1/43	14.5/48	16/52
200	8/26	13.2/43	14.1/46	15.8/52	18.3/60	20/66	22.4/73
400	11.4/37	18.8/62	20.2/66	22.6/74	26.2/86	29/95	32/105
800	16/52	26.3/86	28.3/93	31.6/104	36.7/120	40.6/133	44.8/147



Group	Camera Model
Cameras compatible with CLS*	D2X , D2H, D70
Digital SLRs not compatible with CLS*	D1-Series, D100
I	F6, F5, F100, F/N90(x,s) Series, F/N80 Series, F/N75 Series, F/N70 Series
II	F4, F/N65 Series, F801(s)/N8008(s) Series, Pronea 600/6i
III	F601/N6006, F601m/N6000
IV	F/N60 Series, F/N50 Series, F401x/N5005
V	F501/N2020, F401s/N4004s, F401/N4004, F301/N2000
VI	FM3A, FA, FE2, Nikonos V, F3 Series (via AS-17)
VII	FM2n Series, FM10, FE10, F3-Series, F/N55 Series

Indicator	Available flash mode	Usable camera
TTL	i-TTL mode	Cameras compatible with CLS
TTL	D-TTL mode	Digital SLRs not compatible with CLS
TTL	TTL (film based) mode	Cameras in Groups I to VI (film based cameras)
BL (appears with TTL)	Balanced Fill-Flash	Cameras compatible with CLS, digital SLRs not compatible with CLS, cameras in Groups I to IV (No BL appears with cameras in Groups III to IV)
M	Manual flash	No limitation





Exposure mode

- P** : Programmed Auto
- S** : Shutter-Priority Auto
- A** : Aperture-Priority Auto
- M** : Manual

TTL/D-TTL auto flash mode

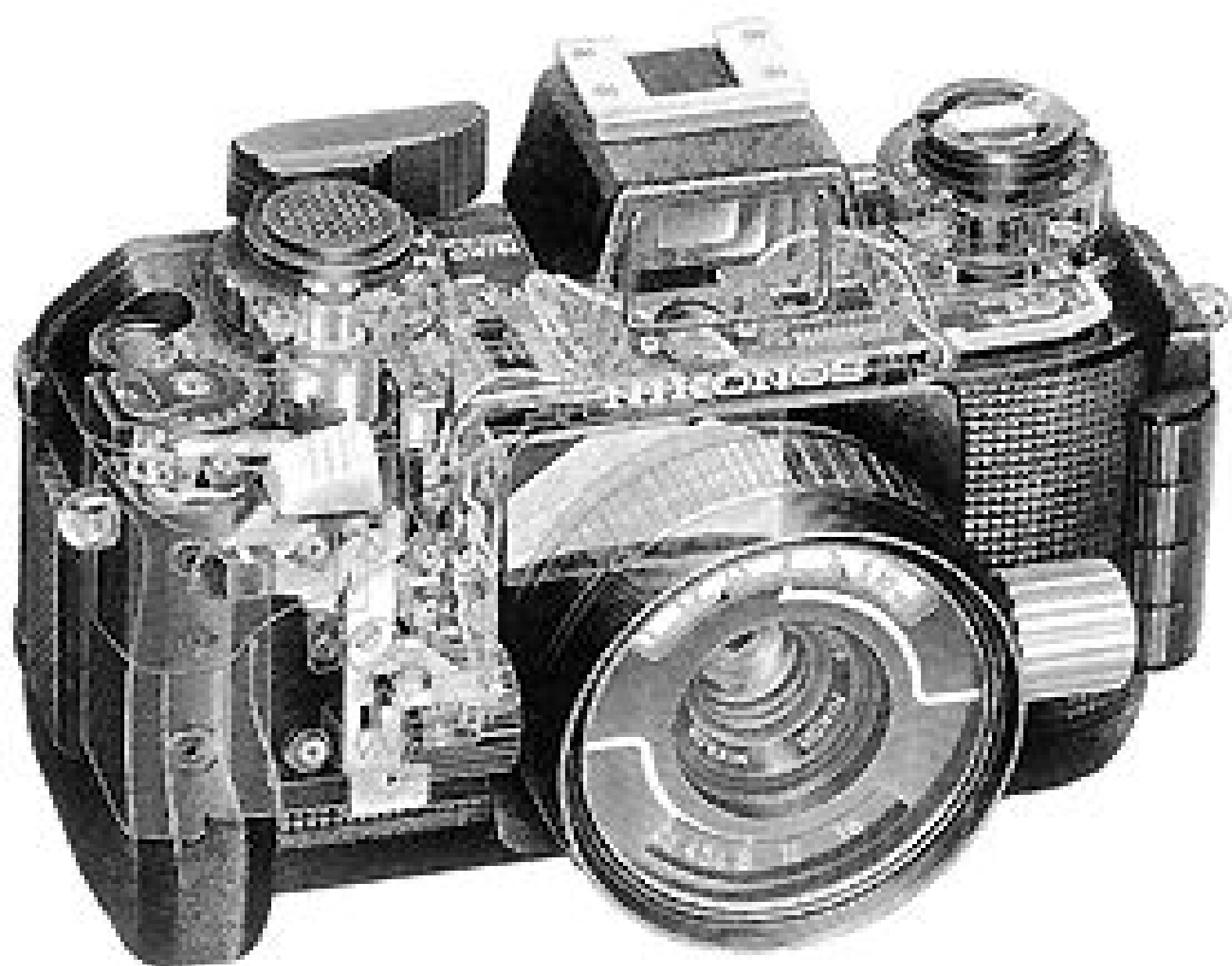
- TTL**  : Automatic Balanced Fill-Flash with TTL Multi Sensor
- TTL**  : Matrix Balanced Fill-Flash, Center-Weighted Fill-Flash/Spot Fill-Flash
- TTL** : Standard TTL Flash

Metering system

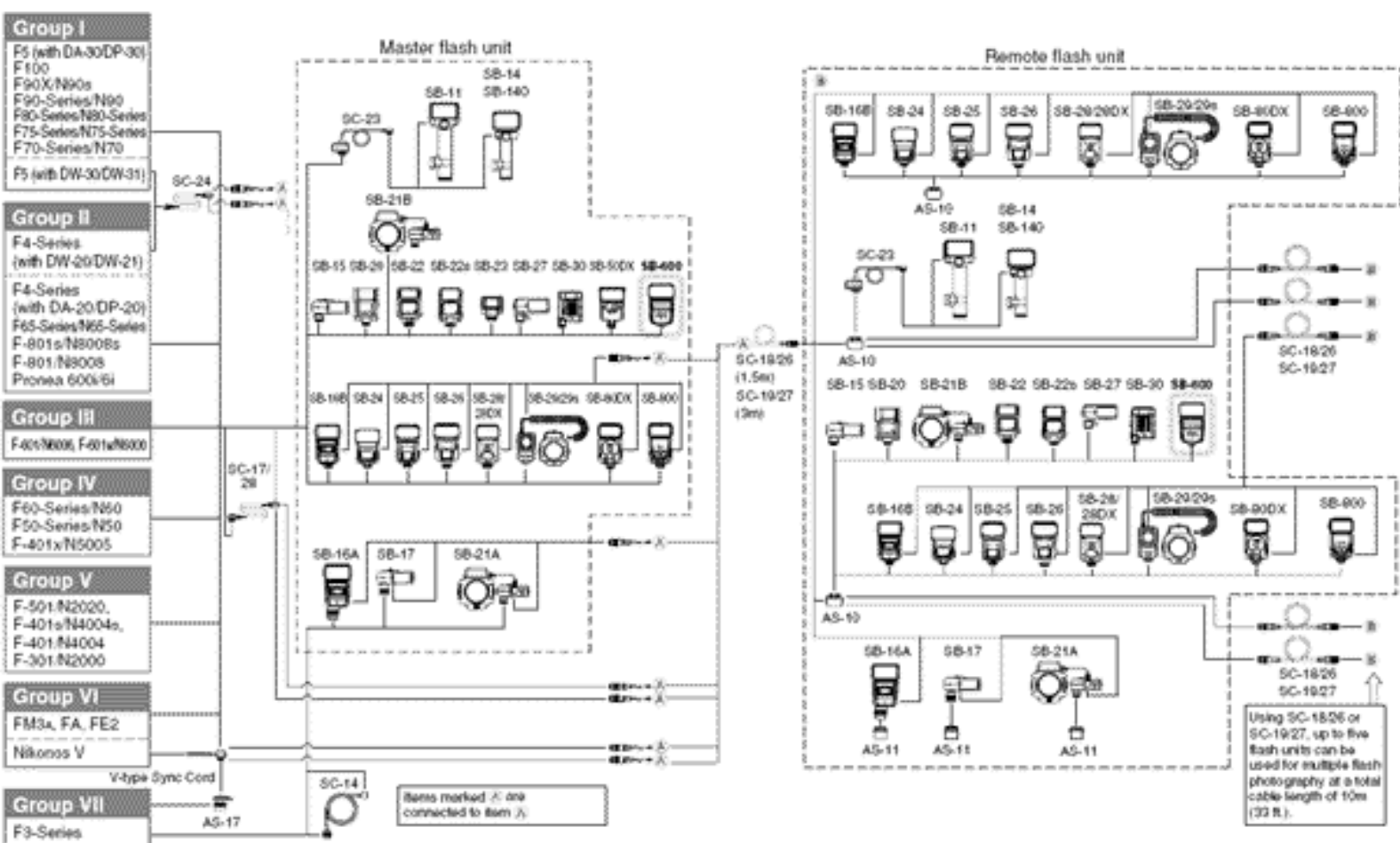
-  : Matrix
-  : Center-Weighted
-  : Spot

- D TTL**  : Automatic Balanced Fill-Flash with TTL Multi Sensor for Digital SLRs
- D TTL**  : Center-Weighted Fill-Flash for Digital SLRs
- D TTL** : Standard TTL Flash for Digital SLRs

Camera group	Camera	TTL mode	Current TTL mode display	Exposure mode	Metering system	Lens
Digital SLRs not compatible with CLS	D1-Series		 *1	P/S/A/M	 	CPU lens (D/G-type)
			 *2	P/S/A/M	 	CPU lens (except for D/G-type)
			 	A/M		Non-CPU lens
				P/S/A/M	  	CPU lens
				A/M	 	Non-CPU lens
	D100		 *1	P/S/A/M	 	CPU lens (D/G-type)
			 *2	P/S/A/M	 	CPU lens (except for D/G-type)
				P/S/A/M	  	CPU lens
				M	 	Non-CPU lens
	*1: 3D Multi-Sensor Balanced Fill-Flash for Digital SLRs is set.					
	*2: Multi-Sensor Balanced Fill-Flash for Digital SLRs is set.					
I	F5 F100		 *2	P/S/A/M	 	CPU lens (D/G-type)
			 *3	P/S/A/M	 	CPU lens (except for D/G-type)
			 	A/M		Non-CPU lens
				P/S/A/M	  	CPU lens
				A/M	 	Non-CPU lens
	F90X/N90s F90-Series/ N90 F70-Series/ N70		 *2	P/S/A/M	  	CPU lens (D/G-type)*1
			 *3	P/S/A/M	  	CPU lens (except for D/G-type)
			 	A/M	 	Non-CPU lens
				P/S/A/M	  	CPU lens*1
				A/M	 	Non-CPU lens
	*1: The A and M exposure modes cannot be used with a G-type lens.					
	*2: 3D Multi-Sensor Balanced Fill-Flash is set. *3: Multi-Sensor Balanced Fill-Flash is set.					



Camera group	Camera	FW, mode	Current FW, mode (default)	Supported FWs	Playback resolution	Notes
	E-Series Network	2000	2000	2.0, 4.0, 8.0	1080	CPU core, support for 4-ppp
		2000	2000	2.0, 4.0, 8.0	1080 2:1	CPU core, support for 4-ppp
		2000	2000	4.0	1080 2:1	Hybrid CPU, 4-core
		2000	2000	2.0, 4.0, 8.0	1080 2:1 1:1	CPU core, support for 4-ppp
		2000	2000	4.0	1080 2:1	Hybrid CPU, 4-core
III		*1: Only 2000 appears on the 5.0-inch LCD panel. Matrix Standard FW-Flash or Camera-Designed FW-Flash/Type FW-Flash is selected when 2000 appears on the camera's LCD panel. *2: Camera-Designed Upgrading is automatically set when the upgrade mode is set to 0.				
		2000	2000	2.0	1080	CPU, 4-core
		2000	2000	2.0	1080	CPU, 4-core
		2000	2000	4.0	1080	Hybrid CPU, 4-core
		2000	2000	2.0	1080 2:1	CPU, 4-core
		2000	2000	4.0	1080	Hybrid CPU, 4-core
		*1: Only 2000 appears on the 5.0-inch LCD panel. Matrix Standard FW-Flash or Camera-Designed FW-Flash/Type FW-Flash is selected when 2000 appears on the camera's LCD panel. *2: Camera-Designed Upgrading is automatically set when the upgrade mode is set to 0.				
		2000	2000	2.0	1080	CPU, 4-core
		2000	2000	2.0	1080	CPU, 4-core
		2000	2000	4.0	1080	Hybrid CPU, 4-core
		2000	2000	2.0	1080 2:1	CPU, 4-core
		2000	2000	4.0	1080	Hybrid CPU, 4-core
IV	Hi-Resolution	2000	2000	2.0	1080	CPU, 4-core
	Hi-Resolution	2000	2000	4.0	1080	CPU, 4-core, CPU, 4-core
	Auto-Adjust	2000	2000	2.0	1080	CPU, 4-core, CPU, 4-core
	Auto-Adjust	2000	2000	4.0	1080	CPU, 4-core, CPU, 4-core
	Auto-Adjust	2000	2000	2.0	1080	CPU, 4-core, CPU, 4-core
V		*1: Matrix Standard FW-Flash is set. *2: Camera-Designed FW-Flash/Type FW-Flash is set. *3: Programmed FW, Auto-Flash is set. *4: Camera-Flash is turned on/off. *5: Matrix Standard FW-Flash is set. *6: 4.0, 8.0. *7: Series II format only applies.				
		2000	2000	2.0	1080	CPU, 4-core
		2000	2000	4.0	1080 2:1	CPU, 4-core
		2000	2000	4.0	1080	Hybrid CPU, 4-core
		2000	2000	2.0	1080 2:1	CPU, 4-core
VI		*1: Camera-Designed Upgrading is automatically set when the upgrade mode is set to 0. *2: Programmed FW, Auto-Flash is set.				
		2000	2000	4.0	1080	4-core, 4-core, 4-core
		2000	2000	2.0	1080 2:1	4-core, 4-core, 4-core
		2000	2000	4.0	1080	4-core, 4-core, 4-core
		2000	2000	2.0	1080 2:1	4-core, 4-core, 4-core
VII		*1: Standard FW, Flash is not possible if the shutter speed is set to 1/2500 or 1/5000 for the 7.0, 7.0, and 4.0 for the Matrix T-series. *2: An external power cord for hard disk is required. *3: Camera FW, USB-Digital I/O is required.				
		2000	2000	4.0	1080	4-core, 4-core, 4-core
		2000	2000	2.0	1080 2:1	4-core, 4-core, 4-core
		2000	2000	4.0	1080	4-core, 4-core, 4-core
		2000	2000	2.0	1080 2:1	4-core, 4-core, 4-core







SB800

	i-TTL	D-TTL	TTL	Balanced fill flash	Auto Aperture	Non TTL Auto	Manual	FP high speed flash sync	Repeating flash	Rear Curtain Sync	Slow sync	Red eye reduction	AF-assist illuminator	Automatic power Zoom
F6					AA						SLOW			
F5											SLOW			
F4											SLOW			
F100/F90x											SLOW			
F80/F75/F70											SLOW			
F65											SLOW			
F60/F50														
F55											SLOW			
F3 series														
FM2/FM2n														
FM3a														
D1 series					AA						SLOW			
D100					AA						SLOW			
D2H /D2X					AA						SLOW			
D70					AA						SLOW			
COOLPIX 8800, 8400											SLOW			
COOLPIX 5000, 5400, 5700, 8700											SLOW			
COOLPIX 4500/995/990/950											SLOW	* No icon displayed on SB-800 LCD		





Photo Credit: rbonilla

