



## Godox MF12-DK1 Macro Flash User Manual

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**Godox MF12-DK1 Macro Flash**



### Foreword

Thank you for buying a Godox product!

MF12-DK1 is a dental flash system for close up photography, which is packed with mini macro flash, dental bracket, dedicated diffuser, and dental flash trigger. This flash is equipped with two flash modes: TTL mode and M (manual) flash mode, with short recycle time and easy operation. In addition, the MF12-DK1 adopts a professional optical lens design, which has stronger focusing effect and ensures even distribution of shooting light effect is evenly distributed. This is ideal for dental photography.

### Main Features

- Equipped with TTL automatic flash mode and M manual flash mode
- Having S1 / S2 scondary optic triggering modes
- Using a constant light LED modeling Light
- Adopted professional optical lens which offers more even lights
- Built-in 2.4G wireless X system
- Selecting the clear OLED display
- With built-in lithium battery which can be charged through Type-C port
- Max.1.7s recycle and 500 full power pops

### Warning

- Always keep this product dry.
- Do not disassemble. Should repairs become necessary, this product must be sent to an authorized maintenance center.
- Keep out of reach of children.
- Stop using this product if it breaks open due to extrusion, falling or strong hit. Otherwise, electric shock may

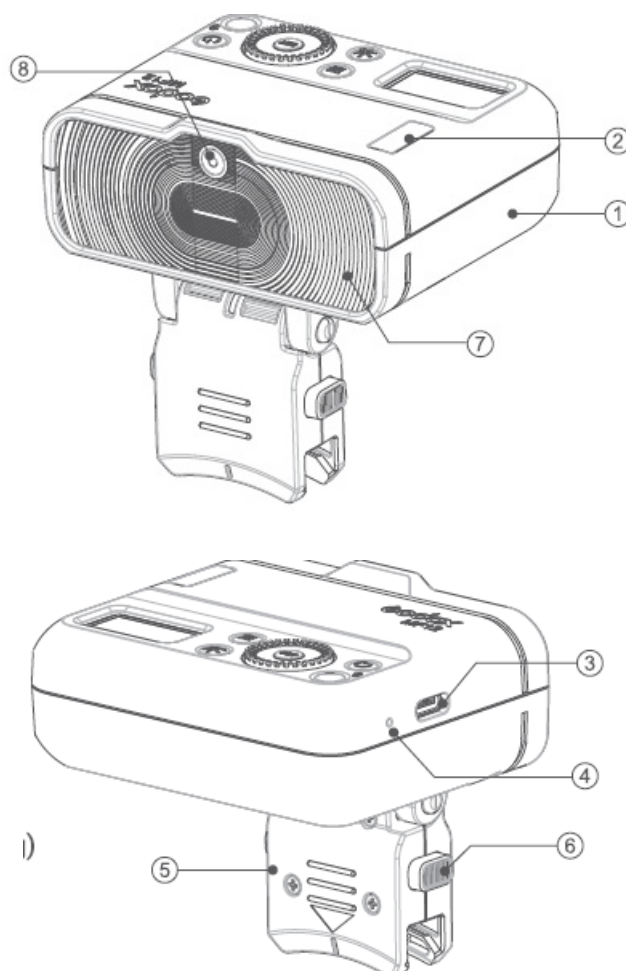
occur if you touch the electronic parts inside it.

- Do not fire the flash directly into the eyes (especially those of babies) within short distances. Otherwise visual impairment may occur.
- Do not use the flash unit in the presence of flammable gases, chemicals and other similar materials. In certain circumstance, these materials may be sensitive to the strong light emitting from this flash unit and fire or electromagnetic interference may result.
- Do not leave or store the flash unit if the ambient temperature reads over 50. Otherwise the electronic parts may be damaged.
- As this product do not have waterproof function, please take measures of waterproof in rainy or damp environment.
- Turn off the flash unit immediately in the event of malfunction.

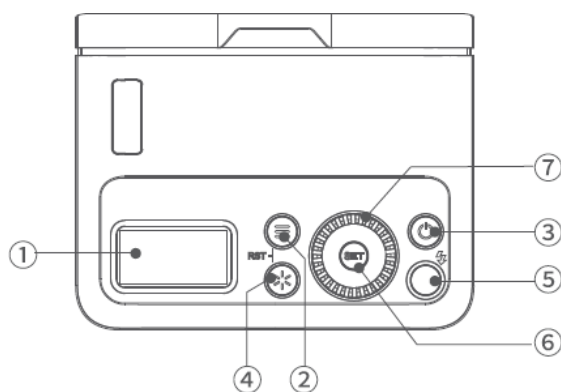
## Names of Parts

### Body

1. Light Body
2. Wireless Sensor
3. Type-C USB Port(only for charging)
4. Reset Hole
5. Angle Adjusting Bracket
6. Push Button of Bracket
7. Lens
8. Modeling Lamp



## Control Panel

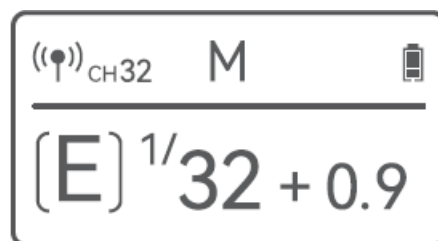


1. Display
2. Menu Button
3. Power Switch
4. Modeling Lamp Button
5. Test Button
6. Set Button
7. Select Dial

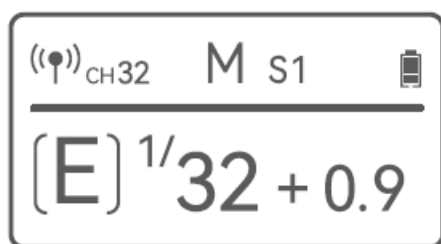
## OLED Display



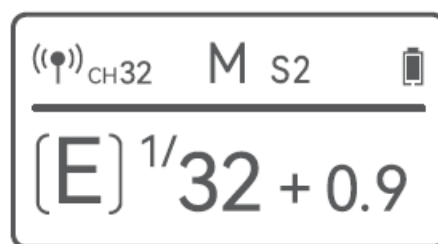
TTL Autoflash



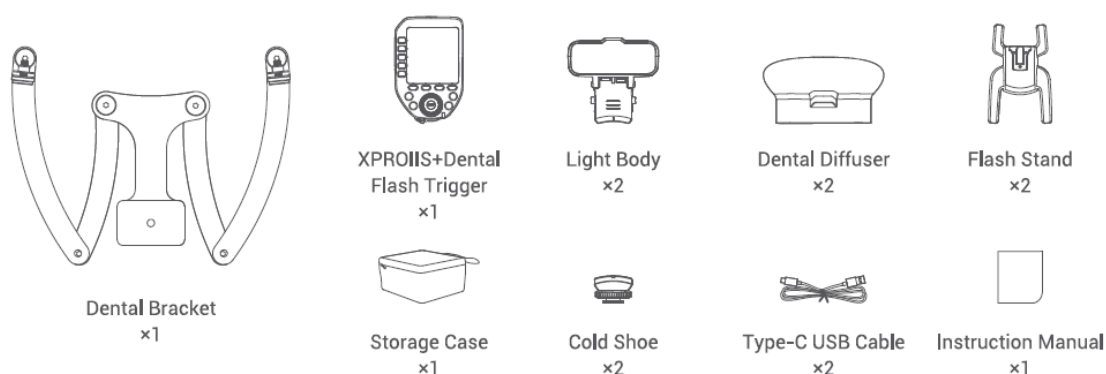
M Manual Flash



S1/S2



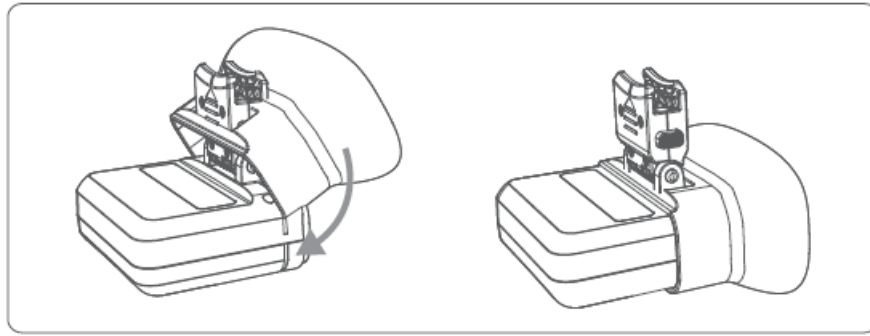
## Included Item



## Install Accessories

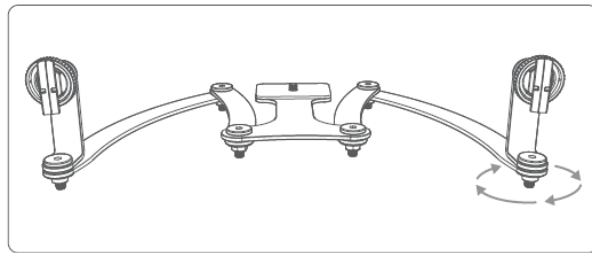
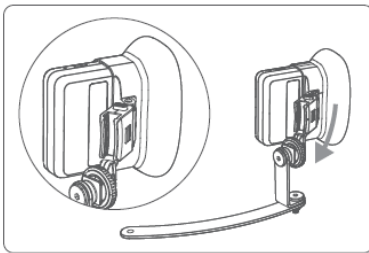
### How to Use the Dental Flash System

1. Insert the two dental diffusers through the bottom of the flash units and push them inside.

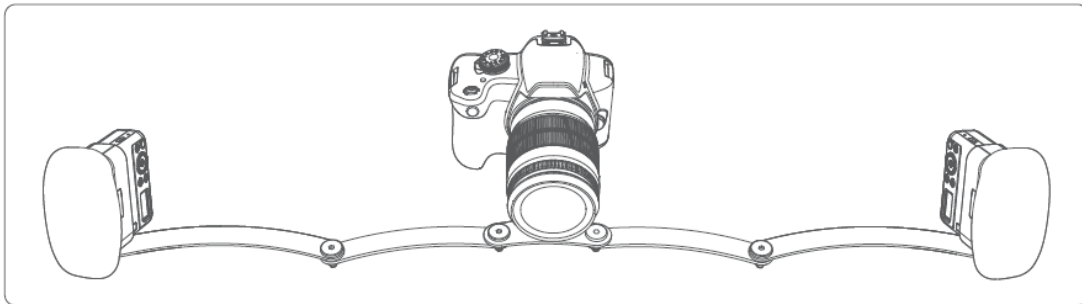


2. Slip the socket of MFI 2 all the way into the cold shoe and push it until a 'click' can be heard, then use the knob located on both sides of the bracket body to tighten the locking system.

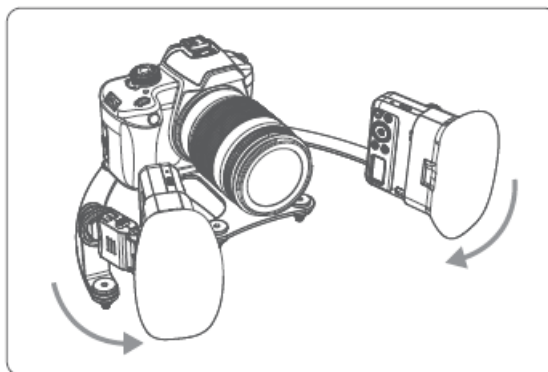
**Note:** The ball attachment at the ends of the two arms located on both sides of the bracket body can rotate 360 degrees around itself, which can orientate the flash at any angle



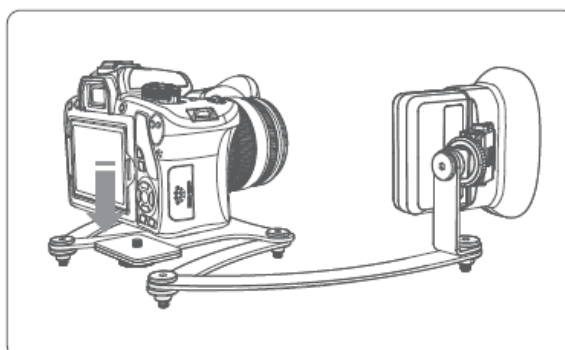
3. Each arm of the bracket has two sections with tension hinges in between and at both ends, extend the bracket to separate the flashes for anterior views.



4. Or fold up the bracket to bring the flashes units in close to the lens for intraoral views.

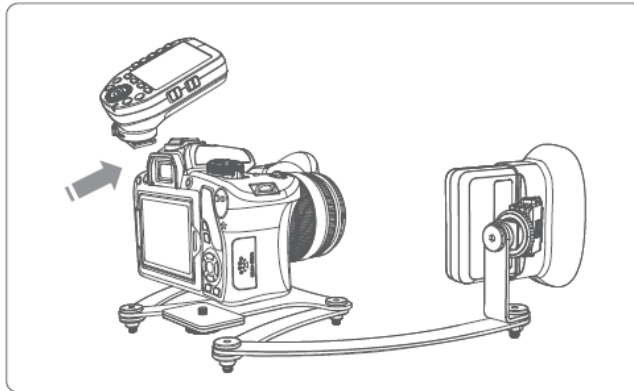


5. Attach the camera onto the mounting thread of the dental bracket, align the holes and snaps in place.



6. Slip the dental flash trigger's mounting foot all the way into the camera's hot shoe until they click in place,

and you are all set of the dental flash system.



## Battery

1. This adopts Li-ion battery which is non-detachable.
2. It is reliably safe. The inner circuit is against overcharge, overdischarge, overcurrent, and short circuit.
3. Take only approx. 55 minutes (within 1 hour) to fully charge the battery by using the 5V /2A charger.

## Battery Level Indicator

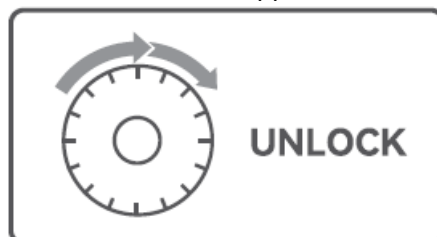
Battery Level	Meaning
Indication	Full
3 grids	Middle
2 grids	Low
1 grid	Low battery, please recharge it.
Blank grid	The battery level is going to be used out immediately. And the flash will auto
is displayed	power off in 10 seconds. Note: please recharge the battery as soon as possible (within 10 days). Then, the battery can be used or be placed for long period.

## Power Management

Please turn off the power if not used for a long time.

### Auto Power off Mode Setting

Press the menu button, turn the Dial to select STBY, press the SET button, and then turn the Dial to select 30min/60min/90min/OFF. After setting the auto power off mode, the flash will automatically shut down when unattended operation for a long time (more than 30/60/90 minutes). When it is automatically shut down, please press the power on button to restart it, the boot animation appears, turn the Dial to operate.



## Modeling Lamp

### 1. Modeling lamp power ON/OFF:

- Short press the button to control the on/off of LED modeling lamp.

- Long press the button to enter the modeling lamp interface and then short press SET button to on/off modeling lamp.
2. Modeling lamp setting: long press the < 8 button to enter modeling lamp interface.
- **Brightness setting**: turn the select dial to setting the brightness value from 1 to 10 levels.



## Flash Mode Selection

Mf12 flash has two modes: TTL autoflash and M manual flash. In TTL mode, the camera and the flash will work together to calculate the correct exposure for the subject and the background.

The main subject is correctly exposed regardless of background brightness. This is useful when you want to highlight the main subject or make exposure compensation.

In Manual flash photography, you select the aperture and flash output level. In this way, you can control the exposure and flash shooting distance when shooting subjects where the correct exposure is difficult to obtain in the TTL auto flash mode.

Short press the < > menu button and turn the select dial to choose MODE. Then, short press the SET button and turn the select dial to choose TTL or M mode. Then, short press the SET button to exit from Mode Selection.

- **TTL Autoflash Mode**

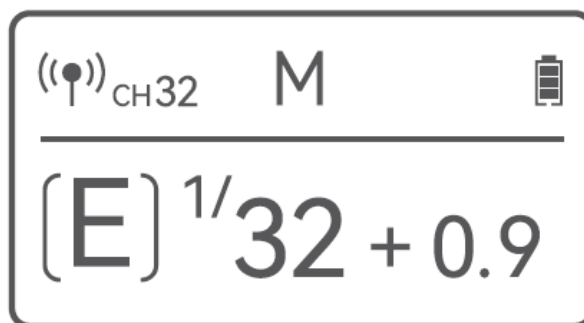
Choose TTL mode and press the < > menu button to back to the interface and the flash will enter TTL autoflash mode.

- **M Manual Flash Mode**

The flash output is adjustable from 1/128 to 1/1 full power in 0.1 and 1 step increment.

- Choose M and press the < > menu button to back to the main interface.
- In M mode's main interface, turn the select dial to set the flash output value.

To obtain a correct flash exposure, use a hand-held flash meter to determine the required flash output.



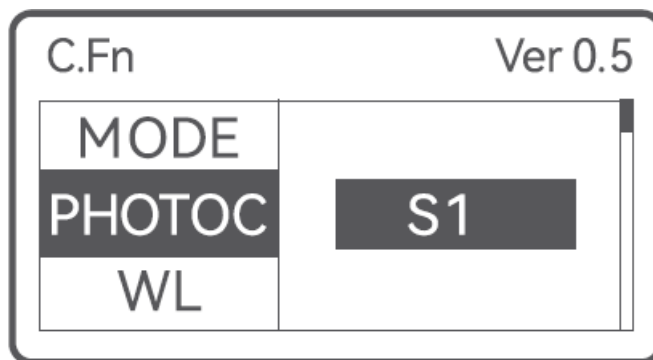
- **Light Control Flash (PHOTOC)**

In M manual mode, press the < € > menu button to enter C.Fn and turn the select dial to choose PHOTOC. Then, press the SET button and turn the select dial to choose S1 or S2 function.

- **S1 Secondary Optic Triggering**

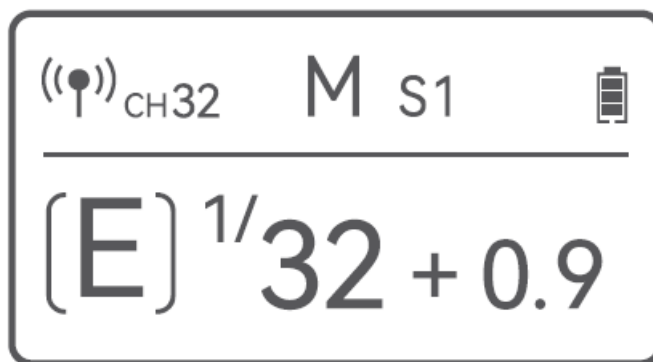
Choose S1 light control synchronous flash, flash MF12

can be used as auxiliary Light, create a variety of lighting MODE effects, suitable for manual flash environment. It will PHOTO trigger the flash synchronously with the first flash of the main flash. The effect is the same as using the wireless flash guide, and the response is sensitive.



- **S2 Secondary Optic Triggering with Anti-preflash**


Select S2 light control to prevent pre flash, flash MF12 can be used as auxiliary light, suitable for TTL automatic flash shooting environment. With high-energy anti pre flash function, when using the camera with a pre flash function, S2 light control pre flash function is used to achieve synchronous shooting. At the same time, it will trigger the flash synchronously with the second flash of the main flash with TTL function, that is, the second light control flash. MF12 flash only supports S1/S2 light control flash in M manual flash mode.



## Wireless Radio Transmission


With Godox XI, built-in XPro Godox and X2 2.4G trigger. wireless As X a system, auxiliary this unit, MFI MFI 2 2 can can be be used in compatible combination with Canon, with Nikon(using , Sony, XIT-N), Canon Panasonic, camera Olympus/Fuji (using XIT-C) system and and Sony switched camera (using automatically. XIT-S) Nikon can share camera one or more MFI 2's TTL functions.

- **Wireless (WL) Setting**

Press the  > menu button to enter C.Fn custom setting. Turn the select dial to choose wireless WL, press the SET button, and turn the select dial to choose ON or OFF. OFF means the wireless function is turned off while ON means turned on.

- **Channel (CH) Setting**

If there are other wireless flash systems nearby, you can change the channels to prevent signal interference.

The channel (CH) of the transmitter unit and the receiver unit(s) must be set to the same. Press the  > menu button to enter C.Fn menu. Turn the select dial to choose CH. Press the SET button and turn the select dial to choose channel from 01- 32. Then, short press the SET button to exit from CH setting.

- **Group (GR) Setting**

Enter C.Fn menu and turn the select dial to choose GR. Press the SET button and turn the select dial to choose group from A/B/C/D/E. Then, short press the SET button to exit from GR setting.

- **ID Setting**



Enter C.Fn menu and turn the select dial to choose ID.



Press the SET button and turn the select dial to choose ID from OFF and 01 to 99. Then, short press the SET button to exit from ID setting.

**Note:** this can only be used when the main unit has this function.

### The Reason & Solution of Not Triggering in Godox 2.4G Wireless

1. Disturbed by the 2.4G signal in outer environment (e.g. wireless base station, 2.4G wifi router, Bluetooth, etc.)
  - To adjust the channel CH setting on the flash trigger (add 10+ channels) and use the channel which is not disturbed. Or turn off the other 2.4G equipment in working.
2. Please make sure that whether the flash has finished its recycle or caught up with the continuous shooting speed or not(the flash ready indicator is lighten) and the flash is not under the state of over-heat protection or other abnormal situation.
  - Please downgrade the flash power output. If the flash is in TTL mode, please try to change it to M mode(a preflash is needed in TTL mode).
3. Whether the distance between the flash trigger and the flash is too close or not
  - Please turn on the “close distance wireless mode” on the flash trigger (<0.5m):
  - X1 series: Press and hold the flash button, then turn on the machine until the indicator light flashes twice.
  - X2, Xpro series: Set C.Fn-DIST to 0-30m.
4. Whether the flash trigger and the receiver end equipment are in the low battery states or not
  - Please replace the battery(the flash trigger is recommended to use 1.5V disposable alkaline battery).

### C.Fn: Setting Custom Functions

1. Press the  button to enter C.Fn and turn the select dial to choose the custom setting functions.
2. Press the SET button and turn the select dial to set the parameters.
3. After finishing all the settings, press the SET button to confirm and press the  button to exit.

Custom Function	Functions	Settings	Settings & Descriptions
Signs MODE	Flash mode	M	Manual flash
		TTL	Auto flash
PHOTOC	SI/S2 Light controlled flash	OFF	Off
		SI	SI Secondary Optic Triggering
		S2	S2 Secondary Optic Triggering with Anti-preflash
WL	Wireless setting	ON	<b>Wireless on</b>
		OFF	Wireless off
		A/B/C/D/E	Choose any letters from A/B/C/D/E
GR	Group setting	1~32	Choose any figure from 1 to 32
CH	Channel setting	OFF/01~99	Choose any figure from 01 to 99 or OFF
ID	ID setting	OFF	Off
STBY	Auto power off	30min	The flash will automatically shut down when unattended operation for a long time(more than 30/60/90 minutes).
		60min	
		90min	



- **Forced Shutdown Function**

When the light's system crashes or cannot be operated, insert a needle into the reset hole to forced shutdown the device.

- **Over-Temperature Protection**

When the continuous flashes fires up to 50 times in fast succession at 1/1 full power, an Over-Temperature Protection symbol appears on the display to remind the user that the flash unit is overheated. It is recommended to temporarily stop the macro flash.

- **Reset Function**

Long press<  > menu button and<  > modeling lamp button at the same time to realize the function of settings reset function.

## Technical Data

Model	MF12
Built-in Lithium Battery	3.7V/1700mAh
Guide No. (1/1 output)	GN=16.I ( $\pm 0.1$ )
Flash Power	12W
Output Level	8 levels: 1/128~1/1
Brightness of LED Modeling Lamp	1~10 Levels
Display	OLEO Display
Optical Flash	SI Secondary Optic Triggering
	S2 Secondary Optic Triggering with Anti-preflash
Flash Mode	TTL Autoflash, M manual flash
Flash Duration	1/1200s~1/34000s
<b>2.4G Wireless Transmission</b>	ON/OFF
Channel	32 channel: 1~32
Group	5 group: A/B/C/D/E
ID	OFF/01~99
<b>Transmission Distance</b>	30m
Type-C Power Charging	5V 2A
Full Power Flashes	Approx. 500
Recycle Time	Approx. 0.01~1.7s
Battery Level Indication	Battery level indicator shows on the upper right corner of the display
Power Saving	30min/60min/90min: It will automatically power off when
	unattended operation over 30min/60min/90minutes.
2.4G Wireless Frequency Range	OFF: Turn off auto power off mode.energy-saving performance is invalid.
<b>Dimension</b>	81•76.5•64.3mm
Size	
Net Weight	z144g

## Application of dental photography

Having flashes on a bracket allows you to get very well-lit posterior shots because you can move the light very close to the lens and closer to your subject so the light reaches all the way to the back of the mouth.

### Camera Settings:

- Manual mode
- Standard Picture Style
- Aperture f25

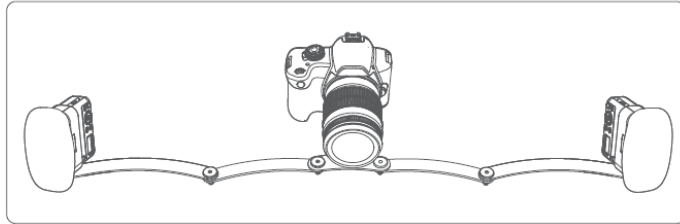
- Shutter speed 1/200th sec
- ISO -100 or Auto

## Extra-oral views

Extra-oral up-close smile



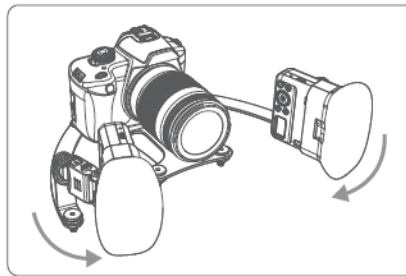
Positioning of flashes: move the flash further apart



Buccal right/left



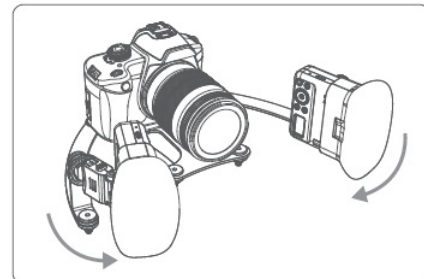
Positioning of flashes: move the flash closer to the lens



## Intra-oral views

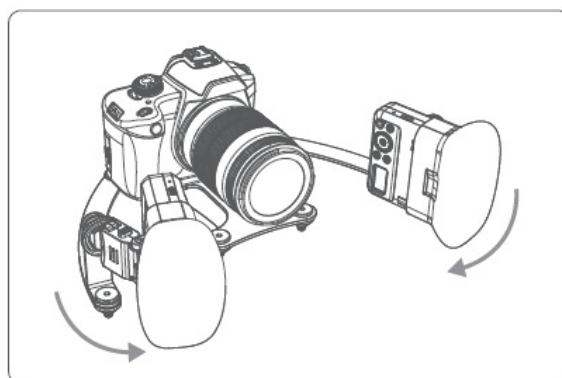
- **Maxillary /upper Mandibular/lower occlusal**

Positioning of flashes: move the flash closer to the lens



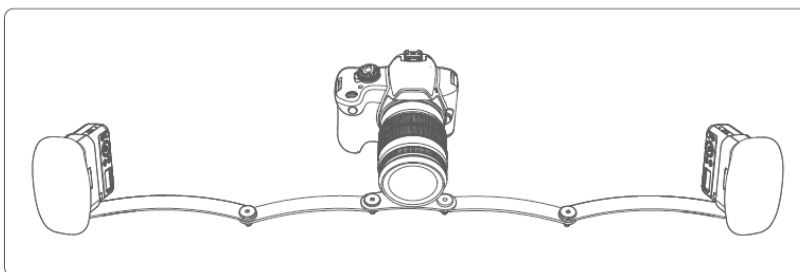
- **UR/UL lingual**

Positioning of flashes: move the flash closer to the lens



- **LR/LL lingual**

Positioning of flashes: move the flash further apart



## Maintenance

- Shut down the device immediately should abnormal operation be detected.
- Avoid sudden impacts and the product should be dedusted regularly.
- It is normal for the light beads to be warm when in use. Avoid continuous flashes if unnecessary.
- Maintenance of the light must be performed by our authorized maintenance department which can provide original accessories.
- This product, except consumables, is supported with a one-year warranty. Lithium battery is supported with six months warranty.
- Unauthorized service will void the warranty.
- If the product had failures or was wetted, do not use it until it is repaired by professionals.
- Changes made to the specifications or designs may not be reflected in this manual.

## Warranty

Dear customers, as this warranty card is an important certificate to apply for our maintenance service, please fill in the following form in coordination with the seller and safe-keep it. Thank you

Product Information	Model	Product Code Number
Customer Information	Name	Contact Number
	Address	
Seller Information	Name	
	Contact Number	
	Address	
	Date of Sale	
Note		

### Applicable Products

The document applies to the products listed on the Product Maintenance Information (see below for further information). Other products or accessories (e.g. promotional items, giveaways and additional accessories attached, etc.) are not included in this warranty scope.

### Warranty Period

The warranty period of products and accessories is implemented according to the relevant Product Maintenance Information. The warranty period is calculated from the day(purchase date) when the product is bought for the first time, And the purchase date is considered as the date registered on the warranty card when buying the product.

### How to Get the Maintenance Service

If maintenance service is needed, you can directly contact the product distributor or authorized service institutions. You can also contact the Godox after-sale service call and we will offer you service. When applying for

maintenance service, you should provide valid warranty card. If you cannot provide valid warranty card, we may offer you maintenance service once confirmed that the product or accessory is involved in the maintenance scope, but that shall not be considered as our obligation.

### Inapplicable Cases

The guarantee and service offered by this document are not applicable in the following cases: CD. The product or accessory has expired its warranty period; @. Breakage or damage caused by inappropriate usage, maintenance or preservation, such as improper packing, improper usage, improper plugging in/out external equipment, falling off or squeezing by external force, contacting or exposing to the improper temperature, solvent, acid, base, flooding and damp environments, etc; ®. Breakage or damage caused by non-authorized institution or staff in the process of installation, maintenance, alternation, addition and detachment; @. The original identifying information of product or accessory is modified, alternated, or removed;@. No valid warranty card;®. Breakage or damage caused by using illegally authorized, nonstandard or non-public released software; ®. Breakage or damage caused by force majeure or accident;®. Breakage or damage that could not be attributed to the product itself. Once met these situations above, you should seek solutions from the related responsible parties and Godox assumes no responsibility.

The damage caused by parts, accessories and software that beyond the warranty period or scope is not included in our maintenance scope. The normal discoloration, abrasion and consumption are not the breakage within the maintenance scope.

## Maintenance and Service Support Information

The warranty period and service types of products are implemented according to the following Product Maintenance Information:

Product Name Maintenance Type Period(month)			Warranty Service Type
Parts	Circuit Board	12	Customer sends the product to designated site
	Battery		Customer sends the product to designated site
	Electrical parts e.g.battery charger power cord, sync cable, etc.	, 12	Customer sends the product to designated site
Other Items	Flash tube. modeling lamp, lamp body , lamp cover, lockingdevice, package, etc.	No	Without warranty

## Documents / Resources

	<a href="#">Godox MF12-DK1 Macro Flash</a> [pdf] User Manual MF12-DK1 Macro Flash, MF12-DK1, Macro Flash, Flash
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