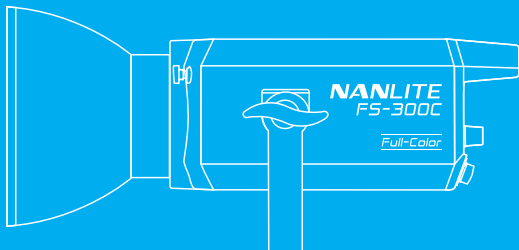# NANLITE

FS-300C *LED RGBW Spot Light*

NANLITE
FS-300C
Full-Color

USER MANUAL

▍Introduction

Thank you for purchasing Nanlite product -- the FS-300C!

The FS-300C is a LED RGBW full-color spot light with a rated power of 300W. Featuring all-in-one design, it allows for operation of CCT, HSI, and special effects modes directly on-board. It offers color temperatures from 2700K to 7500K, ±150 green and magenta adjustment, 36000 colors, and 15 customizable special effects. Wireless control is possible through the remote controller (optional) or the Nanlink App, enhancing lighting efficiency. With built-in 4 fan modes (smart/full speed/low speed/off), it balances heat dissipation and noise control, ensuring both lighting quality and quiet operation. Its Bowens mount design, coupled with the umbrella mount, allows for easy attachment of corresponding accessories.

Whether it's for podcasting, YouTube video, photography or TV commercial shooting, the FS-300C can fully utilize its full-color advantages to create a unique lighting style with excellent cost efficiency.

Notice

1. Please remove the COB protective cap before using the fixture.
2. Please do not look directly at the emitter when the fixture is on ⚠.
3. Please keep for 10s after settings before turning off the fixture.
4. Please do not place any object on the fixture or allow liquid to flow inside the fixture.
5. Please do not place the fixture near any flammable or volatile substances like alcohol or gasoline.
6. Please do not use strong detergent for cleaning. Please wipe off the dirt by using a cloth with neutral cleanser when cleaning the fixture.
7. Please set up the fixture in a dry and well-ventilated place. Please do not use it in any humid, dusty or overheated environment. Meanwhile, please also check whether the fan and vent are unimpeded.
8. Please do not disassemble the fixture for repairs at will. Maintenance should be conducted by qualified professionals strictly following the operating procedures described in this manual.
9. Please do not cover the vents when using the fixture to avoid affecting heat dissipation, which may result in damage. Please pay attention to the risk of burns when using the fixture for an extended period, as the surface temperature may become high.

FS-300C *LED RGBW Spot Light*

▌ Product Diagram
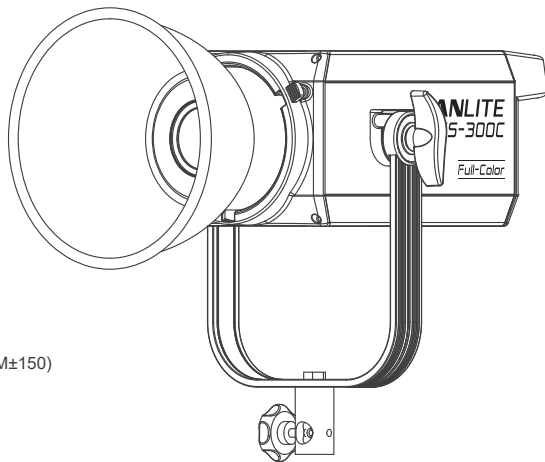
▌ Technical Data

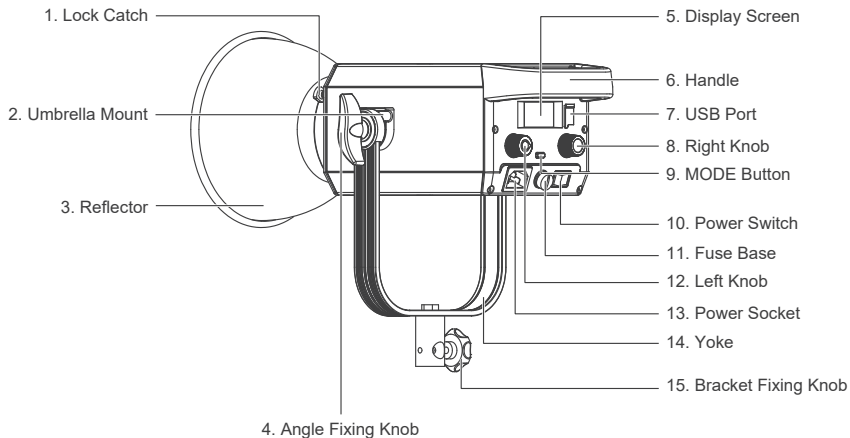Rated Power: 300W

Input: AC 100-240V 50/60Hz

Color Temperature: 2700K-7500K(GM±150)

CRI: Average 95

TLCI: Average 94

FS-300C is built with a Bowens mount, enabling it to be compatible with modifiers/accessories with Bowens mount.
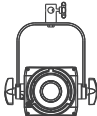
Product Details
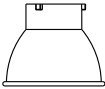
1. Lock Catch

2. Umbrella Mount

3. Reflector

4. Angle Fixing Knob

5. Display Screen

6. Handle

7. USB Port

8. Right Knob

9. MODE Button

10. Power Switch

11. Fuse Base

12. Left Knob

13. Power Socket

14. Yoke

15. Bracket Fixing Knob
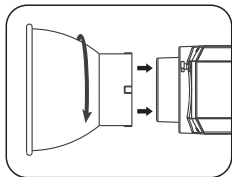
Detailed Description

1. Lock Catch: For securing and detaching Bowens mount accessories.
2. Umbrella Mount: For installing and detaching an umbrella.
3. Reflector: For gathering light to improve the central illumination.
4. Angle Fixing Knob: For adjusting and fixing the direction of fixture in tilt.
5. Display Screen: For displaying the settings.
6. Handle: For lifting the fixture and adjusting the direction of light.
7. USB Port: For updating the firmware.
8. Right Knob: For switching options.
9. MODE Button: For switching between CCT, HSI and EFFECT modes and MENU.
10. Power Switch: For turning on/off the fixture.
11. Fuse Base: For placing the fuse.
12. Left Knob: For adjusting the parameters or switching among different selections.
13. Power Socket: AC power input socket.
14. Yoke: Enabling the fixture to be mounted on the light stand and allowing for the tilting of the fixture.
15. Bracket Fixing Knob: For securing the fixture on the light stand.

Includes

FS-300C × 1	Power Cable × 1	Reflector × 1	COB Protective Cap × 1	User Manual × 1

Usage

1. Installation and Detachment of Reflector

When installing the reflector, align the Bowens mount of the reflector with the fixture's mount, then rotate the reflector in the direction indicated on the fixture until it clicks into place.
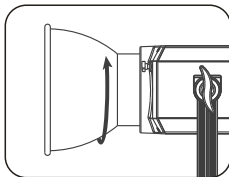
To remove the reflector, press the lock catch while rotating it until the reflector is free from the fixture.

Press the lock catch to remove the reflector.

2. Installation of Umbrella

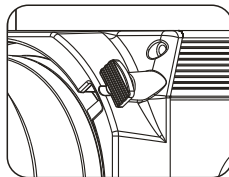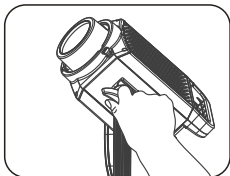Loosen the angle fixing knob.
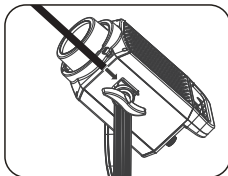
Insert the umbrella into the umbrella mount.
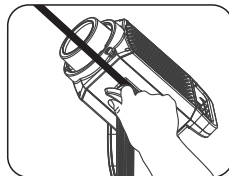
Tighten the angle fixing knob to lock the umbrella.

▌Remote Control

The FS-300C is built with 2.4G and Bluetooth module, enabling it to be controlled by the 2.4G remote controller, by NANLINK APP directly or via the WS-TB-1 transmitter box.

Note: ①2.4G remote controller is sold separately.

②The fixture supports the 2.4G wireless protocol V1.0 and V2.0. Please set the fixture in V2.0 while using the WS-RC-C2 remote controller, and set it in V1.0 while using other remote controllers.

1. Address Setting
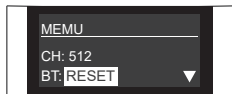
Press the MODE button to enter the menu.
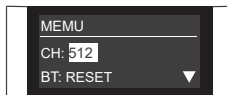
Rotate the right knob to CHANNEL.
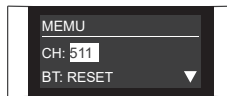
Rotate the left knob to select the needed address.

2. Wireless Protocol Setting
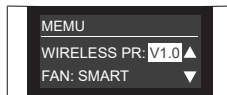
Rotate the right knob to WIRELESS PROTOCOL.
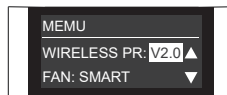
Rotate the left knob to select V1.0 or V2.0.

3. Bluetooth Reset

Rotate the right knob to BLUETOOTH.

Rotate the left knob to enter the interface of BLUETOOTH RESET.

Rotate the right knob to select RESET, and press the right knob to confirm the reset.

Operating Instructions

1. Ensure that the power switch of the fixture is off. Remove the COB protective cap, connect the fixture to the power outlet via the power cable. Turn on the fixture, and the screen will display "FS-300C".
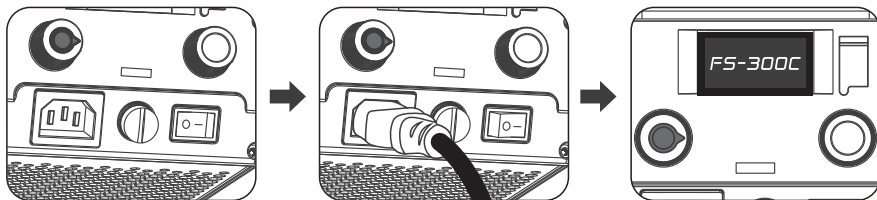
2. CCT Mode Setting

Press the MODE button to CCT mode, rotate the right knob to select the DIM (range: 000%…100%), CCT (range: 2700K-7500K) or G/M (range: -150 to 150), and rotate the left knob to set the corresponding parameters.

Press the MODE button to CCT mode.

Rotate the right knob to select the DIM, CCT or G/M.

Rotate the left knob to set the corresponding parameters.

Note: ①In other modes, the adjusting ranges of DIM, CCT and G/M are the same as in CCT mode.
　　　②When the fixture function is unlocked, in CCT or HSI modes, press the left knob to turn off the light,
　　　the brightness displayed on the screen will be 000%. Press again to restore the brightness, and press continuously
　　　to switch between on and off.

3. HSI Mode Setting
　　Press the MODE button to HSI mode, rotate the right knob to select DIM, HUE (range: 000-360) or SAT (range: 000-100),
　　and rotate the left knob to set the corresponding parameters.

Press the MODE button to HSI mode.

Rotate the right knob to select DIM, HUE or SAT.

Rotate the left knob to set the corresponding parameters.

Note: In other modes, the adjusting ranges of DIM, HUE and SAT are the same as in HSI mode.

4. EFFECT Mode Setting

FS-300C has built-in effects including: HUE Loop, CCT Loop, INT Loop, Flash (CCT Flash and HUE Flash), Pulse (CCT Pulse and HUE Pulse), Storm, Police Car, TV, Paparazzi, Candle/Fire, Disco, Bad Bulb, Firework, Explosion and Welding.

Press the MODE button to EFFECT mode.

Rotate the left knob to select the needed effect.

①HUE LOOP

HUE LOOP setting, rotate the right knob to select DIM, HUE or SPEED (range: 02s-30s), and rotate the left knob to set the corresponding parameters.

Rotate the right knob to select DIM, HUE or SPEED.

Rotate the left knob to set the corresponding parameters.

②CCT LOOP

CCT LOOP setting, rotate the right knob to select DIM, CCT or SPEED (range: 02s-30s), and rotate the left knob to set the corresponding parameters.

Rotate the right knob to select DIM, CCT or SPEED.

Rotate the left knob to set the corresponding parameters.

③INT LOOP

INT LOOP setting, rotate the right knob to select DIM, SPEED (range: 02s-30s) or COLOR (including CCT and HUE), and rotate the left knob to set the corresponding parameters.

Rotate the right knob to select DIM, SPEED or COLOR.

Rotate the left knob to set the corresponding parameters.

④FLASH (CCT FLASH and HUE FLASH)

CCT FLASH setting, rotate the right knob to select DIM, CCT, G/M or INTERVALS (range: 0.1s-10.0s), and rotate the left knob to set the corresponding parameters.

Rotate the right knob to select DIM, CCT, G/M or INTERVALS.

Rotate the left knob to set the corresponding parameters.

HUE FLASH setting, rotate the right knob to select DIM, HUE, SAT or INTERVALS (range: 0.1s-10.0s), and rotate the left knob to set the corresponding parameters.

Rotate the right knob to select DIM, HUE, SAT or INTERVALS.

Rotate the left knob to set the corresponding parameters.

⑤PULSE (CCT PULSE and HUE PULSE)

CCT PULSE setting, rotate the right knob to select DIM, CCT, G/M or PULSES/MIN (range: 001-240), and rotate the left knob to set the corresponding parameters.

Rotate the right knob to select DIM, CCT, G/M or PULSES/MIN.

Rotate the left knob to set the corresponding parameters.

HUE PULSE setting, rotate the right knob to select DIM, HUE, SAT or PULSES/MIN (range: 001-240), and rotate the left knob to set the corresponding parameters.

Rotate the right knob to select DIM, HUE, SAT or PULSES/MIN.

Rotate the left knob to set the corresponding parameters.

⑥STORM

STORM setting, rotate the right knob to select DIM, CCT or INTERVALS (range: 01s-60s), and rotate the left knob to set the corresponding parameters.

Rotate the right knob to select DIM, CCT or INTERVALS.

Rotate the left knob to set the corresponding parameters.

⑦POLICE CAR

POLICE CAR setting, rotate the right knob to select DIM, COLOR (range: B, RB, BW, RBW) or SPEED (range: 001-100), and rotate the left knob to set the corresponding parameters.

Rotate the right knob to select DIM, COLOR or SPEED.

Rotate the left knob to set the corresponding parameters.

⑧TV

TV setting, rotate the right knob to select DIM, CCT, G/M or SPEED (range: 001-100), and rotate the left knob to set the corresponding parameters.

Rotate the right knob to select DIM, CCT, G/M or SPEED.

Rotate the left knob to set the corresponding parameters.

⑨PAPARAZZI

PAPARAZZI setting, rotate the right knob to select DIM, CCT, G/M or SPEED (range: 1-100), and rotate the left knob to set the corresponding parameters.

Rotate the right knob to select DIM, CCT, G/M or SPEED.

Rotate the left knob to set the corresponding parameters.

⑩CANDLE/FIRE

CANDLE/FIRE setting, rotate the right knob to select DIM, CCT, G/M or SPEED (range: 001-100), and rotate the left knob to set the corresponding parameters.

Rotate the right knob to select DIM, CCT, G/M or SPEED.

Rotate the left knob to set the corresponding parameters.

⑪DISCO

DISCO setting, rotate the right knob to select DIM, COLOR (range: 03, 06, 09, 12, 15, 18, 21, 24) or SPEED (range: 001-100), and rotate the left knob to set the corresponding parameters.

Rotate the right knob to select DIM, COLOR or SPEED.

Rotate the left knob to set the corresponding parameters.

⑫BAD BULB

BAD BULB setting, rotate the right knob to select DIM, CCT, G/M or SPEED (range: 001-100), and rotate the left knob to set the corresponding parameters.

Rotate the right knob to select DIM, CCT, G/M or SPEED.

EFFECT　　CH: 512
FX: BAD BULB
DIM: 100%

EFFECT　　CH: 512
FX: BAD BULB
DIM: 099%

Rotate the left knob to set the corresponding parameters.

⑱FIREWORK

FIREWORK setting, rotate the right knob to select DIM, COLOR (range: 03, 06, 09, 12, 15, 18, 21, 24) or
SPEED (range: 001-100) and DECAY (range: 001-100), and rotate the left knob to set the corresponding parameters.

EFFECT　　CH: 512
FX: FIREWORK
DIM: 100%

EFFECT　　CH: 512
FX: FIREWORK
DIM: 100%

Rotate the right knob to select DIM, COLOR, SPEED or DECAY.

EFFECT　　CH: 512
FX: FIREWORK
DIM: 100%

EFFECT　　CH: 512
FX: FIREWORK
DIM: 099%

Rotate the left knob to set the corresponding parameters.

⑭EXPLOSION

EXPLOSION setting, rotate the right knob to select DIM, CCT, G/M, SPEED (range: 001-100) or DECAY (range: 001-100), and rotate the left knob to set the corresponding parameters.

Rotate the right knob to select DIM, CCT, G/M, SPEED or DECAY.

Rotate the left knob to set the corresponding parameters.

⑮WELDING

WELDING setting, rotate the right knob to select DIM, CCT, G/M, SPEED (range: 001-100) or PAUSE (OFF/ON), and rotate the left knob to set the corresponding parameters.

Rotate the right knob to select DIM, CCT, G/M, SPEED or PAUSE.

Rotate the left knob to set the corresponding parameters.

▲ Some special effect functions may be updated with firmware upgrades. Please refer to the latest firmware function description at www.nanlite.com.

5. MENU Setting

Press the MODE button to enter the MENU.

Rotate the right knob to select CHANNEL, BLUETOOTH, WIRELESS PROTOCOL, FAN, FIRMWARE UPDATE, LANGUAGE or VERSION.

5.1. CHANNEL

For detailed operations, please refer to P7.

5.2. BLUETOOTH RESET

For detailed operations, please refer to P9.

5.3. WIRELESS PROTOCOL

For detailed operations, please refer to P8.

5.4. FAN Setting

Rotate the right knob to FAN.

Rotate the left knob to select SMART, FULL, LOW or OFF.

Note: When the fan is in SMART or FULL state, the maximum power output of the fixture is 100%.

When the fan is in LOW state, the maximum power output of the fixture is 50%.

When the fan is off, the interior fan will stop working, and the maximum power output of the fixture is 15%.

5.5. FIRMWARE UPDATE

Insert the USB flash drive with latest firmware into the USB port.

Rotate the right knob to FW UPDATE.

Press the right knob to enter the interface of firmware update.

Rotate the right knob to select UPDATE.

Press the right knob to confirm the update, it will show "FIRMWARE UPDATED" after the firmware update is completed.

5.6. LANGUAGE

MEMU
FW UPDATE: UPDATE ▲
LANGUAGE: ENGLISH ▼

MEMU
FW UPDATE: UPDATE ▲
LANGUAGE: ENGLISH ▼

Rotate the right knob to LANGUAGE.

MEMU
FW UPDATE: UPDATE ▲
LANGUAGE: ENGLISH ▼

菜单
固件更新：更新 ▲
语言：中文 ▼

Rotate the left knob to select ENGLISH or 中文.

5.7. VERSION

MEMU
FW UPDATE: UPDATE ▲
LANGUAGE: ENGLISH ▼

MEMU
VERSION: V1.03.01 ▲

Rotate the right knob to VERSION to check the firmware version.

6. Lock or Unlock Settings

Long press the right knob to lock the lighting state. The current settings cannot be changed by pressing the button or rotating the knob.

Long press the right knob again to unlock.

7. When the fixture is not in use, please turn off the power switch.

General Fault Detection and Diagnosis

Fault Detection	Diagnosis
The light won't boot up properly.	1. Please check whether the connection between the power cable and power outlet is loose. 2. Please check whether the voltage value is within the specified range.
The fixture shed light when turned on, but the brightness cannot be adjusted, and the display screen is not working.	Please check whether the control board is damaged or connecting cables of control board fall off.
Display screen is on but no light output.	1. Please check whether the DIM is set to zero. 2. Please check whether the LED board or main board is damaged. 3. Please check whether the connecting cable of LED board fall off.
The light flickers.	1. Please check whether there are any high-temperature objects nearby that make the operational environment temperature too high. 2. Please check whether the fixture is in any special effect.
The fan doesn't work.	The fan is damaged if the display screen shows "The fixture is overheated, please check the fixture", then please contact the place of purchase or manufacturer.
The above issues may not necessarily be caused by a malfunction. Please check again before contacting the place of purchase or manufacturer.	

Please scan the QR code for more details.

Nanlite Website

Nanlink App

This manual has been compiled according to the rigorous testing for Nanlite products. Product designs are subject to change without prior notice. The latest version of the manual for this product is downloadable at www.nanlite.com.

Certification

**IS 10322
(PART 5/SEC 1) : 2012**

CCAK21Y10070T2

CCAK20Y10020T5

FC

**R-41242888
www.bis.gov.in**

Ⓡ 210-158897
Ⓡ 210-159266

UK
CA

CE

RoHS

PS
E

0.5m

Made in China

NANLITE