VILTROX JY-610C

Viltrox JY-610C Mini Flash Light User Manual

Model: JY-610C

1. INTRODUCTION

The Viltrox JY-610C is a compact and lightweight mini speedlite designed for Canon DSLR cameras. It supports E-TTL, Manual (M), and Multi (Stroboscopic) flash modes, offering versatile lighting control. This manual provides detailed instructions for the proper setup, operation, and maintenance of your JY-610C flash unit.

2. SAFETY INFORMATION

- Do not disassemble or attempt to repair the unit yourself. Refer to qualified service personnel.

- Keep the unit dry. Do not expose it to rain or moisture.

- Use only specified AA batteries. Do not mix old and new batteries or different types of batteries.

- Avoid direct eye exposure to the flash light, especially at close range, as it can cause temporary vision impairment.

- Keep out of reach of children.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Viltrox JY-610C Mini Speedlite

- Carrying Bag

- User Manual (English and Chinese)

Note: AA batteries are not included and must be purchased separately.

4. PRODUCT OVERVIEW

Familiarize yourself with the components and controls of the Viltrox JY-610C Mini Flash Light.

Figure 4.1: Front View
This image shows the front of the Viltrox JY-610C flash unit, highlighting the LCD display, control buttons (Pilot, Mode, T/CH/D, Hz/GR, ON/OFF), and the hot shoe mount with its locking mechanism.

Figure 4.2: Top View
The top view of the Viltrox JY-610C, displaying the "SPEEDLITE JY610C" branding and the flash head. This perspective shows the compact design of the unit.

Figure 4.3: Side View with Battery Compartment Open
This image illustrates the side of the flash unit with the battery compartment door open, revealing the slots for AA batteries. This is where batteries are inserted or replaced.

Figure 4.4: Rear View
The rear view of the Viltrox JY-610C, showing the hot shoe connection point for mounting on a camera, the slave sensor (red window), and regulatory markings. The locking ring for secure attachment is also visible.

Figure 4.5: LCD Display Modes
This composite image shows the Viltrox JY-610C flash unit alongside close-ups of its LCD screen displaying different operational modes: Manual (M) with power setting, Multi (Stroboscopic) with frequency and flash count, and E-TTL with exposure compensation. This demonstrates the user interface for mode selection and settings adjustment.

4.1. Control Panel

- **LCD Screen:** Displays current settings and mode.
- **ON/OFF Button:** Powers the unit on or off.
- **MODE Button:** Cycles through E-TTL, M (Manual), and Multi (Stroboscopic) flash modes.
- **T/CH/D Button:** Used for setting channels/groups in slave mode or other parameters.
- **Hz/GR Button:** Used for setting frequency in Multi mode or groups.
- **PILOT Button:** Test flash button. Also serves as a flash-ready indicator (red light).
- **Directional Buttons (Up/Down/Left/Right):** Navigate menus and adjust settings.
- **SET Button:** Confirms selections.

5. SETUP

5.1. Battery Installation

1. Open the battery compartment cover located on the side of the flash unit (refer to Figure 4.3).
2. Insert two (2) AA-size batteries according to the polarity indicators inside the compartment.
3. Close the battery compartment cover securely.

Note: Ensure batteries are inserted correctly to prevent damage to the unit.

5.2. Mounting to Camera

1. Slide the hot shoe mount of the JY-610C into the hot shoe of your Canon DSLR camera.
2. Rotate the locking ring clockwise until the flash unit is securely fastened to the camera's hot shoe. Do not overtighten.
3. To remove, rotate the locking ring counter-clockwise and slide the flash unit off the hot shoe.

6. OPERATING MODES

Press the **MODE** button to cycle through the available flash modes: E-TTL, M (Manual), and Multi (Stroboscopic).

6.1. E-TTL Mode (Automatic Flash)

In E-TTL mode, the flash output is automatically controlled by the camera to achieve optimal exposure. This mode is ideal for general photography.

- Press **MODE** until "E-TTL" appears on the LCD screen (refer to Figure 4.5).
- You can adjust Flash Exposure Compensation (FEC) using the directional buttons (e.g., +1/3, +2/3, etc.) if needed. Press **SET** to confirm.
- The flash will fire automatically based on the camera's metering.

6.2. Manual (M) Mode

Manual mode allows you to set the flash output power manually, providing precise control over lighting.

- Press **MODE** until "M" appears on the LCD screen (refer to Figure 4.5).
- Use the directional buttons to adjust the flash output from 1/1 (full power) to 1/128, with 22 levels of fine tuning.
- Press **SET** to confirm the power setting.

6.3. Multi (Stroboscopic) Mode

Multi mode fires the flash multiple times during a single exposure, creating stroboscopic effects for capturing motion.

- Press **MODE** until "Multi" appears on the LCD screen (refer to Figure 4.5).
- Use the directional buttons to set the flash frequency (Hz) and the number of flashes.
- Press **SET** to confirm.

6.4. Slave Modes (S1/S2)

The JY-610C can function as an optical slave unit, triggered by another flash.

- **S1 Mode:** The flash will fire in response to the first flash it detects. Suitable for manual flash triggers.
- **S2 Mode:** The flash will ignore the pre-flash from a master E-TTL flash and fire on the main flash. Suitable for E-TTL master flashes.
- To activate slave mode, press and hold the **T/CH/D** button until "SLAVE" appears, then use directional buttons to select S1 or S2.
- The unit supports 4 channels in 3 groups for more complex multi-flash setups.

7. ADVANCED FEATURES

7.1. Exposure Compensation

In E-TTL mode, you can adjust the flash exposure compensation to fine-tune the brightness of your subject. Use the directional buttons to increase or decrease the exposure value.

7.2. Front-Curtain Sync / Rear-Curtain Sync

The JY-610C supports both front-curtain and rear-curtain sync. This setting is typically controlled via your camera's flash menu. Consult your camera's manual for specific instructions on how to enable these features.

- **Front-Curtain Sync:** The flash fires immediately after the shutter opens.
- **Rear-Curtain Sync:** The flash fires just before the shutter closes. Useful for creating motion blur effects with the flash freezing the subject at the end of the exposure.

7.3. Adjustable Vertical Angle

The flash head can be tilted vertically to angles of 60, 75, and 90 degrees. This allows for bounce flash photography, directing the light off a ceiling or wall for softer, more natural illumination.

8. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the flash unit. For stubborn dirt, a slightly damp cloth can be used, followed by a dry cloth. Do not use strong detergents or solvents.
- **Storage:** When not in use for extended periods, remove the batteries to prevent leakage and store the unit in its carrying bag in a cool, dry place.
- **Battery Care:** Replace batteries when the recycle time becomes excessively long or the flash-ready indicator does not light up.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Flash does not fire.	Batteries are dead or incorrectly inserted. Flash is not securely mounted to the camera. Flash is turned off. Camera flash settings are incorrect.	Replace batteries or reinsert them correctly. Ensure the flash is securely locked onto the hot shoe. Press the ON/OFF button to power on. Check camera's external flash settings.
Long recycle time.	Batteries are low. High flash output setting.	Replace batteries. Reduce flash output power in Manual mode.
Flash output is too bright/dark.	Incorrect exposure compensation (E-TTL). Incorrect manual power setting (M).	Adjust FEC in E-TTL mode. Adjust manual power setting in M mode.
Slave mode not triggering.	Incorrect S1/S2 mode selected. Slave sensor not facing the master flash. Distance too far or obstruction.	Ensure correct S1/S2 mode for your master flash. Position the slave sensor towards the master flash. Reduce distance or remove obstructions.

10. SPECIFICATIONS

Feature	Detail
Guide Number	GN27 (ISO 100/m)

Feature	Detail
Flash Mode	E-TTL / M / Multi
Slave Mode	Slave / S1 / S2 (4 channels in 3 groups)
Flash Control	8 levels of output control (1/128 - 1/1), 22 levels of fine tuning
Flash-ready indicator	Red pilot light
Effective Flash Range	0.7 - 19.3m (Quick flash: 0.7 - 11.1m)
Recycle Time	0.1 - 4s
Flash Times	100 - 680 times (with fresh AA batteries)
Power Supply	2 x AA batteries (not included)
Item Size	8.5 x 6 x 4.5cm / 3.3 x 2.4 x 1.8in
Item Weight	145g / 5.1oz
Adjustable Vertical Angle	60 / 75 / 90 degrees
Sync Support	Front-curtain sync / Rear-curtain sync
Exposure Compensation	Supported

11. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the warranty card included with your product or visit the official Viltrox website. Keep your purchase receipt as proof of purchase for warranty claims.