

FJ80 Universal Touchscreen Speedlight

User Manual

V1.0.6
05/11/2022



Contents

| | |
|---|-----------|
| Contents | 1 |
| Introduction | 4 |
| Components (Included) | 5 |
| Important things to know before starting... | 5 |
| Reviewing Firmware Files | 5 |
| TTL ± 3 Flash Exposure Compensation | 5 |
| Canon Continuous Mode | 5 |
| Flashes Per Charge | 5 |
| FJ80 Speedlight: Overview | 6 |
| FJ80 Speedlight: LCD Display & Menus | 7 |
| FJ80 Speedlight: Warnings | 8 |
| Caution | 8 |
| Dual-stage Heat Protection System | 8 |
| FJ80 Speedlight: Firmware Updates | 9 |
| Installing the Firmware | 9 |
| Important Installation Information | 9 |
| FJ80 Speedlight: Getting Started | 10 |
| Charging the FJ80 Lithium Polymer Battery | 10 |
| Reinserting the FJ80 Lithium Polymer Battery | 10 |
| DC Power Operation | 10 |
| FJ80 Speedlight: Mounting | 11 |
| Attaching to a Camera | 11 |
| Detaching from a Camera | 11 |
| FJ80 Speedlight: Attaching & Removing Modifiers | 11 |
| Attaching the FJ80 Cold Shoe Stand | 11 |
| Attaching the FJ80 Magnetic Diffusion Dome [sold separately] | 11 |
| Attaching the FJ80 Magnetic Diffusion Dome with Color Gel [sold separately] | 12 |
| Attaching the Honeycomb Clip & 30° Grid [sold separately] | 12 |
| Attaching the Honeycomb Clip and Color Gels [sold separately] | 12 |
| FJ80 Speedlight: Powering & Testing | 12 |
| Powering On | 12 |
| Powering Off | 13 |
| Test Fire | 13 |
| FJ80 Speedlight: Speedlight On-camera Operation | 13 |

| | |
|---|-----------|
| Enable SPEEDLIGHT Mode | 13 |
| Selectable Digital Touchscreen Buttons | 13 |
| Auto-focus (AF) Assist Beam | 14 |
| FJ80 Speedlight: HOST Wireless Operation | 14 |
| Enable HOST Mode | 14 |
| Group SLP (Sleep) Mode [HOST] | 14 |
| Selectable Digital Touchscreen Buttons | 14 |
| FJ80 Speedlight: CLIENT Wireless Operation | 15 |
| Enable CLIENT Mode | 15 |
| Group SLP (Sleep) Mode [CLIENT] | 15 |
| Selectable Digital Touchscreen Buttons | 16 |
| Full-stop Increments in Manual Mode with the FJ-X2m | 16 |
| FJ80: Remote ZOOM Control | 16 |
| FJ80: Settings Menu | 17 |
| Enter SETTINGS Menu | 17 |
| Settings Menu 1: Selectable Digital Touchscreen Buttons | 17 |
| Settings Menu 2: Camera Brand Control Selections | 18 |
| FJ80 Battery: Performance and Care | 18 |
| FJ80 Battery Performance | 18 |
| FJ80 Charging & Life Expectancy | 18 |
| FJ80 Speedlight: Technical Specifications | 18 |
| Warranty Information | 20 |
| Legal Information | 21 |

Introduction

Thank you for purchasing the Westcott FJ80 Universal Touchscreen Speedlight. The FJ80 is the perfect addition to the growing family of FJ series of wireless communication products; FJ400 Strobe, FJ200 Strobe, FJ-X2m Wireless Trigger, and FJ-XR Wireless Receiver (*all sold separately*). The FJ80 is the industry's first-round head speedlight and transceiver equipped with multi-brand compatibility and touchscreen controls. Doesn't it feel good to own the first product of its kind? Congratulations.

The FJ80 experience is like nothing you've ever experienced. The round head provides a more natural light output mimicking the big light in the sky leading to more appealing catchlights in your subject's eyes and evenly filling up cylindrical modifiers from the center to the edge. It's compact, lightweight, and performance-driven, which means it's perfect for both on-camera and off-camera photography. That's right, you're now capable of replacing your on-camera speedlight with the FJ80 and have complete control of all of your off-camera FJ Wireless gear. Pretty cool, right?

The FJ80 also doubles as a transceiver, meaning it can both send and receive wireless communication. Already own an FJ-X2m Wireless Trigger, CanonRT device, or maybe this is your second FJ80 Speedlight? Perfect. This is where the fun really begins. With the ability to receive wireless communications from any of these devices, the FJ80 off-camera capabilities allow you to squeeze it into the smallest spaces or reach new heights to achieve your desired lighting effect.

One last thing and this is the important one. Don't forget that Westcott HQ is based in Maumee, OH and our team's available to answer your questions, Monday-Friday 9am-5pm ET. We also have a community of Westcott loyal users who are ready to share their tips-and-tricks via the Westcott Lighting Community on Facebook during the week or on the weekend.

We hope you're excited to get started with your new gear, because we're excited to see what you create.

Thank you for your business.

-Team Westcott

Components (Included)

- FJ80 Universal Speedlight
- FJ80 Lithium Polymer Battery
- FJ80 Battery Charger & Cord
- FJ80 Shoe Stand
- FJ80 Travel Case

Important things to know before starting...

Reviewing Firmware Files

Firmware updates will be made available on the FJ80 product page (<https://www.fjwestcott.com/4750>) to improve the performance of the FJ Wireless System. Please review ALL documentation included with each firmware download to ensure all of the necessary preparation steps are complete before installing the firmware.

TTL ± 3 Flash Exposure Compensation

± 3 TTL Flash Exposure Compensation (FEC) on the FJ-X2m Wireless Trigger or host FJ80 Universal Speedlight (*when used as a transmitter*) is independent of the Flash Exposure Compensation (FEC) on the FJ80 Speedlight (*when used as a client*). Meaning, a change of the FEC ± 3 on the FJ-X2m or host FJ80 will adjust the light output in TTL mode; however, a client FJ80's touchscreen will not visually indicate the FEC changes made on the FJ-X2m or host FJ80. The FJ80 FEC can be further adjusted ± 3 on the client light directly.

Canon Continuous Mode

When photographing in Canon Continuous Mode, two overlapping-squares will be visible on the FJ-X2m & FJ80 displays, and the FJ Wireless System will default to Manual Mode; disabling TTL and HSS functionality. Exit Continuous Mode on the Canon camera to resume TTL and HSS functionality.

Flashes Per Charge

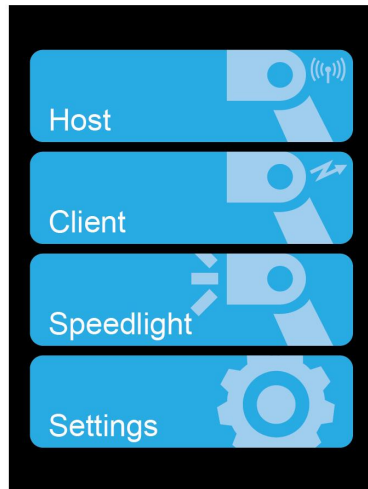
The FJ80 was designed to achieve 400+ full-power flashes with every battery charge. Achieving this requires that the screen intensity be set to MIN in the **Settings Menu**.

FJ80 Speedlight: Overview

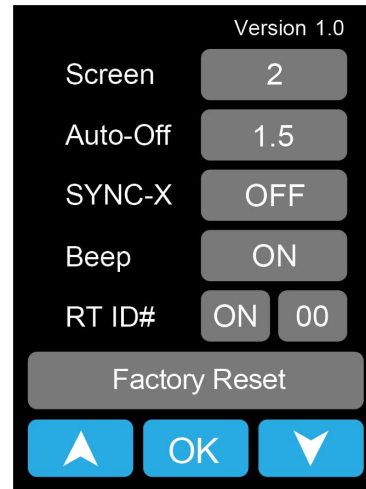


FJ80 Speedlight: LCD Display & Menus

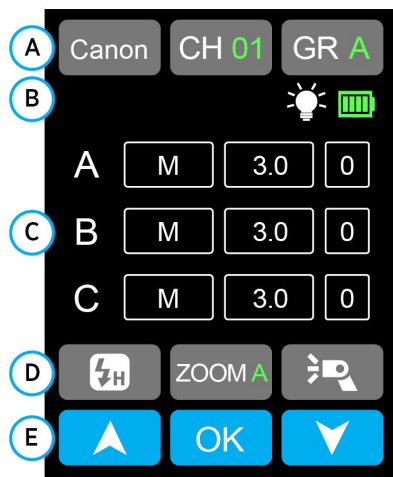
Main Menu



Settings Menu

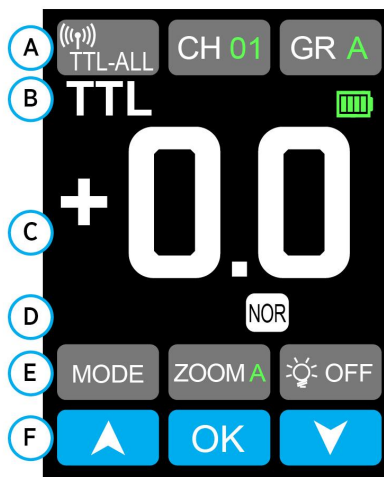


Host Menu



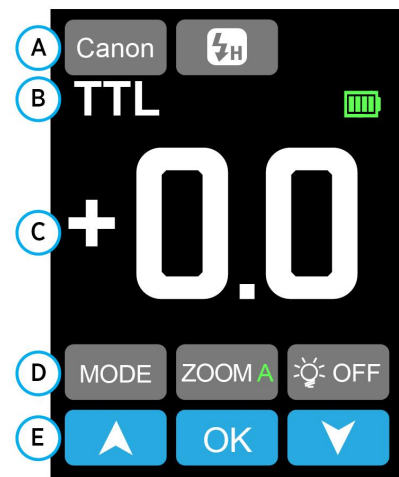
- A Camera Brand Selection, Channel Selection, Group Selection
- B Modeling Lamp Icon, Battery Icon Indicator
- C TTL / M Group Designations, Power Output Value / FEC ± 3 , Modeling Lamp Control
- D Sync Function Selection, Zoom Selection, Host Speedlight Enable/Disable
- E Selection Control Arrows, OK Button

Client Menu



- A FJ Wireless Enabled, Channel Selection, Group Selection
- B Flash Mode Icon, Battery Icon Indicator
- C Power Output Value / FEC ± 3
- D Sync Function Icon
- E Mode Selection, Zoom Selection, Modeling Lamp Setting
- F Selection Control Arrows, OK Button

Speedlight Menu



- A Camera Brand Selection, Sync Function Selection
- B Flash Mode Icon, Battery Icon Indicator
- C Power Output Value / FEC ± 3
- D Mode Selection, Zoom Selection, Modeling Lamp Setting
- E Selection Control Arrows, OK Button

FJ80 Speedlight: Warnings

Caution

- **IMPORTANT:** During operation, the speedlight lens and various components of the FJ80 speedlight temperatures may increase. Please use caution while using to avoid severe burns or injuries.
- Use only with the Westcott FJ80 Lithium Polymer Battery and Charger.
- Do not touch the speedlight lens after immediate use to avoid potential injury.
- Never leave unattended around children and/or pets.
- Always confirm proper installation, locking, and unlocking when adding or removing from the camera hot shoe. (NOTE: Failure to completely rotate and unlock could result in damaging the locking pin.)
- Keep away from fire, water, and moisture.
- Do not submerge in water.
- Avoid drastic temperature changes before, during, or after use.
- Always remove the FJ80 Lithium Polymer Battery from the FJ80 Speedlight during travel/storage to avoid accidental operation, which could lead to overheating or permanent damage.
- Do not force adjust or add excessive weight to the speedlight head.
- Only use the FJ80 Speedlight with FJ80 compatible mounts, brackets, modifiers and/or accessories.
- Do not attempt to disassemble or modify any Westcott products. Contact Westcott for assistance.
- The operating temperature range is 14°~122°F / -10°~50°C).

Dual-stage Heat Protection System

The FJ80 is equipped with a self-monitoring system ensuring safe operation during continued full-power use during a short timeframe. The monitoring system provides a staged automatic shutoff scenario;

- Stage 1: Once the speedlight reaches an internal operating temperature of 131°F (55°C), the screen will display a yellow [OH]. The recycle time will also increase to 2 seconds in efforts to cool the unit while allowing for further operation.
- Stage 2: Once the strobe reaches an internal operating temperature of 167°F (75°C), the screen will display a red [OH] icon. The unit will be inoperable for an estimated 10 minutes until an adequate internal temperature has been reached to continue operation.
- Once the unit has cooled, the red [OH] will disappear from the touchscreen, and it will then be safe to continue operation.

FJ80 Speedlight: Firmware Updates

The FJ80 Speedlight is designed with a USB-C port to allow for firmware updates only. Future firmware updates will result in performance enhancements, modified menu options, and improved menu layouts. Please visit fjwestcott.com/4750 to confirm your speedlight has the latest firmware before using.

Installing the Firmware

1. Visit fjwestcott.com/4750 and scroll to the *Support* section. Find and download the latest firmware FJ80 firmware ZIP file.
 - a. NOTE: Various browsers may automatically unzip the ZIP file. In this scenario, skip to Step #3.
2. Unzip the file and open the extracted folder.
3. **IMPORTANT:** Read **ALL FILES** in the extracted folder (i.e., README, Changelog, etc.).
4. Ensure the FJ80 is **OFF** and cooled before installing the firmware.
5. Connect the USB-A to USB-C cable to the FJ80's USB-C port.
6. Standard operating systems will present the speedlight as an external drive device.
 - a. NOTE: MacOS may display the external device on the desktop or in the Finder window.
7. Locate the **.BIN** file on your computer and drag the file to the FJ80 (external device).
 - a. NOTE: The file ending in **.BIN** will be the **ONLY** file copied to the FJ80.
8. Once the file has been copied to the FJ80, **EJECT** the FJ80 from the computer.
9. Remove the USB-C cable from the FJ80 and reinsert the battery.
10. Long press the **Power | Test** button on the FJ80, tap the blue power logo on the screen to initiate the firmware update. Finally, confirm installation was successful by locating the firmware text in the bottom right corner of the screen during the start-up process.

Important Installation Information

- If FJ devices don't display as an external device after being connected to the computer, then please disconnect the USB cable from both devices, restart the computer, and restart the firmware installation process.
- It's recommended that the firmware update installation process be completed only when the connected computer's power level is $\geq 50\%$. Loss of power of any type during this process could render the FJ80 inoperable and require professional repair.
- Removing the USB-C cable from the FJ80 without properly ejecting the FJ80 from your computer could render the speedlight inoperable and require professional repair.
- Depending on the operating system and the applications running, copying the firmware from your computer to the FJ80 may take a few minutes and/or halt the copying process. Should this happen, close the copy progress window and try again. Further copying issues may require that the computer be restarted.

FJ80 Speedlight: Getting Started

Charging the FJ80 Lithium Polymer Battery

1. Ensure the FJ80 is **OFF** by long-pressing the **Power | Test** button until the LCD screen turns off.
2. Remove the battery from the FJ80 by pressing the two buttons on the sides of the battery and gently pulling the battery away from the FJ80 battery port.
3. Connect the FJ80 Power Cord to the FJ80 Battery Charger and plug the cord into a wall outlet.
4. Align the silver contacts on the back of the FJ80 battery with the two contacts on the FJ80 charger; while pressing the buttons on the side of the battery, gently insert the battery into the charger and gently press down until the battery locks into place and the LED indicator turns red.
5. The battery is charged and can be safely removed from the charger when the LED indicator light turns green.
6. Remove the battery from the charger by pressing the side buttons and gently pulling away from the charger.

Battery Charger LED Indicator Light Colors

- **Solid Green Indicator LED**
 - *No Battery Inserted:* The charger is plugged into a power outlet and ready to charge the FJ80 Li-po Battery.
 - *Battery Inserted:* The FJ80 Battery is fully-charged and ready to be removed from the charger.
- **Solid Red Indicator LED**
 - *Battery Inserted:* The FJ80 Battery is correctly inserted and charging.

Reinserting the FJ80 Lithium Polymer Battery

Reinsert the FJ80 Battery into the speedlight by aligning the silver contacts on the back of the battery to the contacts on the FJ80 battery port and gently press the battery into the port until it clicks into place.

DC Power Operation

1. Ensure the FJ80 battery is completely charged.
2. Ensure the battery is securely attached to the FJ80.
3. Turn the speedlight **ON** by long-pressing the **Power | Test** button, then tap the blue power logo on the screen until the start-up screen appears.

NOTE: The FJ80 LCD Touchscreen is protected by a removable clear screen protector that can be removed at any time by gently pulling the film away from the display.

NOTE: The FJ80 was designed to achieve 400+ full-power flashes with every battery charge. Achieving this burst count requires that the touchscreen screen intensity be set to **MIN** in the **Settings** menu.

FJ80 Speedlight: Mounting

Attaching to a Camera

1. Ensure the FJ80 is **OFF**.
2. Slide the FJ80 Speedlight base into the camera's hot shoe with the touchscreen facing the same direction as the rear of the camera. (NOTE: Sony cameras REQUIRE the #4711 FJ-X2m Adapter for Sony Cameras.)
3. Rotate the **Shoe Lock** lever clockwise (left to right) until it's securely mounted to the camera.

Detaching from a Camera

1. Ensure the FJ80 is **OFF**.
2. Rotate the **Shoe Lock** lever counterclockwise (right to left). (NOTE: Ensure that the lever has been completely moved to the left. Otherwise, the locking pin may be permanently damaged upon removal of the speedlight.)
3. Securely grasp the sides of the FJ80 Speedlight, gently slide the speedlight towards the rear of the camera, and completely remove it from the camera's hot shoe.

NOTE: Never force or remove the FJ80 into or away from the camera's hot shoe.

FJ80 Speedlight: Attaching & Removing Modifiers

Attaching the FJ80 Cold Shoe Stand

1. Slide the FJ80 Speedlight base into the cold shoe stand with the touchscreen facing the same direction as the channel opening on the back of the shoe stand.
2. Rotate the **Shoe Lock** lever clockwise (left to right) until it's securely mounted to the cold shoe stand.
3. Remove the FJ80 Speedlight by rotating the **Shoe Lock** lever counterclockwise (right to left). (NOTE: Ensure that the lever has been completely moved to the left. Otherwise, the locking pin could be permanently damaged upon removal of the speedlight.)
4. Securely grasp the sides of the FJ80 Speedlight, gently slide the speedlight towards the rear of the cold shoe stand and completely remove it from the cold shoe stand.

Attaching the FJ80 Magnetic Diffusion Dome *[sold separately]*

1. Ensure all modifiers have been removed from the FJ80's articulating flash head.
2. Gently grasp the white dome, align the dome's opening with the FJ80's speedlight face, and gently affix it into place using the magnets.
3. Remove the Magnetic Diffusion Dome by gently grasping the dome and pulling away from the flash head.

Attaching the FJ80 Magnetic Diffusion Dome with Color Gel *[sold separately]*

1. Ensure all modifiers have been removed from the FJ80's articulating flash head.
2. Grasp the edges of the Diffusion Dome, align the tabs of the hard gels to the openings on the black ring at the base of the Diffusion Dome, insert the selected gel, ensure that the gel's tabs are seated in the lower cutout portion of the ring, and rotate the gel clockwise to lock into place.
3. Gently grasp the white dome, align the dome's opening with the FJ80's speedlight face, and gently affix it into place using the magnets.
4. Remove the Magnetic Diffusion Dome by gently grasping the dome and pulling away from the flash head.

Attaching the Honeycomb Clip & 30° Grid *[sold separately]*

1. Ensure all modifiers have been removed from the FJ80's articulating flash head.
2. Grasp the edges of the Honeycomb Clip, align the tabs of the honeycomb grid to the openings on the clip, insert the honeycomb grid into the slots, then rotate the grid clockwise to lock into place.
3. Align the clip side with the four magnetic points with the front face of the FJ80 and gently affix it into place.
4. Remove the Honeycomb Clip and Honeycomb Grid by gently grasping the edges of the clip and pull away from the flash head.

Attaching the Honeycomb Clip and Color Gels *[sold separately]*

1. Ensure all modifiers have been removed from the FJ80's articulating flash head.
2. Grasp the edges of the Honeycomb Clip, align the tabs of the hard gels to the openings on the clip, insert the gel, ensure that the gel's tabs are seated in the lower cutout portion of the clip, and rotate the gel clockwise to lock into place.
 - a. Add the honeycomb grid to this setup by following step 2 from the section above.
3. Align the clip side with the four magnetic points with the front face of the FJ80 and gently affix it into place.
4. Remove the Honeycomb Clip & Gel by gently grasping the edges of the clip and pull away from the flash head.

FJ80 Speedlight: Powering & Testing

Powering On

1. Long press the **Power** button for 3-seconds until the digital blue power button appears on the display, release the **Power** button, and tap the digital blue power button on the touchscreen.

Powering Off

1. Long press the **Power** button for 3-seconds until the FJ80 turns off.

Test Fire

1. Quick press the white **Test** button [backlit green] once to test-fire the FJ80 Speedlight. When the **Test** button is pressed, the backlit button will turn from green to red until the speedlight has recharged and ready for the next burst.

FJ80 Speedlight: Speedlight On-camera Operation

Enable SPEEDLIGHT Mode

1. Long press the **Power** button for 3-seconds until the digital blue power button appears on the display, release the **Power** button, and tap the digital blue power button on the touchscreen.
2. Quick press the physical blue **Home** button to return to the Main Menu on the display.
3. Quick press the digital **Speedlight** button on the Main Menu to enter Speedlight Mode.
4. Adjust the speedlight settings using one of the following methods:
 - a. *Method 1:* Press the desired setting's digital button repeatedly until the desired setting is visible on the button and/ or touchscreen.
 - b. *Method 2:* Quick-press the desired setting's digital button to highlight the selection and use the up-and-down arrows to change the settings. Press **OK** to confirm the selection.

Selectable Digital Touchscreen Buttons

Top Section

- Camera Brand Button: [Canon, Fuji, Lumix, Nikon, Sony, Olympus]
- SYNC Function Button: [High-speed Sync (HSS), Front Curtain Sync, Rear Curtain Sync]

Middle Section

- TTL Exposure: [+3.0] | M Exposure: [1.0 ~ 9.0]

Lower Section

- MODE Function Button: [Manual (M), TTL]
- ZOOM Button: [Automatic (ZOOM A), Beam Spread Range Icon (Wide to Narrow)]
- Modeling Lamp Button: [OFF, AUTO, 1-3]

Screen Controls

- Up Arrow
- OK Button
- Down Arrow

Auto-focus (AF) Assist Beam

The FJ80 Speedlight is equipped with an integrated AF Assist Beam that works with various camera models. Review your camera's owner's manual and familiarize yourself with the settings that need to be adjusted in order to take advantage of this feature with your camera.

NOTE: The Auto-focus (AF) Assist Beam

FJ80 Speedlight: HOST Wireless Operation

Enable HOST Mode

1. Quick press the physical **Home** button to return to the Main Menu on the display.
2. Quick press the digital blue **HOST** button on the Main Menu to enter **HOST** Mode.
3. Adjust the touchscreen settings using one of the following methods:
 - a. *Method 1:* Press the desired setting's digital button repeatedly until the desired setting is visible on the button and/ or touchscreen.
 - b. *Method 2:* Quick-press the desired setting's digital button to highlight the selection and use the up-and-down arrows to change the settings. Press **OK** to confirm the selection.

Group SLP (Sleep) Mode [HOST]

FJ Wireless Flashes can be placed into **SLP** (sleep) mode from any FJ transmitter disabling the unit's ability to flash while other flash groups continue operating normally.

1. Determine the Group [A-F] that the CLIENT FJ Wireless Flash Device is assigned to.
2. Press the corresponding FJ80's MODE Function icon continuously until **SLP** (sleep) appears on the display. Note that any flash units assigned to this Group will also enter into **SLP** mode.
3. Exit the **SLP** mode by continually pressing the corresponding FJ80's MODE Function icon until the screen displays **TTL** or **M**.

NOTE: It's important that the Exposure Mode type is updated from the HOST FJ80, otherwise, the CLIENT flash unit(s) will re-enter SLP mode once the HOST FJ80 transmits the next signal to the CLIENT devices.

Selectable Digital Touchscreen Buttons

Top Section

- Camera Brand Button: [Canon, Fuji, Lumix, Nikon, Sony, Olympus]
- Channel Button (CH): [01-31]
- Group Button (GR): Fixed; The FJ80 will default and remain in Group A when **HOST** mode is enabled.

Middle Section

- Group Selections: [A-F]
- MODE Function Button: [Manual (M), TTL, SLP]
- TTL Exposure: [+3.0] | M Exposure: [1.0 ~ 9.0]

- Modeling Lamp Control Button: [OFF [0] - [3]]
 - NOTE: The Modeling Lamp Control Button for each group serves two functions for assigned **HOST** and **CLIENT** units;
 - a) Adjusting the output settings Minimum [1] ~ Maximum [3] will control the **HOST** FJ80's modeling lamp brightness.
 - b) Modeling lamps of FJ **CLIENT** flash/strobe units assigned to the same Group(s) as the **HOST** FJ80 can also be controlled via this control button. However, the modeling lamp output of **CLIENT** units is static, meaning the light output can only be set to OFF [0] or ON [1~3].

Lower Section

- SYNC Function Button: [High-speed Sync (HSS), Front Curtain Sync, Rear Curtain Sync]
- ZOOM Button: [Automatic (ZOOM A), Beam Spread Range Icon (Wide to Narrow)]
- **HOST** Sleep: [Enable/Disable] (Setting disables the on-camera FJ80 from firing when the shutter release is pressed)

Screen Controls

- Up Arrow
- OK Button
- Down Arrow

FJ80 Speedlight: CLIENT Wireless Operation

Enable CLIENT Mode

1. Quick press the physical **Home** button to return to the Main Menu on the display.
2. Quick press the digital **CLIENT** button on the Main Menu to enter **HOST** Mode.
3. Adjust the touchscreen settings using one of the following methods:
 - a. *Method 1:* Press the desired setting's digital button repeatedly until the desired setting is visible on the button and/ or touchscreen.
 - b. *Method 2:* Quick-press the desired setting's digital button to highlight the selection and use the up-and-down arrows to change the settings. Press **OK** to confirm the selection.

Group SLP (Sleep) Mode [CLIENT]

FJ Wireless Flashes can be placed into **SLP** (sleep) mode from any FJ transmitter disabling the unit's ability to flash while other flash groups continue operating normally.

1. Determine the Group [A-F] that the FJ Wireless Flash Device is assigned to.
2. Press the corresponding FJ-X2m's Group Selection Button or the HOST FJ80's MODE Function icon continuously until **SLP** (sleep) appears on the transmitter and flash next to the Group. Note that any flash units assigned to this Group will also enter into **SLP** mode.

3. Exit the **SLP** mode by continually pressing the corresponding FJ-X2m's Group Selection Button or FJ80's MODE Function icon [HOST mode] until the screen displays **TTL** or **M**.

NOTE: It's important that the Exposure Mode type is updated from the transmitter, otherwise, the flash unit(s) will re-enter SLP mode when the next transmission signal is received from an FJ transmitter.

Selectable Digital Touchscreen Buttons

Top Section

- Wireless Button: Fixed; The FJ80 will default and remain in TTL-ALL Wireless Mode when the **CLIENT** Mode is enabled.
- Channel Button (CH): [01-31]
- Group Button (GR): [A, B, C, D, E, F, G, H, I, J, L, O, P, Q, S, U]

Middle Section

- TTL Exposure: [+3.0] | M Exposure: [1.0 ~ 9.0]

Lower Section

- MODE Function Button: [Manual (M), TTL]
- ZOOM Button: [Beam Spread Range Icon (Wide to Narrow)]
- Modeling Lamp Button: [OFF, AUTO, 1-3]

Screen Controls

- Up Arrow
- OK Button
- Down Arrow

Full-stop Increments in Manual Mode with the FJ-X2m

While a Group's power setting is highlighted green on the FJ-X2m, long-press the square with the power setting and allow full stop adjustments via the scroll wheel.

FJ80: Remote ZOOM Control

Remote ZOOM Control [Single Group]

1. Long-press the left **Menu Selection Button** [Camera] on the FJ-X2m Wireless Flash Trigger to enter the ZOOM menu.
2. Scroll the FJ-X2m **Selection Wheel** to locate the group for which the ZOOM needs adjusting.
3. Quick press the FJ-X2m **Selection Wheel** to adjust the FJ80 ZOOM setting [0-5].
4. Scroll the **Selection Wheel** to adjust the FJ80 ZOOM settings.
5. Quick press the FJ-X2m **Selection Wheel** to confirm the FJ80 ZOOM selection.

6. Long-press the left **Menu Selection Button** [Camera] on the FJ-X2m Wireless Flash Trigger to return to the Main Menu.

Remote ZOOM Control [All Groups]

1. Long-press the left **Menu Selection Button** [Camera] on the FJ-X2m Wireless Flash Trigger to enter the ZOOM menu.
2. Ensure the **Selectable Menu Items** on the FJ-X2m screen read [Camera, CH, SYNC]
3. Long-press the middle **Menu Selection Button** [CH] to highlight all groups [A-F].
4. Quick press the FJ-X2m **Selection Wheel** to adjust the FJ80 ZOOM settings [0-5] for all groups.
5. Scroll the **Selection Wheel** to adjust the FJ80 ZOOM settings.
6. Quick press the FJ-X2m **Selection Wheel** to confirm the FJ80 ZOOM selections.
7. Long-press the left **Menu Selection Button** [Camera] on the FJ-X2m Wireless Flash Trigger to return to the Main Menu.

FJ80: Settings Menu

Enter SETTINGS Menu

1. Quick press the physical **Home** button to return to the Main Menu on the display.
2. Quick press the digital **Settings** button on the Main Menu to enter Settings Menu.
3. Navigate the **Settings** menu by quickly pressing the button next to the setting that needs to be changed. The button will turn white, signaling that the setting can be changed.
4. Adjust the touchscreen settings using one of the following methods:
 - a. *Method 1:* Press the desired setting's digital button repeatedly until the desired setting is visible on the button and/ or touchscreen.
 - b. *Method 2:* Quick-press the desired setting's digital button to highlight the selection and use the up-and-down arrows to change the settings. Press **OK** to confirm the selection.
5. Quick press the physical **Home** button to return to the Main Menu on the touchscreen.

Settings Menu 1: Selectable Digital Touchscreen Buttons

- **Screen** Options: [(Minimum Brightness (1) ~ Maximum Brightness (5))]
- **Auto-Off** Options: [20 minutes, 1.5 hours]
- **SYNC-X** Options: [ON, OFF]
- **Beep** Options: [ON, OFF]
- **RT ID#** Options: [OFF, ON] [00-99]
- **Factory Reset** Option: Press to highlight button and press **OK**.

NOTE: **Beep** [ON/OFF] controls the recycle time's audible beep notification for FJ200 and FJ400 units being controlled via an FJ80 in HOST mode. The FJ80 is not equipped with an audible speaker.

Settings Menu 2: Camera Brand Control Selections

While on the main Settings Menu screen, quick-press the **UP** or **DOWN** arrows to locate the additional Settings Menu. These menu options control which camera brands will be selectable on the HOST and SPEEDLIGHT control screens. Quick press the ON/OFF touchscreen buttons next to the desired camera brands to add or remove a brand from the Channel Brand Selection menu on the control screens

- Canon [ON/OFF]
- Nikon [ON/OFF]
- Sony [ON/OFF]
- Fuji [ON/OFF]
- Olympus [ON/OFF]
- Lumix [ON/OFF]

FJ80 Battery: Performance and Care

FJ80 Battery Performance

The FJ80 Lithium-Polymer Battery (11.1V 11.1Wh, 1000mAh) is capable of 400+ full-power flashes with the modeling lamp disabled and screen brightness set to Minimum Brightness (1).

FJ80 Charging & Life Expectancy

The average charge time is ~2 hours from complete discharge. The FJ80 Lithium-Polymer Battery (11.1V 11.1Wh, 1000mAh) will achieve at least 300 full charge cycles (@80% after 300). Continued usage beyond the expected charge cycles will result in diminished performance and the ability to hold a charge. Avoid charging and using the battery outside of the stated operating temperatures (14~122°F / -10~50°C) as it will affect the overall performance of the battery and speedlight. Preserve the battery's longevity by storing at roughly ~75% capacity (3 indicator lights) at room temperature in a dry environment and recharge to this capacity at least every three months when not being used.

FJ80 Speedlight: Technical Specifications

| FJ80: Speedlight | |
|-----------------------------|---------------------------|
| Maximum Power (Ws) | 80 Ws |
| Energy Range (Power Output) | 9 f-stop (0.3Ws to 80 Ws) |
| Flash Duration (t0.1) | Normal: 1/250-3300s |
| Flash Duration (t0.5) | Normal: 1/800-1/10000s |
| Recycle Time | .05s - 1.2s (DC Battery) |

| | |
|-----------------------------------|---|
| Color Temperature Stability | Normal/TTL/HSS: 5500K±150 |
| Mounting System | FJ80 Magnetic Mount |
| Auto Multi-Voltage | Yes |
| Flash Increments | 0.1-stop; 1.0-stop |
| Flash Modes | Manual / TTL |
| Continuous Capture | 20 fps (Camera Model & Speedlight Settings Dependent) |
| IGBT | Yes |
| Flash Exposure Compensation (FEC) | ±3 |
| Modeling Lamp (Output) | LED 3 Watts (5600K ±200K) |
| Flash Tube | Ω; 180° Beam Angle |
| Sync Functions | Normal, HSS |
| Sync Speed | Normal: 1/250s HSS: 1/8000s |
| Wireless Radio Frequency | 2.4GHz |
| Wireless Channels | 01-31 |
| Wireless Groups | 15 [A, B, C, D, E, F, G, H, I, J, L, O, P, Q, S, U] |
| Wireless Range | 328' (100m) |
| Power Source | FJ80 Battery |
| Battery Type | Lithium Polymer |
| Battery Capacity | 11.1Wh, 1000mAh |
| Voltage | 11.1V |
| Charger Voltage | 12.6V |
| Continuous Discharge Current | 10A |
| Charge Current | ≤ 1.5A |
| Charge Temperature | 50° to 113° F / 10° to 45° C |
| Discharge Temperature | 14° to 122° F / -10° to 50° C |
| Flashes Per Charge | 400+ at Full Power |
| Recharge Time | ~2 hours |
| Battery Charge Cycles | 300 (@80% after 300) |
| FJ80: General | |

| | |
|--|---|
| Display | LCD Touchscreen Color Display |
| Mount | Hot Shoe |
| Auto-Dump | Yes |
| Cooling | Passive |
| Voltage Stabilization | Yes |
| Firmware Port Type | USB-C (Firmware) |
| Auto Memory Recall | Yes |
| Test Button | Yes |
| Auto-Power Off | Yes |
| Audible Beep Control | Yes; Controls audible beep of FJ400 & FJ200 units only |
| Optical Slave | N/A |
| FJ80: Dimensions & Weight | |
| Weight (FJ80 with Battery & Reflector) | 1.20 lbs (0.54g) |
| Length | 8.4 in (21.3cm) |
| Height | 3.2 in (8.1cm) |
| Operating Temp | 14° ~ 122°F / -10° ~ 50°C |

NOTE: Speedlight performance, available features, and menu items are subject to change without notice with future firmware updates or physical product changes during manufacturing.

Warranty Information

Westcott's warranty obligations for this product are limited to the following terms.

The F.J. Westcott Co. ("Westcott") warrants this Westcott branded product against defects in materials and workmanship under normal use for a period of **ONE (1) YEAR** from the date of retail purchase from Westcott or an authorized retailer by the original end-user purchaser ("Warranty Period"). If a defect arises and a valid claim is received within the Warranty Period, at its option and to the extent permitted by law, Westcott will either (1) repair the defect at no charge, using new or refurbished replacement parts, or (2) exchange the product with a product that is new or which has been manufactured from new or serviceable used parts and is at least functionally equivalent to the original product. This Limited Warranty applies only to products manufactured by or for Westcott that can be identified by the Westcott trademark, trade name, or logo affixed to them.

This warranty does not apply to; (a) damage caused by accident, abuse, misuse, flood, fire, earthquake, mold, or other external causes; (b) damage caused by operating the product outside the permitted or intended uses described by Westcott; (c) a product or part that has been modified to alter functionality or

capability without the written permission of Westcott; or (d) cosmetic damage, including but not limited to scratches, dents, and broken plastic.

Disclaimer: By purchasing, borrowing, and/or using this product for any event, both public or private, you, the customer, accepts all responsibility and releases Westcott, and its associates, of any and all liability in the event of manufacturer's defect, malfunction or misuse of the product which may lead to further injuries or complications unforeseen by the user. Westcott is not responsible for any potential or incurred damage caused by failure to properly mount, hang, or store the product, which includes, but is not limited to damage to cameras, electronics, electrical equipment, buildings, building materials, personal injury, death, or disability, fire damage, or any and all other damage not mentioned previously.

Please contact Westcott's Repair Department for a Return Authorization Number "RMA" prior to requesting warranty service. This RMA must be clearly written on the outside of the box to the left of the shipping label. Items sent in without pre-authorization or that do not fall under the limited warranty will be returned at the expense of the sender.

Repair Department: 800-886-1689 / 419-243-7311 (International)

Email: service@fjwestcott.com

Shipping: F.J. Westcott Co, 1425-B Holland Rd. Maumee, OH 43537

Legal Information

Westcott products are made to the company's traditionally high standards of quality and comply with all applicable government safety regulations and requirements. In an effort to provide the best quality products possible, we periodically make product modifications. Actual products may not be identical to the items pictured. Future firmware updates may result in performance enhancements, removal of features to achieve optimal performance, and modified menu options and layouts.

Made in the USA. ©F.J. Westcott Co. All rights reserved.