

Core Selling Point: The first adapter system to natively integrate with camera AI autofocus.

The NexusFocus adapter ring serves as the control hub of the camera system. It enables manual lenses to perform autofocus while also controlling lens settings and recording lens data.

Core feature:

1. The adapter ring enables manual focus lenses to perform autofocus via the camera's native Phase Detection Auto Focus (PDAF).
2. You can control the lens focus, aperture, and zoom directly from the camera interface.
3. It achieves precise autofocus while avoiding parallax issues common in LiDAR-based solutions.
4. Provides three-channel control of focus, aperture, and zoom.
5. Use the app to automatically calibrate autofocus settings.

Overview

About the Product

- The NexusFocus AI Autofocus Adapter (PL-E) drives motors through the camera's recognition and feedback, independently adjusting focus and aperture on manual lenses. This enables automatic operation, allowing small film crews or solo operators to achieve precise control without extra personnel, streamlining shooting and reducing workload.
- Unlike common LiDAR solutions, the Viltrox NexusFocus adapter leverages the camera's native autofocus system to drive lens focus and aperture adjustments. With built-in calibration data, no extra setup is required.
- This system works seamlessly with the camera's built-in eye/face autofocus and AI subject recognition, providing a faster and more efficient focusing experience. Sony devices with an AI processing unit are recommended.
- The NexusFocus adapter requires a follow focus motor and an external power supply.

Additional Features

- Backlit display shows current lens data and menu interactions.
- The adapter ring ensures accurate infinity focus.
- A dust-resistant seal is provided at the camera mount end of the adapter.
- Unique handle on the adapter ring for easy lens locking and release.
- Detachable tripod mount for flexible support.
- Internal threaded surface to reduce reflections and glare.
- Durable aluminum alloy and stainless steel construction.
- Precision mount design ensures perfect alignment with camera and lens.
- Rotating lock mechanism prevents looseness caused by lens wear over time.

Specifications

Brand	Viltrox
Mode	NexusFocus F1
Compatible Lens	PL-mount Cine lens or CineMod PL-mount lens
Compatible Camera	Sony E-mount camera
Tripod Slot	CU1/4" ×1
Firmware Update	Bluetooth App Upgrade <i>(Powered via the bottom of the adapter)</i>
Dimensions	Adapter: 95 x 49.4 x 104.3mm Motor: 103.7 x 36.4 x 60.5mm Power Box: 78.1 x 14.8 x 43.5mm
Weight	Adapter: 262g Motor: 146.5g Power Box: 62g
Package Contents	Adapter*1、Motor*2 Power Box Type-C Cable*3 B-C Cable*1 Hex Wrench (2.5)*1、Hex Wrench (3.0)*1 Torx 5 Screwdriver*1 F1-MT Motor Gear*2 Warranty Card*1、Focus Testing Card*1

Sony Models with Built-in AI Processing Unit

-  Full Frame

Alpha 1 II

Alpha 9 III

Alpha 7R V

Alpha 7C II、Alpha 7CR

ZV-E1

FX2

-  APS-C Frame

Alpha 6700

ZV-E10 M2

Key Benefits:

1. Supports Sony camera hybrid autofocus, with focus transition speed and AF response adjustable via the camera settings.
2. Allows adjustment of focus, aperture, focal length, and zoom speed directly through the camera.
3. You can use the APP (iOS) to automatically calibrate lenses, preview adjustments in real time, and directly control lens parameters.
4. You can use the APP (iOS) to group lenses, save calibration presets, and instantly apply them to adapter rings for real-time adjustments.
5. Motors support selectable functions with adjustable rotation direction, delivering strong torque and fast response.
6. Supports storing calibration data for hundreds of lenses, allowing quick and convenient selection.

Motor Functions:

Each motor has four letter markings on its side. When the red indicator light next to a letter is on, the motor is set to that function: 

- F (Focus)
- I (Iris)
- Z (Zoom)
- O (Other), for example, adjusting variable ND filters, CPL, etc.

Installation

Step-by-Step Instructions

1. ⬇ Mount the lens onto the adapter ring and lock it securely.



2. ⬇ Attach the quick release plate to the tripod collar or the camera body base.



3. ⬇ Secure the lens to the gimbal and rods.



4.  Mount the rods onto the tripod.



5.  Adjust the lens support bracket to ensure proper alignment.



6.  Mount the camera body onto the adapter system.



7.  Inspect and fasten the rods to ensure they are properly secured



8.  Install Motor① onto the rod securely.



9.  Power Motor① by using the included USB-C to D-Tap cable connected to a V-mount battery or stable power supply.

Set the motor's function by observing the indicator light: short-press the black button to switch functions.



10. ⬇ This is the Focus Ring Motor, ensure the red indicator next to F (Focus) stays on to confirm the function is set.



11. ⬇ Install Motor② and connect it to Motor① using the USB-C port cable.



12. ⬇ This is the Aperture Ring Motor, ensure the red indicator next to I (Iris) stays on to confirm the function is set.



13. ⬇ Connect Motor② to the adapter ring's USB-C port.



14. ⬇ Power on the camera and turn on the adapter ring by long-pressing the button on the upper side of the adapter ring.



15.  Short-press the button on the upper side, then navigate to SYSLIB > Lens Brand > Lens Series > Lens Model. Long-press the button again. When the lens model appears with a white background on the screen, the selection is complete.



Important Notes

- **Red indicator lights on all four letter markings are on :**

This indicates a motor function conflict. To resolve it, disconnect the communication cable between the adapter ring and the motor, then press the button on the motor to exit the conflict state. Press the motor button again to select the correct motor function.

- **Motor repeatedly calibrates during shooting**

Check that the USB power connection to the motor is secure.

Ensure the D-Tap cable is firmly connected to the battery.

- **Motor moves in the wrong direction**

Toggle the switch on the back of the motor and wait for it to complete automatic boundary calibration.

Verify whether the motor rotation direction is set correctly:

Set the camera to Manual (M) mode with manual focus.

After the Focus Motor boundary calibration, the motor should stop at infinity.

After the Aperture Motor calibration, the motor should stop at the minimum aperture.

After the Zoom Motor calibration, the motor should stop at the longest focal length.

If the motor does not stop at the correct position for its assigned function, the rotation direction is incorrect. Adjust it manually using the rotation direction switch on the back of the motor.