

Altura Photo AP-305N

Altura Photo AP-305N Speedlight Flash and RT-305 Wireless Trigger Instruction Manual

Model: AP-305N | Brand: Altura Photo

1. INTRODUCTION AND OVERVIEW

The Altura Photo AP-305N Speedlight Flash and RT-305 Wireless Trigger kit provides advanced lighting solutions for Nikon DSLR and Mirrorless cameras. This system is designed for versatility, offering both on-camera and off-camera flash capabilities to enhance your photography.

The AP-305N flash is compact and lightweight, yet delivers professional-grade power. It supports various modes including TTL, Manual, and Multi (Stroboscopic) to adapt to diverse lighting conditions. The integrated 2.4GHz wireless system facilitates multi-flash setups, allowing for creative and flexible lighting arrangements without direct line-of-sight.

The flash offers a wide range of coverage with a guide number of 36m/118 ft. at ISO 100, making it suitable for various photographic scenarios from portraits to events. It is compatible with a broad range of Nikon cameras, including D3500, D3400, D5600, D5500, D5300, D850, D780, D750, D7500, D7200, Z6, Z7, Z8, Z9, and Z50.



Figure 1.1: The Altura Photo AP-305N flash is designed to be 30% lighter and more compact than similar flashes, while maintaining comparable power output.

2. WHAT'S IN THE BOX

Your Altura Photo AP-305N Speedlight Flash and RT-305 Wireless Trigger kit includes the following components:

- One (1) Altura Photo AP-305N Speedlight Flash for Nikon
- One (1) Altura Photo RT-305 Manual Wireless Trigger
- One (1) Mini Stand
- One (1) Protective Pouch

3. SETUP

3.1 Attaching the Flash to Your Camera

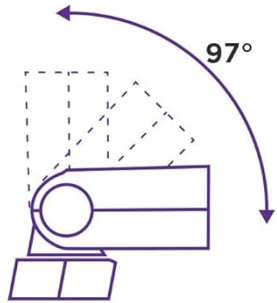
1. Ensure both your camera and the AP-305N flash are powered off.
2. Slide the flash onto your camera's hot shoe mount. Ensure the power level display screen and buttons on the flash

face the rear of the camera.

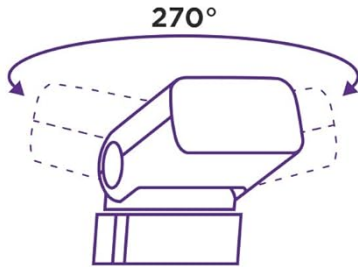
3. Rotate the locking ring on the flash clockwise until it is securely tightened. This prevents accidental detachment.
4. Power on your camera, then power on the flash.

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ON CAMERA FLASH FEATURES



SWIVEL & BOUNCE HEAD



2.4 GHZ	2.4GHZ WIRELESS TRANSCEIVER	TTL	TTL CAPABILITIES	H	HIGH SPEED SYNC 1/8000
MODES	TTL-MANUAL-MULTI	36 GN	GN 36 AT ISO 100FT	1 2	SENDER/RECEIVER
+	AUTO & MANUAL ZOOM (24-105MM)	3	3 CONTROLLABLE GROUPS & 16 CHANNELS	▶▶	FRONT & REAR CURTAIN SYNC

Figure 3.1: The AP-305N flash securely mounted on a Nikon camera's hot shoe, ready for use.

3.2 Attaching the RT-305 Trigger to Your Camera

1. Ensure both your camera and the RT-305 trigger are powered off.
2. Slide the RT-305 trigger onto your camera's hot shoe mount. Ensure the display and controls face the rear of the camera.
3. Rotate the locking ring on the trigger clockwise until it is securely tightened.
4. Power on your camera, then power on the trigger.

3.3 Battery Installation

The AP-305N flash is powered by two (2) AA batteries. Open the battery compartment, insert the batteries according to the polarity indicators, and close the compartment securely. The RT-305 trigger also uses batteries (typically AA, refer to trigger manual for specifics).



Figure 3.2: The AP-305N flash battery compartment for two AA batteries and the USB port for firmware updates.

4. OPERATING MODES

4.1 TTL (Through-The-Lens) Mode

In TTL mode, the camera and flash automatically determine the appropriate light output. The camera's built-in metering system and distance to the subject are used to calculate the necessary flash intensity, simplifying exposure settings. This mode is ideal for quick shooting and situations where lighting conditions change frequently.

4.2 Manual (M) Mode

Manual mode provides full control over the flash output. You can manually set the flash power from 1/1 (full power) down to 1/128 power in precise increments. This mode is preferred by experienced photographers who require consistent and precise lighting control for studio work or specific creative effects.

4.3 Multi (Stroboscopic) Mode

Multi-stroboscopic mode allows the flash to fire multiple times during a single exposure. This creates a series of images of a moving subject within one frame, capturing successive movements. You can adjust the flash frequency and number of flashes to achieve various motion effects.

5. WIRELESS FUNCTIONALITY

5.1 2.4GHz Wireless Transceiver

Both the AP-305N flash and the RT-305 trigger feature a built-in 2.4GHz wireless radio system. This allows for advanced wireless multi-flash lighting setups, enabling the flash units to communicate without requiring visual proximity. The AP-305N can act as either a transmitter or a receiver.

5.2 Controllable Groups and Channels

The system supports 3 controllable groups and 16 selectable channels. This allows you to manage multiple flash units (up to 8 flashes per group) independently, creating complex lighting setups and quickly switching between them. The 16 channels help prevent interference when multiple photographers are working in the same area.



altura PHOTO® **EVENT READY** SENDER/RECEIVER LIGHTING SYSTEM



Figure 5.1: Example of a multi-flash setup using the Altura Photo AP-305N flashes and RT-305 trigger for creative lighting.

5.3 RT-305 Manual Wireless Trigger

The RT-305 manual wireless trigger is designed to mount directly onto your camera's hot shoe. It allows you to wirelessly control the power of your off-camera AP-305N flashes. When using the RT-305 trigger, High-Speed Sync (HSS) and TTL modes are not supported; the flash sync speed will work up to 1/250s, and your camera must be set to manual mode.

5.4 Power Control (8 Steps)

The RT-305 trigger provides wireless power control over your AP-305N flashes, allowing adjustments from 1/1 full power to 1/128 power in 22 steps (8 stops). This feature enables precise lighting adjustments without needing to physically access each flash unit, streamlining your workflow.

6. OTHER FEATURES

6.1 High-Speed Sync (HSS)

When the AP-305N flash is mounted directly on your camera, it supports High-Speed Sync (HSS) up to 1/8000th of a second. This allows you to use faster shutter speeds than your camera's native flash sync speed, which is useful for freezing

fast action or overpowering ambient light in bright conditions. To activate HSS, press the Sync button on the flash.

6.2 Auto and Manual Zoom (24-105mm)

The AP-305N flash head features both auto and manual zoom capabilities, covering a focal length range from 24mm to 105mm. Flash zoom controls how wide the flash light spreads, allowing you to match the flash coverage to your lens's focal length for optimal illumination.

6.3 Swivel and Bounce Head

The flash head offers versatile movement, allowing it to tilt from -7 to 90 degrees and rotate 270 degrees. This swivel and bounce functionality enables you to direct the flash light off ceilings or walls, creating softer, more natural-looking illumination by diffusing harsh shadows.

6.4 Catchlight Panel and Diffuser

The AP-305N includes a built-in catchlight panel and a diffuser. The catchlight panel can be extended to add a sparkle to your subject's eyes, enhancing depth and dimension. The diffuser helps to soften and spread the flash light more evenly, reducing harshness and creating a more flattering light.

6.5 USB Port for Firmware Updates

A USB port is integrated into the flash unit, allowing for convenient firmware updates. This ensures your flash remains compatible with new camera models and benefits from performance improvements or new features released by Altura Photo.

6.6 Locking Ring

The secure locking ring mechanism ensures that the flash or trigger remains firmly attached to your camera's hot shoe, preventing accidental dislodgement during use.

7. SPECIFICATIONS

Feature	Specification
Model Number	AP-305N
Guide Number	36m / 118 ft. (at ISO 100)
Wireless Frequency	2.4GHz
Flash Sync Speed (On-Camera)	Up to 1/8000s (HSS)
Flash Sync Speed (with RT-305 Trigger)	Up to 1/250s
Controllable Groups	3
Channels	16
Zoom Range	24-105mm (Auto/Manual)
Power Source	2x AA Batteries
Product Dimensions	7 x 3.5 x 3.5 inches
Item Weight	12 ounces
Compatible Mountings	Nikon

8. TROUBLESHOOTING

If you encounter issues with your Altura Photo AP-305N flash or RT-305 trigger, consider the following:

- **Flash Not Firing:** Check battery levels in both the flash and camera. Ensure the flash is securely mounted and powered on. Verify that the camera's flash settings are correctly configured (e.g., not in silent mode or a mode that disables flash).
- **Wireless Trigger Issues:** Ensure both the trigger and flash are on the same channel and group. Check battery levels in the trigger. Confirm the camera is in Manual mode when using the RT-305 trigger, as TTL and HSS are not supported in this configuration.
- **Incorrect Exposure:** In TTL mode, ensure your camera's metering mode is appropriate for the scene. In Manual mode, adjust flash power settings on the flash or trigger. Consider using the diffuser for softer light.
- **Slow Recycle Time:** This often indicates low battery power. Replace or recharge batteries.
- **Flash Not Syncing at High Shutter Speeds:** If using the flash on-camera, ensure HSS is activated. If using the RT-305 trigger, remember that HSS is not supported, and the maximum sync speed is 1/250s.

9. MAINTENANCE

To ensure the longevity and optimal performance of your Altura Photo flash and trigger, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the flash and trigger. For optical surfaces (flash tube, sensors), use a lens cleaning cloth and solution. Avoid abrasive materials or harsh chemicals.
- **Battery Care:** Remove batteries if the units will not be used for an extended period to prevent leakage. Use high-quality, fresh batteries for best performance. Rechargeable batteries are recommended for frequent use.
- **Storage:** Store the flash and trigger in their protective pouch in a cool, dry place away from direct sunlight and extreme temperatures.
- **Firmware:** Periodically check the Altura Photo website for any available firmware updates for your AP-305N flash to ensure compatibility and access to the latest features.

10. WARRANTY AND SUPPORT

For warranty information, product support, or service inquiries, please refer to the official Altura Photo website or contact their customer service directly. Keep your proof of purchase for warranty claims.

11. PRODUCT VIDEO OVERVIEW

Video 11.1: An official overview video demonstrating the features and functionality of the Altura Photo AP-305N Camera Flash Light for Nikon, including setup and various modes.