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Hanpusen TR-90

HANPUSEN TR-90 Timer Remote Shutter Release Intervalometer for Canon Cameras

Model: TR-90 | Brand: Hanpusen

1. Introduction and Overview

This manual provides instructions for the HANPUSEN TR-90 Timer Remote Shutter Release Intervalometer, designed for use with compatible Canon EOS cameras. It covers setup, operation, and maintenance to ensure optimal performance for various photography techniques, including long exposure and time-lapse. The TR-90 offers precise control over your camera's shutter, enabling delay shooting, bulb mode for long exposures, interval timing for time-lapse sequences, and exposure count control. This wired remote helps minimize camera shake, which is crucial for sharp images, especially in low-light or long-exposure scenarios.

2. Product Features

- **Timer Remote Shutter:** Functions include Delay shooting/Self-timer, Bulb shooting/Long exposure timer, Interval timer, and Exposure count control. Supports electric sound speaker and shutter release active lamp.
- **Anti-Shake for Long Exposure:** Wired remote control helps eliminate vibration caused by manually pressing the camera shutter button, particularly beneficial for Bulb shooting.
- **Intervalometer Program:** Time delay and exposure time can be set from 0 seconds to 99 hours, 59 minutes, 59 seconds in one-second increments. Interval can be set from 1 second to 99 hours, 59 minutes, 59 seconds in one-second increments. Number of shots can be set from 1 to 399, or unlimited.
- **Versatile for Long-Time Photography:** The intervalometer function is suitable for various applications such as night sky photography, solar eclipse events, macro photography, fireworks displays, and starry sky shots.
- **Wide Compatibility:** Replaces Canon TC-80N3. Compatible with Canon EOS R5, EOS R3, EOS R5 C, 10D, EOS 6D Mark II, 1D X Mark III, 1D X Mark II, 1D X, 1D C, 1DS Mark III, 1DS Mark II, 1Ds, 1D Mark IV, 1D Mark III, 1D Mark II N, 1D Mark II, 1D, 5D Mark II, 5D Mark III, 5D Mark IV, 5DS, 5DS R, 5D, 6D, 7D, 7D Mark II, 50D, 40D, 30D, 20D, D2000, D60, D30, EOS-1V, EOS-3.

3. Setup

3.1 Battery Installation

The HANPUSEN TR-90 requires two AAA batteries for operation. To install or replace batteries:

1. Locate the battery compartment cover on the back of the remote.

2. Slide the cover open.
3. Insert two AAA batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.



Figure 1: Remote dimensions and battery compartment location. Note: Batteries are not included.

3.2 Connecting to Your Camera

To connect the TR-90 to your Canon camera:

1. Locate the remote control terminal on your Canon camera. This is typically a small port on the side of the camera body.
2. Carefully insert the C8 connector cable from the TR-90 into the camera's remote terminal. Ensure the connector is fully seated.
3. Turn on your camera. The remote's display should illuminate, indicating a successful connection.



Figure 2: The C8 connector for Canon cameras, ensuring proper fit into the camera's remote port.

4. Operating Instructions

4.1 Basic Shutter Release

For simple photo capture without timer functions:

1. Press the large circular shutter release button halfway down to activate autofocus.
2. Press the button fully down to trigger the camera's shutter and capture a photo.



Figure 3: Functions of the shutter release button, including autofocus and various shooting modes.

4.2 Setting Timer Functions

The TR-90 features a digital display and control buttons for setting various timer parameters:

- **Power Button:** Located at the top right, press and hold to turn the remote on/off.
- **SET Button:** Used to enter and confirm settings.
- **Selector Buttons (Up/Down/Left/Right):** Navigate through menu options and adjust values.
- **Illuminator/Lock Button:** Activates the backlight for the LCD display or locks the controls.
- **TIMER START/STOP Button:** Initiates or stops the programmed timer sequence.

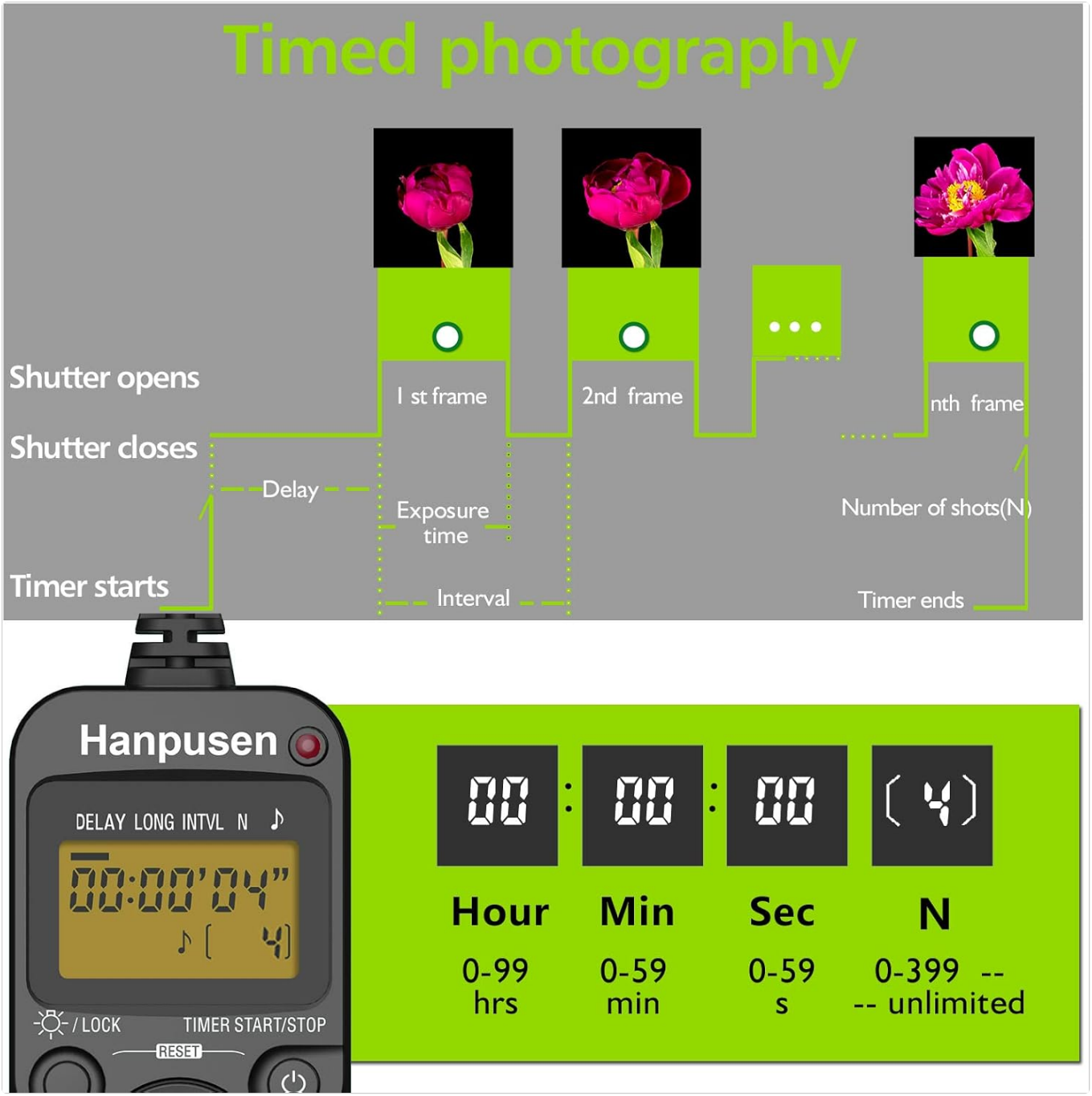

Figure 4: Overview of the remote control's buttons and display panel.

To program a timed sequence:

1. Press the **SET** button to enter the setting mode.
2. Use the left/right selector buttons to navigate between parameters: **DELAY** (delay before first shot), **LONG** (exposure time for each shot), **INTVL** (interval between shots), and **N** (number of shots).
3. Use the up/down selector buttons to adjust the values for each parameter. Values can be set from 0 seconds to 99 hours, 59 minutes, 59 seconds. For 'N', you can select 1 to 399 shots or '--' for unlimited.
4. After setting all desired parameters, press the **SET** button again to exit the setting mode.
5. Press the **TIMER START/STOP** button to begin the programmed sequence. The remote will display a countdown and trigger the camera according to your settings.



Figure 5: Visual representation of how timed photography parameters (Delay, Long Exposure, Interval, N) interact.

4.3 Practical Applications

The TR-90 is ideal for various advanced photography techniques:

- **Time-Lapse Photography:** Capture sequences of events over extended periods, such as changing weather, blooming flowers, or moving clouds.
- **Long Exposure:** Achieve stunning effects in low light, capture light trails, or smooth out water.
- **Astro Photography:** Essential for capturing faint celestial objects or star trails without camera shake.
- **Macro Photography:** Ensure sharp focus and stability for extreme close-ups.



Figure 6: Examples of photography types enhanced by the TR-90, including solar eclipse, macro, fireworks, and night sky photography.

5. Maintenance

To ensure the longevity and optimal performance of your HANPUSEN TR-90:

- **Battery Replacement:** Replace AAA batteries when the low battery indicator appears on the display or if the remote fails to power on. Always use fresh, high-quality alkaline batteries.
- **Cleaning:** Wipe the remote with a soft, dry cloth. Do not use liquid cleaners or solvents.
- **Storage:** Store the remote in a cool, dry place away from direct sunlight and extreme temperatures. Remove batteries if storing for extended periods to prevent leakage.
- **Cable Care:** Avoid sharp bends or excessive pulling on the connection cable to prevent damage.

6. Troubleshooting

- **Remote not powering on:** Check if batteries are correctly inserted and fully charged. Replace batteries if necessary.
- **Camera not responding to remote:** Ensure the remote control cable is securely connected to both the remote and the camera. Verify that the camera is powered on and set to a compatible shooting mode (e.g., manual, bulb).
- **Timer sequence not starting:** Confirm that all timer parameters (DELAY, LONG, INTVL, N) are correctly set and that the

TIMER START/STOP button has been pressed.

- **Inaccurate timing:** Ensure the remote's internal clock is accurate. If issues persist, reset the remote by pressing the RESET button (if available) or removing and reinserting batteries.

7. Specifications

Feature	Detail
Product Dimensions	6.1 x 1.6 x 0.7 inches
Item Weight	5 ounces
Item Model Number	TR-90
Batteries	2 AAA batteries required (not included)
Special Feature	Backlit, Digital Display
Max Number of Supported Devices	1
Compatible Devices	Canon EOS R5, EOS R3, EOS R5 C, 10D, EOS 6D Mark II, 1D X Mark III, 1D X Mark II, 1D X, 1D C, 1DS Mark III, 1DS Mark II, 1Ds, 1D Mark IV, 1D Mark III, 1D Mark II N, 1D Mark II, 1D, 5D Mark II, 5D Mark III, 5D Mark IV, 5DS, 5DS R, 5D, 6D, 7D, 7D Mark II, 50D, 40D, 30D, 20D, D2000, D60, D30, EOS-1V, EOS-3

8. Warranty and Support

For warranty information or technical support, please refer to the documentation included with your product or contact HANPUSEN customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.

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