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› Kaiser 4214 Automatic Timer CPD 2 Instruction Manual

Kaiser 4214

Kaiser 4214 Automatic Timer CPD 2 Instruction Manual

Brand: Kaiser | **Model:** 4214

INTRODUCTION

The Kaiser 4214 Automatic Timer CPD 2 is a precision exposure and switching meter designed for photographic darkroom applications, specifically for black-and-white and color negatives and slides. This device offers both automatic and manual timing functions, coupled with selective or integral light metering capabilities, to ensure accurate and consistent photographic enlargements.

SAFETY INSTRUCTIONS

- Always ensure the device is disconnected from the power supply before cleaning or performing any maintenance.
- Do not expose the timer to moisture or extreme temperatures.
- Use only with compatible power sources and photographic enlargers.
- Keep out of reach of children.
- Do not attempt to open or repair the device yourself. Refer to qualified service personnel.

PRODUCT OVERVIEW

The Kaiser 4214 Automatic Timer CPD 2 consists of a main control unit and a separate measuring head. Key features include a 3-digit amber digital display for time, start/stop buttons, and step-up/step-down buttons for time adjustment.



Figure 1: The Kaiser 4214 Automatic Timer CPD 2 showing the main control unit with its digital display and buttons, and the connected measuring head with its silicon photo element.



Figure 2: A closer view of the Kaiser 4214 Automatic Timer CPD 2 control panel, highlighting the 3-digit amber digital display, start/stop/reset buttons, and time adjustment controls.

1. **Unpacking:** Carefully remove the timer and all accessories from the packaging.
2. **Placement:** Place the main control unit on a stable, flat surface in your darkroom.
3. **Connect Measuring Head:** Plug the cable of the separate measuring head into the designated port on the main unit.
4. **Power Connection:** Connect the timer's power cable to a suitable electrical outlet.
5. **Enlarger Connection:** Connect your photographic enlarger's power cable to the switched outlet on the timer unit. Refer to your enlarger's manual for specific connection requirements.

OPERATING INSTRUCTIONS

1. Power On/Off

Press the main power switch (if present) or plug in the unit to power it on. The digital display will illuminate.

2. Setting Time (Manual Operation)

- Use the **step-up** and **step-down** buttons (often marked with arrows) to adjust the desired exposure time.
- The time range for manual operation is 0.2 to 99.9 seconds.
- The display shows the set time.

3. Automatic Exposure Measurement

This feature allows for selective or integral light metering to determine the correct exposure time.

1. **Prepare Enlarger:** Place your negative in the enlarger and focus the image on the easel.
2. **Position Measuring Head:** Place the measuring head on the area of the print where you want to measure the light. For selective measurement, place it on a specific tone. For integral measurement, use the attachable collecting lens and position it to cover the entire image area.
3. **Initiate Measurement:** The timer will automatically calculate and display the required exposure time based on the light intensity detected by the silicon photo element.
4. The time range for automatic operation is 2.5 to 80 seconds.

4. Starting and Stopping Exposure

- Once the desired time is set (manual) or calculated (automatic), press the **Start** button.
- The enlarger lamp will illuminate, and the display will count down the time to zero.
- To interrupt an exposure, press the **Stop** button. The remaining time will be held.
- To resume, press **Start** again.
- To reset the timer to the initially set or calculated time, press the **Reset** button.

MAINTENANCE

- **Cleaning:** Wipe the exterior of the timer and measuring head with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in a dry, dust-free environment when not in use.
- **Cable Inspection:** Periodically check all cables for signs of wear or damage. Replace damaged cables immediately.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Timer does not power on.	No power supply; loose power cable.	Check power outlet and ensure power cable is securely connected.
Enlarger lamp does not turn on.	Enlarger not connected to timer; enlarger bulb faulty; timer not started.	Verify enlarger connection to timer. Check enlarger bulb. Press the Start button.
Inaccurate exposure times.	Measuring head incorrectly positioned; ambient light interference.	Ensure measuring head is correctly placed. Minimize ambient light during measurement.
Display shows error or erratic behavior.	Electrical interference; internal fault.	Disconnect from power for 30 seconds, then reconnect. If problem persists, contact support.

SPECIFICATIONS

- **Model:** Kaiser 4214 Automatic Timer CPD 2
- **Function:** Switching and exposure meter for SW and color negatives/slides
- **Measuring Head:** Separate, with color-corrected silicon photo element and attachable collecting lens
- **Display:** 3-digit, amber digital display
- **Time Range (Automatic):** 2.5 - 80 seconds
- **Time Range (Manual):** 0.2 - 99.9 seconds
- **Repeat Accuracy:** 0.1%
- **Switching Capacity:** 500 W
- **Dimensions (L x W x H):** Approx. 17 x 16 x 6 cm
- **Material:** Plastic
- **Color:** Black

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact Kaiser customer service. Keep your proof of purchase for warranty claims.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question