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DykbRadio Y4025

DykbRadio WiFi Clock ESP8266 User Manual

Model: Y4025

Introduction

This manual provides instructions for setting up and operating your DykbRadio WiFi Clock ESP8266. This digital LED dot matrix clock utilizes ESP8266 for network time synchronization, offering accurate time display.

Safety Information

- Ensure the power supply is 5V DC. Using an incorrect voltage may damage the device.
- Do not expose the clock to water or excessive humidity.
- Avoid dropping or subjecting the clock to strong impacts.
- Do not attempt to disassemble or repair the device yourself. Contact support if issues arise.

Package Contents

- DykbRadio WiFi Clock ESP8266
- USB Power Cable

Product Overview

The DykbRadio WiFi Clock is available in two sizes, featuring either an F1.9 (20x20mm) or F3.0 (32x32mm) LED dot matrix module. The large version measures approximately 144x40mm, and the small version measures approximately 96x26mm. Both models display time using a bright red LED matrix.

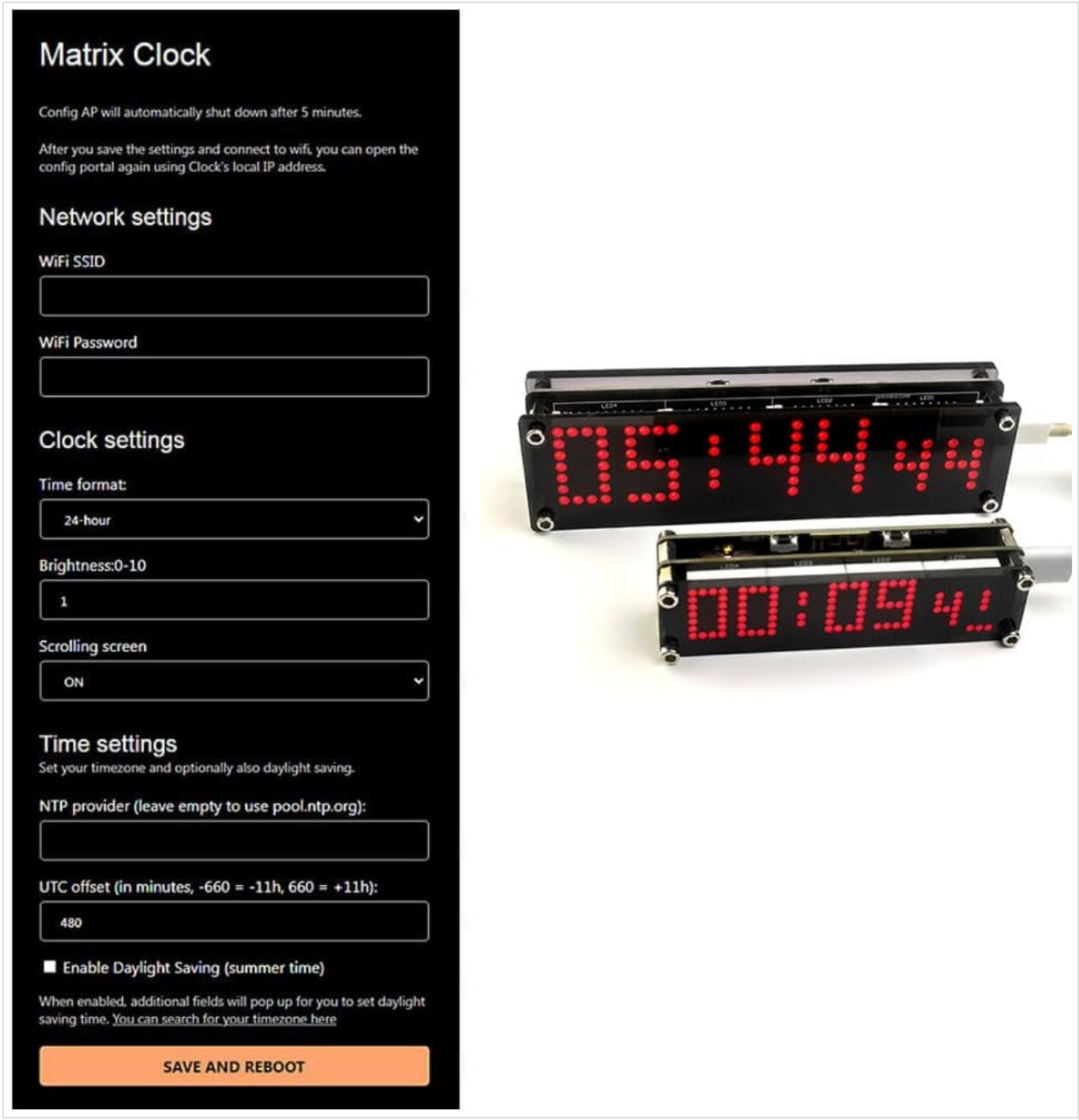


Image: Two DykbRadio WiFi Clocks, one large displaying 05:44:44 and one small displaying 00:09:40. Both are red LED dot matrix displays.

Setup Instructions

1. Powering the Device

The clock requires a 5V power supply. Use the provided USB cable to connect the clock to a compatible 5V USB power source, such as a mobile phone charger, computer USB port, TV USB port, or a power bank.
Important: *If the display appears abnormal or unstable, the power supply may be insufficient. Replace the power source with one that can provide adequate power.*

2. Initial WiFi Configuration

After powering on, the clock will broadcast a WiFi signal. Follow these steps to connect and configure:

1. On your mobile phone or computer, search for available WiFi networks.

2. Connect to the network beginning with "MatrixClock".
3. Once connected, open a web browser and enter **10.10.10.1** in the address bar to access the configuration page.
4. The configuration access point (AP) will automatically shut down after 5 minutes if no settings are saved.

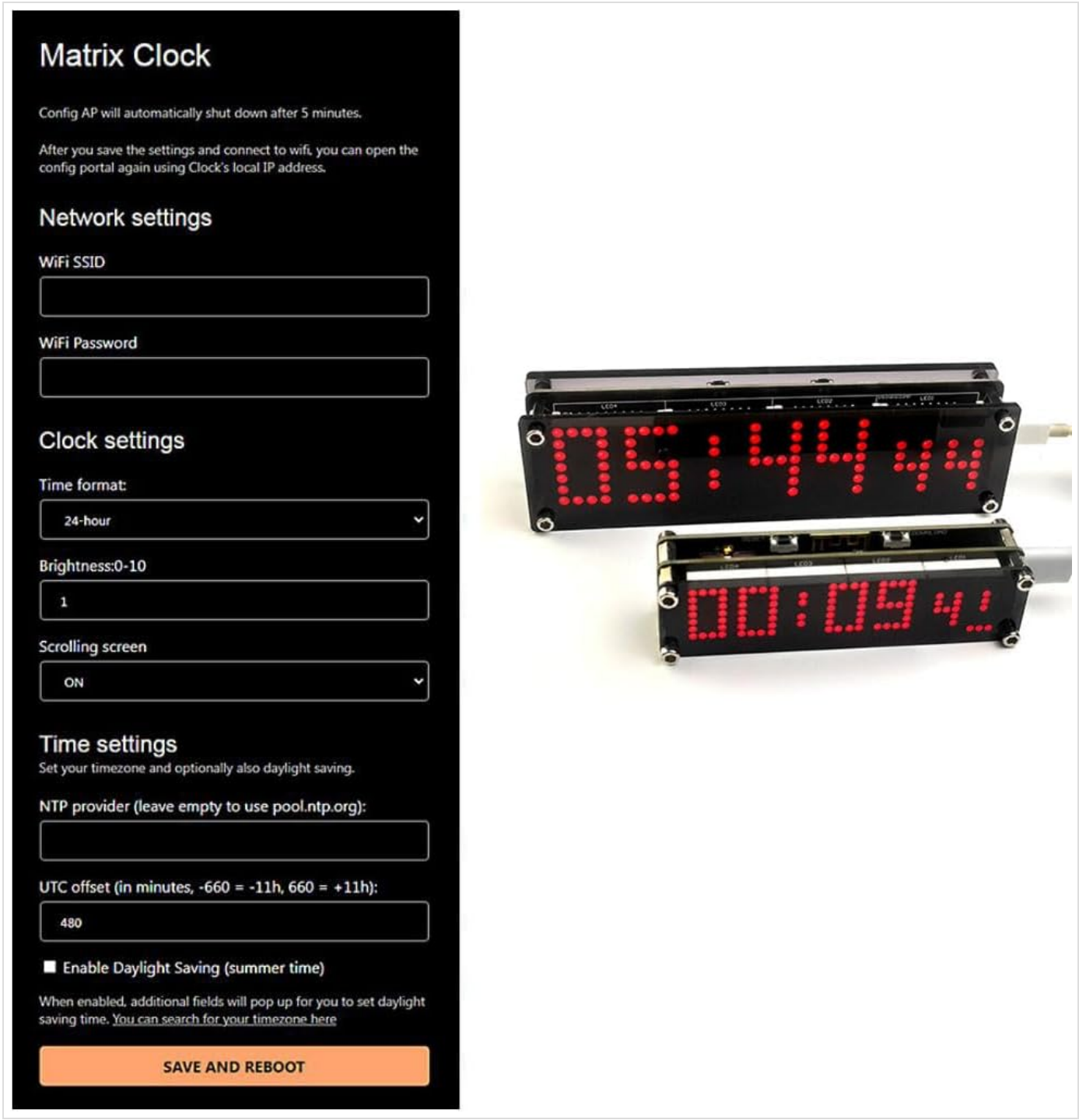


Image: Screenshot of the Matrix Clock configuration page, showing fields for WiFi SSID, WiFi Password, Time format, Brightness, Scrolling screen, NTP provider, UTC offset, and Enable Daylight Saving.

3. Network Settings

- **WiFi SSID:** Enter the name of your home or office WiFi network.
- **WiFi Password:** Enter the password for your WiFi network.

4. Clock Settings

- **Time format:** Select either 12-hour or 24-hour display.
- **Brightness:** Adjust the display brightness from 0 (dimmest) to 10 (brightest).

- **Scrolling screen:** Toggle the scrolling effect for the display (e.g., for alternating time and date).

5. Time Settings

- **NTP provider:** (Optional) Leave empty to use the default **pool.ntp.org**. You can specify a different NTP server if desired.
- **UTC offset (in minutes):** Enter your time zone's offset from Coordinated Universal Time (UTC) in minutes. For example, -660 minutes for -11 hours, or 660 minutes for +11 hours. For example, if you are in a timezone that is UTC-8, you would enter -480.
- **Enable Daylight Saving (summer time):** Check this box to enable Daylight Saving Time adjustments. Additional fields will appear to configure specific DST settings.

After configuring all settings, click the **SAVE AND REBOOT** button to apply changes and restart the clock.

Operating the Clock

Once configured, the clock will automatically connect to your WiFi network and synchronize its time with the specified NTP server. The time will be displayed according to your chosen format and brightness settings.
The clock features an accelerometer that detects its orientation, allowing it to adjust the display if mounted with the power cord on the left or right side.

Maintenance

- Clean the display with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Keep the clock away from direct sunlight and extreme temperatures to ensure longevity.

Troubleshooting

Display is abnormal or unstable:
Ensure the clock is receiving sufficient power. Try connecting it to a different 5V USB power source with higher current output.

Cannot find "MatrixClock" WiFi signal:
Ensure the clock is powered on. If it was previously configured, it might be connected to your home WiFi. Power cycle the clock to re-enter configuration mode.

Clock does not connect to my WiFi:
Verify that you have entered the correct WiFi SSID and password. Ensure your WiFi network is 2.4 GHz, as the clock may not support 5 GHz networks. Check your router settings.

Time is inaccurate or drifts:
Confirm your UTC offset is correctly set in the configuration page. Ensure the clock has a stable internet connection to reach the NTP server. Some users have reported minor time drift; regular synchronization with NTP servers is expected to correct this.

Display shows a leading zero for single-digit hours (e.g., 05:00 instead of 5:00):
This is a characteristic of the clock's firmware and cannot be changed through settings.

Numbers "scroll" or "pull downward" instead of changing instantly:
This is a display animation feature of the clock's firmware and cannot be changed through settings.

Specifications

Feature	Detail
Brand	DykbRadio
Model Number	Y4025
Display Type	LED Dot Matrix
Power Source	Electric (5V USB)
Connectivity	WiFi (ESP8266)
Large Size (Approx.)	144mm x 40mm (8"W x 1.5"H)
Small Size (Approx.)	96mm x 26mm
Color	Red (as per product variant)

Warranty and Support

For warranty information or technical support, please refer to the seller's policies or contact DykbRadio customer service through your purchase platform. Keep your purchase receipt for warranty claims.

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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.

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Question

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

Details

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