

# Luma Smart Mirror - User Manual

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# 1. Introduction

## 1.1 What is Luma?

Luma is a smart mirror that is designed to display useful information throughout your day without catching your attention.

Unlike traditional smart life-assistants, Luma is a display-only device designed to blend into your daily routine. You control everything using a TV remote control. Most TV remotes (all standard infrared (IR) TV remotes) are compatible.

## 1. 2 Key Features

**Hands-free operation:** Control with TV remote

**Real-time weather:** Accurate local conditions

**Calendar integration:** Google Calendar and Apple Calendar support.

**Task management:** Mark calendar items complete with the press of a button.

**Fully customizable:** Move elements anywhere on the screen.

**Multiple formats:** Chose 12/24 hour time, Celsius/Fahrenheit

**Brightness control:** Adjust the brightness up and down easily

## 2. What's in the Box?

Before you begin, make sure you have:

- Luma
- An IR TV remote control (with batteries)
- Power supply Cables (the for Raspberry Pi and Mirror)
- Mounting hardware (A stand and a wall mount)
- User manual

## 3. Installation and Setup

### 3.1 Physical Setup

#### 3.1.1 Mounting Options

Choose a location with WiFi access and a power outlet within 6 feet. Avoid direct sunlight to prevent glare.

**Option A: Countertop Stand**

1. Attach the included stand to the back of the unit.
2. Extend the stand feet fully to ensure stability.
3. Place on a flat, stable surface (e.g., dresser, desk).

### **Option B: Wall Mount**

1. Use the included wall mount bracket template to mark drill holes.
2. Install anchors into drywall or screw directly into studs.
3. Secure the bracket to the wall.
4. Carefully hang the Luma unit onto the bracket.

## **3.1.2 Hardware Connections**

1. **Identify Cables:** Locate the power cables for the Raspberry Pi and the Monitor.
2. **Connect Power:**
  - Plug the **Display Power Cable** into the monitor port on the back of the unit and into a wall outlet.
  - Plug the **Raspberry Pi Power Supply** into the USB-C port on the Raspberry Pi and into a wall outlet.
3. **Cable Management:** Ensure cables are tucked neatly behind the unit so they do not obstruct the mirror getting flush with the wall (if wall-mounting).

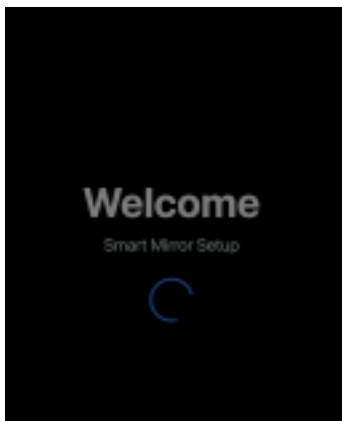
## **4. First-Time Configuration**

When you first power on Luma, you'll go through a setup process. This takes 5 to 10 minutes to complete. Have your TV remote ready.

### **Powering On**

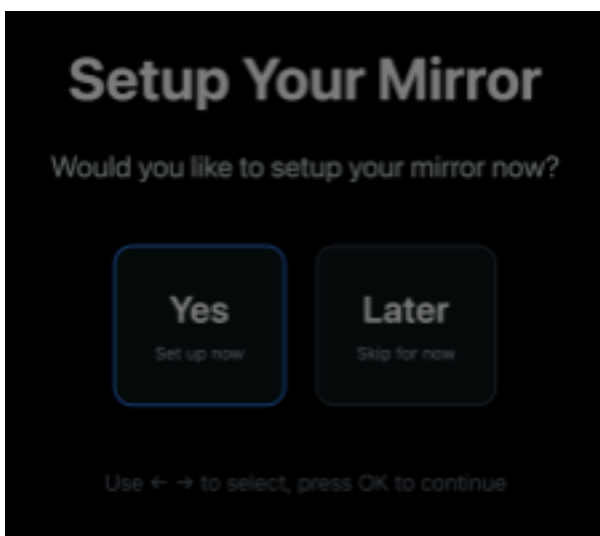
1. Ensure both the Monitor and Raspberry Pi are plugged into power.
2. Turn on the Monitor using its physical power button (if applicable, though most will wake automatically).
3. Wait for the Raspberry Pi to boot up. You will see the Luma logo and a "Welcome" screen.
4. All selections are done using the remote controller

## **4.1 Welcome Screen**



**Action:** Please wait while the mirror sets itself up.

## 4.2 Setup Your Mirror Prompt

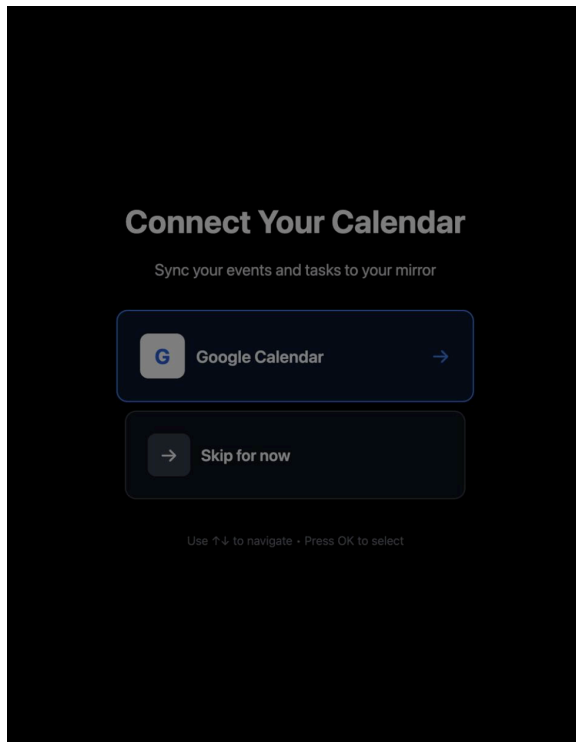


### What to Do

Click 'Yes' to set up Luma now. Click "Later" to continue to the display without syncing your calendar. Default weather data, date, and time will be displayed. You can set these up manually by going onto the settings menu later.

## 4.3 Connect Your Calendar

Connect your calendar to see events and tasks.



## What to Do

You can skip this step for now, and set up your calendar at any time from the settings menu.

1. Press UP (↑) or DOWN (↓) to highlight your choice.
2. Press OK/SELECT to select.

Then, follow the instructions on the screen:

# Connect Google Calendar

Scan the QR code or visit the URL below on your phone



Enter this code:

**ZPR-RYQ-SLRL**

Or visit:

<https://www.google.com/device>

● Waiting for authorization 29:54 remaining

## Instructions:

1. Scan the QR code with your phone camera
2. Or visit <https://www.google.com/device>
3. Enter the code: **ZPR-RYQ-SLRL**
4. Sign in with your Google account
5. Grant calendar access permissions

Press BACK (hold |◀◀ for 2 seconds) to cancel



## Connect a device

Enter the code displayed on your device

Enter code

Continue

English (United States)

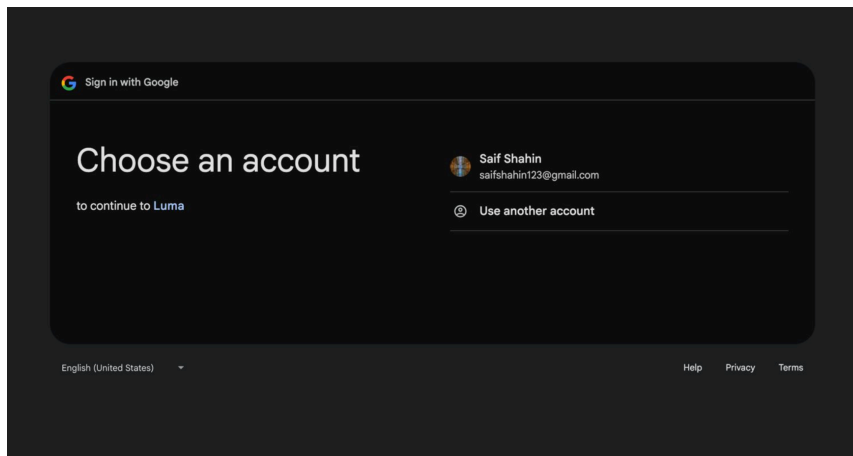


Help

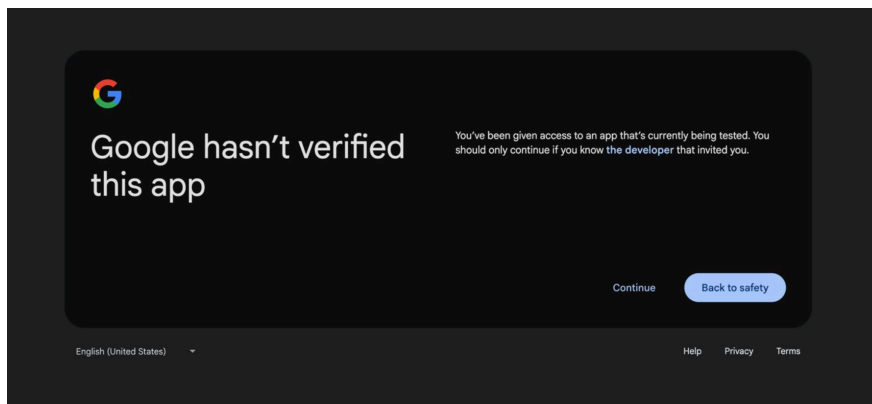
Privacy

Terms

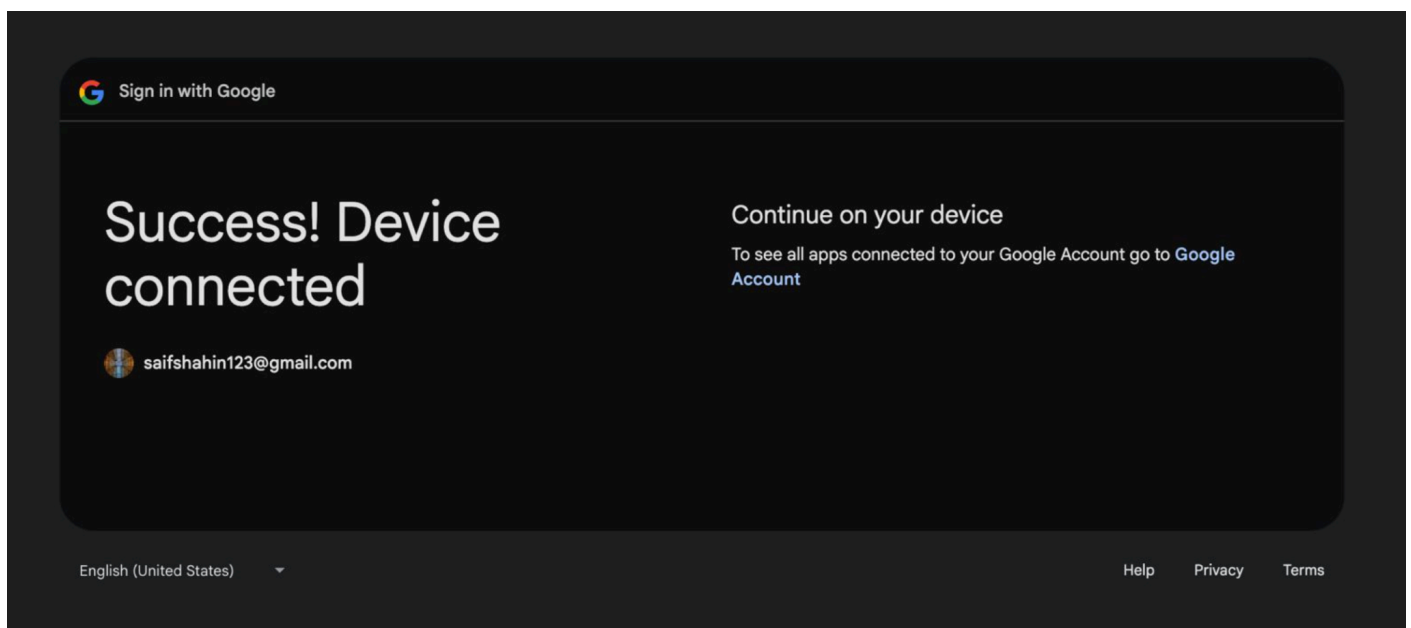
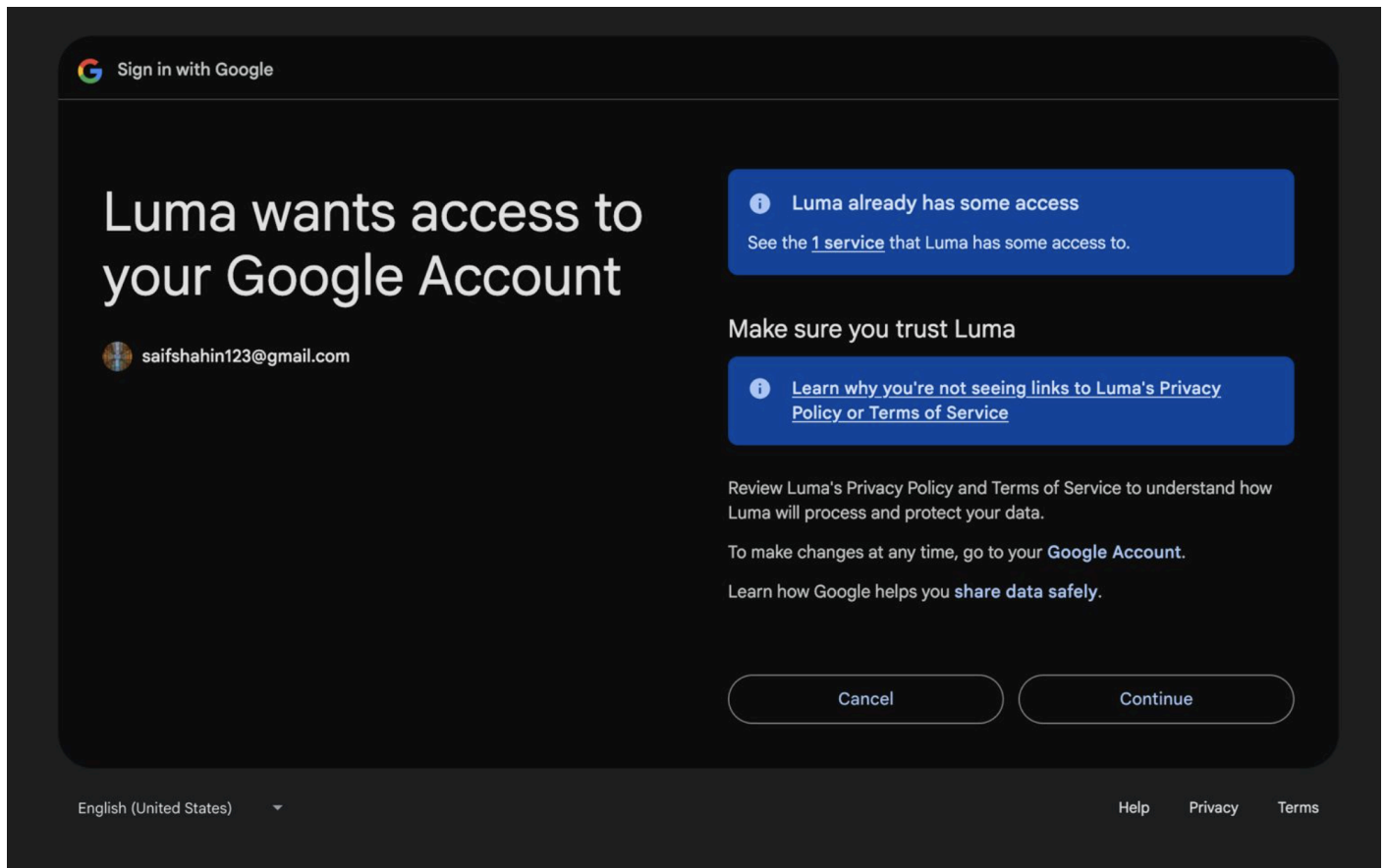
Select the google account associated with the calendar you would like to use:



Click Continue:



Click Continue again:



Congratulations! You synced your Google Calendar with Luma!

## 4.4 Location Setup



Set your location to see accurate weather information.

# Set Your Location

Type your city name using the on-screen keyboard

Q	W	E	R	T	Y	U	I	O	P
A	S	D	F	G	H	J	K	L	↵
Z	X	C	V	B	N	M	,	.	?

SPACEDONE

Use ↑↓←→ to navigate • Press OK to select key

The screenshot shows a dark-themed interface titled "Set Your Location". Below the title, it says "Type your city name using the on-screen keyboard". There is a text input field containing "T|". Below the input field is a 3x12 grid of on-screen keyboard keys. The keys are: Row 1: Q, W, E, R, T (highlighted with a blue border), Y, U, I, O, P; Row 2: A, S, D, F, G, H, J, K, L, and a red backspace key with a white 'X' icon; Row 3: Z, X, C, V, B, N, M, comma/underscore, period/apostrophe, and a question mark. Below the keyboard are two large buttons: "SPACE" and "DONE". Below these buttons, there is instructional text: "Use ↑↓←→ to navigate · Press OK to select key". Then, it says "Matching cities (use ↑↓ on DONE to select):". Below this, there are two city suggestions in rounded rectangles. The first is "Montreal" with "Canada" below it and "← Selected" in small text. The second is "Toronto" with "Canada" below it. At the bottom, there is more instructional text: "Navigate to DONE, then use ↑↓ to select city. Press OK on DONE to confirm."

## How to Use the On-Screen Keyboard

### 1. Navigate the Keyboard

Arrow buttons (↑↓←→) - Move between letters

OK/SELECT Button - Select the highlighted letter

The current letter has a **blue border**

### 2. Type Your City Name

Move to a letter and press **OK/SELECT** to add it

Example: For "Toronto", spell out "TORONTO"

### 3. Make Corrections

Move to the ☒ (backspace) key to delete letters

Press **OK/SELECT** to delete the last letter

### 4. See Matching Cities as you type, matching cities appear below.

### 5. Select Your City

Move to the **DONE** button

Press **UP** or **DOWN** to highlight different cities

The selected city has a **blue border** and "← Selected" marker

Press **OK/SELECT** on DONE to confirm

**Tip:** You only need to type the first few letters.

## 4.5 Time Format

Choose how time is displayed.



**How to select:**

1. Look at the two format examples on screen
2. Press ← or → to switch between them
- 3.

The selected format has a blue background

Press **OK/SELECT** to choose your preferred

option

## 4.6 Temperature Unit

Choose between Celsius and Fahrenheit

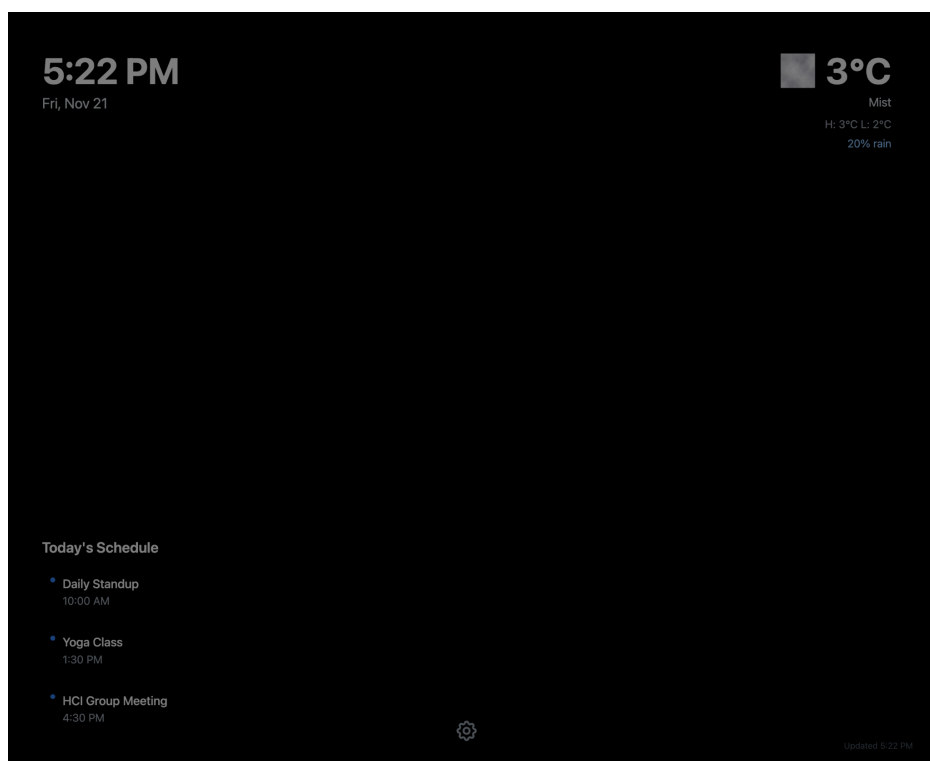


## How to select:

1. Look at the two temperature examples
2. Press ← or → to switch between them
3. The selected format has a blue background
4. Press **OK/SELECT** to choose your preferred option

## 5. Understanding Your Display Screen Layout

After setup, your display shows information in different areas:



### Default Positions:

Top Left- Time and Date

Top Right- Weather and temperature

Bottom Left - Calendar events and tasks








Bottom Center - Settings icon (⚙️)

Bottom Right- Last updated time

**Note:** You can move these anywhere you want. See the Re-arranging Screen Elements section.

## 6. Icons and Symbols

### 6. 1 Weather Icons

Icon	Meaning
	Clear/Sunny
	Partly Cloudy
	Cloudy
	Rain
	Thunderstorm
	Snow
	Fog/Mist

## 7. TV Remote Buttons

Button	Name	Function
POWER (⏻)	Power Button	Turn display on/off
↑↓←→	Arrow Buttons	Navigate menus, move items
OK/SELECT		Confirm selection, mark tasks complete
BACK	Back Button	Go back, cancel, exit menus
CH+/CH-	Channel Buttons	Switch between items in re-arrange mode
+/-	Brightness	Adjust screen brightness

## 8. Daily Use

### 8. 1 Information Updates

Luma updates information automatically:

#### Time and Date

Updates every second

Shows day of week and full date

Format depends on your preference (12/24 hour)

## **Weather**

- Updates every 30 minutes
- Shows current temperature
- Displays weather condition icon
- Shows high/low temperatures
- Shows rain chance percentage

## **Calendar**

- Shows up to 5 upcoming events
- Updates in real-time
- Events sorted by time (earliest first)
- Tasks appear without time labels

## **Last Updated**

- Bottom right corner
- Shows when information was last refreshed

## **8.1.1 Marking Tasks Complete**

You can cross off completed tasks directly from your mirror.

### **Step-by-Step**

1. Activate Navigation
  - Press any arrow button
  - A blue highlight appears around an item
  - The highlight shows what is currently selected
2. Select an Item
  - Press DOWN (↓) to move to calendar area
  - Press UP (↑) or DOWN (↓) to highlight different events
  - The selected item has a bright blue border
3. Mark complete
  - Press OK/SELECT on the selected item
  - The text gets crossed out
  - Text turns grey

Item remains visible but clearly marked as done

#### 4. Auto-Hide

After 7 seconds on no button presses

The blue highlight fades away

Press any arrow button to bring it back

## 8. 3 Brightness Control

You can adjust the brightness anytime.

You can do this by pressing the volume buttons on your TV remote.

Ch+ button: Increase brightness (each press adds 10%) Ch-

button: Decrease brightness (each press removes 10%)

Range: 0% (dimpest, no light) to 100% (brightest)

## 9 Adjusting Settings

### 9.1 Opening Settings

1. Activate Navigation by pressing the down arrow button

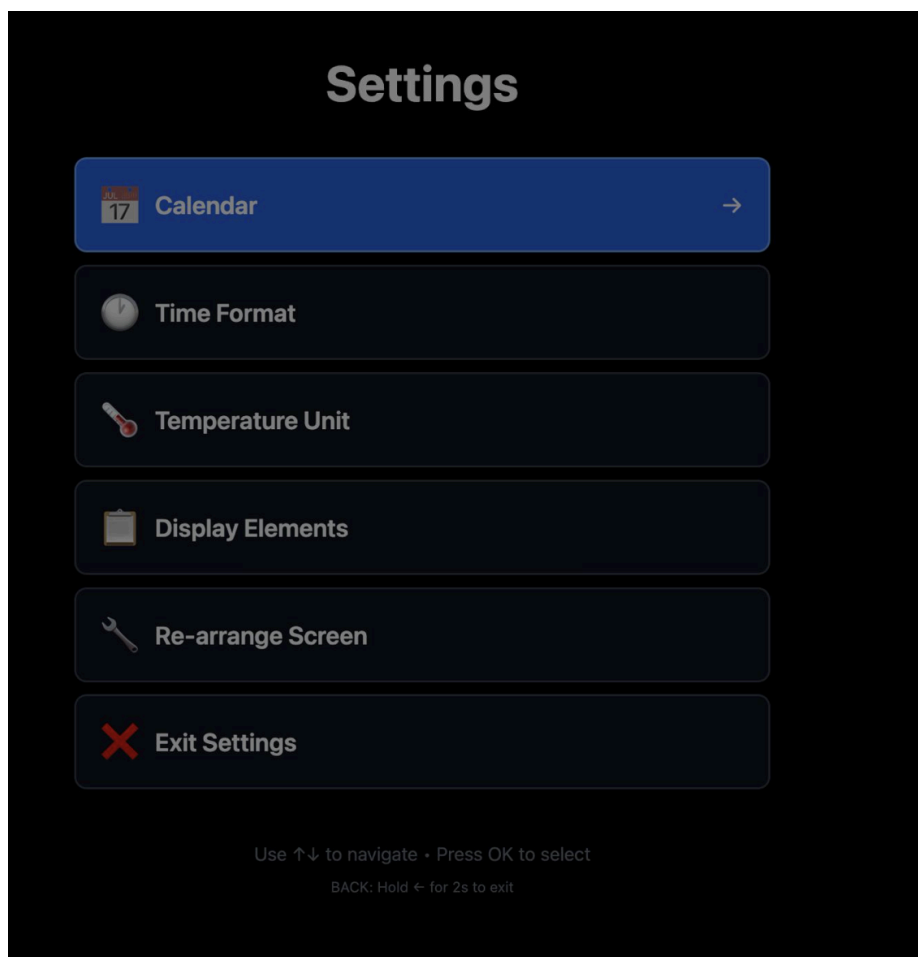
(↓) 2. Navigate to the Settings Icon

The settings icon (⚙️) is at the bottom center by default It will be highlighted in blue.

3. To open the settings, press OK/SELECT

You'll now see the settings menu:

### 9.2 Settings Menu Navigation:



### Basic Controls:

UP/DOWN - Move between menu items

OK/SELECT - Open the selected setting

BACK - Close the settings and return to the mirror

### Current Selection

Item in blue is currently selected

## 9.3 Calendar Settings

Change which calendar is selected or disconnect the calendar overall.

### To Access:

When in setting menu, highlight the Calendar

Press OK/SELECT

Follow the instructions on screen

## 9.4 Time Format Settings

Switch between 12-hour and 24-hour time display.



### To Access:

When in setting menu, highlight the Time Format

Press OK/SELECT

Press LEFT or RIGHT to toggle

The selected format has a blue background

Press BACK to save and return

## 9.5 Temperature Unit

### Settings

Switch between Celsius and

Fahrenheit.

### To Access:

When in setting menu, highlight the Temperature Unit

Press OK/SELECT

Press LEFT or RIGHT to toggle

The selected format has a blue background

Press BACK to save and return

## 9.6 Display Elements Settings

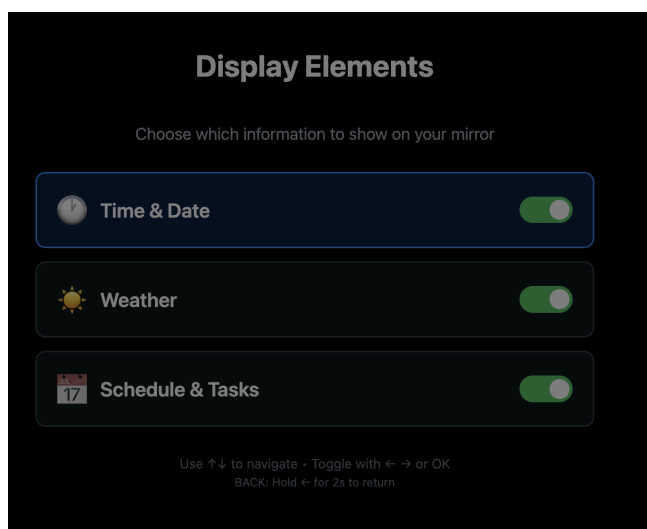
Choose which information shows on your mirror

### To Access:

When in setting menu, highlight the Display Elements

Press OK/SELECT

### What You'll See:



## How to Toggle:

### 1. Navigate:

Press UP or DOWN to select an element

### 2. Toggle ON/OFF:

Press LEFT, RIGHT, or OK to toggle

Switch slides left (Grey, OFF) or right (Green, ON)

### 3. Exit:

Press BACK to save and return

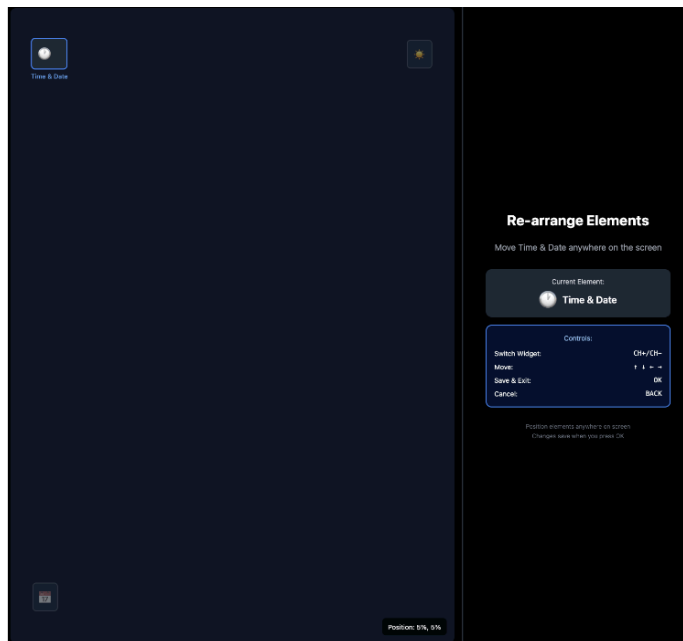
## 9.7 Re-Arrange Screen Elements Setting Move any

element (time, weather, and calendar) anywhere on the screen. **To Access:**

1. When in setting menu, highlight the Re-arrange Screen
2. Press OK

## What You'll See

The screen splits into two panels



## Left Panel (Preview):

Shows your mirror layout

Elements appear as icons with their positions

Currently selected element is larger and bright

Other elements are dimmed

The position metric on the bottom-right shows the element's exact position.

First number= horizontal position

Second number= vertical position

### **Right Panel (Controls):**

Contains instructions for how to use the re-arrange elements functionality.

### **Things to Know:**

Elements cannot go off-screen

System enforces safe boundaries

You will face resistance at screen edges. This prevents elements from being cut off.

## **Troubleshooting**

### **Remote not working?**

- Ensure the battery is fresh.
- Point the remote directly at the sensor (usually near the bottom of the display).
- If buttons are mapped incorrectly, you may need to reset the device to trigger the "Remote Calibration" screen again.

### **Weather incorrect?**

- Go to **Settings > Location** (if available) or restart the setup to ensure the correct City was selected.

### **Screen is black?**

- Check that the monitor power cable is securely plugged into the outlet.
- Ensure the Raspberry Pi has power (red light on the board).
- Press a button on the remote; the screen may be in sleep mode.
- Brightness may be set to lowest. Try increasing the brightness.

### **Calendar not syncing?**

- Go to **Settings > Calendar** and try disconnecting and reconnecting your account using the QR code.