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› Beuiouer 7-Inch TTL LCD Screen User Manual (Model 00445782A1)

Beuiouer 00445782A1

Beuiouer 7-Inch TTL LCD Screen User Manual

Model: 00445782A1 / XHL070ATP50

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Beuiouer 7-Inch TTL LCD Screen. Please read this manual thoroughly before using the product to ensure optimal performance and longevity.

2. PRODUCT OVERVIEW

The Beuiouer 7-Inch TTL LCD Screen is a high-resolution display designed for various industrial and scientific applications. It features an 800x480 resolution, a 50-pin FPC interface, and a typical brightness range of 200-400 cd/m². Its compact design and robust construction make it suitable for integration into custom projects and devices.



Figure 2.1: Front and back view of the LCD screen, showing the display panel and the FPC connector.

3. KEY FEATURES

- **Display Type:** TFT LCD
- **Resolution:** 800x480 pixels
- **Interface:** RGB (1 channel, 6/8-bit), 50 pins, FPC
- **Brightness:** 200-400 cd/m²
- **Contrast Ratio:** 500:1
- **Pixel Density:** 134 PPI
- **Screen Size:** 7 inches
- **Thickness:** 5.5mm
- **Compatibility:** Suitable for AT070TN90, AT070TN92 V.X applications

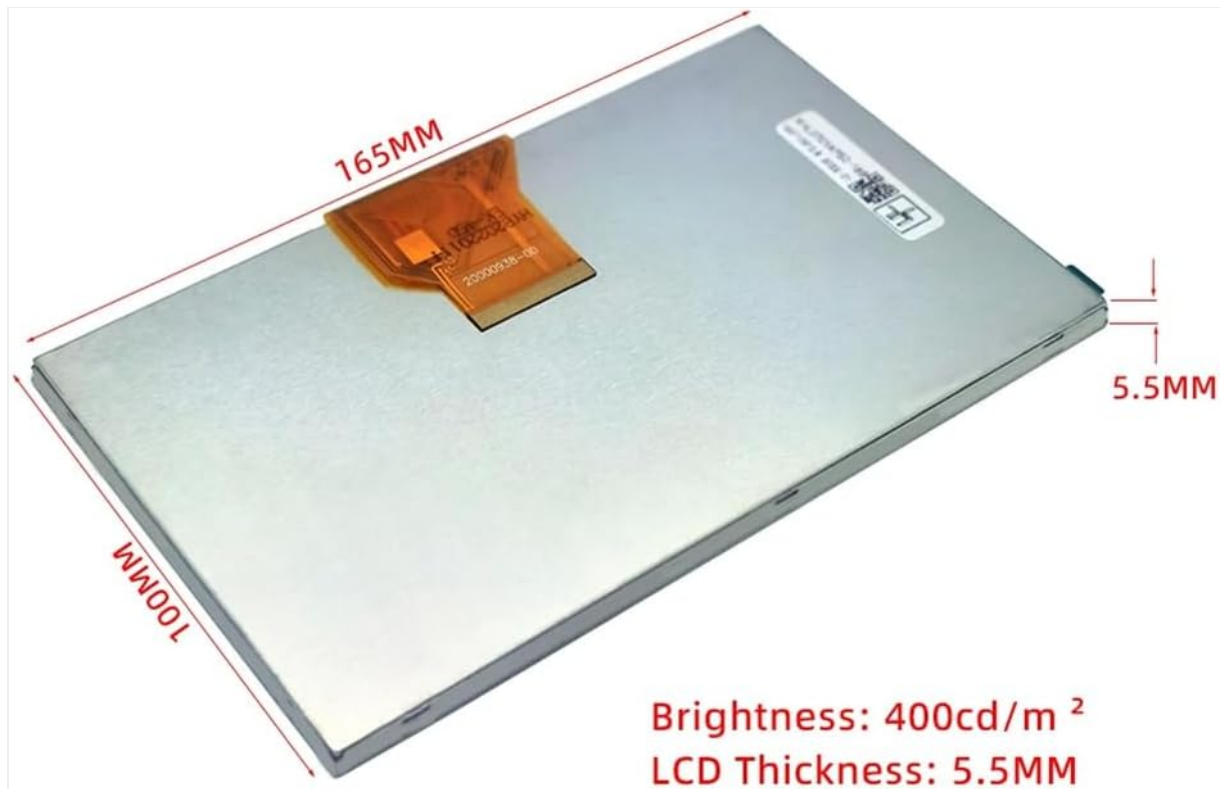


Figure 3.1: Physical dimensions of the LCD screen, including its 5.5mm thickness.

4. SETUP INSTRUCTIONS

Before proceeding with installation, ensure all power sources are disconnected from your host device. Handle the LCD screen by its edges to avoid touching the display area or the FPC connector pins.

1. **Prepare the Host Device:** Ensure your host device (e.g., development board, embedded system) is powered off and properly prepared for LCD integration.
2. **Connect the FPC Cable:** Carefully align the 50-pin Flexible Printed Circuit (FPC) connector of the LCD screen with the corresponding FPC socket on your host device. Gently insert the FPC cable into the socket and secure it according to your host device's design (e.g., by closing a latch). Ensure the connection is firm and correctly oriented to prevent damage.
3. **Mount the LCD Screen:** Secure the LCD screen within your device's enclosure or mounting frame. Use appropriate mounting hardware (not included) to prevent movement or damage. Avoid applying excessive pressure to the display panel.
4. **Power On:** Once the LCD is securely connected and mounted, reconnect power to your host device. The display should initialize and show content as programmed by your system.

Note: Refer to your host device's documentation for specific FPC connection procedures and power requirements. Incorrect connection can damage the LCD or the host device.

5. OPERATING INSTRUCTIONS

The Beuiouer 7-Inch TTL LCD screen functions as a display output for your connected system. Its operation is primarily controlled by the signals received from the host device.

- **Display Content:** The content displayed on the screen is generated and sent by your host device via the TTL interface. Ensure your device's graphics controller is configured to output an 800x480 resolution signal compatible with the LCD.
- **Brightness Adjustment:** Brightness control is typically managed by the backlight driver circuit on

your host device or an external driver board. Consult your system's documentation for methods to adjust display brightness.

- **Power Management:** The LCD's power state (on/off) is controlled by the host device. Implement proper power-down sequences in your system to ensure the LCD is safely turned off when not in use.



Figure 5.1: Example of a graphical interface displayed on the LCD screen.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your LCD screen.

- **Cleaning the Screen:**
 - Gently wipe the screen surface with a soft, lint-free cloth.
 - For stubborn smudges, lightly dampen the cloth with distilled water or a specialized LCD cleaning solution. Do not spray liquid directly onto the screen.
 - Avoid using harsh chemicals, abrasive cleaners, or alcohol-based solutions, as these can damage the screen coating.
- **Handling:** Always handle the LCD by its frame or edges. Avoid touching the display area directly to prevent fingerprints and scratches.
- **Storage:** When not in use, store the LCD in a clean, dry environment, away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

If you encounter issues with your LCD screen, refer to the following common problems and solutions:

Problem	Possible Cause / Solution
No display / Black screen	◦ Possible Cause: No power to the host device or LCD; FPC cable improperly connected; Incorrect display settings on host device. ◦ Solution: Verify power supply to both the host device and the LCD. Check FPC cable connection for proper alignment and secure latching. Ensure host device's graphics output matches LCD resolution (800x480) and interface type (TTL).
Garbled or distorted image	◦ Possible Cause: Loose or damaged FPC cable; Timing or signal issues from host device. ◦ Solution: Reseat the FPC cable. Inspect for any physical damage. Verify display timing parameters in your host device's software/firmware.
Uneven brightness or backlight issues	◦ Possible Cause: Backlight power supply issue; Backlight driver misconfiguration. ◦ Solution: Check the backlight power supply voltage and current. Ensure the backlight driver on your host device is correctly configured and functioning.

If the problem persists after trying these solutions, contact your system integrator or the product supplier for further assistance.

8. SPECIFICATIONS

Parameter	Value
Brand	Beuiouer
Model Number	00445782A1 (also XHL070ATP50)
Screen Size	7 Inches
Resolution	800 x 480
Aspect Ratio	1.66:1
Display Type	TFT LCD
Contrast Ratio	500:1
Brightness	200-400 cd/m ²
Pixel Density	134 PPI
Interface	RGB (1 ch, 6/8-bit), 50 pins, FPC
Thickness	5.5mm
Item Weight	275 Grams
Material	Plastic + Metal

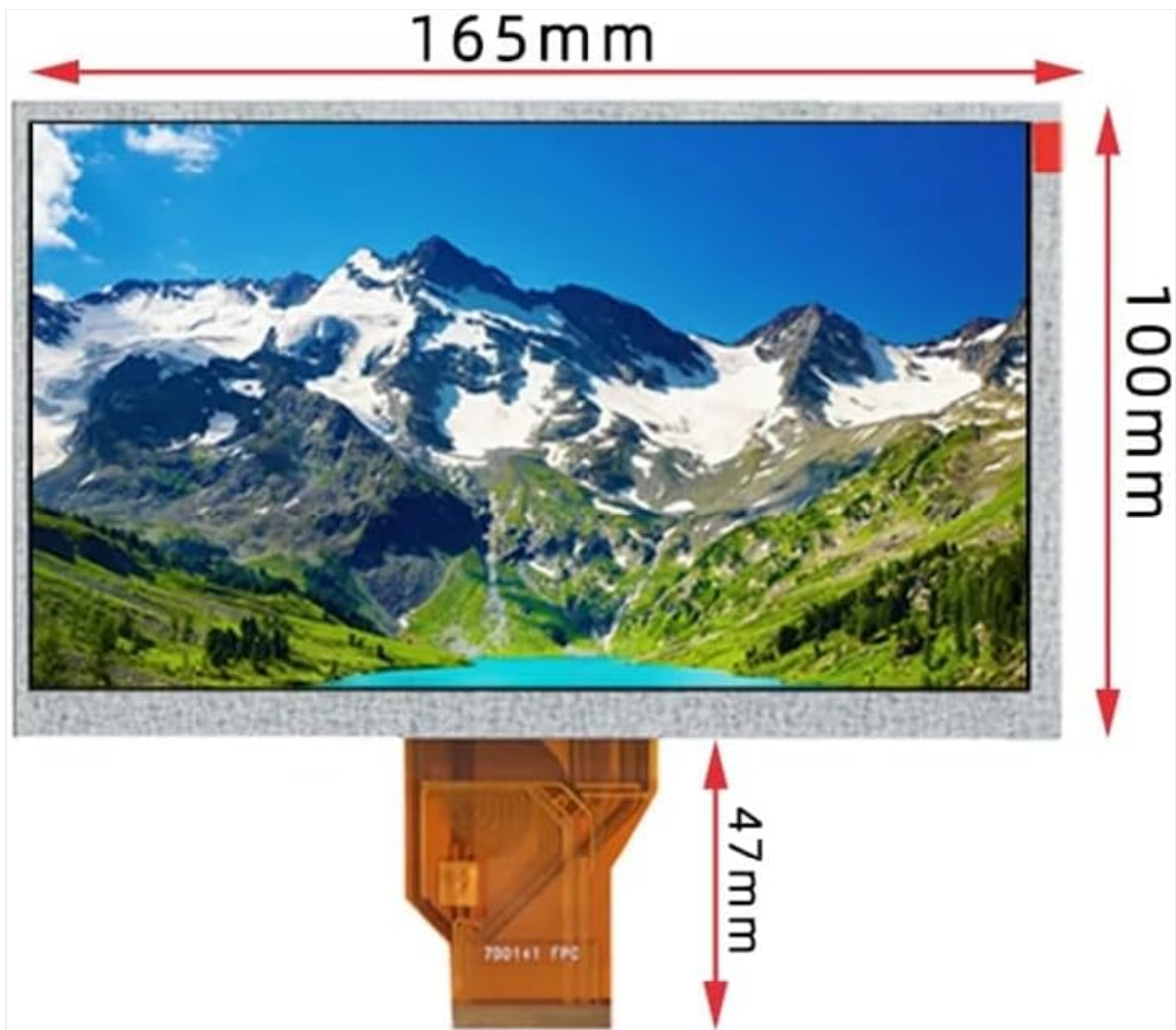


Figure 8.1: Overall dimensions of the LCD screen, including the FPC cable length.