



TRAILER SCREEN

(AKA. BIG BLACK SCREEN, BBS)

USER MANUAL



For your safety, please read this user manual carefully before use.

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1. Introduction

This manual provides instructions for the proper setup, operation, and maintenance of the trailer screen system. The system includes four manual outriggers, a motorized up-and-down mechanism, and a rotation motor controlled via remote control and a touchscreen located in the rear toolbox.

2. Safety Guidelines

- Ensure the trailer is parked on a stable and level surface within 4 degrees before deployment.
- Chock the trailer to prevent movement during setup.
- Always wear appropriate protective gear when setting up the screen.
- Keep hands and objects clear of moving parts.
- Do not exceed the wind load limits specified in the specifications section.
- Disconnect the power supply when performing maintenance.
- Keep the remote control away from water and extreme temperatures.

3. Specifications

- **Screen Size:** 5.1m x 2.8m
- **Resolution:** [Specify resolution]
- **Trailer Height with Screen Down:** 4m
- **Trailer Max Height with Screen Raised:** 5.5m
- **Up/Down Motor:** Electric Motor
- **Rotation Motor:** Electric Motor
- **Outriggers:** 4 manual stabilization outriggers
- **Remote Control:** 8-button remote control
- **Touch Screen Control:** Located in the rear toolbox

4. Setup Instructions

4.1 Positioning the Trailer

1. Park the trailer on a stable, level surface within 4 degrees.
2. Chock the trailer to prevent movement during setup.
3. Unhitch the trailer from the vehicle.

4.2 Deploying the Outriggers

1. Extend each outrigger out and down, ensuring they bear load.
2. Adjust for stability using the levels provided.
3. Remove or stow the drawbar if required.
4. Select the "Outriggers Loaded" checkbox on the screen.
5. Press the "Outriggers Loaded" button to proceed to the next step.

4.3 Raising the Screen

1. Connect the power supply to the selected input.
2. Open the rear toolbox and follow the setup instructions displayed on the touchscreen.
3. Use the remote control or touchscreen to activate the up/down motor.
4. The screen will stop at a predetermined height, indicating it has passed the soft limit and rotation can begin.
5. Raise the screen to the desired height.

4.4 Rotating the Screen

1. Ensure the screen is raised to a safe height.
2. Clear the surrounding area of obstacles.
3. Use the remote control or touchscreen to rotate the screen as needed.

5. Operation Instructions

5.1 Start Menu

- The start menu is the main interface for controlling the trailer screen.
- It provides access to all major functions, including screen height adjustment and rotation.
- Ensure the system is powered on before proceeding.

5.2 Up/Down Motor

1. Navigate to the up/down motor control page.
2. Use the touchscreen or remote control to raise or lower the screen.
3. Monitor movement to ensure there are no obstructions.
4. The screen will stop at a predetermined height before allowing rotation (400mm minimum).
5. If lowering the screen, ensure it is rotated back to the home position first.

5.3 Rotation

1. Navigate to the rotation control page.
2. Ensure the surrounding area is clear of obstacles.
3. Use the touchscreen or remote control to rotate the screen left or right.

5.4 Settings

- Navigate to the settings page to adjust control screen timeout (5-30 seconds).
- Create a PIN number for user and settings.
- PIN numbers do not display for security but will show for 3 seconds when entered.
- You can silence the siren via the settings page.

6. Maintenance and Troubleshooting

- Regularly inspect moving parts for wear and lubrication.
- Check electrical connections for corrosion or damage.
- If the screen does not rotate, ensure it has been raised to the predetermined height.
- If the screen does not raise, check the emergency stop button, power supply, and motor connections.
- If rotation is unresponsive, ensure the remote control battery is charged.
- If issues persist, try operating the system via the touchscreen in the rear toolbox.
- The LED screen is front-serviceable, and tools required are located in the front toolboxes.
- A suction tool, hex key, and locking key are required for removing the screen tiles.

7. Setting the Xinje DS5L Servo Drive to "bb" (Idle Status) and Control Functions

Before using the screen motors, ensure the **Xinje DS5L Servo Drive** is in **bb (idle status)**.

Steps to Enter "bb" (Idle Status)

1. Using the Servo Drive Panel:

- Press **ENTER** to enter the settings menu.
- Navigate to **F1-05 (Forced Enable Mode)**.
- Set **F1-05 = 0** to disable enable mode.
- The display should now show **"bb" (idle status)**.

2. Jog Mode (Manual Motor Control in bb Status)

- Ensure the drive is in **bb status**.
- Press **ENTER** until the display shows **F1-00 (Jog Run)**.
- Short press **ENTER** again to enable the motor.
- Use **INC** to move the motor forward.
- Use **DEC** to move the motor backward.
- Press **STATUS/ESC** to stop the motor and exit Jog Mode.

3. Optional Settings:

- **P3-18 – Jog Speed** (0–1000 rpm)
- **P3-09 – Acceleration Time** (ms)
- **P3-10 – Deceleration Time** (ms)

4. Power Cycling the Servo Drive:

- Turn off the servo drive.
- Wait a few seconds, then turn it back on.
- If the servo was not previously set to auto-enable, it will default to **bb (idle status)**.

8. Contact Information

For technical support or service inquiries, contact:

- **Company Name:** Event Lighting Pty Ltd
- **Phone:** 02 9897 3077
- **Email:** Service@eventec.com.au
- **Website:** www.eventec.com.au

**Ensure all operators read this manual before using the trailer screen.
Follow all safety protocols for safe and efficient operation.**