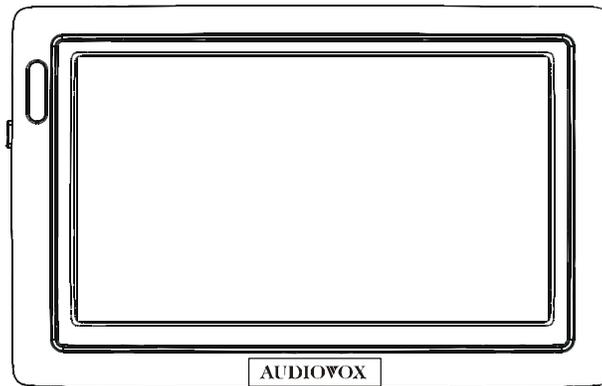




## **4.5" Wide Screen LCD Monitor**

**Model: LCM45NB**

**Owner's Manual**



### **Features:**

- **4.5" Widescreen (16:9) TFT Color LCD Display**
- **Rearview Camera Input**
- **Interior Camera Input**
- **Audiovox Navigation Input**
- **NTSC /PAL Camera Compatible**

This product must be installed and used only in accordance with these instructions. Any alteration of this product that enables it to be used in ways other than those stated in this manual could distract the driver and result in an accident or injury. AUDIOVOX ELECTRONICS CORP. DISCLAIMS ANY LIABILITY THAT MAY RESULT FROM A FAILURE TO INSTALL AND OPERATE AS INDICATED IN THESE MANUALS.

## **Warnings**

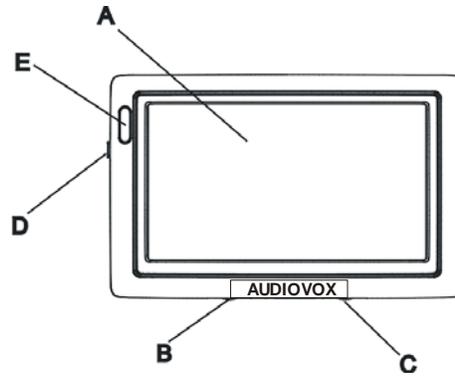
### **Backing up vehicle**

Do not back up vehicle while watching the monitor screen. Always look in the direction of vehicle motion. Use the monitor as an aid in safety confirmation. The distance looks different in the monitor. The actual distance may be shorter than it looks in the monitor. The range of image is limited. Beware of blind spots.

## **Cautions**

The product is intended to assist in safe driving and to allow the driver to have a broader rearview during reversing. You, as the driver, are solely responsible for the safe operation of your vehicle and the safety of your passengers according to the country and their local traffic regulations. Do not use any features of this system to the extent it distracts you from safe driving. Your first priority while driving should always be the safe operation of your vehicle. Audiovox Electronics Corp. cannot accept any responsibility whatsoever for accidents resulting from failure to observe these precautions or safety instructions.

## CONTROLS AND INDICATORS



**Figure 1.** LCM45NB Monitor Controls and Indicators

A: 4.5" TFT color LCD

B: Speaker volume control: adjusts the rearview camera volume only when the vehicle is in reverse.

C: LCD brightness control: adjusts the brightness of display.

D: Camera switch (see below).

E: Remote IR Sensor for Audiovox Navigation only.

### CAMERA SWITCH

- 1). When switch D is pressed and the vehicle is shifted into reverse gear:
  - No function
- 2). When switch D is pressed and vehicle is in any other gear:
  - Will display the interior camera image if the optional Interior camera is installed.
  - Will display the rearview camera image if only rearview camera is installed.
  - No function if the optional navigation is the only input.

## **TURNING THE LCD MONITOR ON/OFF**

The LCD Monitor turns ON every time the ignition key is turned ON and system powered up.

The monitor turns OFF every the Ignition key is turned OFF and the system powered down.

## **VIEWING THE REAR OBSERVATION CAMERA IMAGE**

### **(optional)**

If a rear observation camera is installed, the monitor will display the rear observation camera image whenever the vehicle is shifted into the reverse gear. The rear observation camera image turns off automatically any time the gear selector is moved out of the reverse position.

When both cameras are installed, pressing the camera switch (see Figure 1-D) will display the interior camera image. If only the review camera is installed press and holding the Camera switch (see Figure 1-D) on the left side of the monitor will display the review camera image. Releasing the camera button will return the screen to its previous state.

## **VIEWING THE INTERNAL OBSERVATION CAMERA**

### **IMAGE (optional)**

Press and hold the camera switch (see Figure 1-D) on the left side of the monitor to view the internal camera image. Releasing the camera button will return the screen to its previous state.

## **VIEWING THE NAVIGATION IMAGE (optional)**

If a Navigation system is installed, the navigation image will be displayed when the vehicle's Ignition is turned on.

## **LCD MONITOR BRIGHTNESS CONTROL**

The brightness adjustment control is on the bottom right of the monitor (see Figure 1-C). Rotating the wheel to the right will decrease the brightness.

Rotating the wheel to the left will increase the brightness.

## **SPEAKER VOLUME CONTROL**

The speaker volume control is on the bottom left side of the monitor (see Figure 1-B). This control is used only to adjust the rearview camera audio level. The vehicle must be shifted into reverse in order to hear and adjust the camera audio level.

Rotating the wheel to the right will decrease the speaker level.

Rotating the wheel to the left will increase the audio level.

# Maintenance

Though your monitor requires little care, you can still maintain its condition and performance by following the procedures below.

- Keep your system away from excessive moisture, extreme heat or cold, and magnetic fields.
- Keep liquids away from the display .
- To avoid damage, do not place external devices or other objects on the top of the monitor.
- Occasionally wipe the monitor display with a soft, damp cloth.
- Occasionally clean the surface of the monitor with a soft cloth moistened with water or window cleaner.

# Troubleshooting

| Symptoms   | Solutions   |
|--|---|
| No video signal appears while reversing the vehicle? | Check that the cable from the control box is connected properly to the monitor. |
| Video image is not sharp enough?                     | Clean the lens of the camera.   |

## Specifications

### General

|                             |               |
|-----------------------------|---------------|
| Power Supply                | DC12V         |
| Power Consumption           | <10W          |
| Current Draw                | <800 mA       |
| Audio Power Output          | 0.5W ×1 (16Ω) |
| Operating Temperature Range | 0°C to 50°C   |

### Display System

|                |                       |
|----------------|-----------------------|
| Screen         | 4.5" TFT Color LCD    |
| Brightness     | 400 cd/m <sup>2</sup> |
| Contrast ratio | 150:1                 |
| Backlight Life | 10000 hours           |
| Resolution     | 960 × 234             |
| Video Format   | NTSC/PAL              |
| Display Format | 16: 9                 |



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