7" DIGITAL WATERPROOF LED MONITOR

Model No.: SV-LED70WP4

Design and Specifications are subject to change without notice.
The model and serial numbers are located at the rear. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your dealer regarding this product.

Model No. SV-LED70WP4
Serial No. __________

WARNING
To avoid electric shock, do not open the cabinet. Refer servicing to qualified personnel only.

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

You are cautioned that any changes or modifications which are not expressed or approved in the manual could void your warranty and cause the equipment to malfunction.
SUGGESTIONS

7" DIGITAL WATERPROOF LED MONITOR

1 Safety

- Use only DC 10V ~ DC 32V.
- If liquid or dust leaks into the case, turn off power to the unit and consult an experienced technician before using.

2 Installation

- Do not install the unit in an extremely hot or humid place (radiator, air duct, etc.) or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- If your vehicle has been parked in direct sunlight resulting in a considerable rise in temperature inside the vehicle, allow the unit to cool off before operating.

3 General cleaning information

- Clean the unit with a slightly damp soft cloth. Use a mild household detergent. Never use strong solvents such as thinner or benzene as they might damage the finish of the unit.
FEATURES

- Water Resistant (IP68)
- Wide 7” Digital LED Panel
- NTSC/PAL Compatibility
- Auto DAY/NIGHT Detection
- Multiple display modes (SINGLE, SPLIT, TRIPLE, PIP, QUAD)
- Adjustable Speed switch
- Vandal Resistant
- Supports Various Divide Mode
- Parking Distance Marker Setting Available
- Capacitive Touch Keys
- Supports Multi-Functional Cameras
  (Normal, Shutter, Tilt on CAM1 and CAM2)

PACKAGE CONTENTS

Please check that you have the correct contents before using this product. If any items are missing, please contact your dealer.
OPERATIONS

1 POWER
   - Touch 🕶️ to turn the monitor on.
   - Touch 🕶️ to turn the monitor off.

   NOTE Monitor start mode will follow “AUTO POWER SETTING”

2 SELECT
   - Touch SEL to select CAMERA.
   - Touch SEL to select the option in SET UP MENU.

3 MENU
   - Use MENU to enter the Display Menu (short press) and the Main Menu (long press).
   - Touch once to enter menu mode.
   - Touch again to exit from menu mode.
   - Selectable OSD menu disappears in 7 seconds if no buttons are pressed.
   - Touch the MENU button over 2 seconds to go back to the Main Menu and a submenu.
4 UP 5 DOWN

- While in Menu mode and navigate through the available menu options.
- Touch and to adjust Bright, Contrast, Color, Tint Volume and other setting values.

6 DAY/NIGHT SENSOR

- Automatic Brightness Control
  The brightness of the monitor is adjusted automatically with the DAY/NIGHT SENSOR according to circumstances.
menu is displayed in NTSC only.
**SETUP MENU**

Press the MENU button for over 2 seconds to enter the MAIN MENU. Selectable OSD menu disappears in 7 seconds if no buttons are pressed.

**CAMERA SETTING**

<table>
<thead>
<tr>
<th>1. CAMERA SETTINGS</th>
<th>SUBDIVISION MENU</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAM1</td>
<td>SUBDIVISION MENU</td>
</tr>
<tr>
<td>CAM2</td>
<td>NOR/MIR: [MIRROR;NORMAL]</td>
</tr>
<tr>
<td>CAM3</td>
<td>UP/DOWN: [UP;DOWN]</td>
</tr>
<tr>
<td>CAM4</td>
<td>NAME: [CAM1]</td>
</tr>
<tr>
<td>AUX</td>
<td>SORT: [NORMAL;SHUTTER;TILT.AT;TILT.MT]</td>
</tr>
</tbody>
</table>

**SUBDIVISION MENU**

- **BRIGHT**
  - Option setting
- **CONTRAST**
  - Option setting
- **COLOR**
  - Option setting

**NOTE** • SUBDIVISION MENU can control BRIGHT, CONTRAST and COLOR for individual channels (CAM1–CAM4, AUX)
**OPERATIONS**

**NOR/MIR:** [MIRROR; NORMAL]

- **NOTE** • Normal/Mirror image can be switched (CAM1–CAM4, AUX)

**UP/DOWN:** [UP; DOWN]

- **NOTE** • Up/Down image can be switched (CAM1–CAM4, AUX)

**NAME:** [CAM1]

- **NOTE** • Can give each camera name.

**SORT:** [NORMAL; SHUTTER; TILT.AT; TILT.MT]

- **NOTE** • Select camera type between NORMAL, SHUTTER, TILT AUTOMATIC or TILT MANUAL.
- **How to control TILT MANUAL:**
  - Select “TILT.MT” Exit MENU.
  - Press MENU key two times to display the OSD below.
- **TILT CONTROL:**
  - Press ▲ key for TILT UP.
  - Press ▼ key for TILT DOWN.
2 TRIGGER SETTING

- Up to 5 triggers can be selected (CAM1-CAM4, AUX, SPLIT1-SPLIT3, and SKIP).
- When the trigger is activated, the selected source’s image is displayed.

**DELAY:[0~20SEC]**

- Each trigger’s delay time is adjustable from 0 sec to 20 sec.

**NOTE**

- If one camera is activated by an intermittent signal (for example, from a turn signal), the delay must be activated to prevent the picture from flickering.

**MARKER:[ON;OFF]**
3 SPLIT SETTING

### 3. SPLIT SETTING

<table>
<thead>
<tr>
<th>SPLIT1</th>
<th>SOURCE1: [CAM1~4; AUX; OFF]</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPLIT2</td>
<td>SOURCE2: [CAM1~4; AUX; OFF]</td>
</tr>
<tr>
<td>SPLIT3</td>
<td>SOURCE3: [CAM1~4; AUX; OFF]</td>
</tr>
<tr>
<td></td>
<td>SOURCE4: [CAM1~4; AUX; OFF]</td>
</tr>
<tr>
<td></td>
<td>AUDIO: [CAM1~4; AUX; OFF]</td>
</tr>
<tr>
<td>DISPLAY TYPE</td>
<td></td>
</tr>
</tbody>
</table>

Audio function is only available on selected channel.

**NOTE**
- Default settings are as follows: SPLIT1: SPLIT IMAGE, SPLIT2: TRIPLE IMAGE, and SPLIT3: QUAD IMAGE.
- Selected camera can’t be selected in other SOURCES.
- Audio function is only available on selected channel.

**DISPLAY TYPE**

**NOTE**
- Display type is automatically changed to SPLIT / TRIPLE / QUAD image according to the selected number of cameras.
- Display type is automatically changed to the first image type in SPLIT / TRIPLE / QUAD image if the selected number of cameras is changed.
4. SPEED SWITCH

<table>
<thead>
<tr>
<th>SPEED SWITCH: [ON; OFF]</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREQUENCY: [10~1000Hz]</td>
</tr>
<tr>
<td>UNDER FREQUENCY CH: [CAM1<del>4; AUX; SPLIT1</del>3]</td>
</tr>
<tr>
<td>OVER FREQUENCY DISPLAY: [ON; OFF]</td>
</tr>
<tr>
<td>OVER FREQUENCY CH: [CAM1<del>4; AUX; SPLIT1</del>3]</td>
</tr>
</tbody>
</table>

- Press SELECT for a short time to change the frequency by 1Hz.
- Press and hold SELECT to change the frequency by 10Hz intervals.

**NOTE** • Select ON to activate the speed switch.
- Select OFF to deactivate the speed switch.

**FREQUENCY: [10~1000Hz]**

**NOTE** • Select activated frequency 10~1000Hz

**UNDER FREQUENCY CH: [CAM1~4; AUX; SPLIT1~3]**

**NOTE** • Over 20 mph, the selected camera display Switches off. When speed returns to below 20 mph, the camera displays again. To display another source when the vehicle is traveling over 20 mph, select ON in OVER FREQUENCY DISPLAY and select a source in OVER FREQUENCY CH.

**OVER FREQUENCY DISPLAY: [ON; OFF]**

**NOTE** • Select ON to display an image when the input frequency is higher than standard.

**OVER FREQUENCY CH: [CAM1~4; AUX; SPLIT1~3]**

*The purple wire needs to be connected to the vehicle’s tachometer signal and the SPEED SWITCH setting must be set to ON.
*Adjusted to 67Hz (the most common tachometer signal) the camera selected in the UNDER FREQUENCY CH field is displayed while the vehicle is traveling 0 to about 20 mph.
*Adjust the FREQUENCY to your vehicle’s specific tachometer signal.
*Over 20 mph, the selected camera display Switches off. When speed returns to below 20 mph, the camera displays again. To display another source when the vehicle is traveling over 20 mph, select ON in OVER FREQUENCY DISPLAY and select a source in OVER FREQUENCY CH.
*Trigger activation overrides speed switch functionality.
5. DAY/NIGHT SETTING

SENSOR:[ON;OFF]
SENSITIVITY:[0~60]
NIGHT BRIGHT:[0~60]

NOTE  •  Select ON to activate Day/Night functionality.
•  Select OFF to deactivate Day/Night functionality.

NOTE  •  Adjust the sensitivity of the Day/Night function.

6. AUTO SCAN SETTING

AUTO SCAN DELAY SETTING

NOTE  •  Select ON to activate the Auto Scan function.
•  Select OFF to deactivate the Auto Scan function.

NOTE  •  Each channel is displayed sequentially according to the time entered in AUTO SCAN DELAY SETTING.
•  Press the SEC button to maintain the display of a channel.
•  A channel does not display if AUTO SCAN DELAY TIME is set to “0”.

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OPERATIONS

Select ON to activate Day/Night functionality.
Select OFF to deactivate Day/Night functionality.
Adjust the sensitivity of the Day/Night function.
Adjust the BRIGHTNESS level.

Select ON to activate the Auto Scan function.
Select OFF to deactivate the Auto Scan function.

Each channel is displayed sequentially according to the time entered in AUTO SCAN DELAY SETTING.
Press the SEC button to maintain the display of a channel.
A channel does not display if AUTO SCAN DELAY TIME is set to “0”.

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NOTE  •  Adjust the BRIGHTNESS level.
ADVANCED MENU

7. ADVANCED MENU

AUTO POWER: [OFF; ON; AUTO]

FACTORY RESET

NOTE • Auto Setting Monitor keeps the last setting in memory:
Monitor will start up “Power-on” mode or “Stand-by” mode according to its last mode before the ignition key off.
- Off Setting Monitor keeps “Stand-by” setting regardless of the last mode before the ignition key off.
- On setting: Monitor will be turned on automatically when ignition key on regardless of the last mode of the monitor before the ignition key off.

FACTORY RESET

NOTE • Reset to default settings.
**INSTALLATION**

1. **DASH BOARD → SCREW → MONITOR**

   1-1. **STAND BRACKET (SCREW FIXING TYPE)**

   [Diagram showing installation process]

   1-2. **STAND BRACKET (RAIL TYPE)**

   [Diagram showing installation process]

2. **SUNVISOR → MONITOR**

   [Diagram showing installation process]
# SPECIFICATIONS

**Model No.: SV-LED70WP4**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Input</strong></td>
<td>DC 10V~32V</td>
</tr>
<tr>
<td><strong>Power Consumption</strong></td>
<td>Max. 30Watt</td>
</tr>
<tr>
<td><strong>Video System</strong></td>
<td>NTSC / PAL compatible</td>
</tr>
<tr>
<td><strong>Panel</strong></td>
<td>7” Digital</td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
<td>800 (H) X 3(RGB) X 480 (V) pixels</td>
</tr>
<tr>
<td><strong>Format</strong></td>
<td>16:9 wide</td>
</tr>
<tr>
<td><strong>Display Mode</strong></td>
<td>Single/Split/Triple/Pip/Quad</td>
</tr>
<tr>
<td><strong>Camera input(4CH)</strong></td>
<td>Mini DIN 4P, 1Vp-p 75 Ω</td>
</tr>
<tr>
<td><strong>Operating Temp.</strong></td>
<td>-30℃ ~ +75℃ (-22 ℉ ~ 167 ℉)</td>
</tr>
<tr>
<td><strong>Storage Temp.</strong></td>
<td>-40℃ ~ +85℃ (-40 ℉ ~ 185 ℉)</td>
</tr>
<tr>
<td><strong>Vibration</strong></td>
<td>7G</td>
</tr>
<tr>
<td><strong>I.P Factor</strong></td>
<td>IP 68</td>
</tr>
<tr>
<td><strong>OSD Control</strong></td>
<td>Day &amp; Night Sensor</td>
</tr>
<tr>
<td></td>
<td>Bright, Contrast, Color, Tint</td>
</tr>
<tr>
<td></td>
<td>Mirror/Normal, Day/Night Mode/Scale</td>
</tr>
<tr>
<td></td>
<td>*Individual Control per Channel available</td>
</tr>
<tr>
<td><strong>Dimension</strong></td>
<td>194(W) X 125(H) X 32(D) mm</td>
</tr>
<tr>
<td></td>
<td>7.6(W) X 4.9(H) X 1.2(D) inch</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>Approx. 720g</td>
</tr>
<tr>
<td><strong>Supplied acc’y</strong></td>
<td>Power Cord (1)</td>
</tr>
<tr>
<td></td>
<td>Screw Kit (1)</td>
</tr>
<tr>
<td></td>
<td>Stand Bracket (1)</td>
</tr>
<tr>
<td></td>
<td>Sun Visor (1)</td>
</tr>
<tr>
<td></td>
<td>Instruction Manual (1)</td>
</tr>
</tbody>
</table>
THIS SYMBOL MEANS DO NOT DISPOSE OF AS MUNICIPAL WASTE. RE-USE OR RECYCLE WHEREVER POSSIBLE. ELECTRICAL / ELECTRONIC COMPONENTS MAY CONTAIN SUBSTANCES WHICH ARE HARMFUL TO THE ENVIRONMENT. FOR ENVIRONMENTALLY SOUND METHODS OF DISPOSAL, PLEASE CONTACT YOUR LOCAL GOVERNMENT AUTHORITY.