



# DIGITAL RADIO KIT HORIZON STELLAR PRO

## USER MANUAL

USER MANUAL | MODE D'EMPLOI | MANUAL DE INSTRUCCIONES | MANUALE D'ISTRUZIONI



**DIRECTLY TO THE SHOP**  
VIA QR CODE

**VEGA SOLUTIONS GMBH**  
BELGISCHE ALLEE 51A  
53842 TROISDORF - GERMANY  
INFO@VSG24.COM | WWW.VSG24.COM

Dear customer!

Thank you for choosing the VSG24.com reversing system! For optimal performance and safety, please read this user manual carefully before using the device and keep it in a safe place for future reference. Please pay close attention to all safety and warning instructions for this device! The illustrations shown in this manual are for explanatory purposes only and may differ slightly from the actual display of your device. This manual is intended to help you get started with your device quickly and easily.

If you have any further questions, please contact us by phone at **+49 2241/2008040** or by email at **info@vsg24.com**.

Or in writing to:  
**Vega Solutions GmbH - Belgische Allee 51A - 53842 Troisdorf - Germany**

We hope you enjoy your new device!

Your VSG24.com Team.



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### 3 | DIMENSIONS

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### **CLEANING, MAINTENANCE AND REPAIR: IMPORTANT INFORMATION FOR THE SAFE OPERATION OF YOUR DEVICE**

#### **Cleaning the device**

Before cleaning, always disconnect the device from the power source by unplugging it or switching off the power. As the housing is mostly made of plastic, please do not use liquid cleaners, sprays or chemical cleaning agents such as benzene. These can damage the material.

#### **RECOMMENDED CLEANING METHODS:**

**Light soiling:** Simply wipe the device with a soft, dry cloth.

**For more stubborn dirt:** Use a slightly damp cloth with a mild, neutral cleaning solution. Then wipe with a dry cloth.

Important: Only clean the exterior surface of the device. Opening the housing is strictly prohibited, as life-threatening voltages may be present inside the device! Use standard lens cleaning cloths to remove fingerprints, and for particularly stubborn dirt, special lens cleaning agents may be used.



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### MAINTENANCE AND REPAIR

Never open the housing yourself to carry out maintenance or repairs. Any improper interference may compromise the electrical safety of the device and void your warranty. Always entrust maintenance and repairs to qualified professionals.

If condensation forms inside the device, switch it off immediately. Condensation can cause the monitor to malfunction. In this case, leave the device at room temperature until it is completely dry.

### IMPORTANT SAFETY INSTRUCTIONS

**Heat generation:** Ensure that the monitor is sufficiently ventilated to regulate heat build-up.

**Cable management:** Make sure the power cable is safely routed so that no one steps on it or it becomes pinched, especially at the plug and the cable outlet of the device.

**Reversing camera:** Never use a high-pressure cleaner to clean the camera, and avoid car washes. The high forces could damage the seals.

If you notice unusual smells or smoke, switch off the device immediately and contact a specialist dealer. This ensures that the device can continue to be used safely and reliably.



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- Camera 1
- Camera 2
- Quad 1-4
- DC12V-32V
- Camera 2
- Camera 4
- Ground

### Commissioning the monitor

The monitor is ready for use as soon as it is switched on and connected to a 12-24V power supply. It automatically calibrates with the camera and immediately displays the image. No additional settings are required.

### Mounting the bracket

Attach the supplied bracket at the desired position. Depending on your needs, a suction mount, screw mount, and adhesive mount are included.

### Connection

First, connect the supplied main cable to the monitor. Insert the plug end with the 8-13 pins into the matching socket on the monitor. Make sure that the arrows printed on the cables are aligned and the connection can be made without much resistance. This ensures that the pins are correctly aligned with the socket. Then secure the connection additionally with the locking screw.

In the second step, establish the power connection to your vehicle. Connect the black power wire of the main cable to the vehicle ground. Usually, the vehicle frame can be used for this purpose as it serves as ground. The red power wire (ACC) should be connected to a 12-32V ignition power source. A good option is to tap into the ignition power behind the car's cigarette lighter (alternatively terminal 15). This way, the entire system is activated or deactivated by inserting or removing the car key.

### Optional

Additionally, the monitor features an automatic power-on function (AUTO-ON) via an extra trigger cable, individually assigned to each camera input. When AUTO-ON is activated, the monitor automatically turns on when reverse gear is engaged. To use this, in addition to the already connected red and black power cables, the green trigger cable (Camera input 1) or the white trigger cable (Camera input 2), etc., must be connected to the 12V+ line of the reversing light, indicator, or brake light. When the yellow trigger cable is connected, all 4 camera inputs are displayed on a split screen. Please note that menu navigation on the monitor is not possible while the reverse light or trigger cables are powered.

- Split and multi-view display
- Switchable distance lines
- Comfortable touch button operation
- Pairable with up to 4 cameras
- High-definition resolution with rich details
- Video recording for all cameras
- Multiple mounting options
- Individual control of each camera



### Commissioning the camera

The camera is automatically calibrated with the monitor in its delivery state and immediately provides a video signal. No additional settings are required. As soon as the camera is supplied with power, it is ready for operation and transmits the image directly to the monitor.

### Power supply of the camera

The camera is powered directly via the cable included in the delivery. No battery or charging is required. You can connect the camera to terminal T5 (ignition), the reverse light, or the vehicle lighting. This ensures that the camera is only activated when the vehicle is in operation or the reverse light is active. Make sure all connections are secure and tight to ensure reliable operation.

### Mounting the camera

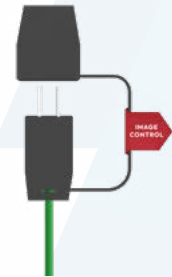
The camera is firmly mounted on the vehicle to ensure a stable and secure position. Use the supplied screws and brackets. Make sure the camera is correctly aligned during installation so that the field of view is optimally covered and the camera does not shift due to vibrations. A small tube of sealing compound is included in the set for weatherproof sealing. Apply it to the mounting holes or around the bracket to reliably prevent moisture from entering.

### Enable or disable mirror function

The camera is equipped with an „IMAGE CONTROL“ jumper that allows image mirroring to be controlled.

1. For use as a **rear-view camera**: leave the cap on – the image is mirrored.
2. For use as a **front or side camera**: remove the cap – the image is not mirrored.

This setting allows optimal adaptation to the respective installation situation.



- High-definition image quality
- IP69K weatherproof
- 130° wide-angle lens
- Integrated heater

- Built-in microphone
- Intelligent View
- Robust construction
- Corrosion-protected housing



### Connecting the HORIZON STELLAR camera to the monitor

1. First, disconnect ALL cameras from the power supply.
2. Press the **AV button** (Button 7) until the desired single view (Camera 1, 2, 3 or 4) is displayed.
3. Open the menu by pressing the **Menu button**. Then navigate to „PAIRING“ and confirm with the **AV button**.
4. A 30-second countdown with the message „PAIRING START“ will appear on the screen. **Connect the camera** to the power supply within this time.
5. After the countdown, the camera is successfully connected to the monitor.

If you want to connect more cameras, repeat this process for the respective views.



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- 1 POWER
- 2 NAVIGATE LEFT
- 3 NAVIGATE RIGHT
- 4 MENU
- 5 NAVIGATE DOWN
- 6 NAVIGATE UP
- 7 VIDEO CHANNEL / CONFIRM (AV)

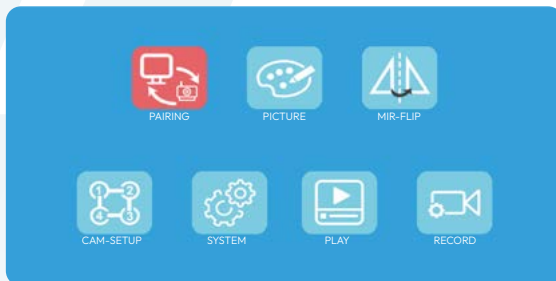
When you switch on your monitor for the first time, it will automatically start in full-screen mode of camera 1. By pressing the AV button, you can switch between the different viewing modes. The monitor can manage and display up to four cameras simultaneously. You have ten different viewing options in split or multi-screen mode. Please note that additional cameras are available as optional accessories and are not included in the scope of delivery.

### MENU FUNCTIONS

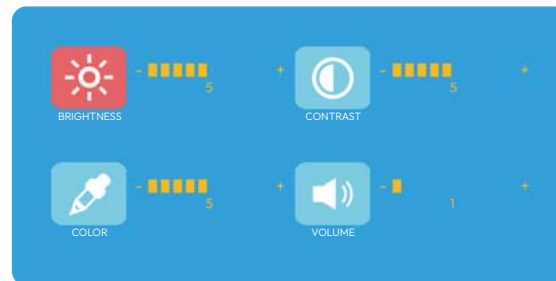
The menu can only be accessed in the current full-screen mode. Changes to image, mirroring or distance lines only apply to the currently selected camera in full-screen mode.

To access the main menu, press the **MENU** button. In the main menu, navigate left or right using **BUTTONS 2 and 3** (◀ | ▶). Confirm your selection with the **AV BUTTON (7)** to enter the corresponding submenu, if available.

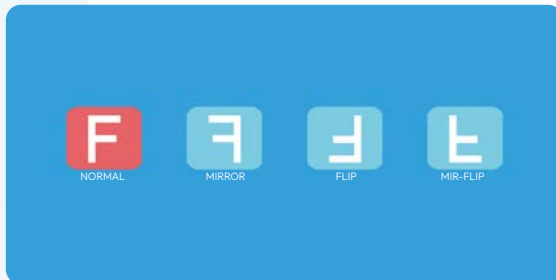
## MAIN MENU



## IMAGE ADJUSTMENTS



## MIRROR & ROTATION



## SYSTEM SETTINGS



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## Change language

1. Open the menu by pressing the **MENU** button.
2. Navigate to the main category “SYSTEM” (indicated by the gear icon) and confirm the selection with the **AV button** (Button 7).
3. Press **Button 3** (▶) to go to the “LANGUAGE” option.
4. Confirm the selection with the **AV button**.
5. Use **Button 2** (◀) and **Button 3** (▶) to select the desired language.
6. Save the setting with the **AV button**.
7. The menu closes automatically after a few seconds.

### Available languages:

German, English, French, Spanish, Italian

## Image settings

1. Press the **MENU button** to open the settings menu.
2. Press **Button 3** (▶) to navigate to the main category “IMAGE” and confirm with the **AV button** (Button 7).
3. You are now in the submenu for image settings. Here, you can adjust brightness, contrast, color saturation and volume.
4. Use the **arrow buttons** (◀ | ▶ | ▼ | ▲) to navigate to the desired option.
5. Confirm the selection with the **AV button**. The selected option will be highlighted in red.
6. Adjust the value using the **arrow buttons** (◀ | ▶).
7. Press the **AV button** again to save the changes.
8. The menu closes automatically after a few seconds.

TIP: Volume can also be adjusted directly in the camera view using **Button 2** (◀) and **Button 3** (▶).



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### Camera settings

1. Press the **MENU button** to open the main menu.
2. Press **Button 3 (▶)** three times to navigate to the main category "CAMERA SETUP" and confirm with the **AV button** (Button 7).
3. In the submenu, you can activate additional cameras.
4. Use the **arrow keys** (◀ | ▶ | ▼ | ▲) to navigate to the desired option.
5. Confirm your selection with the **AV button**. The selected option will be highlighted in red.
6. Use the **arrow keys** to activate or deactivate the desired cameras.
7. Save your changes with the **AV button**.
8. The menu will disappear automatically after a few seconds.

With the activated "AUTO CYCLE" mode, you can set the camera views to switch automatically. Under "CYCLE TIME" you define how many seconds each view should be displayed.

TIP: Deactivate all unused camera inputs – this will automatically disable and hide irrelevant multiscreen views.

### Mirroring and rotation

1. Press the **MENU button** to open the main menu.
2. Press **Button 3 (▶)** twice to navigate to the main category "MIRRORING" and confirm your selection with the **AV button** (Button 7).
3. You are now in the submenu for mirroring settings. Use the **arrow buttons** (◀ | ▶) to select the desired setting. A preview of the change will be shown automatically in the background.
4. Confirm the selected option with the **AV button**.
5. To exit the menu, press the **MENU button** again or wait until the menu closes automatically after a few seconds.

NOTE: The deactivation of the mirror image is controlled by the hardware jumper on the camera. To activate the corresponding menu option on the monitor, the jumper cap must be removed from the camera.

Detailed instructions can be found on **page 26** of this manual.



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### Setting the distance lines

In the camera view, you can show or hide the distance lines using **button 6 (▲)**.

Alternatively, they can also be shown or hidden via the menu:

1. Press the **MENU button** to open the main menu.
2. Use the **arrow keys** to navigate to the main category "SYSTEM" and confirm with the **AV button** (button 7).
3. Press **button 5 (▼)** twice to reach the "P-LINES" option.
4. Select the option with the **AV button**.
5. Change the setting with **button 2 (◀)** or **button 3 (▶)** to show or hide the parking lines.
6. Save your selection with the **AV button**.
7. The menu closes automatically after a few seconds.



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#### AUTOMATIC RECORDING FUNCTION OF THE SCREEN

The screen has an automatic recording function that records all active cameras in a loop. This means a new video file is created every minute.

To use the recording function, please follow the steps below:

##### 1. Insert SD card:

First, insert an SD card (maximum 128 GB, Class 10) into the screen. On the back you will find a card slot secured with a screw.

##### 2. Format memory card:

- Press the **MENU button** to open the main menu.
- Use the **arrow keys** to navigate to the "RECORD" menu.
- Press the **AV button** (Button 7) to open the formatting menu.
- Navigate to the "FORMAT" option using **Button 3 (▶)** and confirm with the AV button.
- Press **Button 3 (▶)** again and confirm with the **AV button** to start formatting.

The memory card will now be formatted and ready for use.

##### 3. Start and stop recording:

Press and hold the **AV button** for several seconds to start or stop a recording. (A red circle will appear at the top right of the screen.)

##### 4. Play a video:

To access the video archive, press the MENU button and then press Button 3 (▶) five times to navigate to the main category "PLAYBACK." Confirm the selection with the AV button. In the submenu, the MEDIA100 folder will be displayed. Select it by pressing the AV button. The files will now be shown. Navigate with Buttons 2 and 3 (◀▶) to the desired file and confirm with the AV button. The selected video will now play.



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INCLUDED IN THE 10-INCH MONITOR SET

**1. Clean the windshield**

Thoroughly clean the desired spot on the windshield using a lint-free cloth and glass cleaner to remove dirt, dust, and grease. The suction cups will only adhere reliably to a clean surface.

**2. Attach and secure the mount**

Position the mount with the monitor at the desired spot on the windshield. Firmly press the suction cups against the glass and push down the three locking levers to securely fix the mount.

**3. Attach and secure the mount**

Position the mount with the monitor at the desired spot on the windshield. Firmly press the suction cups against the glass and push down the three locking levers to securely fix the mount.

**4. Adjust the monitor alignment**

Loosen the adjustment knob to fine-tune the tilt and orientation of the monitor. Then tighten the knob again to secure the chosen position.



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INCLUDED IN THE 7-INCH MONITOR SET

**1. Clean the windshield**

Thoroughly clean the desired spot on the windshield using a lint-free cloth and glass cleaner to remove dirt, dust, and grease. The suction cups will only adhere reliably to a clean surface.

**2. Attach and secure the mount**

Position the mount with the monitor at the desired spot on the windshield. Firmly press the suction cups against the glass and push down the three locking levers to securely fix the mount.

**3. Attach and secure the mount**

Position the mount with the monitor at the desired location on the windshield. Press the suction cup firmly and secure the mount by folding down the locking lever.

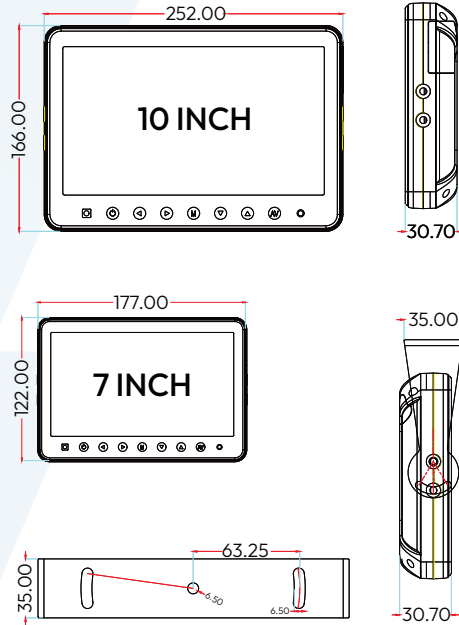
**4. Adjust monitor alignment**

Loosen the two fasteners to precisely adjust the tilt and alignment of the monitor. Then retighten them to securely hold the chosen position.



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Technical specifications	Details
Screen size	7 inch or 10 inch
Recording	YES (max 128 GB)
Contrast	5:1
Resolution	1080p
Brightness	700 cd/m <sup>2</sup>
Response time	25 ms
Camera control	Individually per camera
Power consumption	3.5 watts
Power supply	DC12V -32V
Operating temperature	-20°C to +70°C



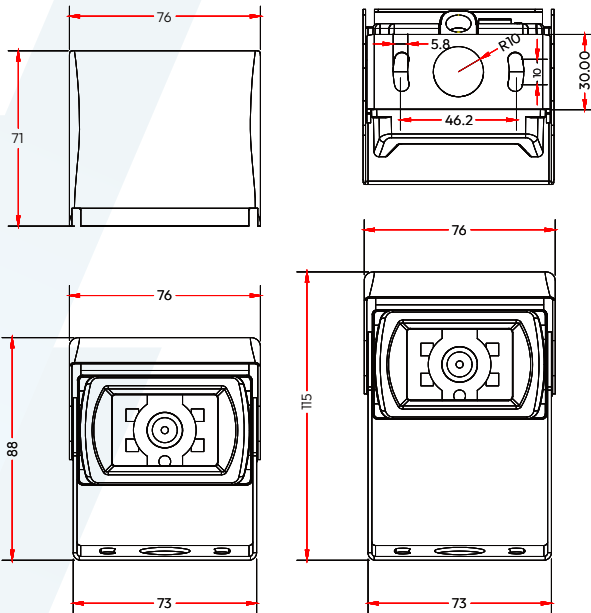
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SCAN ME

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# 18 | CAMERA SPECIFICATIONS

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Technical specifications	Details
Protection rating	IP69K
Viewing angle	130°
Audio	Microphone
Night vision function	4 POWER LEDs
Resolution	HD RESOLUTION
Wireless range	33 meters
Heating function	Automatic < 5°C
Power consumption	2.7 watts
Power supply	DC12V-32V
Operating temperature	-20°C to +70°C



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## 1. My monitor is not responding, what should I do?

First, check the power supply and make sure that at least 12 volts are present and the monitor is properly connected. Also check whether the monitor is set to the correct camera input channel.

## 2. Cameras are not displayed or no image is transmitted.

Make sure that the camera and monitor are correctly connected and connected to a stable power supply with at least 12 volts. Then repair the monitor and camera.  
See user manual, **page 27**.

## 3. The camera image is rotated or mirrored.

The monitor offers image adjustment options. Using the settings menu, you can rotate or mirror the image to suit your needs. If this option is grayed out, make sure you have followed the instructions regarding the camera's jumper.  
You can find help on **pages 26 and 31**.

## 4. Where do I insert the SD card?

The SD card slot is located on the back of the monitor. Open the cover and gently insert an SD card until it clicks into place. The card size is limited to a maximum of 128 GB.

## 5. How many GB can the SD card have?

The monitor supports SD cards up to a size of 128 GB. It is recommended to use a Class 10 SD card to ensure optimal recording quality.

## 6. How do I start video recording?

Video recording starts automatically as soon as the monitor is switched on and an SD card has been inserted. In the "RECORD" menu, you can enable or disable loop recording and set the duration of individual video files.

**NOTE:** The SD card must be formatted before first use.  
See **page 33** for help.



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