

Wired AI System kit

K007180

Manual for installation, use and
maintenance



Index

Revisions	5
Purpose and field of use	5
Key	6
Safety instructions and warnings	7
Disclaimer	8
Warnings on the emission of radio waves	10
Intended use	11
Use not permitted	11
Limitations on liability	13
Technical assistance and manufacturer's warranty	15
General description	17
Devices description	18
Accessories	19
Monitor Technical data	20
Camera Technical data	22
Installation	24
Installation on bracket	25
Installation of Center Mounting Bracket	26
Installation of U-Support Bracket	27
Installation warnings	28
Installation tips	29
Installation scheme	33
Use and maintenance	35
Pedestrian Detection Functions	36
Remote control operation	37

Menu operation	40
Home Menu	43
Volume	44
Brightness	45
Mode	46
Split setup	47
Setting	50
Camera	51
Keyboard	53
Parking line	55
Language	56
Trigger	57
Input panel	58
Priority	59
Display	60
Auto Scan	61
Power on	63
Standard	64
Format menu	66
System	67
Auto Dimmer	69
Maintenance	70
End of life - disposal instructions	71
What to do if	72

Revisions

Version	Comments	Chapters edited
00	First issue	All
01	Technical data update End of life	Monitor Technical data End of life-disposal instructions




Tab.1 - Document revisions

Purpose and field of use

Users	<p>Installer; Operator of the vehicles on which it is installed; Qualified personnel authorised to maintain the device.</p>
Scope	<p>Provide information needed for:</p> <ul style="list-style-type: none"> ➤ The correct installation of the device; ➤ The correct awareness of operators to safety issues; ➤ Using the device under safe conditions.

Tab.2 - Purpose and field of use

Key

	Warning/Caution - Important safety information
	General information and suggestions
	PROHIBITION: Operations or actions NOT permitted.

Tab.3 - Key

Safety instructions and warnings



The device must be operated by appropriately trained and qualified personnel.



Before installing and operating the device, please read and understand this manual carefully to avoid damaging the product and putting your own safety at risk.



The technical information in this document is provided for information purposes only and does not constitute a contractual commitment.

Kiwitron reserves the right to make any graphic or functional changes to devices and/or software without prior notice.



The device **cannot** replace the safety devices of the vehicle on which it is installed.



The device **must** be installed in compliance with general safety regulations.



Do not use the device in the presence of flammable gases or fumes, in the vicinity of filling stations, fuel depots, chemical plants or during blasting operations. **Avoid any potentially explosive atmosphere.**

Disclaimer

This kit utilizes leading technologies of computer vision and deep learning, but does not guarantee 100% accuracy in identifying vehicles, pedestrians, lane markings, traffic signs, etc., nor does it ensure 100% precise alerts or output signals under all circumstances. During the driving process, drivers must remain vigilant and attentive at all times, maintain full control of the vehicle throughout operation, use driving assistive functions judiciously, and assume full responsibility for driving safety.

The product primarily analyzes and processes visual imagery. Performance degradation or functional limitations may occur due to factors including but not limited to lighting conditions, weather, and clothing/posture variations that affect visual system effectiveness.

- Foreign materials or obstructions on the camera lens (e.g., stains, oil residues, water marks, dust and fingerprints) may also impair product performance. Please ensure that the lens remains clean and unobstructed for optimal operation.
- Severe weather conditions including rain, snow, fog, haze, sandstorms, typhoons, or tornadoes may compromise product performance.
- Suboptimal lighting environments may reduce product effectiveness, including but not limited to: low-light scenarios (backlighting, tunnels, culverts, nighttime), and exposure to intense light sources (high-beam headlights, spotlights, lasers, flames, explosions).
- Special vehicle configurations may evade accurate identification, including vintage/classic vehicles, unconventional/exotic vehicle

models, specialized engineering vehicles, and trailers carrying atypical cargo.

- Pedestrians wearing low-contrast attire (e.g., camouflage), unconventional clothing, assuming atypical postures, or under partial occlusion may challenge recognition systems.

This product is classified as a Driver Assistance System. Neither its AI functionalities, alerts, nor signaling outputs—whether active or inactive—shall absolve, mitigate, transfer, or otherwise alter the driver’s legal obligations. The driver must maintain continuous focus on driving, exercise complete vehicular control, and acknowledge that sole responsibility for vehicle operation and driving safety rests with the driver.

Warnings on the emission of radio waves



The device receives and emits radio waves.



The maximum power radiated by the device is below the thresholds imposed by the regulations.



Interference may be generated if used in the vicinity of equipment such as TVs, radios, computers or any unshielded electrical and/or electronic equipment.



Observe the restrictions imposed on the use of electronic devices and magnetic components if the vehicle on which the device is installed is used in hospitals (or other health facilities) or near an airport. In all areas where there are restrictions imposed due to the use of electronic devices.



Keep magnetic components away from medical devices such as pacemakers or hearing aids, as magnetic fields may interfere with their operation.



Avoid handling magnets near sensitive measurement instruments or unshielded electronic equipment.

Intended use

The kit is designed to be installed on forklifts or small manually operated vehicles. It enables AI-based detection of people at a maximum distance of 15 meters. The operator is alerted through both acoustic and visual feedback.

Use not permitted

Any use of the device not expressly described in this manual is not permitted.

And in particular:



Do not expose the monitor to excessive heat or coldness



Do not use this device near a bathtub, wash basin, kitchen, damp basement, swimming pool or similar places



Do not use this device in the environment with excessive moisture, dust or smoke.



Avoid dropping or striking.



Do not use this device in areas with excessive vibration or subject to severe impacts.



Do not puncture, scratch or use abrasive cleaning materials on this device.



Do not place cables where they may be pinched or stepped on.



Leave at least a 2" space between the monitor and walls, cabinets or other objects to allow adequate air circulation around the device.



The monitor is not designed to be waterproof.

Limitations on liability

Kiwitron disclaims any liability for damage caused by:

- Misuse of the device.
- Use by unqualified and/or trained personnel.
- Incorrect installation.
- Power supply defects.
- Improper maintenance.
- Unauthorised changes or interventions.
- Incorrect manoeuvres.
- Use of non-original spare parts.
- Use of accessories not foreseen or not authorized in writing.
- Total or partial non-compliance with the instructions.
- Unusual cases.
- Cases not in accordance with the regulations and legislation currently in force in the country of installation.

Kiwitron is not responsible for any use of the device by the end customer that differs from its intended use, as defined in the product documentation and technical specifications.



The device is configurable and may be adapted to different operating modes based on customer requirements.

Kiwitron cannot foresee all possible applications of the device and therefore declines any liability for improper or unlawful use, including any infringement of third-party rights such as patents or other industrial property rights.



Kiwitron is relieved of any responsibility in the case of installation of the device on vehicles also authorised for use on public roads: it is in fact the responsibility of the operator to decide on the installation and use of the device on the vehicle.

Technical assistance and manufacturer's warranty

Technical assistance

In the event of faults, please contact Kiwitron technical assistance department.

Kiwitron

Customer service

Tel. +39 051 1889 3470

Mail: support@kiwitron.com

web site: www.kiwitron.com

Warranty

The warranty is not applicable following breakages and/or defects caused by:

- Misuse of the device.
- Use by unqualified and/or trained personnel.
- Incorrect installation.
- Power supply defects.
- Improper maintenance.
- Unauthorised changes or interventions.
- Incorrect manoeuvres.
- Use of non-original spare parts.
- Use of accessories not foreseen or not authorized in writing.
- Total or partial non-compliance with the instructions.
- Unusual cases.
- Cases not in accordance with the regulations and legislation currently in force in the country of installation.



The warranty does not extend to parts that wear out following normal use such as electrical cables and connectors.

Refer to the sales documentation to find out all the contractual warranty terms.

General description

Devices description

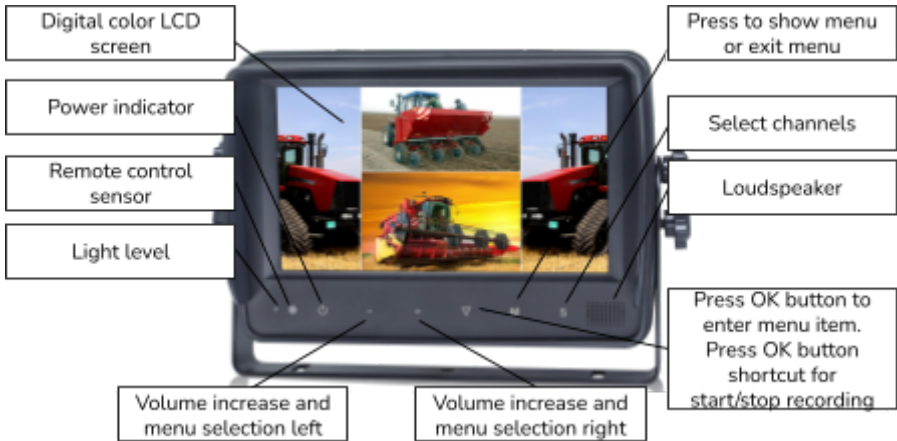


Fig.1 - Display overview - front

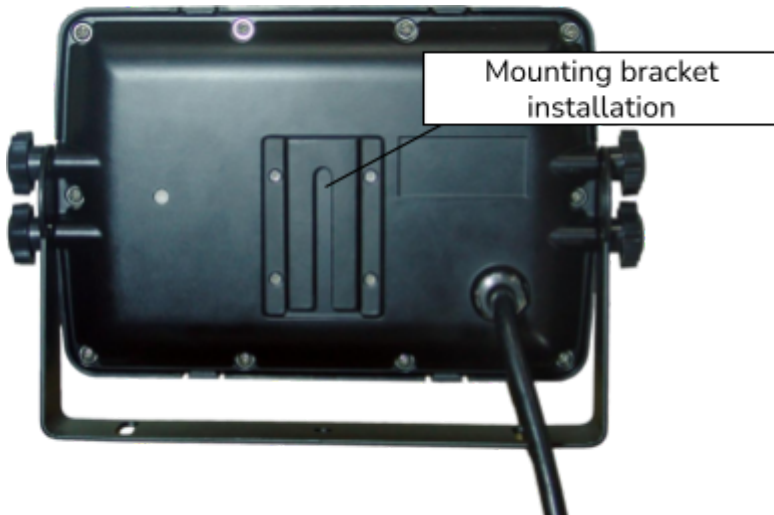


Fig.2 - Display overview - rear

Accessories

Kit accessories	
 U-support bracket	 Center mount bracket
 Sun shield	 Angle adjustments screws
 Power cable	 Power cable extension - 5m
 Remote control	 Hexagon wrench for camera Angle adjustment

Fig.3 -Accessories

Monitor Technical data

Mechanical specifications

LCD Dimensions	7 inch 178 mm
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Electrical specifications

Power supply (Vdc)	10-32; 12-24V batteries; Short circuit protection.
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Speaker power	1.5W
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Environmental condition

Waterproof rating	IP66
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Operating temperature	-20~+70°C, RH90%
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Storage Temperature	-30~+80°C, RH90%
---------------------	------------------

Display parameters

Resolution	1024(RGB) x 600
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Video Formats Supported	1080P30, 1080P25, 720P30, 720P25, PAL, NTSC
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Display Modes Available	Single, dual, triplex, quad, trefoil, Y-split, and PIP view
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Independent Channel Image Adjustment	Each channel supports horizontal/vertical mirror adjustment
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Monitor Technical data

LCD Adjustment	Backlight	60-level manual (high/low sensitivity) + 2-level auto
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Adjustable Parking Lines

Touch Screen Support	Capacitive touch screen with gesture detection; iconic menu
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Remote Operation Support

Language support	English, French, Spanish, Dutch, Italian, German, Russian, Portuguese, Polish, Turkish, Japanese, Chinese
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Camera Input	4 HD camera inputs Split-view display mode
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Independent Channel Image Adjustment	Each channel supports horizontal/vertical mirror adjustment
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Installation and Operation	Easy installation and operation; innovative features
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Application	Indoor/outdoor security, vehicle and ship surveillance
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Installation and Operation	Easy installation and operation; innovative features
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Camera Technical data

Mechanical specifications

Dimensions	3,84 x 2,96 x 2,83 inch 97,5 x 75,3 x 72 mm
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Weight	470 g 16,6 oz
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Wire length	0.5m
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Electrical specifications

Power supply (Vdc)	10-32
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Power consumption (W)	4 (12 V IN)
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Rated current	Without lights: 320mA; With lights: 470mA
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Environmental condition

Waterproof rating	IP69K
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Operating temperature	-20~+70°C, RH95%MAX
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Storage Temperature	-30~+80°C, RH95%MAX
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Video and communication

Resolution / Frame Rate	HD 1920×1080 / 25fps or 1920×1080 / 30fps
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Video output	AHD (1.0Vp-p, 75 Ohm)
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Camera Technical data

Audio output	Warning acoustical signal output
Communication interface	USB 2.0(For Software upgrading)
Detection distance	0,5~20 m
Viewing angle	150°

Tab.4 - Technical data

Installation

Installation on bracket



Make sure that there is no electrical voltage before carrying out the assembly steps.



In case of installation or use of device by personnel equipped with medical devices (e.g. pacemakers, etc...) follow the instructions of the medical device manufacturer.



It is forbidden to place device near sources of strong heat or exposed to bad weather.



It is forbidden to install the device in positions that influence or limit the safety and visibility of the driver.



Do not use pressure washers; in case of sanitization or cleaning interventions inside the cabin that require the use of water and detergents, it is recommended to protect the wiring, disconnect, and remove the device during the operations. Reconnect it once the cleaning is completed.



It is forbidden to make fixing holes on the vehicle structures in order to install the device. Use brackets or fastening systems that do not compromise the structure of the vehicle.

Installation of Center Mounting Bracket

Adjust monitor level by sliding the support to the desired height.

Adjust the angle of the monitor and tighten the knob on the center mounting bracket.

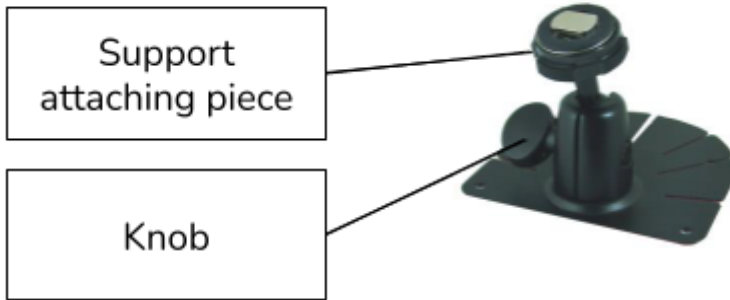


Fig.4 -Installation of Center Mounting Bracket

Installation of U-Support Bracket

Align the U-support bracket with the screw holes on both sides of the housing, then screw the star-shaped screws into the screw holes.

Adjust the angle of the monitor, and tighten the star-shaped screws.



Fig.5 -Installation of U-support Bracket

Installation warnings



Do not place the camera on surfaces that are wet, greasy, or heavily painted, as magnetic adhesion may be reduced



Do not expose the camera to extreme heat, open flame, or direct water jets



The monitor must be positioned so as not to obstruct the operator's visibility of the working environment or safety indicators on the forklift



Never modify, drill, or weld on the forks or mast of the forklift to mount the accessories



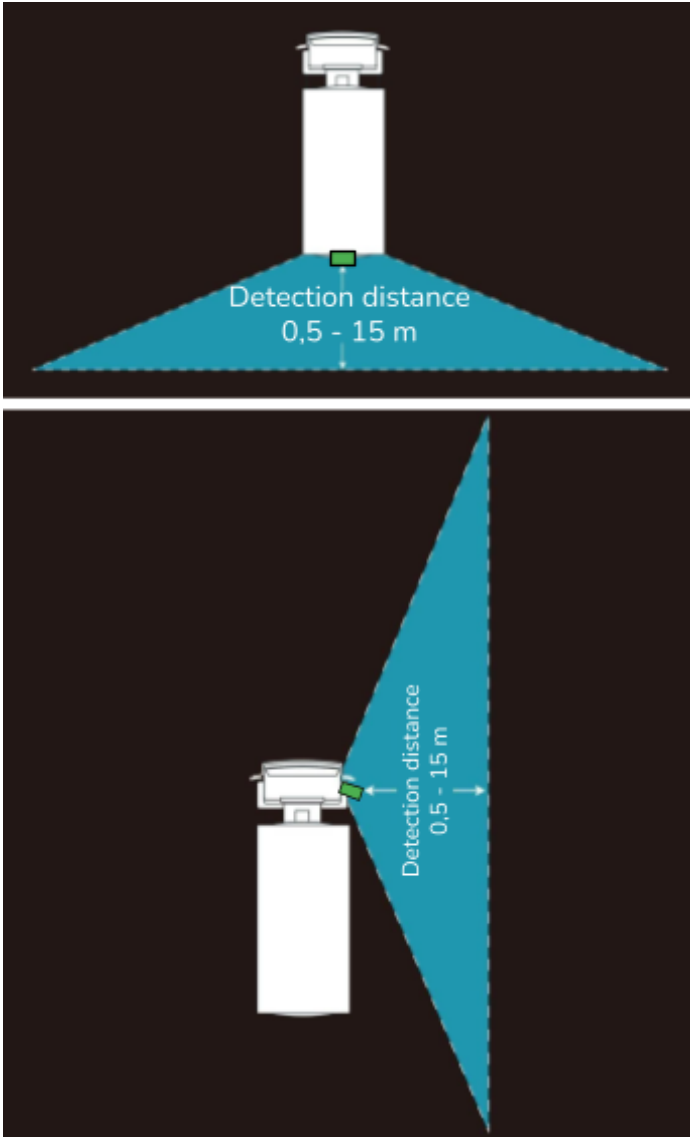
Remove the devices before washing the forklift with high-pressure water or during maintenance operations that may affect magnetic adhesion

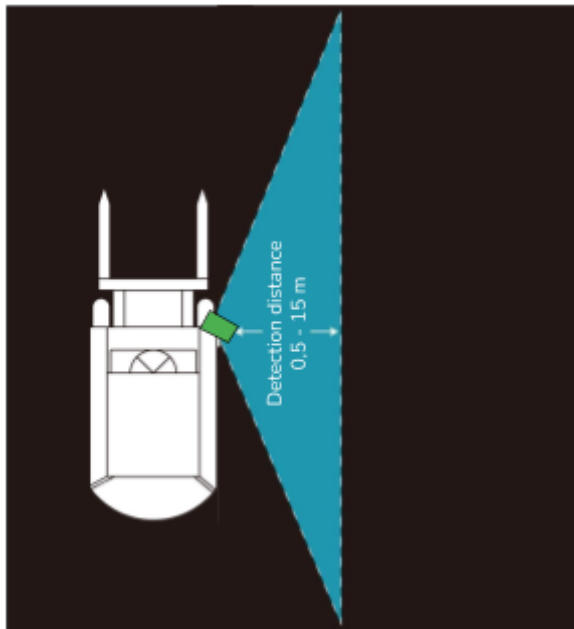
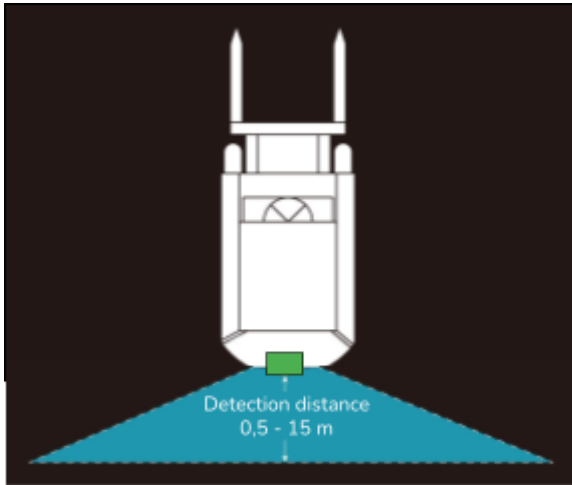
Installation tips

1. Install the **camera** on the vehicle in the driver's required field of view, using the magnetic base. Ensure the surface is clean and free from dust, oil, or debris to guarantee a stable attachment
2. Mount the **camera** on a physical support at a minimum height of 1 m from the ground, with no obstacles within 20 meters in front of it, with perpendicular inclination to the ground (scan beam parallel to the ground).



Camera can be installed on all sides of the vehicle, with viewing angles 150° and the maximum detection distance can reach 15 m, as shown below.



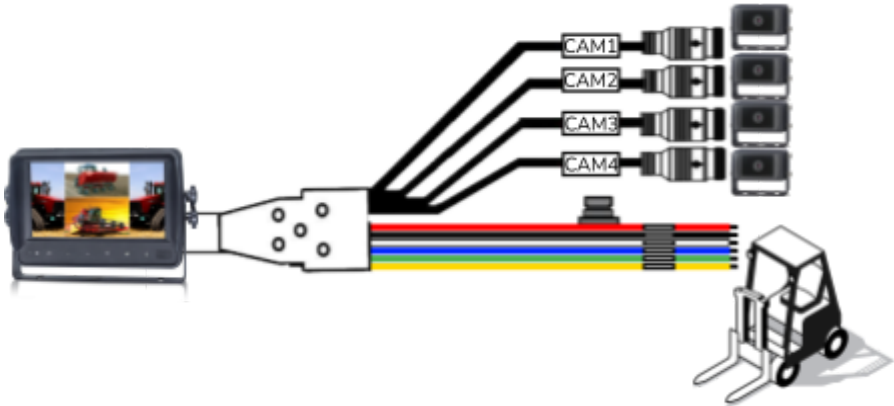


3. Connect the camera using the Power cable extension - 5m and the supplied cable
4. Install the **monitor** inside the operator's cabin, in a position that does not obstruct the driver's view and allows safe operation of the forklift
5. Route and secure any cables so that they do not interfere with moving parts or create trip hazards



Fig.6 - Installation wiring

Installation scheme



CAM1 - White 4P male for Camera 1.

CAM2 - Blue 4P male for Camera 2.

CAM3 -Green 4P male for Camera 3.

CAM4 - Brown 4P male for Camera 4.

Single red wire to Power wire of DC: 10-32V.

Single black wire to GND.

Single white wire to Positive power wire of Camera 1.

Single blue wire to Positive power wire of Camera 2.

Single green wire to positive power wire of Camera 3.

Single brown wire to positive power wire of Camera 4.

Single yellow wire to positive power wire of Camera Split.

Fig.7 -Installation pinout

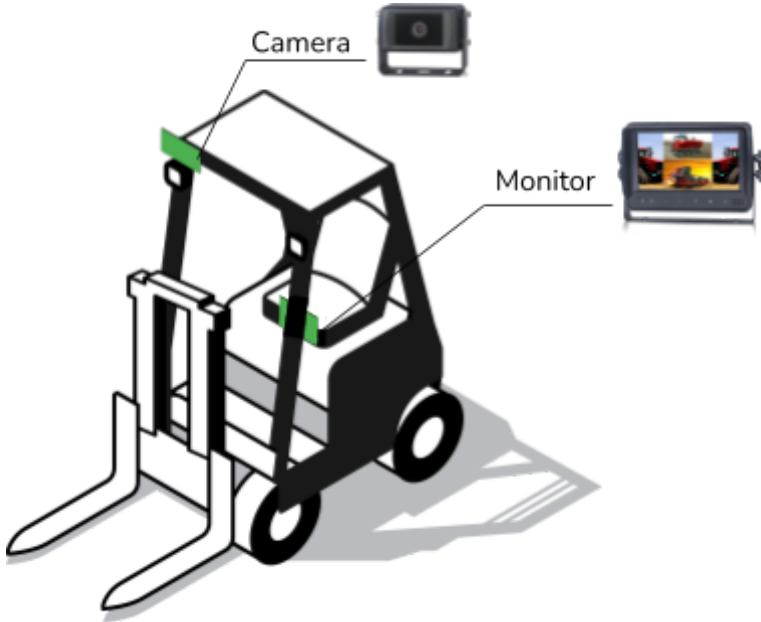


Fig.8 - Installation example

Use and maintenance

Pedestrian Detection Functions

After the device power up or reboot, real-time video will appear on the display automatically. Then, the device will enter and keep in pedestrian detection mode.

To make sure the normal operation of the system, please install the pedestrian detection alarm system carefully according to [Installation](#) chapter.

Function description: When pedestrians appear in Detection Zone, the display will frame them with the corresponding color, and a "ding" alarm with different urgency will be issued. The alarm continues until pedestrians leave the Detection Zone area.

Red box alarm: When a pedestrian is detected and a red box is generated, it indicates entry into the red Detection Zone. The audible alarm consists of three short beeps, with a rapid interval between sounds.

Yellow box alarm: When a pedestrian is detected and a yellow box is generated, the audible alarm consists of two short beeps, with a moderate interval between sounds.

Green box alarm: When a pedestrian is detected and a green box is generated, the audible alarm consists of one short beep, with a steady interval.



When there are multiple boxes for pedestrian detection, the priority of alarm sound is: red box (highest) yellow box (second) green box (lowest). For example, when there are three boxes of red, yellow and green, the default alarm sound is the alarm sound of red box.

Remote control operation

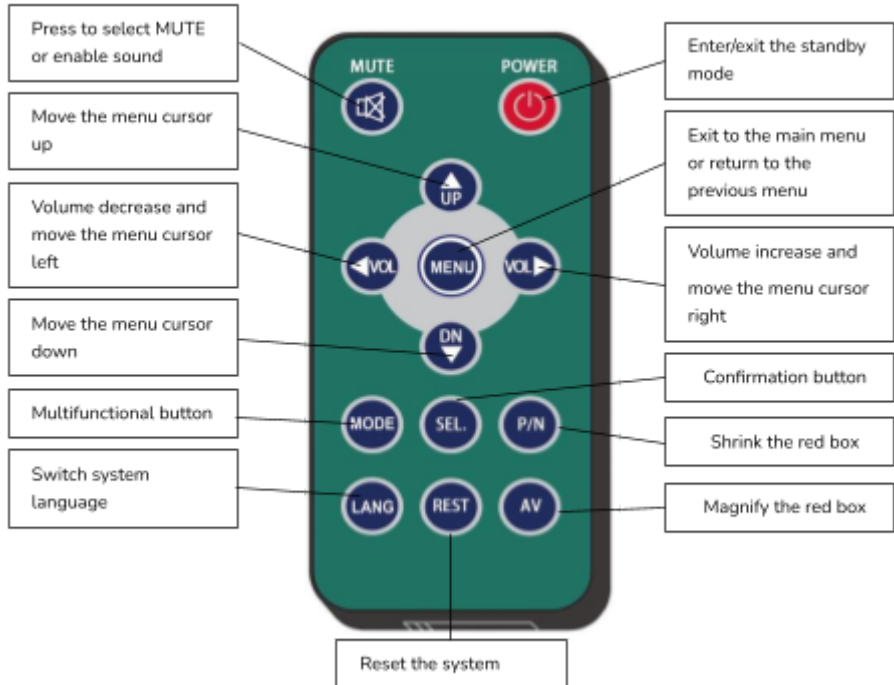


Fig.9 -Remote control

MUTE (Mute)

Mute or unmute the monitor, and open the volume adjustment menu.

POWER (Power switch)

Enter or exit the standby mode.

OK

Press OK button to enter menu item or save user settings. Press OK button - shortcut for start / stop recording.

MENU

Press to show menu or exit menu.

VOL ▷

Open the volume adjustment menu.

Move the red box in the magnified mode.

Move the displayed place of the magnified image; Move the menu cursor.

VOL ◁

Open the volume adjustment menu.

Move the red box in the magnified mode.

Move the displayed place of the magnified image; Move the menu cursor.

UP

Switch the channel without auto scan and trigger function turned on.

Move the red box in the magnified mode.

Move the displayed place of the magnified image.

DOWN

Switch the channel without special mode such as auto scan and trigger function turned on.

Move the red box in the magnified mode.

Move the displayed place of the magnified image.

P/N

Shrink the red box if the red box is shown in the magnified mode.

LANG

Switch to different languages on some menus.

REST

Reset the system.

AV

Magnify the red box if the red box is shown in the magnified mode.

SEL

Enter the menu which the cursor selects;

Show/hide a red box to magnify the displayed area when in single view display mode and without special mode such as auto scan or trigger function turned on;

Magnify the image to full screen when the red box is shown in the magnified mode.

MENU

Exit to the main menu or return to the previous menu;

Return the magnified image to normal size when the green box is shown in the magnified mode.

Menu operation

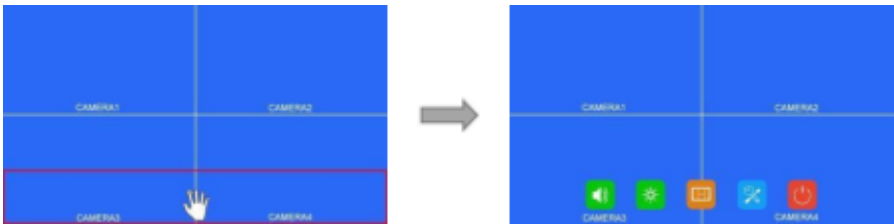
Button Panel Instructions:

Power: Enter/exit standby mode.

● +/-: Increase/ reduce the volume.

▼: Switch display mode.

M: Press for 3s to enable/disable the menu lock; short press to open home menu.



Touch Screen Instructions:

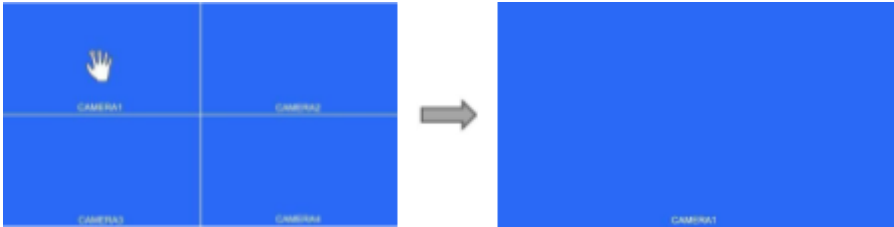
Click the area in the red box as the pic above to open the home menu.



Without special mode such as auto scan or trigger function turned on, the swiping to the left and right of the touch screen can switch the display mode following the order:

CAM1->CAM2->CAM3->CAM4->DUAL->TRIPLE->TREFOIL->Y-SPLIT->H.SPLIT->QUAD->PI P1->PIP2->PIP3->SP->CAM1.

Support swiping up/down to exit/enter the standby mode.



Without special mode such as auto scan or trigger function turned on, and when in split view display (not PIP1/2/3 or SP), single touch one of the channel to enter single view display of the channel, and touch again to enter split view.

Without special mode such as auto scan or trigger function turned on, and when it's split view display (not PIP1/2/3 or SP), double touch different channels will pop up a green semitransparent box, and when the fingers leave the screen, the two channels will exchange the position. If the channel that you want for exchange is not displayed, you may move the touch point to the top of the screen, and the hidden channel will show up.

Without special mode such as auto scan or trigger function turned on, and when it's split view display (not PIP1/2/3 or SP), double touch different channels will pop up a green semitransparent box, and if one of the fingers leaves the screen, when the other moves, then the green box will turn red for choosing audio output channel. If the channel that you want

for audio output is not displayed, you may move the touch point to the top of the screen, and the hidden channel will show up.

Without special mode such as auto scan or trigger function turned on, without menu, and when in single view display, double touch the screen to pop up the red box, increase or shorten the distance between the two points to enlarge/shrink the red box.

Click the area inside the red box to magnify the selected area. When entering the amplified image, the single point dragging can move the image. Single click the magnified image to go back to the normal size. Click the area outside the red box to exit the magnified mode.

Home Menu

Button Panel Instructions:

- Power: Enter/exit standby mode.
- +/-: Move the cursor.
- ▼: Enter the chosen menu.
- M: Exit home menu.



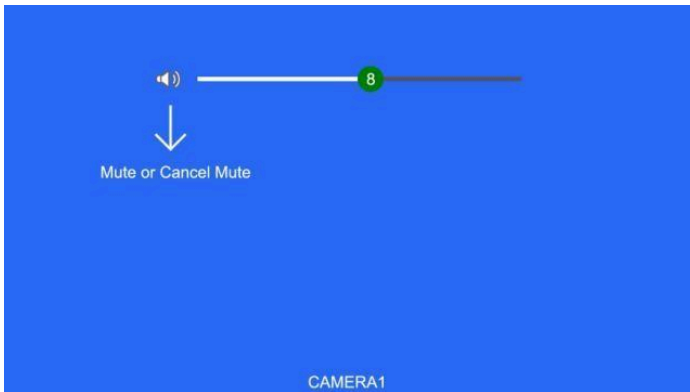
Touch Screen Instructions:

Click the icon to enter the corresponding menu. Click the area outside the white box to exit home menu.

Volume

Button Panel Instructions:

- Power: Enter/exit standby mode.
- +/-: Increase/reduce the volume.
- ▼: Enter/exit the mute mode.
- M: Return to the previous menu.



Touch Screen Instructions:

Touch and drag the volume scroll bar to adjust the volume.

Click the speaker icon to enter/exit the mute mode.

Other Instructions:

When under mute mode, the operation of scroll bar adjustment will cancel the mute.

Brightness

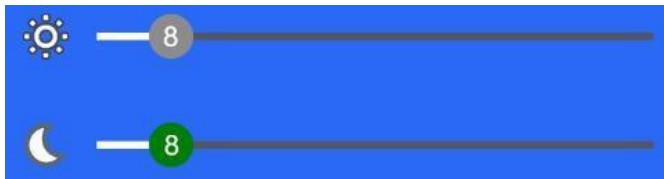
Button Panel Instructions:

- Power: Enter/exit standby mode.
- +/-: Increase/reduce the brightness.
- ▼: Switch the brightness scroll bar when the auto dim is on.
- M: Return to the previous menu.

When auto dim is off:



When auto dim is on:



Touch Screen Instructions:

Drag the brightness scroll bar to adjust the brightness.

Other Instructions:




: Brightness in the day.

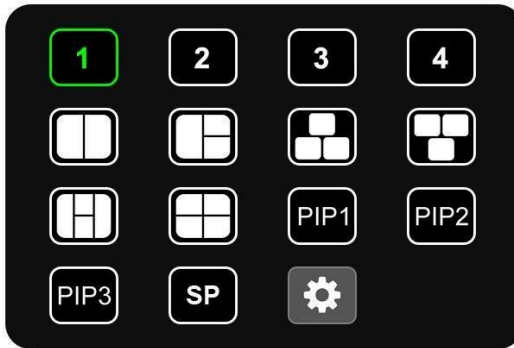


: Brightness at night.


Mode

Button Panel Instructions:

- Power: Enter/exit standby mode.
- +/-: Move the cursor.
- ▼: Use cursor to select the display mode. If icon  is selected, enter Split Setup menu when in split-view display mode.
- M: Return to the previous menu.



Touch Instructions:

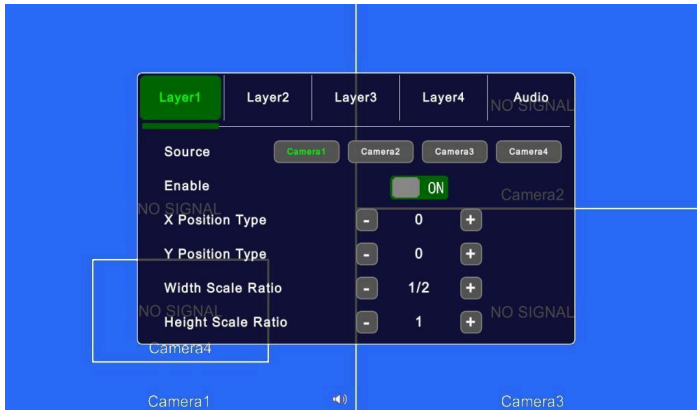
Click the icon to switch to the corresponding display mode; if the icon  is selected, enter Split Setup menu when in split-view display mode.

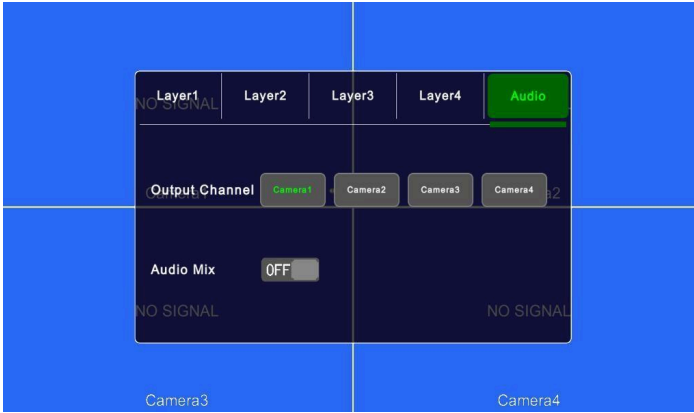
Click the area outside the menu to exit.

Split setup

Button Panel Instructions:

- Power: Enter/exit standby mode.
- +/-: To change the corresponding features of the layer when setting up Layer 1-4; to move the cursor when setting up Audio.
- ▼: Cursor switch.
- M: Return to the previous menu.
- S: Select the camera channel and audio output channel.





Touch Instructions:

Click Layer 1-4/Audio icon to switch the page.

When setting up Layer 1-4: click the combobox will pop up the options list for corresponding feature, and click the option to change the feature, or long press the list and drag it to the option.

Set Audio mix status in Audio menu setting. Turn on/off the audio mix mode and select audio output channels. Multiple audio output channels can be selected when set ON. No audio output available when none of these channels is selected.

IR Instructions:

- LANG: Switch system language.
- UP / DOWN: Same as ▼ on the button panel.
- SEL: Same as S on the button panel.

Features instructions:

- Source: The camera channel being displayed of the layer.
- Enable: If the layer is displayed

The following features are only available when in PIP1/2/3 or SP view display mode.

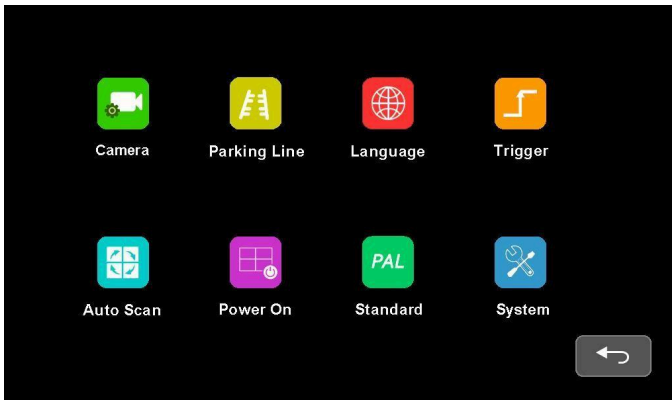
Specially, when in SP view display mode, the setting uses scroll bars for high precision adjustment:

- Width Scale Ratio: The horizontal down scale ratio of the layer.
- Height Scale Ratio: The vertical down scale ratio of the layer.
- X Position Type: The horizontal position of the layer.
- Y Position Type: The vertical position of the layer.
- Output Channel: Audio output channel.
- Audio Mix: Audio mix switch.

Setting

Button Panel Instructions:

- Power: Enter/exit standby mode.
- +/-: Move the cursor.
- ▼: Enter the chosen menu.
- M: Return to the previous menu.



Touch Instructions:

Click the icon to enter the corresponding menu.

IR Remote Instructions:

LANG: Switch system language.

Camera

Button Panel Instructions:


- Power: Enter/exit standby mode.
- +/-: Set up the features the cursor selects.
- ▼: Move the menu cursor.
- M: Return to the previous menu.



Touch Instructions:

Click the camera channel icons on the top to show the parameters of the corresponding channel.

Click the ON/OFF icons or drag the scroll bars to change the features.

Click the icon  to edit the camera channel name.

IR Instructions:

LANG: Switch system language.

UP / DOWN: Same as ▼ on the button panel.

Features Instructions:

Camera Name: Camera channel name.

H Mirror: Horizontal mirror.

V Mirror: Vertical mirror.

Automatic Power: When it's ON, the cameras will be powered only when displayed. When it's OFF, the cameras will be constantly on except in standby mode. When it's CONSTANT, the cameras will be constantly on even in standby mode.

Audio: Volume of the camera channel. Each camera channel has its own volume setting (when under mute mode, the operation of Audio adjustment will cancel the mute).

Brightness: Brightness of the channel.

Contrast: Contrast of the channel.

Color: Saturation of the channel.

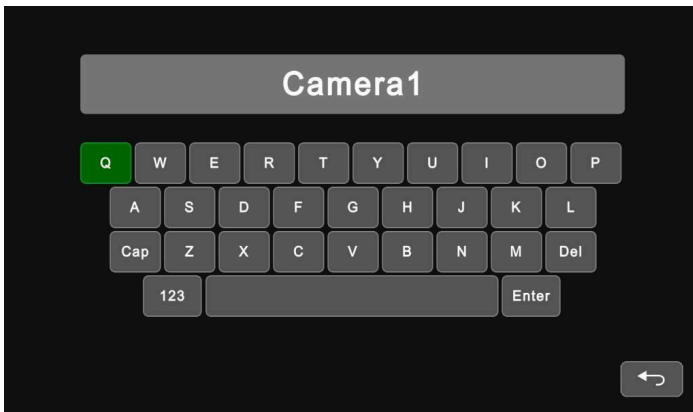
Sharpness: Sharpness of the channel.

Keyboard

Keyboard show up when editing channel name.

Button Panel Instructions:

- Power: Enter/exit standby mode.
- +/-: Move the cursor.
- ▼: Click the chosen icon.
- M: Go back to the Camera menu without saving.



Touch Instructions:

Click the letter icons to edit the channel name.

Clicking the letter edit box can move the cursor and change the cursor position.

IR Instructions:

MODE: Switch the keyboard mode, low-case letters->special numerical character 1->special numerical character 2->capital letters->low-case letters.

SEL: Same as ▼ on the button panel.

SYS: Delete one character before the cursor in the character edit box.

Other Instructions:

The following keys are special for:

- 1) Caps: Switch between capital/low-case letters.
- 2) 123: Switch to special numerical character 1 and 2.
- 3) Del: Delete the last letter before the edit box.
- 4) Enter: Save the revised channel name, and go back to Camera menu.


Parking line

Button Panel Instructions:

- Power: Enter/exit standby mode.
- +/-: Move the cursor.
- ▼: Enter the chosen menu or change the state of ON/OFF/AUTO icons.
- M: Return to the previous menu.



Touch Instructions:

Click the ON/OFF/AUTO icons to select the display methods of parking lines: AUTO (display when triggered) / ON (constantly on) / OFF. Click the icon  to enter parking lines calibration menu “Calibrate”.

IR Instructions:

LANG: Switch system language.

Language

Button Panel Instructions:

- Power: Enter/exit standby mode.
- +/-: Move the cursor.
- ▼: Confirm and switch system language.
- M: Return to the previous menu.



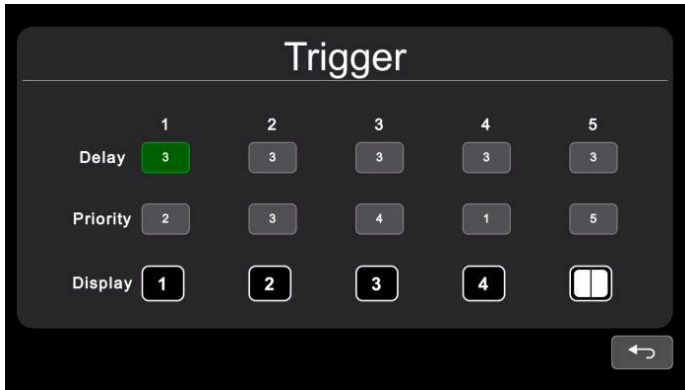
Touch Instructions

Touch icons to switch system language.

Trigger

Button Panel Instructions:

- Power: Enter/exit standby mode.
- +/-: Move the cursor.
- ▼: Pop up the edit menu.
- M: Return to the previous menu.



Touch Instruction

Touch any of “Delay” line to activate digital input box; Touch any of “Priority” line to activate digital selection box. Touch any of “Display” line to activate interface to select display images.

IR Instructions:

LANG: Switch system language.

Feature Instructions:

Delay: Trigger display image duration after trigger signal is disappeared, ranging from 0 to 60 seconds.

Priority: Settings of trigger priorities. Trigger in higher priority can interrupt lower priority trigger. The range of the priorities is 1 to 5. The smaller the number, the higher the priority.

Display: Settings of corresponding trigger display image.

Other Instructions:

Trigger function can interrupt auto scan function.

When the trigger signal is received, the monitor will switch into the trigger display image automatically and resume the previous state before the trigger occurs after delay time.

Support trigger detection in standby mode.

Input panel

Button Panel Instructions:

- Power: Enter/exit standby mode.
- +/-: Move the cursor.
- ▼: Select the chosen icon.
- M: Return to the previous menu without saving.



Touch Instructions:

Touch the icons to edit the value. Settings will return back to previous menu without saving if touch beyond the panel.

Other Instructions:

Input number will turn to 60 if larger than 60.

Enter: Save input. Number input in “Delay” will be saved if return to previous menu.

Del: Delete number.

Priority

Button Panel Instructions:

- Power: Enter/exit standby mode.
- +/-: Move the cursor.
- M: Return to the previous menu and save.



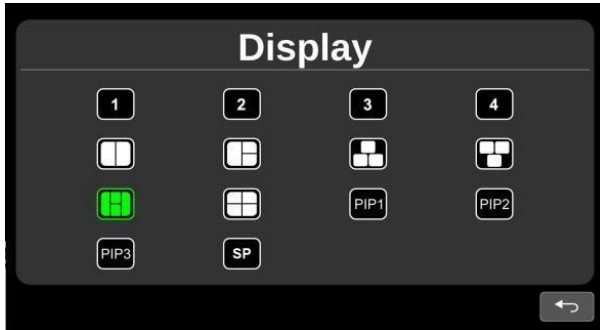
Touch Instructions:

Touch number to select. Save and return previous menu by touching places out of the frame.


Display

Button Panel Instructions:

- Power: Enter/exit standby mode.
- +/-: Move the cursor.
- ▼/M: Return to the previous menu and save.



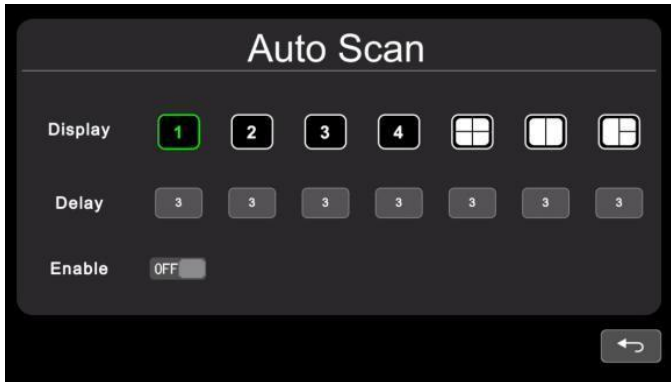
Touch Instructions:

Touch to select preferred image icon and return to previous menu by touching icon  .

Auto Scan

Button Panel Instructions:

- Power: Enter/exit standby mode.
- +/-: Move the cursor.
- ▼: Pop up the edit menu or change the state of ON/OFF icon.
- M: Return to the previous menu.



Touch Instructions:

Touch any of “Delay” line to activate digital input box. Touch Enable to turn on/off auto scan function. Touch any of “Display” line to activate interface to select display images.

IR Instructions:

LANG: Switch system language.

Feature Instructions:

Display: to set preferred display image when in auto scanning. Details please refer to “6.2.6.4.3 Display” part.

Delay: To set duration time of scanning image, ranging 0-60s. If delay of certain channel is set to 0, then auto scan will skip to another channel whose delay is longer than 0 second. Operation of delay is same as chapter 6.2.6.4.1 “Input panel” part.

Enable: Turn on/off auto scan function.

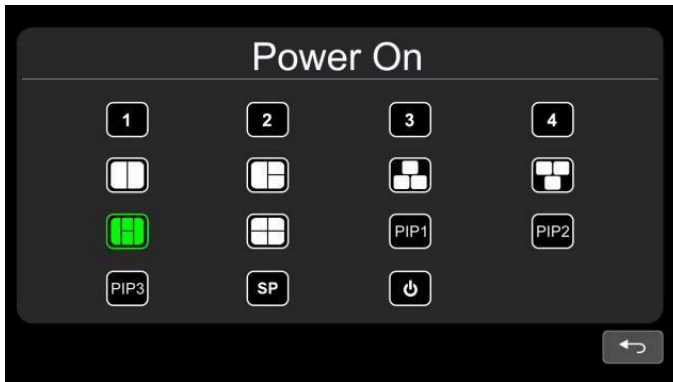
Other Instructions:

If parameters of “Display” or “Delay” are changed during auto scan, they will take effect on next cycle. User can also validate parameters immediately by turning off and on again the auto scan function. Auto scan can be interrupted by trigger function.

Power on

Button Panel Instructions:

- Power: Enter/exit standby mode.
- +/-: Move the cursor and highlight the selected icon.
- ▼: Highlight/cancel highlight the icon selected.
- M: Return to the previous menu and save.




Touch Instructions:

If the icon is not highlighted, touch to highlight it or to cancel its highlight status.

Other Instructions:

Highlighted icon is corresponding display image of monitor upon start up.

Last icon  once been highlighted, monitor will enter screen off standby mode directly upon power on.

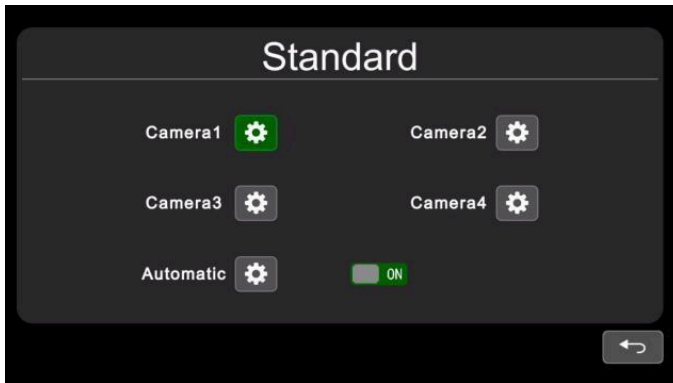
When no icon is green highlighted, it goes automatically to LAST mode, i.e. display image upon power on will be the last image of monitor when it's powered off last time.


If the standby icon is highlighted, monitor will display start up logo if any, then go to standby mode.

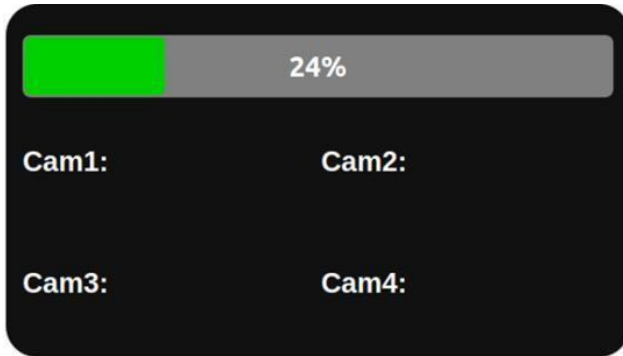
Standard

Button Panel Instructions:

- Power: Enter/exit standby mode.
- +/-: Move the cursor.
- ▼: Select the chosen icon.
- M: Return to the previous menu.



When automatic is on, monitor will automatically fit for input cameras. If automatic is off, the monitor will configure with user inputted settings. User is able to set input formats of corresponding cameras via touching icon  for each channel or turn on automatic to enter automatic configuration. There will be progressing of automatic configuration, and it will display information of recognized camera after 100% finished. Or the information will be empty if camera can't be recognized in automatic process.




IR Instructions:

LANG: Switch system language.

Menu: Return to previous menu. System can exit after progress bar reaches 100% in Automatic interface.

Other Instructions:

When “Automatic” is turned ON, HD monitor will adjust to display cameras automatically. At this time, system setting in CAMERA 1~CAMERA 4 and auto configuration of “Automatic” doesn't work.

When “Automatic” is turned OFF, HD monitor will respond to fixed system settings in menu of CAMERA1~CAMERA4. It allows the user to manually set each camera`s input format or auto configure by touching the icon  in “Automatic” menu.

HD monitor won't response to any press or touch operation before progress bar reaches to 100%. It's able to exit by press or touch only after 100% finished.

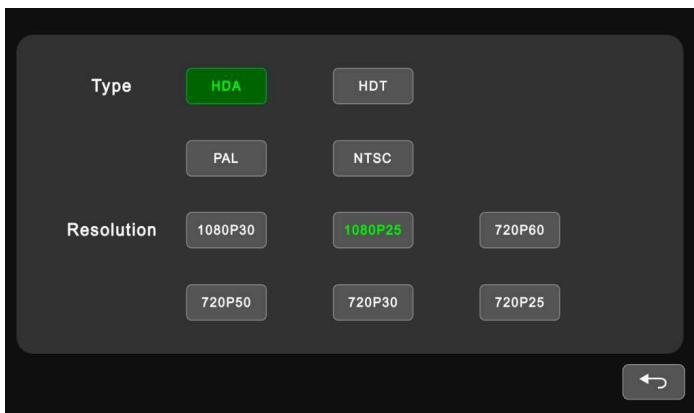
Format menu

While using IR or Button Panel, the operation includes 2 selection phases.

- Phase 1<Type selection>: If PAL or NTSC is selected, system won't enter phase 2.
- Phase 2<Resolution selection>: If user enters this interface from "Standard" menu, it enters phase 1 by default.

Button Panel Instructions:

- Power: Enter/exit standby mode.
- +/-: Move the cursor.
- ▼: Select the chosen icon. If PAL or NTSC is selected in phase 1, system won't enter phase 2.
- M: When on phase 1, return to the previous menu. When on phase 2, return to phase 1.



Touch Instructions:

If PAL or NTSC is selected in TYPE, touch operation won't respond on Resolution selection.

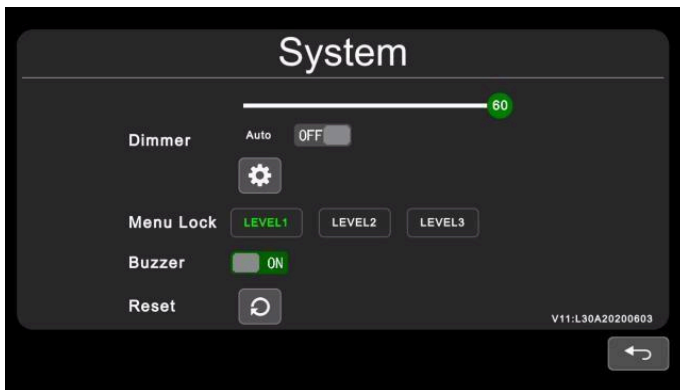
IR Instructions:

LANG: Switch system language.


System

Button Panel Instructions:

- Power: Enter/exit standby mode.
- +/-: Confirm or make settings on features.
- ▼: Move the cursor.
- M: Return to the previous menu.




Touch Instructions:

Drag scroll bar of Dimmer to adjust screen backlight under day mode. When Auto of Dimmer is ON, backlight adjustment of Day/Night mode will be accessible by touching icon .

IR Instructions:

LANG: Switch system language.

Feature Instructions:

Dimmer: Scroll bar adjusts backlight under Day mode. When Auto of Dimmer is ON, monitor will turn on auto backlight function, which is, screen will turn bright in bright environments (Day mode) and turn dark in dim circumstances (Night mode). Degree and sensitivity of backlight of day or night mode can be set from menu icon .

Menu Lock: Degree of menu lock. Continuously press M key of Button Panel or MENU button of IR remote for 3 seconds under Desktop status can enable/disable menu lock and touch operation.

There are 3 levels of menu lock:

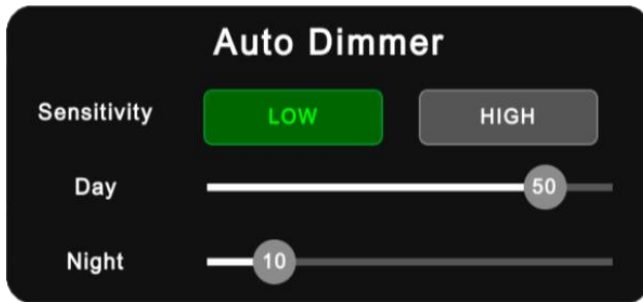
- 1) LEVEL1: All buttons fail to response. If setting of POWER ON menu is set to standby mode, system can be turned on by power button.
- 2) LEVEL2: All buttons fail to response except for POWER, VOL+ or VOL-.
- 3) LEVEL3: No response to M key of Button Panel and MENU button of IR remote.

Buzzer: When it's on, it will shortly alarm if release buttons or touch.

Auto Dimmer

Button Panel Instructions:

- Power: Enter/exit standby mode.
- +/-: Make settings on features.
- ▼: Move the cursor.
- M: Return to the previous menu.



Touch Instruction:

Drag scroll bar to adjust backlight of screen in corresponding Day/Night mode.

IR Instructions:

LANG: Switch system language.

Feature Instructions:

Day: Backlight degree of Day mode is always higher than that of Night mode, ranging from 0 - 60.

Night: Backlight degree of Night mode is always lower than that of Day mode, ranging from 0 - 60.

Maintenance

It is advisable to clean the device periodically, using a soft, bobbles-free cloth.



It is advisable to periodically check the physical state of the various components such as control units, connection cables and external sensors.



Do not use abrasive cloths, towels, paper towels or similar.



Do not rub surfaces excessively



Do not use alcohol, solvents or chemicals.



Do not spray cleaning agents directly onto the product.



Do not allow moisture to enter the openings



Do not wash with water jets or pressurized water jets

End of life - disposal instructions

The devices manufactured by Kiwitron Spa are professional electronic devices intended exclusively for commercial use (B2B). Unlike devices designed for domestic use (B2C), they cannot be disposed of through public collection centers for household waste, such as landfills or municipal recycling centers. At the end of their useful life, disposal must be managed directly by the customer, in accordance with current regulations on the management of professional electronic waste.

To facilitate proper disposal, please note that some components of the product may contain substances identified as SVHC (Substances of Very High Concern) under the REACH Regulation.

All information regarding the presence of these substances in our devices is published in our SCIP declaration, available in the technical documentation section of the Kiwitron website.

Please consult this page if you wish to know the detailed composition of the materials for the purposes of proper disposal or recycling of the device.

What to do if

Since this is a fully customizable system, there may be installation examples not currently included in this version of the document.

For further details you can contact the Kiwitron technical assistance service.

Technical assistance

Kiwitron

Customer service

Tel. +39 051 1889 3470

Mail: support@kiwitron.com

web site: www.kiwitron.com

Symptom	Possible cause
No picture, no sound	Improper connection of automobile adapter. Use of an un-authorized power supply.
Upgrade failure	Remove the extension cable connection and upgrade again.

Tab.5 - Possible faults



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