Remote control functionality
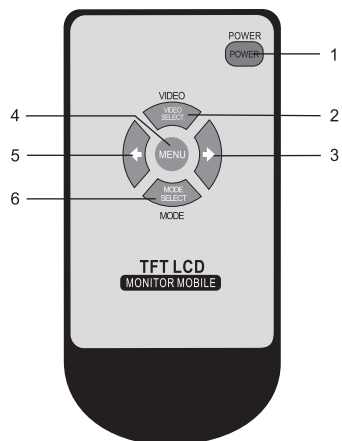
1. Power ON/Off
2. AHD Camera Input Change
3. Right
4. Menu
5. Left
6. Mode selection

POWER
VIDEO SELECT
MENU
MODE SELECT
MODE
TFT LCD
MONITOR MOBILE

Technical assistance

If you need assistance setting up or using your Gator product now or in the future, call Gator Support.
Australia

TEL: 03 – 8587 8898

FAX: 03 – 8587 8866

Mon-Fri 9am – 5pm AEST

Please retain this user guide for future reference.

If you would like to download a digital copy of this manual, or other Gator manuals/software, please visit the http://gatordriverassist.com website and click on 'Firmware & Manuals" for information on where to find the manuals/software.
This manual is considered correct at time of printing but is subject to change. For latest manuals and updates refer to the website.

www.gatordriverassist.com

GATOR

TRADE *series*

GT700HD

7"AHD Monitor with Heavy Duty AHD Camera

AHD

MODE ◄ MENU ►

3 YEAR WARRANTY

PROLINK II

Before operating the Monitor, please read this manual thoroughly and retain it for future reference.

1 x AHD Hi-Definition Monitor
1 x AHD 1080P camera
1 x Wire harness
1 x Sun shade
1 x U-bracket
4 x U-bracket screws
1 x Remote controller
1 x User manual

Product structure

Sun shade

Down

Monitor

Take apart

Screw

U-bracket
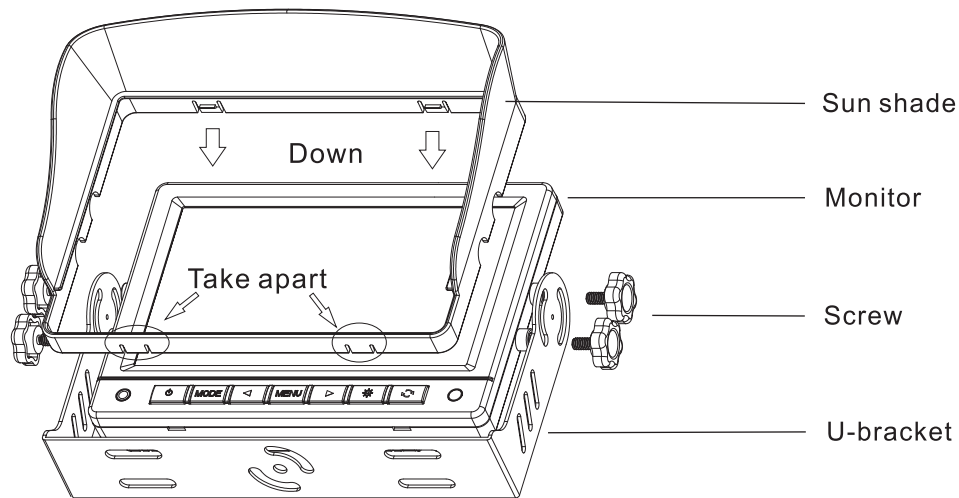
Monitor Features
- 7" High Resolution Monitor (AHD)
- Resolution 1024x600 RGB
- Bright 450CD Display
- Aspect Ratio: 16:9
- 3X Video Inputs (2 Trigger)
- Video input format 720P,960P & 1080P HD 25/30 FPS PAL/NTSC
- PAL/NTSC Auto Switching
- 6 Metre Main harness Prolink II
- Rear View Delay (0~15S selection)
- High/Low Voltage & Short Circuit Protection
- 12/24 Input Voltage
- Detachable Sunshade
- Supplies 12V Power to Cameras

Camera Features
- 1080P @ 30 FPS High Resolution (AHD)
- 120 Degree Wide Angle Lens
- Rated *IP69K* Waterproof
- NTSC
- Minimum Illumination: 0 Lux
- 18 IR LED's
- 1/2.7" Image Sensor

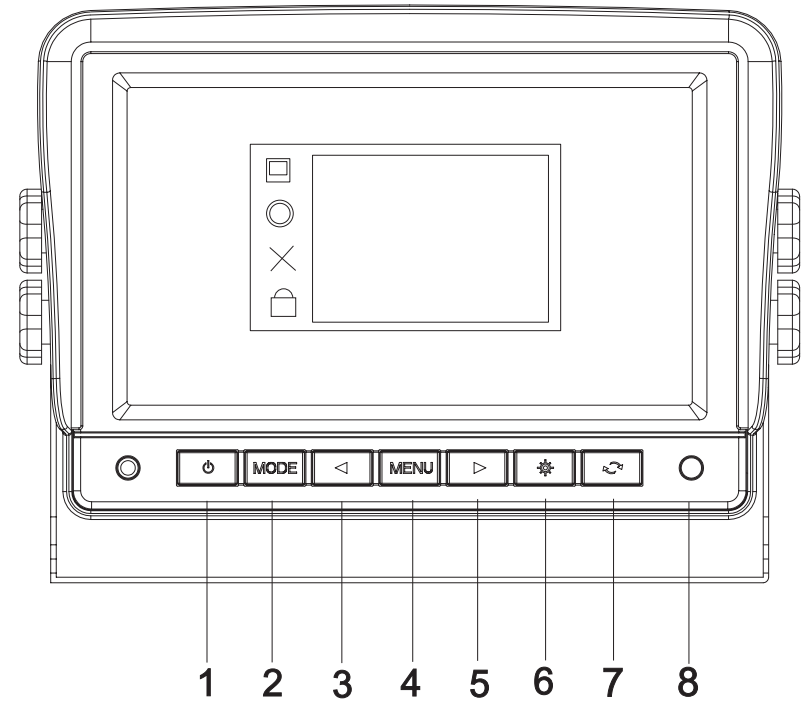**NOTE:** *AHD monitors require AHD cameras (Compatible cameras)*

GT11AHD   GT12AHD

Monitor functionality & settings

1 2 3 4 5 6 7 8

1. Power ON/Off
2. Camera input viewing modes.
3. Left
4. Menu
5. Right
6. Picture (Day, Night1, Night2, Night3, User)
7. Flip image
8. Remote sensor

Each press of the menu button will advance the user though the 4 menus as listed below.

1. Image: Brightness/Contrast/Saturation/Reset
2. Voice: Volume (Not used on this model)
3. System: Language/Acc-Time/Sleep/Flips
4. Function: Guide lines/Auto Dim (Not used on this model)

To make a change to one of the parameters set under one of these menus press the right or left button. If you press the left button you will begin at the last menu item. If you press the right button you will begin at the top of the menu. To advance to the parameter you wish to change press the Mode Button. This will cycle you down through the menu. When you arrive at the parameter you wish to change, press the left or right button to change the value. To finish wait for 5 seconds without pressing anything and the system will revert to its previous situation, or you can press the Menu button and then the Mode button.

1. Image:
Brightness: Adjusts the brightness of the screen. Be careful not to adjust this setting to high as this will reduce the contrast (blacks will eventually become greys reducing the contrast to whites).

Contrast: Adjust the transitions of highlighted areas to darkest shadows. A higher contrast makes the image appear sharper, but to much contrast will remove subtle details in the mid tones.
NOTE: There is also a direct access button second from the right (Picture) at the base of the screen thats adjusts the brightness and contrast to preset levels. This button toggles between settings of Day, Night1, Night2, Night3, and User settings. When you use these settings the user settings are lost.

Saturation: This adjusts the colour saturation. Higher levels yield more colour, However, to much colour may effect night time performance (may result in a noisy image).

Reset: Returns the unit to factory settings.

2. Voice:
Volume: (Not used on this model adjusting this level has no effect).

3. System:
Language: There are 13 different language settings including popular languages such as German, Chinese, Italian, Arabic and Spanish.

Acc-Time: This sets the Switch off time after the Trigger is removed. For example, when the car is in reverse the Back up wire of the car triggers the camera to turn on automatically, when the trigger is lost (the car is taken out of reverse) the Image is switched off. The Acc-Time allows the camera to stay on a prescribed amount of seconds after the trigger is lost.

Sleep: Set a time that the monitor automatically shut off if there is no signal.

Flips: Depending on the direction of the camera and the orientation of the camera head, You may wish to change the orientation of the image for each camera. An example of this function would be in the event you have a forward facing camera and a rear facing camera. One of these images is best viewed as a mirror image (the rear view) and the other as a normal view (the front facing camera) another situation that may need to be addressed is a camera that is hung upside down.

NOTE: the adjustment of this menu item effects only the currently viewed camera. In order to adjust this aspect for a specific camera you will need to use the mode button to select the video image you want to change before entering the menu system. Alternatively this function can be accessed directly from the flip button at the bottom Right hand side of the monitor.

4. Function:
Guidelines: Turn On/Off for each camera in use. Guidelines do not appear when accessing the Mode button settings. The guide lines will only appear when the camera is triggered.

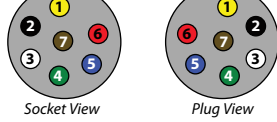## Common Trailer pin configurations (Always check your individual trailers wiring in case its not standard)

7 Pin Plug

Pin	Connection	Colour
1	Left Indicator	Yellow
2	Auxiliary or Reverse Light	Black
3	Earth	White
4	Right Indicator	Green
5	Electric Brakes	Blue
6	Stop Light	Red
7	Tail Lights	Brown

7 Pin Flat

Socket View　　　Plug View

7 Pin Round

Socket View　　　Plug View
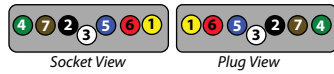
Extra for Flat 12 Pin Plug

Pin	Connection	Colour
8	Left Indicator	Orange
9	Auxiliary or Reverse Light	Pink
10	Earth	White
11	Right Indicator	Grey
12	Electric Brakes	Violet

12 Pin Flat

Socket View　　　Plug View

Trailer wire wiring

Fig1

Bulb

Positive when vehicle is in reverse

RED　BLK

Multimeter shows a negative voltage

12.8V

DC V

Bulb

Positive when vehicle is in reverse

BLK　RED

Multimeter shows a Positive voltage

12.8V

DC V
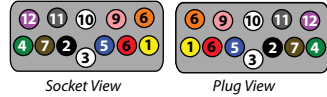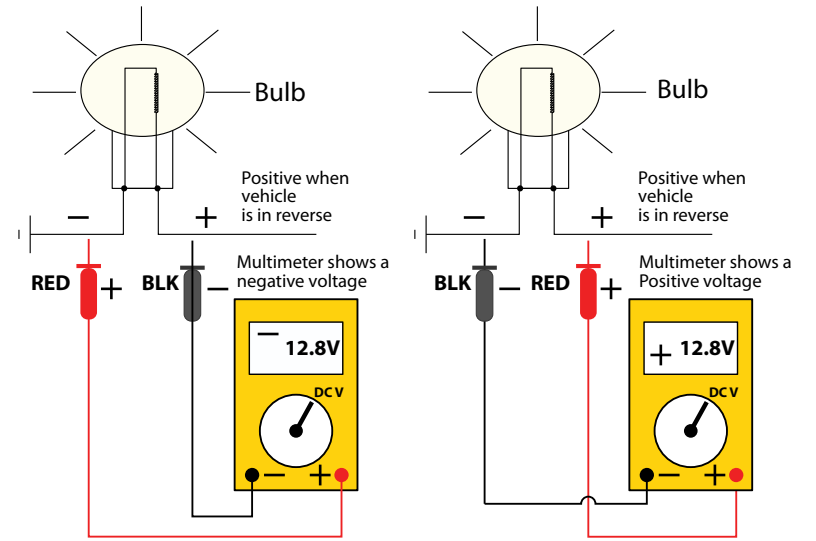
Trailer diagram with priority trigger

AV2 Trigger connect to trigger wire in trailer kit

AV2

Trailer Kit not included*

AV2 Trigger

Monitor

+12/24 V Acc

GND

6 metres

AV1 Trigger connect to reverse bulb. Refer diagram for finding polarity. (Refer Fig1)

AV3 Spare manually select

AV1 (Refer note below)

AV1 Camera

Trailer Plug

AV2 Trigger connect to Reverse/Aux (Pin 2) in trailer lead

Extension sold separately**

AV2 Camera

Camera sold separately***

* Trailer Kit Model: GTTKIT
**Extension Models: PLC5/PLC10/PLC15/PLC20
*** Add on Camera Models: GT11AHD/GT12AHD/GT18AHD

Note: Always use AV2 for the trailer as it will take priority when connected. This will happen automatically as it is triggered when the cameras trailer kit is connected. If you do not intend to use a trailer and you require parking guide lines you must use AV2 for the vehicles camera.

How to find reversing wires to trigger or power backup camera systems.

We recommend that you wire up the triggers as the last part of your installation (after the systems monitor has been wired) this is so that you can use the system as a safe way to test for a reversing wire.

Back up camera systems (reversing camera systems) require a signal to "Trigger" the system into action so that it automatically operates when the vehicle is in reverse.
Whilst some systems are designed to allow cameras to operate even when the vehicle is not in reverse it is still necessary to wire a trigger system in so that the Camera that is facing backward automatically turns and or takes over as priority when in the vehicle is in reverse. When wired in correctly using the right trigger priority, the system can also automatically turn on the rear camera of an attached trailer taking priority over the vehicles back up camera when the trailer is connected.

The most common way to trigger the rear facing camera is to use the + wire that powers one of the vehicles reversing globes at the back of the vehicle.
NOTE: Some vehicles that Use CAN bus to operate rear lighting systems may require additional parts to trigger the system.

Caution: Never test for reversing wires standing at the back of the vehicle, with the engine running and the gearbox in reverse gear. If the car/truck can not be placed in reverse without the engine running, Special procedures should be employed. In this case we highly recommend you seek a professional installer to do this type of work. Failure to follow proper procedure could cause serious injury or death. (The vehicle could back over you)

Step 1.
Place the car in reverse, with ignition on but the car not running (do not leave the cars ignition on for long periods of time without starting it) observe or have an observer notice which light turns on and its location in the lens. Turn the ignition off. Then, locate the globe socket that holds the reversing globe into the lens. In some cases the Lens has to be removed from the car to expose the socket. In most cases however, you can gain access from the inside of the car behind a removable interior wall/panel.

Step 2.
Identify which wire is the globes ground and which is positive (see Fig 1 diagram). Light globes have very low resistance so if a globe is in place, both wires will show up as a ground. Even if you remove the globe the second globe on the other side of the vehicle will still give the positive side a short path to ground and may still be indistinguishable from the globes earth. For this reason it is necessary to energize the globe to find out which side is positive and which side is negative.
Using a multimeter set to DC volts (make sure that it is on the correct scale) attach the negative probe to one of the globes wires and the positive probe to the other (in most cases you can push the probe ends into the back of the globe socket) if not, you may have to

carefully strip both wires sheaths back to expose the wires core making sure you keep them separate and away from the cars chassis to avoid any shorts). You should also make sure the globe it self is not resting on something that could be harmed by extreme heat as the globe when on can get very hot). Turn the ignition back on again with the cars gear set to reverse (without the engine running). The globe should illuminate and the multimeter will show a positive voltage or a negative voltage across the globe. By noting whether the voltage is positive or negative you can define which wire is positive or negative. If the reading is positive then the probes positive is connected to the positive wire. If it's a negative reading then the multimeter's negative probe is connected to the positive wire of the globe as a final check, take the vehicle out of reverse with the ignition still on and check that the voltage is now zero.

If the vehicle can not be placed in reverse without the engine running the following procedure should be used. With the car off, remove the globe. Set your multimeter to resistance on the lowest setting. Place one probe on a part of the chassis that is ground (most rear tail light assemblies have a small grounding screw close by). If you can not find one look for some exposed chassis (like a tailgate hinge etc). Measure the resistance to ground of both wires in the back of the globe socket (with the globe out) whist the resistance will be very similar (because of the other globe still in the circuit) one wire will have a slightly higher resistance. The one with the highest resistance should be the positive wire.
Connect the system to this wire and then use the reversing system to test if it is triggering. With no one at the rear of the vehicle. Start the car. Make sure the reversing systems monitor is in the off state and then place the vehicle in reverse. If you have found the correct wire the system will automatically turn on from its off state. If you have connected the trigger to the globes earth no harm is caused but the system will not trigger. In that case simply connect it to the alternate wire and repeat.

CAN BUS
In the event that the cars reversing lights are driven by CAN BUS the above wiring system may not trigger the system correctly. It may even create a globe fault warning. In this case a CAN BUS module (sold separately) may need to be installed. However, just because the vehicle has a CAN BUS system does not necessarily mean that it will require such a module to work. In fact the opposite is true. Most vehicles do not require an additional module. If a CAN BUS module is required we recommend seeking advice from a professional installer.

Multi trigger systems. Please refer to the diagram provided with trailer trigger systems. Pay special attention to the AV camera numbers and trigger numbers. It is important that the AV camera numbers match the diagrams placement in order to provide the correct priorities so that when a trailer is connected it takes rear view priority over the vehicles rear view camera and so that when no trailer is connected the vehicles rear camera operates automatically.
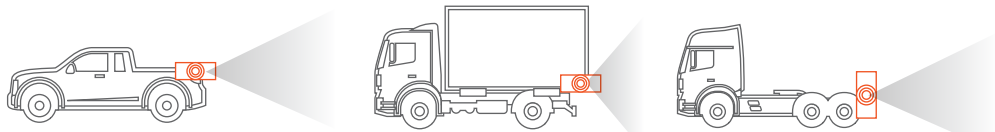
This system comes with one camera as illustrated above, however it is capable of running up to 3 cameras and can cover a very large array of vehicle requirements. The following diagrams show some additional (but not all), configurations that the system is capable of handling with the addition of some extra cameras and associated accessories. Please refer to our web site for detailed schematics of these installations.
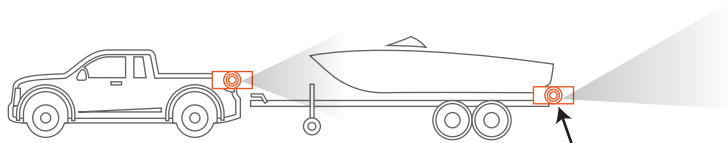

This camera can be used for reversing or as a rear-view mirror substitute
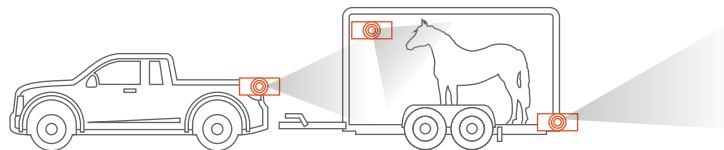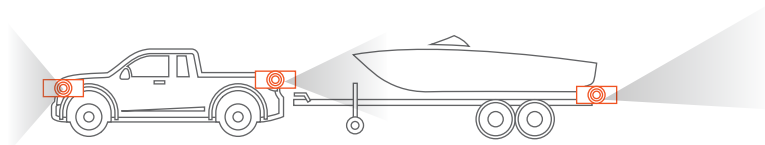
Having two cameras at the back, one camera can be optimised for parking (top down view) whilst the other can look backwards and be used as a rear-view mirror substitute.
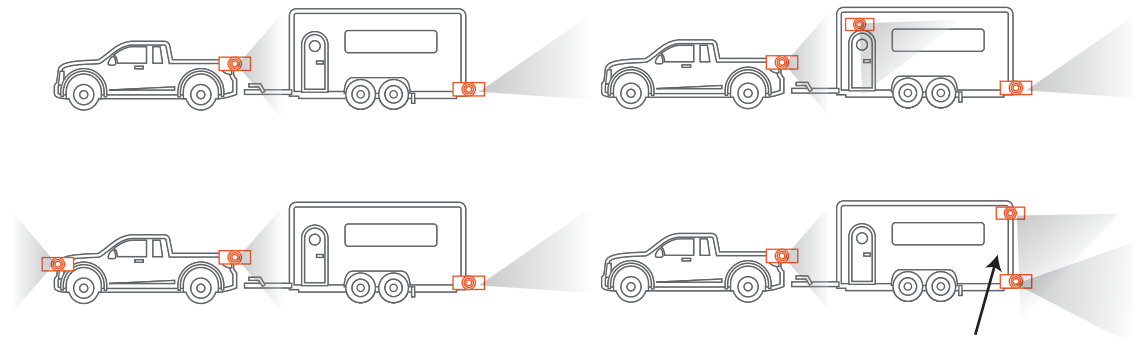
Having two cameras at the back, one camera can be optimised for parking (top down view) whilst the other can look backwards and be used as a rear-view mirror substitute.
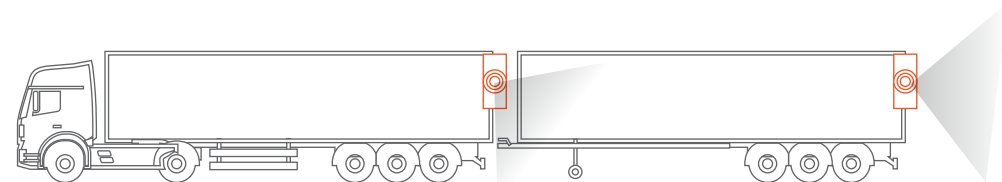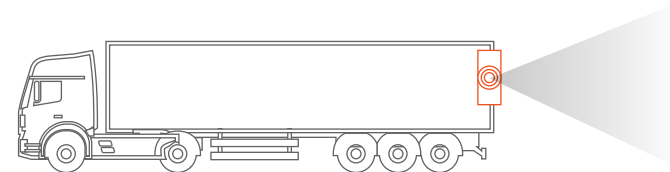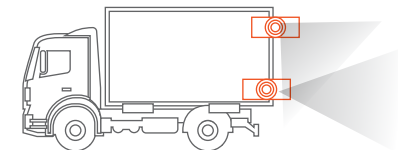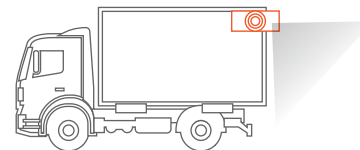
Scan the QR code to go to our website. Click on the icon for a full schematic wiring diagram to suit your installation.
Note: Additional cameras and wiring may be required depending on your application, compatible products are available on our website.