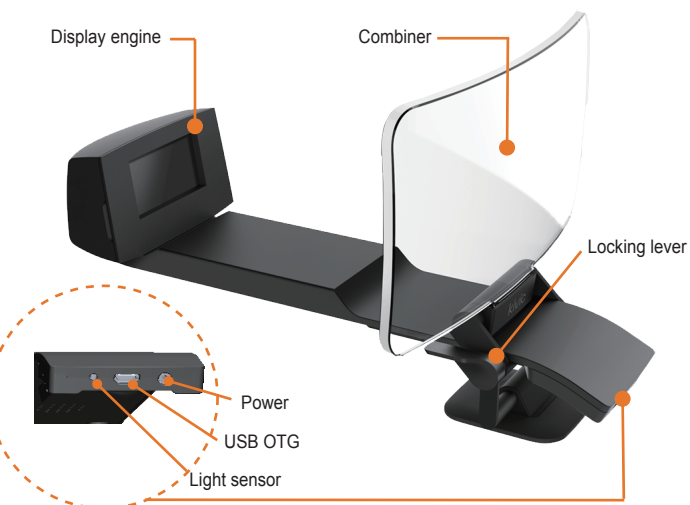


1

The very name “Head Up” describes the principle benefit of this system. HUD projects important information such as speed, time, notifications or instructions from navigation apps. All this information is reflected onto the combiner lens and is thus permanently in the driver's field of vision. Having the displays in the driver's direct field of view increase safety, as the eyes are always on the road.

Unlike the conventional HUDs from auto OEMs, Kivic SM HUD is designed as a companion product for smartphones. Manipulating phones while driving is prohibited by laws in many countries. But in reality, due to the wide spread of various smartphone based navigation apps and the flood of incoming texts from various messaging and SNS apps, using smartphone while driving is inevitable. If inevitable, it will be much better to offer a new way to make it safer. By bring all the notifications and navigation instructions from your smartphone to the driver's direct field of view, Kivic SM HUD makes your driving much safer.

Inside the Box



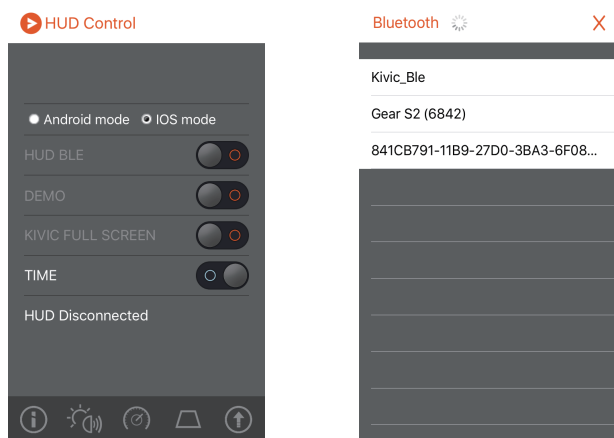
5

Wireless Screen Mirroring/Casting

To make wireless screen mirroring/casting from your smartphone to Kivic SM HUD, your smartphone should support Miracast or Airplay Mirroring. For more details regarding Miracast and Apple Airplay Mirroring, please refer to your smartphone's user manual. If your smartphone is compatible with Miracast or Airplay Mirroring, please make WiFi connection as directed in your user manual.

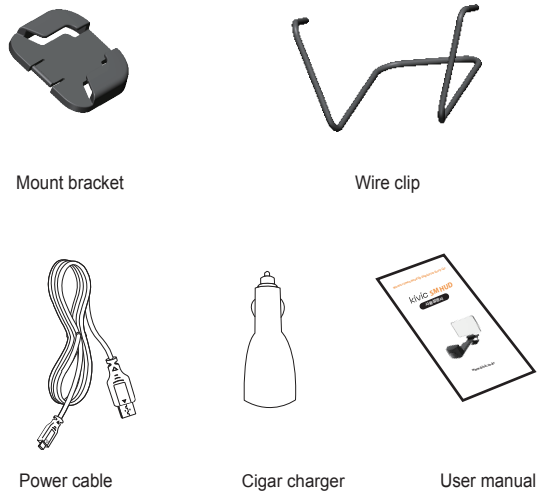
With Android based smartphones, please go to Miracast menu under Settings, and search devices. The device name of your Kivic SM HUD is “Kivic HUD”. Select “Kivic HUD”. (Depending on your smartphone and OS version, there may be different ways to mirror your screen. For instructions on how to turn on screen mirroring in your Android devices, please see the user guide of your Android devices.) With iPhones, you should first connect your iPhone to Kivic SM HUD thru WiFi. The device name (SSID) is “Kivic HUD”. Search for Kivic HUD under Settings -> WiFi. Your password is “87654321”. Once connected, the rest of use is the same as Apple Airplay Mirroring.

How to use Kivic HUD APP



2

Accessories



Installation

Install your Kivic SM HUD in the following order.

- 1 Clean and dry the dashboard
- 2 Select a location for your HUD
- 3 Place the mount bracket
- 4 Plug the power cable
- 5 Adjust viewing angle
- 6 Remove lens protection sheet

6

Before getting started

HUD should be powered ON. Navigation app of your choice is already installed on your smartphone. WiFi, Bluetooth, GPS, LTE/3G features are all available on your smartphone and should be turned ON.

HUD Control

You can control and personalize all the features such as time, speed, notification, brightness, keystone correction etc. of your Kivic SM HUD using Kivic HUD APP. You can even update of your device firmware thru Kivic HUD APP.

Bluetooth Connection

All the information displayed on your HUD screen is transferred from your smartphone thru BLE connection. Therefore, to make your HUD functional, you must connect your HUD and smartphone thru BLE. In HUD Control Menu, slide HUD BLE to the right. And then BLE Device Search menu pops up. Once searched, select Kivic HUD.

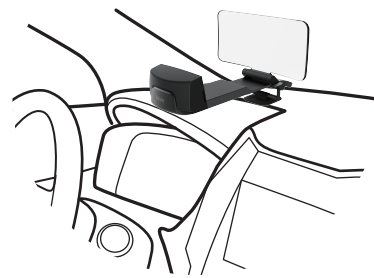
This device pairing operation is needed once when you first connect your HUD to your smartphone.

Notification Setting

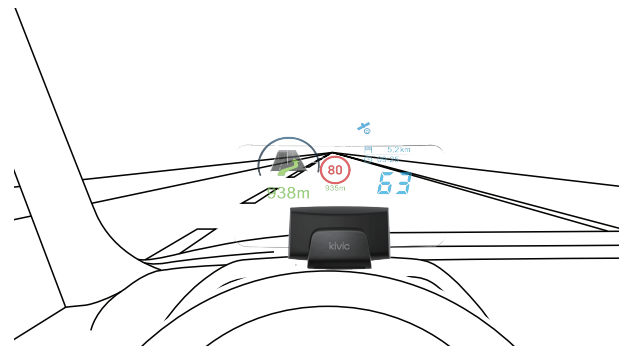
You can activate or deactivate any notification you want. You can even set the time duration of notification. In iPhone case, you can do this at ANCS (Apple Notification Center Service) Menu. For more details about ANCS settings, please refer to your iPhone user manual.

3

Best Lens Position



The ideal location of Kivic SM HUD is on your dashboard in the middle of the cluster panel. For more secure installation, use wire clip.



In Kivic SM HUD, a small plastic lens called “combiner” is used instead of windshield itself. The distance between the display engine and the combiner can be adjusted upto 30 mm. When the distance is adjusted to the shortest, the driver's eye have to be adjusted more to the short distance.

7

Brightness Setting

You can even turn off backlighting, while your HUD is running.

With built-in light sensor, your Kivic SM HUD automatically adjusts the brightness of Display engine. If you turn off this automatic brightness control, you can set daytime and nighttime brightness separately. Daytime and nighttime is determined based on the time of your smartphone.

Audio Volume Setting

Kivic SM HUD services audio thru its built-in micro speaker or Bluetooth.

You can set the audio out volume of your Kivic SM HUD using Sound Control slider.

Speed Setting

Unlike other aftermarket HUDs, Kivic SM HUD services speed using your smartphone's GPS.

Due to GPS error of your smartphone, the speed displayed on your HUD screen may be different from the real speed of your vehicle. Choose proper speed unit in your region. The default setting is Km/h.

4

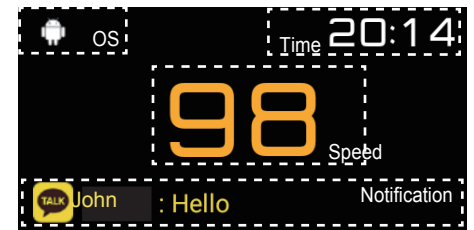
How to use Kivic SM HUD with APP

Download the APP

Before you can use the device, you must download and install “Kivic HUD” APP to your smartphone. On your compatible smartphone, open the APP store and search for “Kivic HUD” app. Install and personalize it with your details to get the most of features such as speed, time, notification, brightness, volume, etc.

The basic layout HUD display

Kivic SM HUD displays various type of information from your smartphone, such as OS of your smartphone, time, speed, and notifications as below.



Note: The layout of HUD display can be changed by Kivic anytime without notices.

All the data displayed on HUD screen is serviced via BLE(Bluetooth Low Energy). Therefore, you must connect your HUD and smartphone using BLE first.

Along with data service thru BLE, Kivic SM HUD basically offers wireless screen mirroring/casting thru WiFi. By using screen mirroring/casting feature of Kivic SM HUD, you can use any navigation apps on your smartphone. To display instructions from your navigation app on your HUD screen, please use screen mirroring/casting feature of your smartphone.

8

Keystone correction

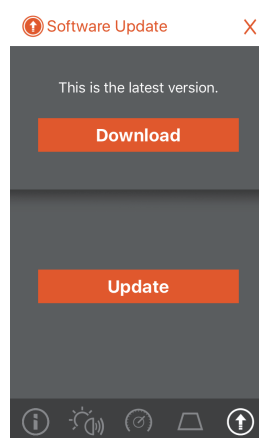
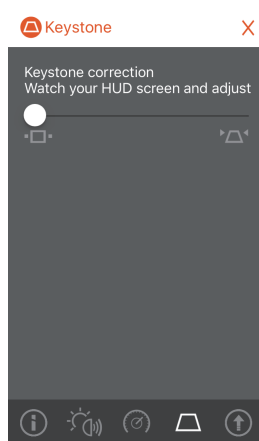
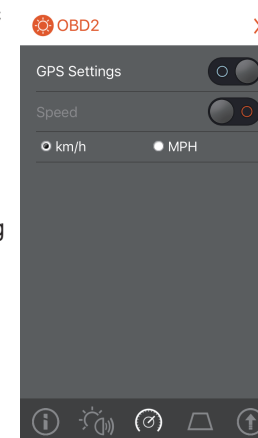
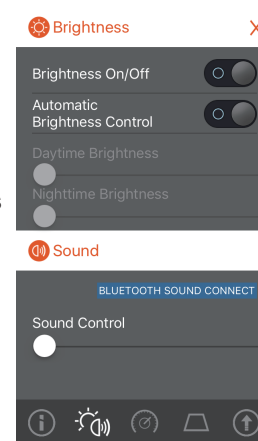
Keystone is a distortion of the image dimension, such as making a square look like a trapezoid. Kivic SM HUD corrects this kind of distortion digitally by software.

Keystone effect happens when the height of driver's eye is comparatively high against the combiner. To make HUD image visible in this case, you should flip the combiner angle over 90 degrees. In this case, the HUD image is larger at the top than on the bottom. Keystone correction feature adjusts the HUD image in trapezoidal shape to a square.

Firmware update

Kivic SM HUD supports OTA (Over-the-Air) firmware update.

The total size of device firmware is relatively large (over 30 MB). Therefore, we separate firmware download and update. Please download firmware using WiFi Access Point not to exceed your monthly mobile plan. Once downloaded, update your Kivic SM HUD with the latest firmware, while your vehicle is stationary. Do not power off your Kivic SM HUD while the firmware is being updated. If you fail in updating, your Kivic SM HUD may malfunction or does not operate. In this case, please contact Kivic or your dealer.



Warnings & Safety Information

Failure to follow these warings and safety information may result in personal injury or damage to the products or other property.

- Observe all applicable laws and ordinances when using this device. This includes compliance with any laws and regulations that may address the use of this device and the placement of the device within the vehicle. Kivic cannot guarantee that the device or its use is permissible in your area.
- The speed data from Kivic HUD app may differ from the actual vehicle speed due to the GPS error of your smartphone. Kivic does not assume any responsibility for any fines, penalties, or damages that may be incurred as a result of any law or ordinance relating to the speed display of your HUD.
- The deive cannot and does not compensate for driver in attentiveness and poor judgement. You must give your full attention to driving conditions, including traffic conditions and pedestrians, to avoid potential hazardous situations that could result in an accident. Kivic does not assume responsibility for any accident or collision in which you are involved.
- Your eyesight may impact the clarity of the images displayed on the device. Please make sure that your eyesight is sufficient to maneuver the vehicle and utilize the device as well. If you are short-sighted or far-sighted, have astigmatism or differing visual acuities between your left and right eyes, you should wear glasses or utilize other corrective measures to correct visual acuity before using this device.
- You should setup, change settings or enter information only when the vehicle is stationary. Always secure your smartphone to prevent it form distracting or interfering you while driving.
- This device should be used in the operating voltages (5~12V) to avoid a risk of fire or malfunction.
- Do not allow your product to get wet. Liquid and moisture can cause serious damage to the device.
- Do not separate, repair nor remodel your devices arbitrarily. If repair is need, please contact Kivic or your dealer.
- Remove the device from your vehicle when not in use. Leaving the device unattended in a vehicle may result in a break-in. Kivic will not be responsible for theft or damages to your vehicle as a result of a break-in.

Warranty

Limited One (1) Year Warranty.

Kivic warrants this product to be free from defects in materials and workmanship (subject to the terms set forth below) for a period of one (1) year from the date of purchase ("Warranty Period").

During the Warranty Period, Kivic will repair or replace (at Kivic's sole discretion) this product or any defective parts ("Warranty Service").

If repair or replacement is not commercially practicable or cannot be timely made, Kivic may choose to refund to you the purchase price paid for the affected product. Repair or replacement under the terms of this Warranty does not give any right to any extension or a new beginning of the period of warranty.

Claims under the Warranty

To obtain warranty service, please contact Kivic's dealer from which you purchase this product. You will need to return the product to the dealer in either its original packaging or packaging affording an equal degree of protection.

The following information must be presented to obtain warranty service: (a) product, (b) proof of purchase, which clearly indicates the name and address of the dealer, the date of purchase and the product type, and (c) reason for return.

As part of Kivic's efforts to reduce environmental waste you understand that the product may consist of reconditioned equipement that contains used components, some of which have been reworked. The used components all live up to Kivic's high quality standard and comply with Kivic's product performance and reliability specifications.

Limitation of Warranty

This warranty is only valid for the original purchase and will automatically terminate prior to expiration, if this prduct is sold or otherwise transferred to another party. The warranty provided by Kivic in this statement applies only to products purchased for use, and not for resale. It does not apply to open box purchases, which are sold "as is" and without any warranty.

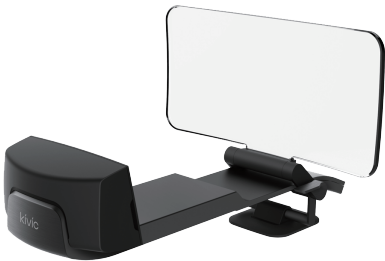
Specifically exempt from warranty are limited-life consumable components subjects to normal wear and tear, such as cables, mount, clip, tapes and other accessories.

This warranty is invalid if the factory-applied serial number, date code label, or product label has been altered or removed from the product.

Thus warranty does not cover defects or damages that result from: (a) improper storage, misuse or abuse, accident or neglect, such as physical damage (cracks, scratches, etc.) to the surface of the product resulting from misuse; (b) contact with water, extreme humidity, sand, dirt or extreme

HUD (Head Up Display)
Kivic HUD

User Manual



www.kivic.co.kr

heat; (c) use of the product or accessories for commercial purpose or subjecting the product or accessories to abnormal usage or conditions; or (d) other acts which are not the fault of Kivic.

Furthermore, this warranty does not cover damage due to improper operation, maintenance or installation, or attempted repair by anyone other than Kivic or Kivic's dealer which is authorized to do Kivic warranty work. Any unauthorized repair will void this warranty. Neither does this warranty cover defects or damages that result from the use of non-Kivic branded or certified products, accessories, or other peripheral equipment.

Specifications

Display	1.8" TFT LCD 480 x 240 pixels 17,000 Nits Direct Backlit BLU
Optics	View Distance : 2 m Virtual Image Size : 10.3" FOV : 7 (H), 4.5 (V)
Connectivity	WiFi for Screen Mirroring BT Classic for BT Audio BLE for Data
Sensor	Ambient light
Software features	Miracast Airplay Keystone correction Color histogram detection
Input Power	Input: DC 5V ~ 12 V (1.5A)
Speaker	1.0 W
Operating Temp	-30°~ 90° C
Dimension	120 (W) x 180 (L) x 120 (H) mm
Weight	380 g

Certification and Safety approvals

FCC Information and Copyright

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator& your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Virtual HUD Image at 2m ahead
Android and iOS support
Access to all notifications

