



## R5 PRODUCT SPEC SHEET

### HANDSFREE R5 / BASE KIT BUNDLE OVERVIEW



**PRODUCT CODE**  
**R5-BASEKIT-570**

#### Handsfree R5 Overview

**The Handsfree R5 is a modular, scalable solution for use in Emergency Service vehicles.**

Designed, installed and commissioned by the experts at **Handsfree Group**, the **R5** fixed vehicle device is a leading vehicle communication, safety and security solution used by a wide range of first response clients including police, ambulance and fire services.

The **Handsfree R5** is the new generation in mission-critical communication technology. Suitable for police cars, motorcycles, fire engines, ambulances, and marine vessels, along with coast guard, mountain rescue, and other mission-critical users.

The **R5** Core Unit houses the systems CPU, Wireless Connection, and System interfaces. The versatile functionality of the **R5** Core Unit includes CAN, RS232, 2 x USB, GPIO, and 2 x Ethernet interfaces providing downstream connection to vehicle-specific accessories such as Kodiak PTT devices. When paired with the **R5** User Interface, the R5 Core Unit functions as a WIFI hot spot, LTE, and GPS module, as well as high quality audio which operates effectively at high vehicle speeds. The R5 Core Unit utilises a Qualcomm chipset and runs the Android 10 operating system, providing GMS and ensuring the system is fully compatible with the latest end-user applications.

The **R5** User Interface has been purpose-built to be rugged, ergonomic, and intuitive, providing longevity in harsh environments. The **R5** User Interface features 5 Programmable buttons allowing the system to be set to end-user requirements, whilst dedicated buttons perform PTT and other standard controls.

The 5.7" LCD Display is sunlight-readable delivering functionality in changing light conditions. Finally, the rugged design is built to an IP67 standard, featuring a 1.8mm Gorilla Glass screen and ruggedised casing, offering protection against wear and tear.



**5.7" User Interface Core Unit**



**5.7" User Interface in cab**



**Core Unit in boot**

# HANDSFREE R5 / BASE KIT BUNDLE OVERVIEW



## System Overview

### R5 Base kit

- R5 Speaker
- R5 Microphone
- R5 PTT Button
- R5 Core Unit Power Harness
- R5 Core Unit to Audio Cable
- R5 Core Unit to IO Cable
- R5 Core Unit to User Interface Cable

- R5 Core Unit
- R5 5.7" User Interface Panel



## R5 Base Unit - Overview

### R5 Core Unit

- ESN PTT
- Rugged, designed for vehicle use
- Mobile Network Technology LTE
- Voice Calling
- GNSS with support from GPS, GLONAS, BeiDou and Galileo
- Multiple or Second Screen
- In Vehicle high speed WIFI hot spot
- Bluetooth connected devices 5.0
- Direct Mode (Device to Device) Airwave Integration
- CAN
- Ethernet x 2
- RS232
- USB 3.0
- USB 2.0 x 2
- GPIO x 8



# HANDSFREE R5 / BASE KIT BUNDLE OVERVIEW

## R5 5.7" User Interface Panel

- Programmable Hot Keys, Siren, and Lighting Control, Talk Group Select, Operational Status, Messages (Osm)
- Rugged, built for harsh environments.
- 1.8mm Gorilla Glass
- Dedicated buttons for PTT & other standard controls
- Sunlight readable display
- Emergency, volume, brightness hard key controls
- AMPS mounting Solution.

## General Specification

Dimensions CU:	180mm x 170mm x 50mm
Dimensions 5.7 UI:	188mm x 100mm x 40mm
Weight CU:	1.3 kg
Weight 5.7 UI:	400g
Power Consumption:	Average 20W, Standby 0.15W
Transmission Power:	23dBm
SIM Card:	Physically secure Micro SIM Holder
Modem:	3GGP rel 12. LTE CAT6 Max DL 300Mbps, MAX UL 5Mbps
Supported Networks:	LTE FDD .B1, B2,B3,B4,B5,B7,B8,B20,B28 (A+B) LTE TDD: B38,B39,B40, B41
WLAN:	2.4GHz and 5GHz, 802.11 a/b/g/ac
Bluetooth:	BT2.1+EDR/3.0/4.1 LE/4.2 BLE/BT5.0
GNSS:	Multi Channel GPS/GLONASS/BeiDou/Galileo
Operating System:	Android 10
Memory:	64Gb Flash, 4Gb RAM
SDCard:	Physically secure SDCard holder, supports Up to 256Gb
Operating Temperature:	-20 deg C to +60 deg C
Storage Temperature:	-30 deg C to +80 deg C
D2D functionality	Via external Tetra Radio in DMO mode.

## 5.7" User Interface

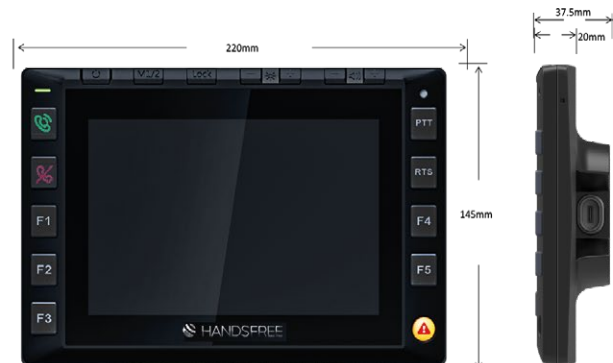
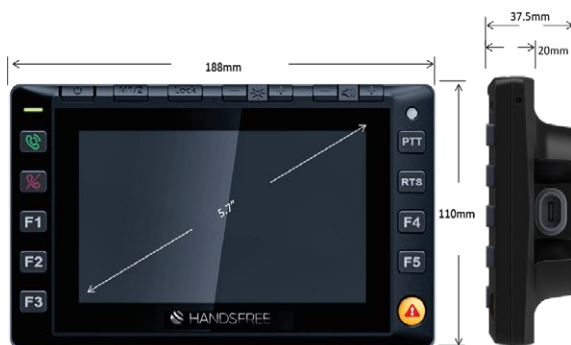


Mounting Plate



## General Specification (cont)

Antennas	2 x SMA LTE MIMO, 2 x WLAN & GPS
Digital I/Os	Connection socket for I/O cable kit, max. current capacity: 150 mA per connection. Protected to 36V
Audio Interfaces	4 wired audio interfaces 1 Bluetooth audio interface
UI Connector	Custom IP67
Power Supply	Power Cable ( Permanent plus, ground, ignition) 9 to 3V
Interfaces	USB 2.0 x 2 USB 3.0 x1



# HANDSFREE R5 / ACCESSORIES

## R5 Handsfree Microphone



**CODE:**  
**R5-MIC**



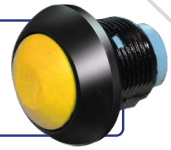
- Mounts directly on a surface such as vehicle headlining.
- Directional microphone with noise cancelling.
- Electret mic with built in amplifier.
- Small discrete design.
- Thin flexible cable for easy install.
- Plug and play over moulded connector.



## R5 PTT Button



**CODE:**  
**R5-PTT-BUTTON**



- Robust PTT Button with long life switch.
- Mounts in a circular panel cutout.
- Capable of discreet installation.
- Plug and play with R5 ecosystem.

## R5 Telephone Handset with PTT



**CODE:**  
**R5-HSET**



- Wired handset with excellent audio quality for private conversations.
- Large PTT button on underside, suitable for left or right handed users.
- Noise compensating microphone.
- Elegant slimline design, ideal for installation in limited space.
- Mounting cradle with automatic wear free on/off hook detection.

## R5 PTT Handset with Screen



**CODE:**  
**R5-HSET-PTT**



- Wired handset with excellent audio quality for private conversations.
- Large PTT button on underside, suitable for left or right handed users.
- Noise compensating microphone.
- Elegant slimline design, ideal for installation in limited space.
- Mounting cradle with automatic wear free on/off hook detection.
- Colour screen & keypad (alpha numeric).

## R5 10 W Speaker



**CODE:**  
**R5-SPK-10W**



- High power (10 Watt) loud speaker with low distortion.
- Rugged plastic housing.
- Frequency range optimised for radio communication.
- Metal retaining bracket allowing adjustable orientation.
- Plug and play over moulded connectors.

## ML50 Fistmic



**CODE:**  
**R5-FIST**



- Rugged, solid design with excellent audio quality.
- Waterproof IP67 rating.
- Integrated microphone and speaker.
- PTT and emergency buttons.
- Local volume control toggle with high / low settings and LED indicator.
- Long spiral cable with anti garrot features.
- Headphone jack (3.5mm jack with thread).
- Easy to use and robust mounting system.

\* Full product catalogue with all R5 accessories and consumables available at [www.handSFREER5.com](http://www.handSFREER5.com)