

USER GUIDE

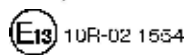
HANDS-FREE KIT



WITH INFRA-RED TECHNOLOGY



FCC: QVN-HFK2M14



10R-02 1554

SPECIFICATIONS:

Power Supply	:	11 V – 16 V DC
Maximum Consumption of the Base	:	1 Amp
Radial Microphone Range	:	3 meters
Radial Infra-red Transmit Range	:	3 meters
Infra-red Transmit Frequency	:	130 KHz
Infra-red Bandwidth	:	200 Hz – 7 KHz
Max. Wireless Microphone Consumption	:	5 mA

CHARACTERISTICS:

- Just plug-in and talk.
- Full Duplex Communication System
- With Built-in speaker
- Built-in Charger for Earphone
- Infra-red Technology
- Low Consumption Wireless Microphone (2 "AAA" Alkaline batteries included).
- Compatible for most cell phone brands
- Anti-Echo
- Swivel Mount Cigarette Lighter Plug (adjustable up to 120°)
- Automatic "turn on / standby" mode of the wireless microphone

OVERVIEW:

• Hands-free Kit base

1. **Magnet** – Specially designed to hold the infra-red earphone (See fig.1).
2. **Infra-red Transmitter** – Transmitter for the earphone.
3. **Charging Pins** – Terminals of the earphone charger.
4. **Charge Indicator / Power Indicator** – Will light "green" when the power is ON; will light "red" when the earphone is in use.



Figure 1.



Figure 2.

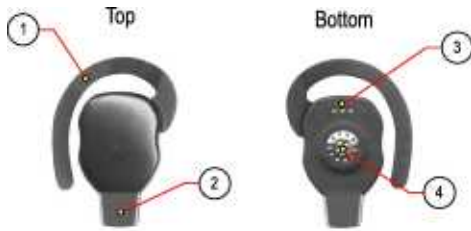
5. **Line Pick-Up** - Allows user to pick-up or hang-up a call without touching the mobile phone.
6. **Cigarette Lighter Plug** - It is specially designed to fit into the cigarette lighter jack with a swivel mount up to 120°.
7. **Speaker** – Allows user to hear the voice of the other party.



8. **Volume Control** - This rotary control will adjust the audio volume of the speaker and/or the infrared earpiece. (See fig.2)

• Infra-red Earphone

1. **Earphone Hook** – Use to hook the earphone to a person's right ear.
2. **Infra-red Receiver**
3. **Charging Pin Terminal** – This is where the charging pin is inserted.
4. **Earphone Speaker** - A high quality speaker use to receive signals.



Earphone Autonomy:

- 4 hours talk-time
- When first use, the earphone will need 8 hours to be fully charged.
- It does not need to be fully charge to operate; 10 minutes of charge allows 8 minutes of communication.
- Charge automatically if inserted to the Hands-Free Kit Base.

• Function Controls



A. Tone Control

- "H" for High Tone.
- "L" for Low Tone.

B. ASP Control

- ON = Echo and Feedback Canceller.
- OFF = Echo Reducer only.

C. Adjustable Mike Gain (MIC) Control

- "H" for high gain; "L" for low gain.
- Microphone gain "L" is necessary in noisy background

Figure 3.

• Wireless Microphone (Fig.4)



Figure 4.

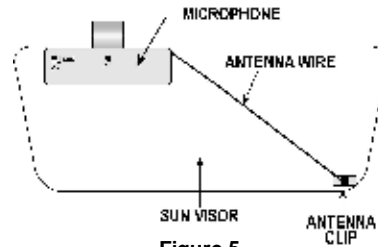


Figure 5.

PROCEDURE:

1. Put two (2) "AAA" Alkaline batteries in the wireless microphone. The negative polarity of the batteries must be in the spring side.
Note: Microphone battery life is more than 500 calls (if 3 calls/day, battery life = more than 5 months).
2. It is highly recommended that you attach your microphone to the sun visor (see figure 5). Please make sure that it does not hide the microphone otherwise your voice will be attenuated.
3. Insert the Hands-Free Kit into the cigarette lighter jack of your car.
4. Insert the cell phone connector plug to your Hands-free Kit.
5. Turn "ON" the microphone by using the power switch (see figure 4).
6. Adjust the microphone gain (refer to figure 3 for function controls). Two positions (Hi and Low) will adjust the gain of the wireless microphone. The gain must be adjusted to match with your cell phone model. If the gain is too high, it can cause feedback (whistling sound), echo or background noise during calls on some cell phones. (See recommended microphone gain position table).
7. During communications (calls), adjust the volume to its desired level (see figure 2). If the volume is too high, it can cause feedback (whistling sound), echo or background noise during calls on some cell phones. (Cell phone volume set to maximum gives better results in most types of GSM).
8. For private listening, wear the infrared earphone to your right ear.
9. If the earphone is discharged (no sound), simply insert it to the earphone socket on the Hands-free kit base to charge. Once detected, the earphone charging indicator will light "green".

Remarks:

- If microphone is not "ON" during communication, the sound on the speaker will be attenuated.
- In standby mode, the microphone will still have a small consumption (less the 1.8 microwatts).
- On some version the indicator light will only turn ON for 2 seconds after the microphone is switched ON. If the light is red, this indicates low battery.
- The microphone is power controlled by the HFK base and can remain in "ON" position even if not used. But in order to extend battery life, it is recommended to switch "OFF" your microphone when you won't use for a long time.

Important:

- The universal provided cable (grey connector for the Hands-Free Kit side) doesn't allow line pick-up. It can be used directly for Motorola V6X series, and with other cell phones using adapter.
- In order to avail the line pick-up feature, purchase the cable dedicated to your cell phone model.

RECOMMENDED CONTROL SETTINGS

(Working on all models)

MIC = L
 ASP = ON
 TONE = H (L For Nokia Models)

POSSIBLE CONTROL SETTING TABLE

■ GSM TYPE ■	■ MIC ■	■ TONE ■	■ ASP ■
▶ Alcatel OT 501 / 300 OT 511 / 311 OT FASY DR OT 701	L H/L H L	L L or H L L	OFF OFF OFF OFF
▶ Ericsson R 320 / 600 T 65 / 58 / 68 A 10188 A 2618 / 2628 T 113 T 288 / 30	L L L H H L	L L or H L L L L or H	OFF OFF OFF OFF OFF OFF
▶ Motorola Accomp1008 L 7089 M3188 / 3588 M6088 Starac130 T 180 / 191 / 2288 T 250 T 280 V 2288 V 3690 V 60 465 V 70 V 8088	L L L L L L L L L L L L L L L	H H L L L H H H H H H L L L	ON ON ON OFF ON ON ON ON ON ON ON OFF OFF ON
▶ NEC DE 4000/7000	H	L or H	OFF
▶ Nokia 3310 / 3330 3210 8310 / 8310	H H H	L L L	OFF OFF OFF
▶ Panasonic GD 52 / 70 / 75 GD 90 / 92 / 93 / 95	H H	L L	OFF OFF
▶ Samsung SGH4300 T 00	H L	L H	OFF OFF
▶ Siemens C 45 S 45	H H	L H	OFF ON
▶ Sony CD5 CVD25	H H	L L or H	OFF ON

Note: These settings gives very good results, but can vary with different networks, and Cell phone models.

FCC Notices:

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.

"FCC RF Exposure requirements:

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

Hereby, Euro Communication Equipements sas, declares that this radio equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

This equipment can be used in all European countries. An individual license is required in Romania.