

## Wireless communication systems for Soccer referees



### VOKKERO™, THE BEST OF TECHNOLOGY

▶ As the authorities on fair play and rule observance, Soccer referees can leave nothing to chance. To reduce the risk of errors as much as possible, it is **essential that they react in a quick and concerted manner**.

▶ It is in this context that ADEUNIS RF has developed **Vokkero™**, a wireless communication system that permits **referees to stay in permanent contact**, with **excellent sound quality** even in the most noisy environments.

▶ The **international soccer governing body in North America** has chosen to utilize VOKKERO™, a wireless communication system dedicated to top-level sports referees.

**Brian Hall, Professional Referee Administrator** had this to say about it: "The Vokkero™ system has aided in **improving decisions on the field** and **has been vital** in facilitating productive and preventive communication **amongst the officiating team**. Referees, from each of our international member nations, have applauded the system and appreciate the enhanced communication ability it has provided the referee team. The "open microphone" system **provides a solid basis for referees** to be in constant communication in a very efficient and effective manner."

▶ The Vokkero™ system is overwhelmingly supported by the major team sports federations (CAF, AFC, CONCACAF, EHF, IHF, ...). It has been used during prestigious events such as the rugby World Cup in 2007, the World Handball Championships in 2009, and the football World Cup in 2010...

### ADVANTAGES OF THE VOKKERO™ SYSTEM

- ▶ **Continuous contact** between referees.
- ▶ **From 2 to 6 users:** suited to different officiating configurations.
- ▶ **Hands-free system:** instant speaking with nothing to press.
- ▶ **Patented noise filter:** voice recognition and elimination of all extraneous noises (shouting and other crowd noise).
- ▶ **Secure communication:** digital encryption permitting totally private exchanges.
- ▶ **Multi-channel:** several systems can be used on the same site.
- ▶ **Compact, lightweight and robust** (IP54 norm).
- ▶ **"Speaker mode" function:** option of making public announcements & commenting on decisions affecting the game.



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**www.vokkero.com**

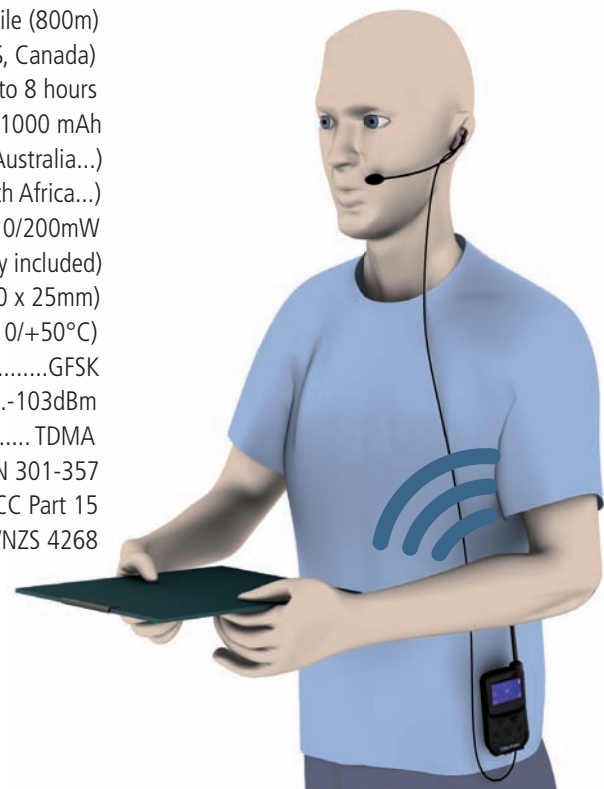
# VOKKERO™

## Wireless communication systems for top level sports officiating



### TECHNICAL DETAILS

Number of users .....	2 to 6 in full duplex mode + an unlimited number in listening mode
Range .....	Up to 1/2 mile (800m)
Channels .....	3 (in Europe) - FHSS (US, Canada)
Battery life .....	Up to 8 hours
Battery .....	Rechargeable Li-Polymer 3.7V 1000 mAh
Frequencies .....	902-928 MHz (USA, Canada, Australia...)
.....	863-870MHz (Europe, South Africa...)
Power .....	10/200mW
Weight .....	150g - 5.3 oz (battery included)
Dimensions .....	4.7" x 2.4" x 0.8" (120 x 60 x 25mm)
T° range .....	14/122°F (-10/+50°C)
Modulation .....	GFSK
Sensitivity .....	-103dBm
Technology.....	TDMA
Norms .....	Europe: EN 300-220 / EN 301-357
.....	USA: FCC Part 15
.....	AS/NZS 4268



### PRODUCTS & ACCESSORIES

#### Wireless communication system

**VOKKER** Audio transceiver

#### Headsets

- KEN 010** Generic micro-earphones
- KEN 020** Generic micro-earphone with on/off switch
- MAE 010** Professional micro-earphone audio pro single ear
- PHO 010** Professional micro-earphone "custom"

#### Charger, battery & push-to-talk button

- BCH 030** 3 battery charger
- BAT 010** Battery
- PTT 010** Push-to-Talk button

#### Equipment

- SOC 010** Carry bag
- ABD 010** Armband
- BEL 010** Belt
- HAR 010** Harness

