

Wireless communication systems for Field Hockey umpires



VOKKERO™, THE BEST OF TECHNOLOGY

- ▶ As the authorities on fair play and rule observance, Field Hockey umpires 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 VOKKERO™ system was also adopted by Field Hockey umpires during **the National Women's Championship** that took place in Washington. They were impressed by the contribution the VOKKERO™ system made **to the whole officiating team**. **Steve Horgan**, USA Field Hockey National Umpire and Technical Manager stated: "Instead of having to stop play to meet in the middle and discuss a call, issues can be communicated clearly, effectively and instantaneously between referees using the VOKKERO™ wireless communication system, thus keeping **the fluidity of the game**."
- ▶ 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 refereeing 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.
- ▶ **Convenient size, light and rugged** (IP54 norm).
- ▶ **"Speaker mode" function:** option of making public announcements & commenting on decisions affecting the game.



VOKKERO™, a 100% ADEUNIS RF brand

FIELD HOCKEY OFFICIATING SOCCER ICE HOCKEY FOOTBALL LACROSSE
WATER POLO BASKETBALL POLO

A SOLUTION FOR EVERY SPORT

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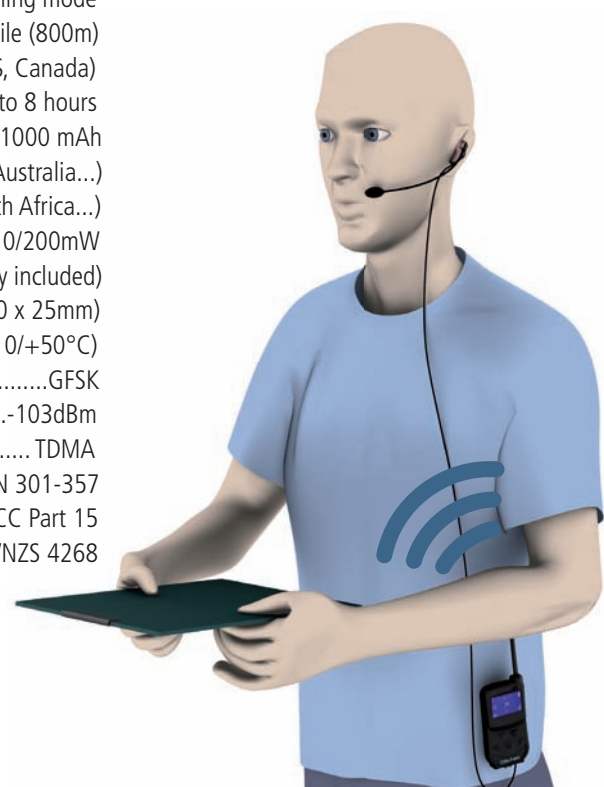
VOKKERO™

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

