



High quality EEC production

# Wireless Systems and Applications

## Systems for wireless and cabled transmission of analogue and digital video, audio and data signals

Transmitter · Receiver · Cameras · Pan/Tilt camera systems  
Antennas · Housings · Multiplexer · Quad processors



- » **Industry**  
(car industry, medicine technology, industrial and consumer electronics)
- » **Video equipment wholesalers and retailers**
- » **Authorities**  
(government, police, fire fighters, military)
- » **Security companies and detectives**
- » **Scientific and technical institutions**
- » **Leisure industry**  
(sport clubs, societies and events)



## COFDM Mobile Video Transmitter

Probably world's fastest  
COFDM video/audio transmission system

Extreme low delay  
**5-9ms only!**

- » transmission power 100mW (HF)
- » external 1W/2W Booster connectable
- » very small, only 75 x 60 x 18mm



## COFDM Diversity Receiver

**O.R.C.A.**  
COFDM Radio Communication Appliance

### Portable Monitor Receiver

- » mobile diversity receiver
- » **MRC Maximum Ratio Combining**
- » rugged aluminium housing
- » for use with **V-Mount** batteries
- » **8.4" TFT-Display (sunlight readable!)**
- » **Frequencies: 1.4 / 2.4 / 5.8GHz**





## COFDM Diversity Receiver

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### Mobile Mini Diversity Receiver with DVR

- » mobile diversity receiver
- » MRC Maximum Ratio Combining
- » integrated video recorder (DVR)
- » saves video on removable SD-card
- » 2.5" TFT-Display
- » Frequencies: 1.4 / 2.4 / 5.8GHz



## COFDM Diversity Receiver



**O.R.C.A.**  
COFDM Radio Communication Appliance

## Mobile "Body Worn" Diversity Receiver

- » extra flat mobile diversity receiver
- » can be carried close to the body beneath the cloths ("body worn")
- » extended TFT-Display to be carried at the wrist
- » Frequencies: 1.4 / 2.4 / 5.8GHz





## Marksman System





## Marksman System



### Riflescope Camera

- » camera shows the same view as you will have through the riflescope
- » different cameras available (colour, b/w or day/night)
- » very flexible mounting bracket

## Marksman System



**O.R.C.A**  
COFDM Radio Communication Appliance

## Mobile Diversity Receiver

- » perfect for mobile applications
- » all components built-in in a rugged and light weight suitcase
- » integrated 8.4" TFT-Display
- » integrated batteries

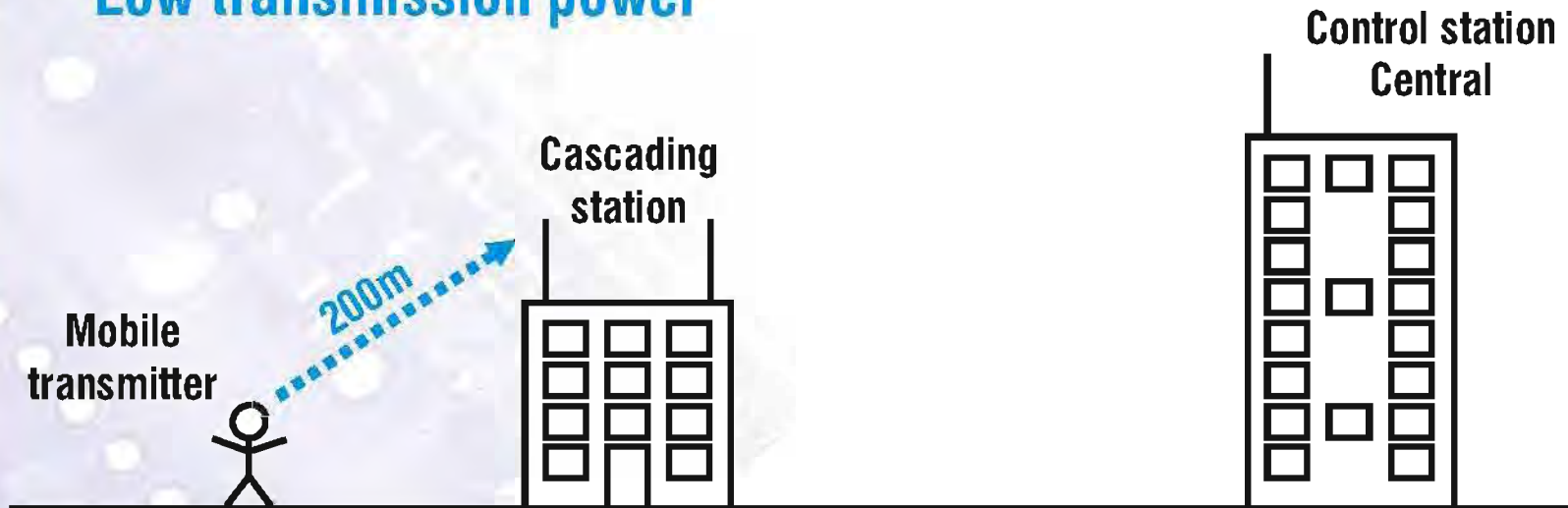


## Body Worn Transmission



## Body Worn Transmission

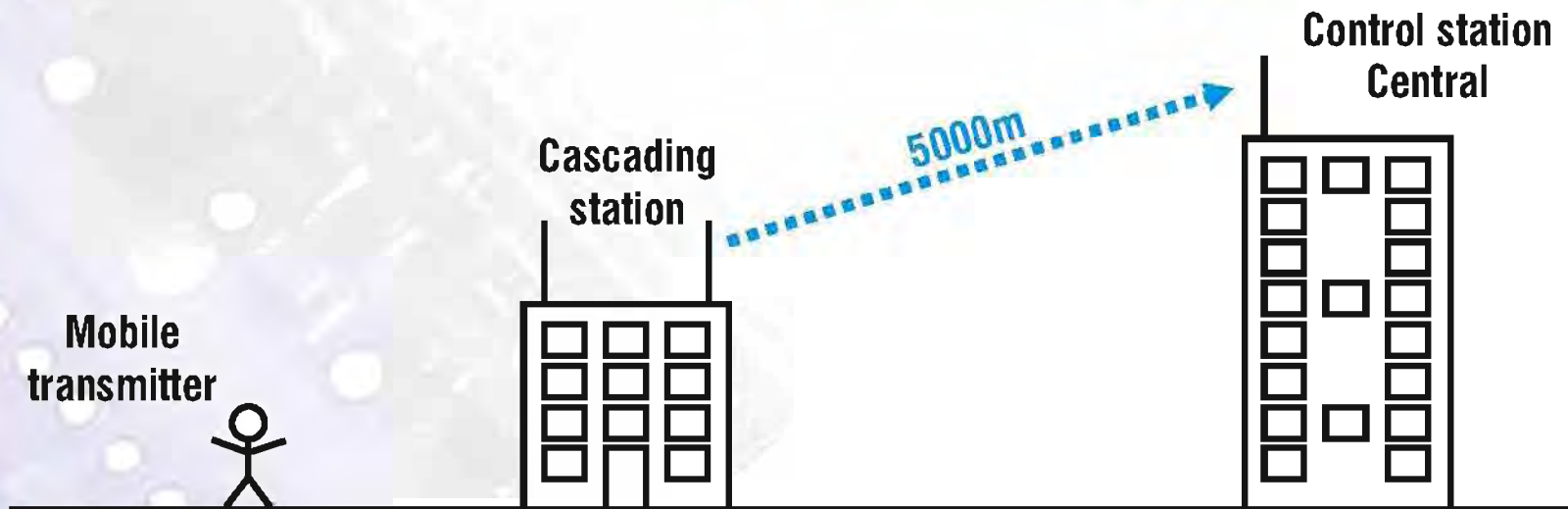
**Short range**  
**Small devices**  
**Low transmission power**





## Body Worn Transmission

Long range  
High transmission power



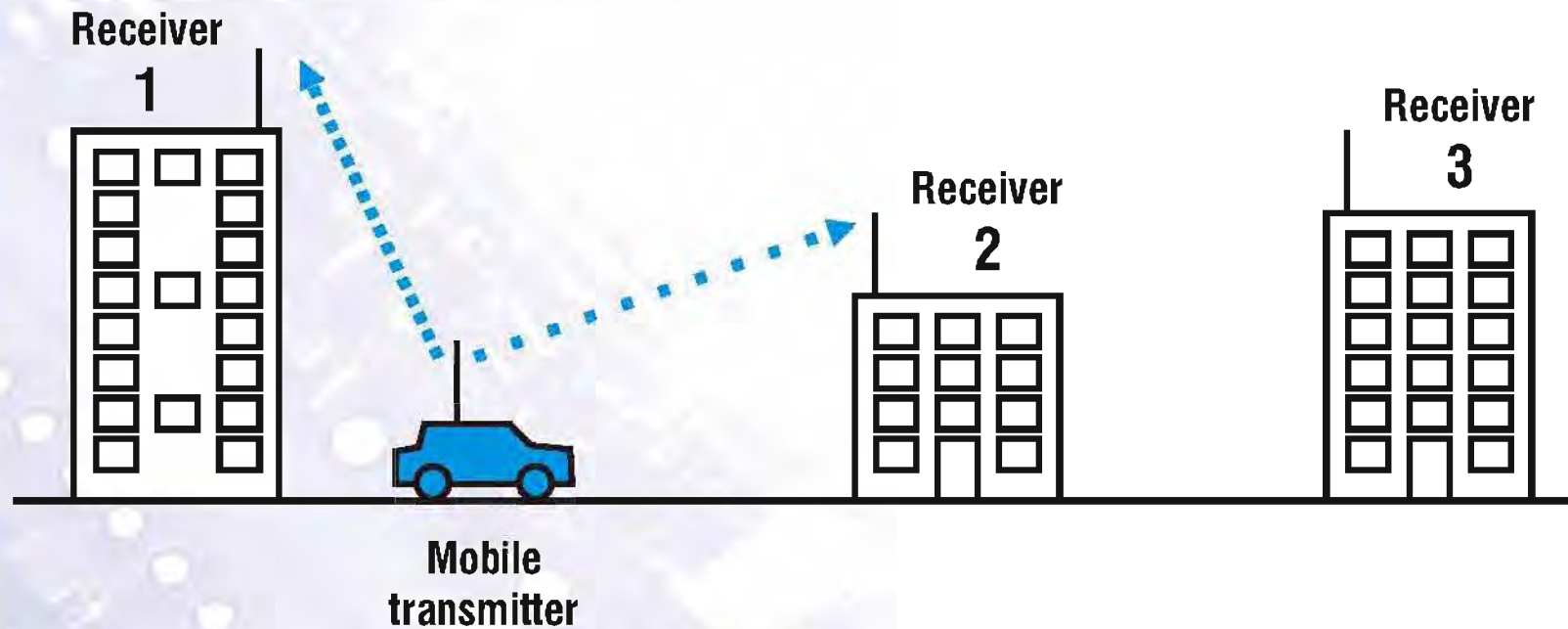
## COFDM Roaming System



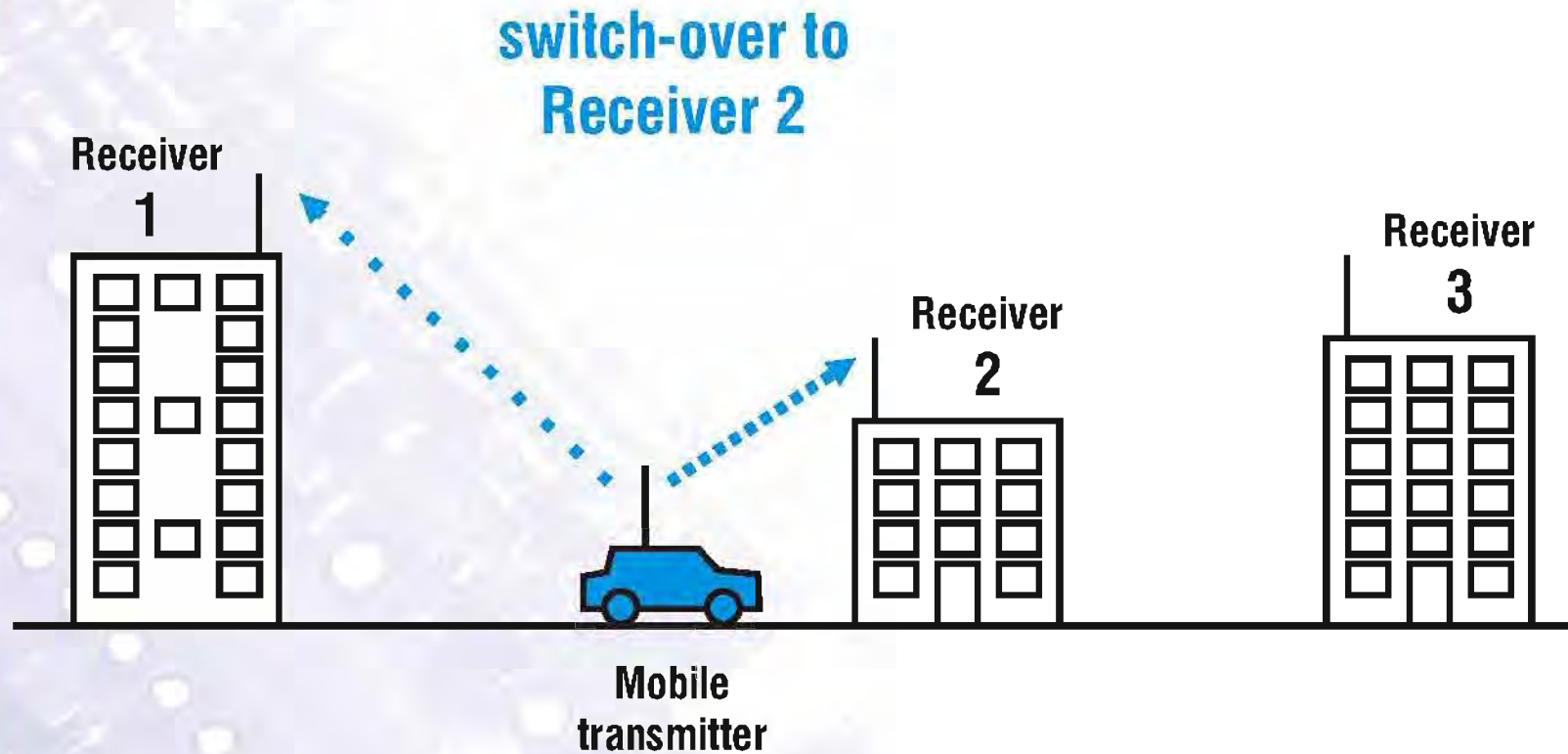


## COFDM Roaming System

Receiver 1 active



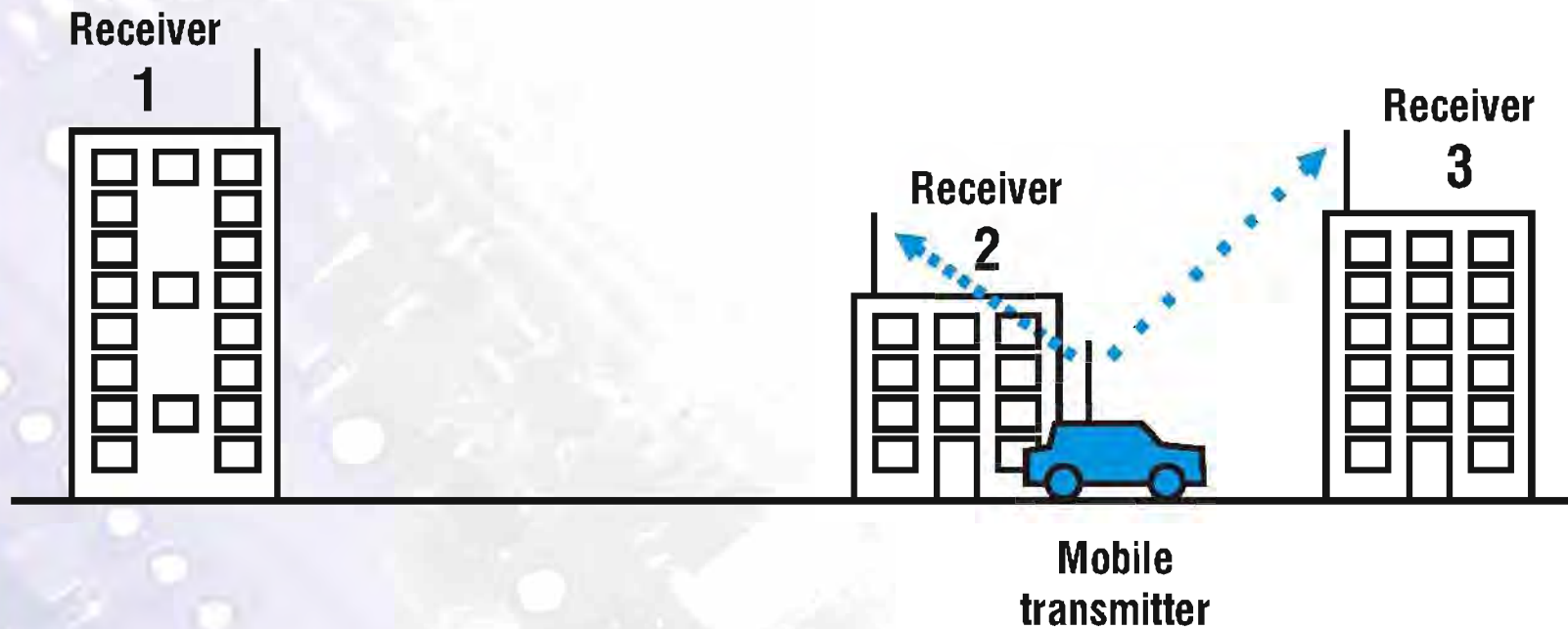
## COFDM Roaming System





## COFDM Roaming System

Receiver 2 active





## Border Control





## Border Control



**O.R.C.A**  
COFDM Radio Communication Appliance

## High Power COFDM Video Transmitter

- » maximum transmission power
- » point-to-point or point-to-multipoint
- » 256 bit encryption (AES)
- » different housings available  
(19" rack, indoor or outdoor)



## Border Control



**O.R.C.A**  
COFDM Radio Communication Appliance

### 8-Antenna sMRC Diversity Receiver

- » for a maximum of transmission quality, range and coverage
- » complete 360° coverage
- » 8 combined high gain antennas
- » sMRC combines benefits of MRC and selectable combining



## Unmanned Armored Vehicles





## Unmanned Armored Vehicles



**O.R.C.A**  
COFDM Radio Communication Appliance

### 200MHz Low Frequency Transmission System

- » low frequency for better penetration of walls and buildings
- » perfect for urban and non-urban applications
- » ensures large range transmission
- » different housings available





## Unmanned Armored Vehicles



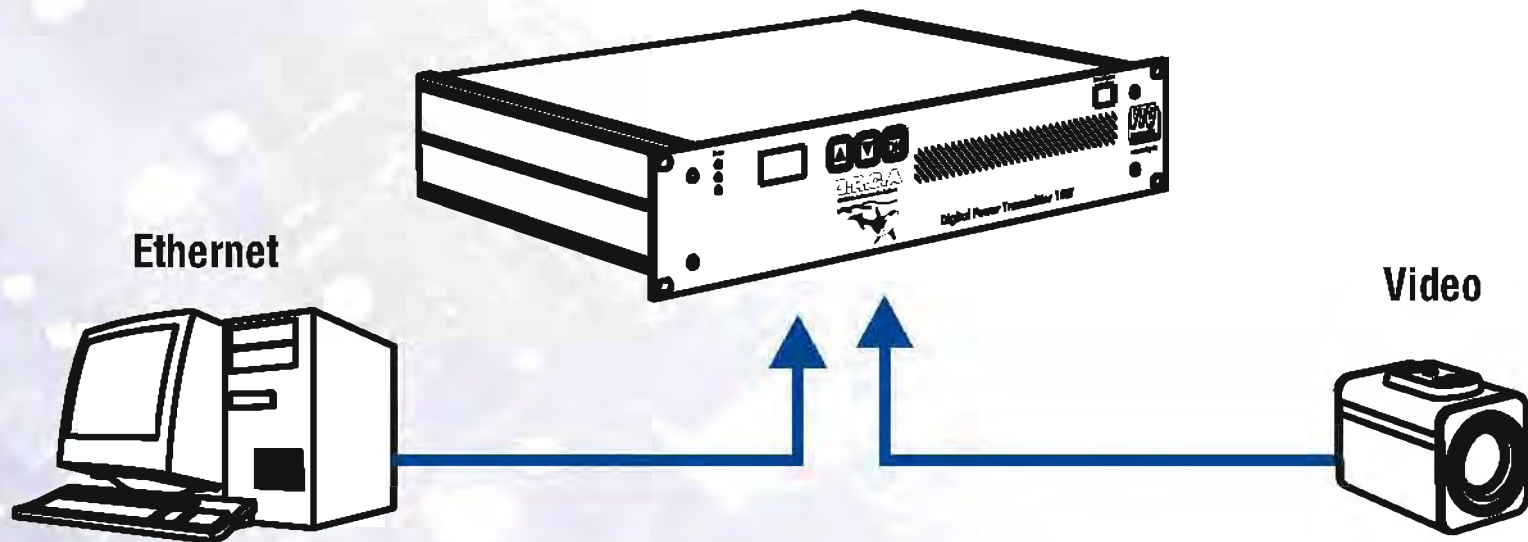
### RSLink 868MHz Telemetry Transceiver

- » digital bidirectional transmission of telemetry and data signals
- » control of pan/tilt/zoom cameras
- » transmission of sensor signals etc.
- » transparent RS232/485/422 interface
- » integrated interface converter

## Unmanned Armored Vehicles

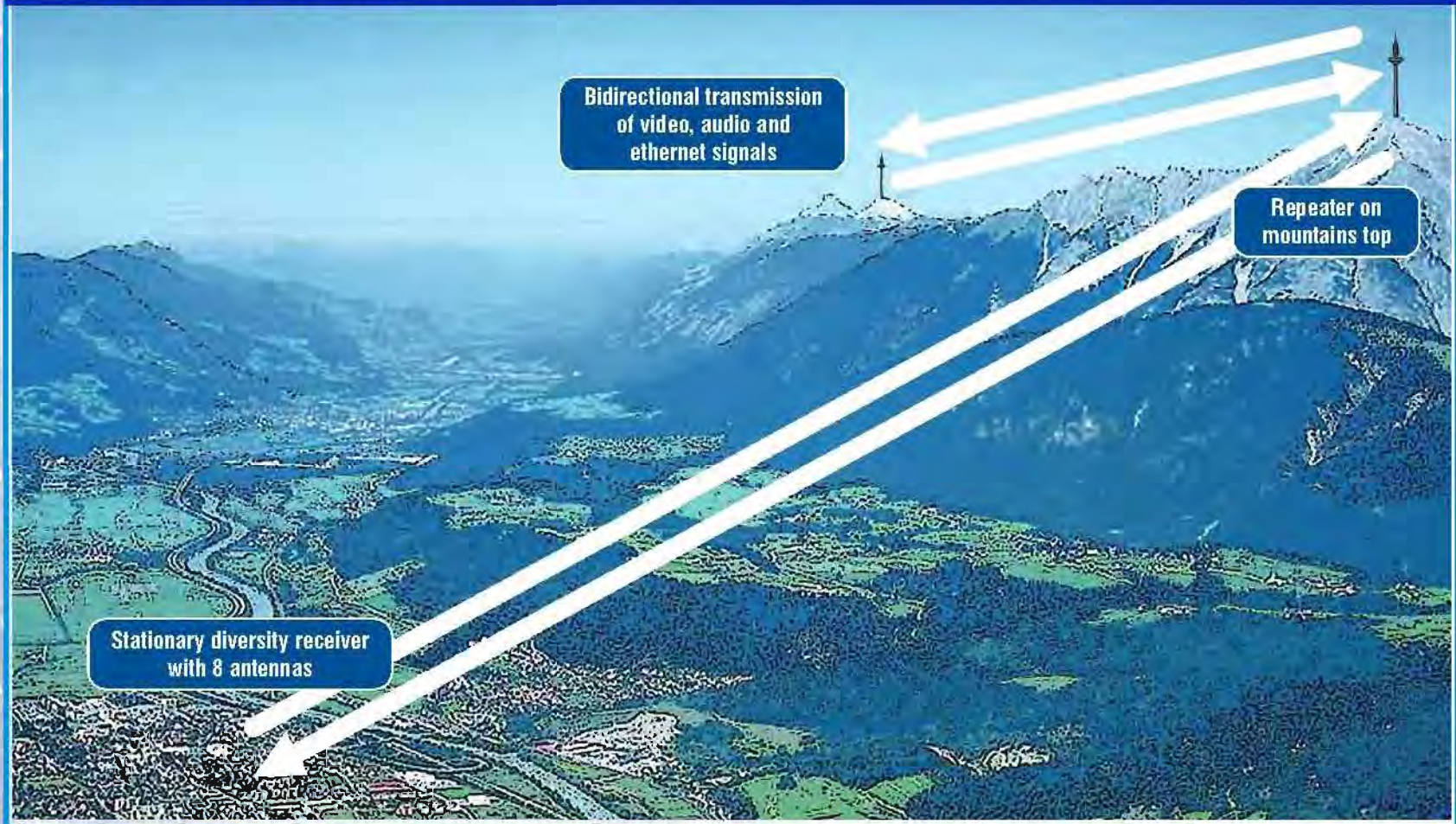
### Transmission of ethernet signals

Example: Video Transmitter with  
1x Video + 1x Ethernet



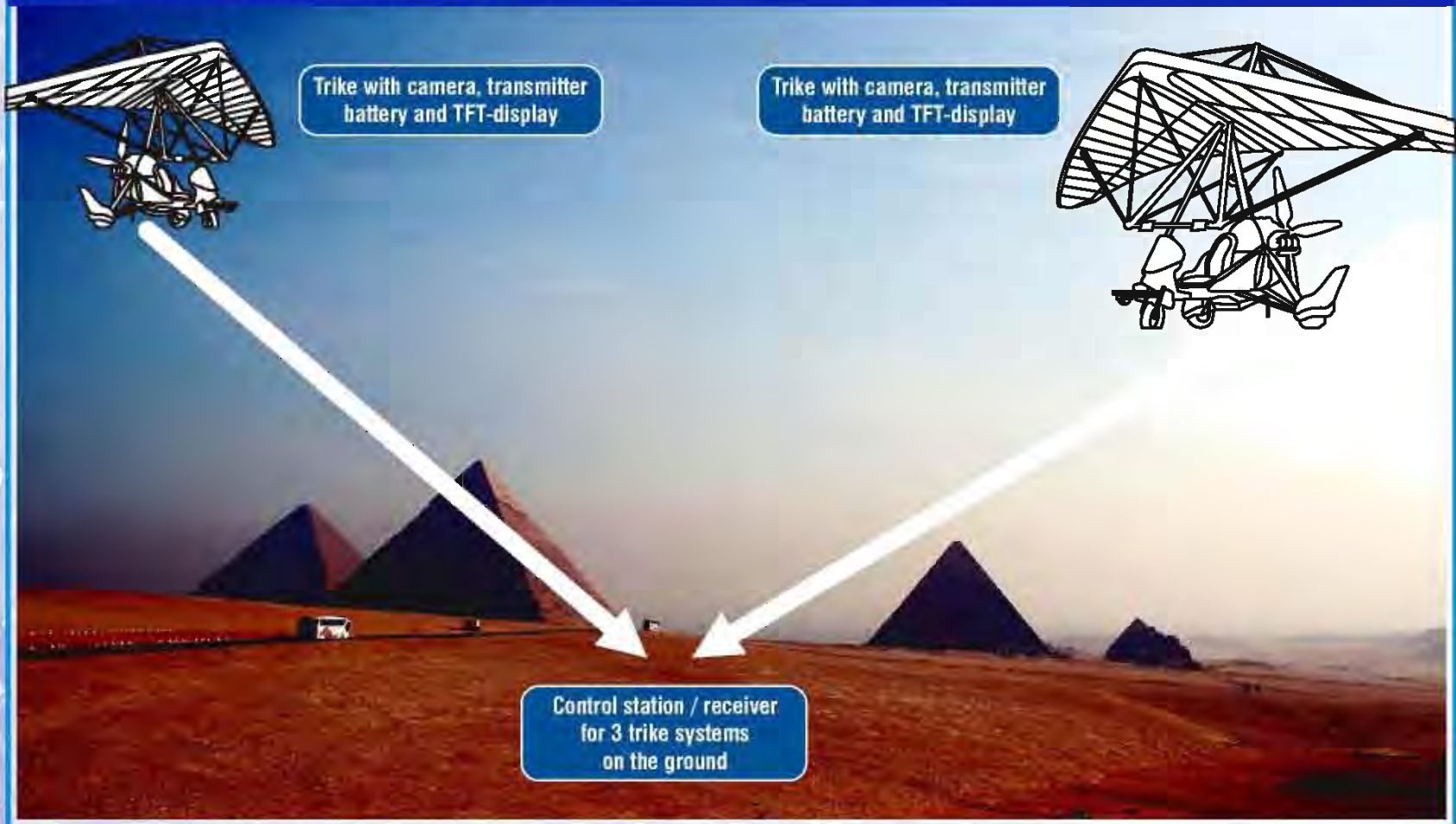


## Long Range Transmission





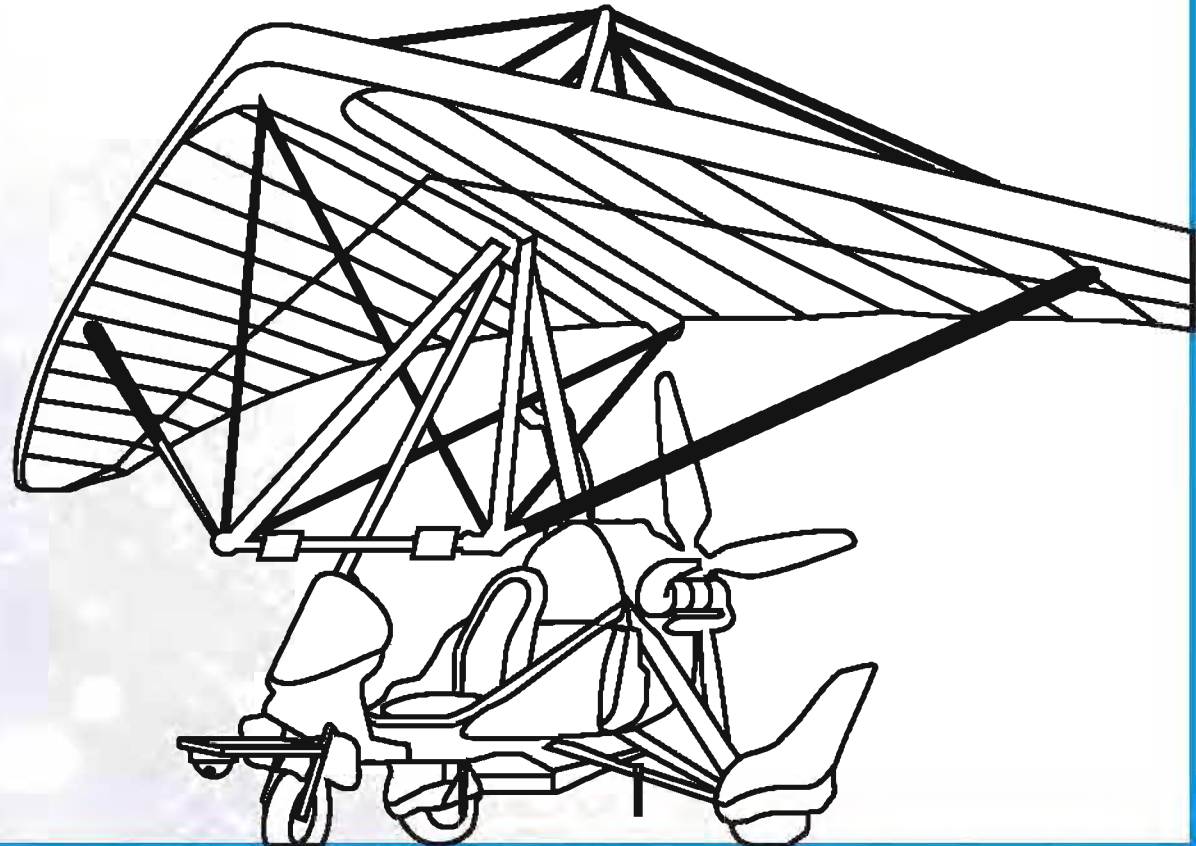
## Trike Transmission System



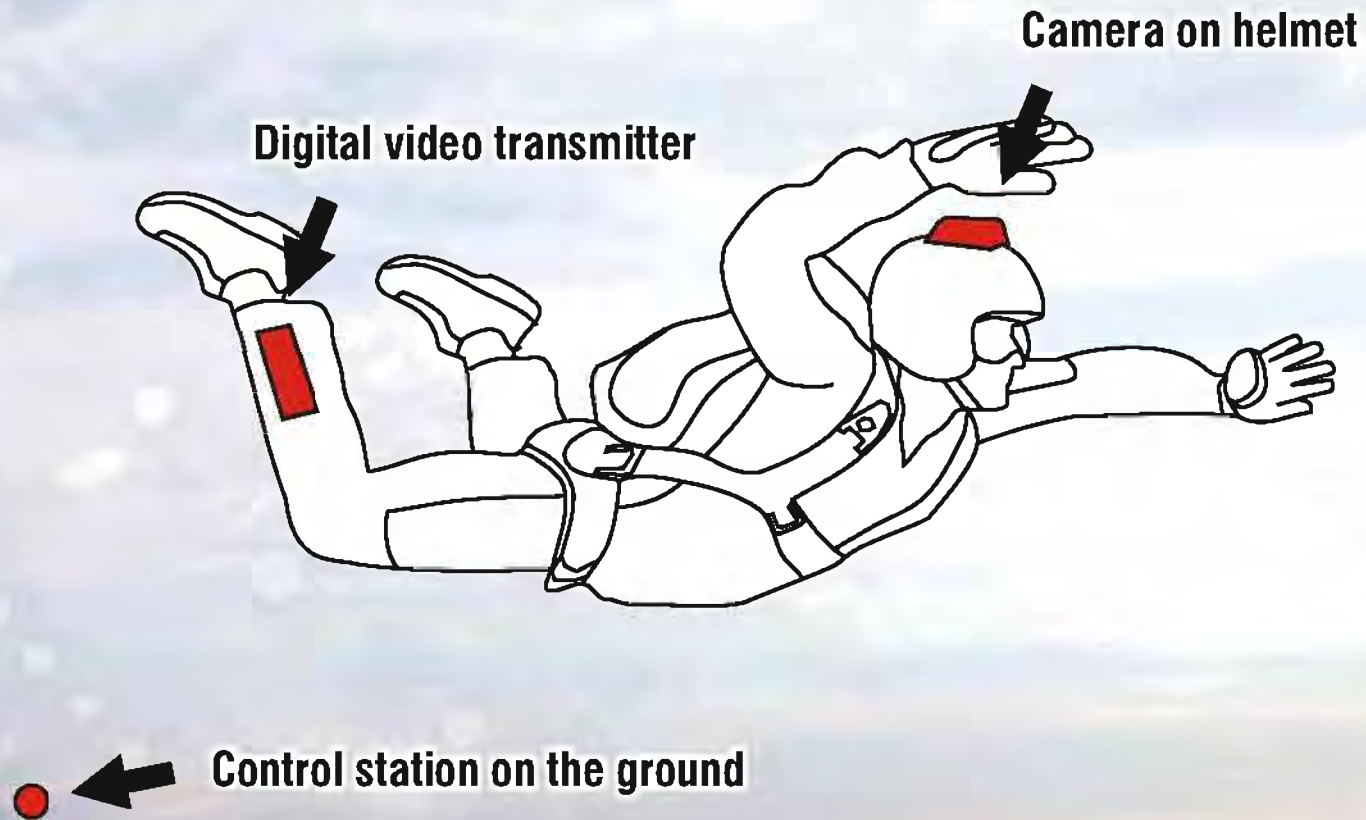


## Trike Transmission System

consist of:  
COFDM Transmitter  
PTZ-Camera  
TFT-Display  
Battery pack  
Control elements



## Parachute Transmitter





# RADIOS-VERTES *sans licence pour Video-Protection*

## Wi200-S HyperBridge 24 GHz- Portées 1 à 10 km Distances/Débits de 24/208 Mbps.

### HyperBridge le Pont Hertzien 2x100 Mbps **sans licence**

Wi200-S HyperBridge est une nouvelle génération de radio Full Duplex opérant dans la bande ISM des 24 GHz. Le modèle Wi200-S est spécialement conçu avec une antenne réduite à **15 cm** seulement pour un usage urbain discret, permettant la création de liaisons ou de "Rings" 100 Mbits F/D très adaptés à la problématique du transport d'images de Vidéo-protection à très haut débit et sans latence. Les modèles Wi200-L, XL et XXL équipés d'antennes de 40/70/100 cm disposent de portées supérieures tout en respectant les directives ARCEP concernant le 24 GHz.



Radio vertes **Wi200-S**



Disponibilité du Bridge FH exprimée en % du temps par an, pour la zone de pluie ITU, G soit 30 mm/h. L'ACM commute automatiquement en fonction de l'intensité de la pluie afin de maintenir un débit sans erreurs.