

VRC



Traffic Control Systems

IP REMOTE CONTROL

The VRC VoIP Remote Controller is a software application designed for the management of air-to-ground communications. It combines the advantages of a VoIP protocol (according to the EUROCAE ED137B standard) with a powerful interface based around a touch screen colour LCD display, to perform operating commands towards OTE D100 radio equipment.

The system uses VRC operating positions to offer maximum connection flexibility. It can be configured according to customer needs in terms of the number of operating positions and connected radios.

VRC-based architectures are very scalable: the simplest, involving the connection of one VRC to one OTE D100 radio, can easily be improved in remote control and radio equipment numbers without the replacement or upgrade of hardware and software.

For that reason, the VRC can be used as:

- Remote Control Unit for emergency radio systems
- Remote Control Unit for main radio systems of small airports and Air Traffic Control centres

MAIN FEATURES

The VRC Remote Control panel is based around Commercial-off-the-Shelf (COTS) hardware. It utilises a tablet computer with colour touchscreen, equipped with audio accessories to allow the remote management and operation the radios.

Each VRC unit is composed of the following basic items:

- Tablet PC with Linux OS
- Headset with boom/gooseneck microphone with embedded loudspeaker and audio interface for additional ancillaries (i.e. earphone)
- Fitting kit for desktop, console or rack installation.

An operator uses the tablet via the company's proprietary software application, permitting the management of multiple OTE D100 series radios connected through the IP network.

The analogue audio interface can be managed by connecting a GAT100 radio gateway.

The VRC provides the following capabilities:

- Tx and Rx audio communications management
- Display of incoming audio communications
- Display of radio transmission (PTT response)
- Settings of main radio parameters (i.e. squelch and frequency value)
- High level of radio and IP connection status for each channel
- General volume control of connected ancillaries
- Radio architecture configuration (e.g.: IP addressing, radio channel type, frequency availability, etc...)

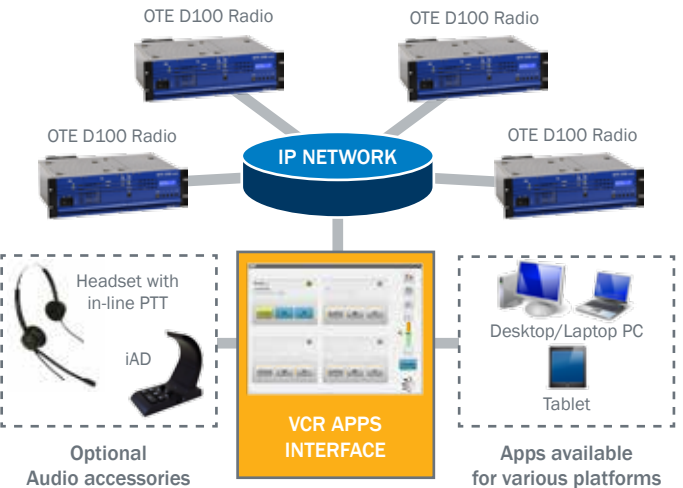
ACCESSORIES

A range of company supplied VRC accessories are available. Each accessory manages audio communication to the VoIP Remote Controller by via a USB interface.

Headset with PTT

This is a light binaural headset with integrated Press-to-Talk (PTT button).

The headset is equipped with a high-resistance PTT button for long-lasting durability. A clip allows the PTT to be worn on a belt.



The VRC system architecture is designed according to the following requirements:

- Control of up to 4 radio channels, each one composed of OTE DTR100 transceiver or separated OTE DT/DR100 transmitter/receiver in standalone or main/standby configuration
- Sharing of one radio channel by up to 4 VRCs.

Integrated Audio Device (iAD)

The Integrated Audio Device (iAD) is the indoor device that allows audio calls management of VRC VoIP Remote Controller.

The iAD includes:

- 3W integrated loudspeaker
- Microphone
- 1W LED courtesy light
- A set of operating buttons and knobs
- Various interfacing connectors for additional audio accessories

