

# MINI IP-BASED COMMUNICATION SYSTEM

## *Remote-controlled VHF Radio Communication System for Small Ports and Coastal Regions*

Danphone's mini communication system has been specifically designed with an eye to small ports and coastal regions requiring just 1 or 2 transceivers to cover the need for VHF communication with vessels and portable radios within the area.

The transceivers are remote-controlled over TCP/IP network from a single touch monitor with integrated PC.



The user interface has been specifically developed for use with touch screen.

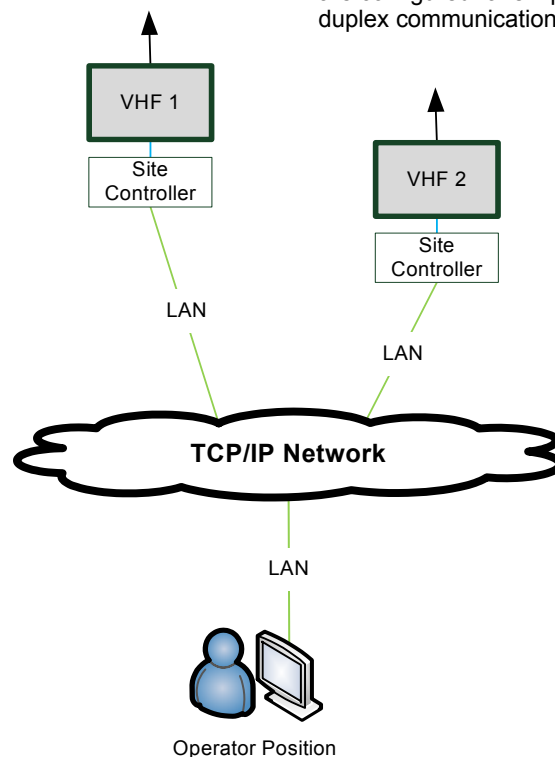
Most functions are easily accessible by a single touch. It is possible to select transceivers for monitoring and traffic, change channels and alter the squelch settings, etc.

The example below illustrates a VHF system with one operator remote-controlling two radio sites, for example two neighbouring ports.

Due to the modular system design, additional transceivers, operator positions and system facilities such as DSC capability and PSTN connections can be easily implemented.

The VHF radio sites are built around Danphone's renowned coast station transceiver type DCB9140.

With up to 75 Watt continuous output power the transceiver can be set up to any international marine channel in either simplex, semi-duplex or full duplex operating mode. In the proposed system the transceivers are configured for simplex and semi-duplex communication.



### System Features

- TCP/IP network based
- Voice over IP
- Full remote control via touch screen operation
- Specifically designed and manufactured for 24/7 operation
- Modular design enables future expansions
- Same proven control software as installed in Danphone coastal radio systems around the World
- ITU and IMO compliant
- Multi-channel VHF transceivers
- Output power adjustable between 2 – 75 Watt
- Frequency range: 156 – 163 MHz (up to 174 MHz upon request)
- MTBF > 50,000 hours
- Network Management System offering remote system configuration and fault diagnosis

## *Manufactured to provide reliable 24/7 VHF Communications*



The transceivers with power supply and Site Controller are supplied in a standard 19" table cabinet, WxHxD = 562x433x540 mm. The photo illustrates a cabinet with just one transceiver. The cabinet allows for two transceivers side by side.

The equipment can also be supplied in a weatherproof cabinet for outdoor installation.

The processor-based Site Controller forms the interface between the transceivers and the IP network and converts the analogue audio from the transceivers to Voice over IP.

The VoIP based audio is transferred over LAN to the voice switch application installed on the operator PC and further on to the audio hub and its peripherals (microphone, speakers, headset, etc.).



Monitor speaker

Touch monitor with integrated PC

Traffic Speaker

Audio hub for the connection of peripherals      Desk mike with PTT

The operator position includes a touch monitor with integrated PC, a microphone with Push-to-Talk button and two loudspeakers, one for traffic and one for monitoring.

The control and switching system does not require any expensive server equipment. All software is installed on the operator PC.

The system also includes an instant recording and replaying feature, which automatically records all voice communications of the selected radios.

Recordings are displayed in the replay panel as individual audio files. The panel typically displays the previous 1-hour. However, this is configurable and can be up to 24 hours.

*For further information regarding our products and references, please refer to our homepage [www.danphone.com](http://www.danphone.com) or contact our sales and technical staff at [info@danphone.com](mailto:info@danphone.com)*

*Danphone conforms to the international quality system standard DS/EN ISO 9001:2008.*

