

Rohde & Schwarz Digital Television Transmission Systems



Digital Television Transmitters

A unique opportunity has arisen to acquire a range of Rohde & Schwarz Digital Television Transmitters designed to a high specification and maintained in excellent condition. They are offered for sale by private treaty through Ramco [UK] Limited, a specialist asset disposal business.

The migration to digital television and clearance of the 800 MHz frequency bands in the UK were hugely successful projects. This equipment was used in one of the later phases of work to release the 800 MHz capacity for use by the mobile telephone industry. All of the transmitters were designed and engineered to provide high levels of availability and reliability during the complex re-engineering of the UK domestic television network and have been maintained to a high standard by Arqiva, the UK's specialist transmission provider.

Useage

The equipment is ideally suited for a number of uses, including:

Standby TX capability, easily transported to deal with TX outages

Temporary TX facilities during a re-engineering project

Individual stand-alone transmitters (would require removal from containers)

High quality spares

History and Background

In December 2009 the United Kingdom became the first nation in the world to use the new DVB-T2 standard to broadcast a free-to-air, high-definition (HD) terrestrial digital television service. The terrestrial transmitter network used to broadcast the new service, Freeview HD, is owned and operated by Arqiva, the communications infrastructure and media services company. Rohde & Schwarz and NEC were commissioned to provide DVB-T2 technology for part of the new network. Utilizing world-class technological expertise and resources in the field of broadcasting, a standby transmission network was developed enabling a DVB-T2 solution to be provided during the switchover period.

Additional Information

Technical & Strategic Advice

In their current configuration the transmitters are of capable of immediate use in regions adopting DVB-T and DVB-T2 (Europe, Africa and much of Asia). Subject to modification either by upgrading the software and/or the exciters they may also be used in regions using ATSC or ISDB-T. Potential purchasers should check with the transmitter manufacturers about modifying the transmitters. A variety of technical advice and support including any software or equipment upgrades are available from original equipment manufacturer.

Viewing & Inspection

The equipment has been assessed by various transmission engineers, all of whom have been impressed by the quality and overall condition of the equipment. Ramco therefore welcomes and will assist with any independent inspection that a potential buyer may wish to undertake. The equipment is excellent condition and currently lying in a secure storage facility near Skegness. Potential buyers should make an appointment to view via sales@ramco.co.uk

Stock List

| PRICE | TITLE | MANUFACTURER TYPE | NOMINAL | CONFIGURATION | KEY COMPONENTS | COOLING | TX CONDITION | INPUT | POTENTIAL USEAGE |
|---------|--------------------------------------------|-------------------|---------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| £15,000 | Rohde & Schwarz 1 | Rohde & Schwarz | 1.2kW | 2 channel N+1 (single 1.2kW tx for each channel + one common 1.2kW spare) | 5 x VH8300 amplifiers per tx 1 x SX800 exciter per tx 2 x UPS for critical low power components. RF Switch panel for RF routing, including amplifier selection, main reserve antenna selection and test load selection, under remote/auto control Additional manual U-links to bypass switching panel | Air Air handling / recirculation system | Excellent condition. Appears little used | Dual Fibre auto switched | 1. Dual channel, high resilience installation in new network 2. Temporary use during network upgrade |
| £30,000 | Rohde & Schwarz 2A and 2B (Two containers) | Rohde & Schwarz | 6.1kW | 2 channel N+1 (single 6.1kW tx for each channel + one common 6.1kW spare) | 10 x VH8600 amplifiers per tx 1 x SX800 exciter per tx 2 x UPS for critical low power components. RF Switch panel for RF routing, including amplifier selection, main reserve antenna selection and test load selection, under remote/auto control Emergency manual U-links to bypass switching panel | Liquid One pump unit per tx, and dual HE system System installed in a separate 20ft container with interconnecting pipe work | Excellent condition. Appears little used | Dual Fibre auto switched | 1. Dual channel, high resilience installation in new network 2. Temporary use during network upgrade |
| £12,000 | Rohde & Schwarz 3 | Rohde & Schwarz | 3.1kW | Single channel Single amplifier, Dual exciter | 5 x VH8600 amplifiers 2 x SX800 exciters 1 x UPS for critical low power components. RF Switch to select main or reserve antenna, remote / auto control | Liquid. Single (Glycol/water) arrangement with two pumps | Excellent condition. Appears little used | Dual Fibre auto switched | 1. Single channel, high resilience installation in new network 2. Standby installation for emergency use 3. Temporary use during TX upgrade 4. Individual low cost standalone 2 x TXs |
| £13,500 | Rohde & Schwarz 4 | Rohde & Schwarz | 6.1kW | Single channel Single amplifier, Dual exciter | 10 x VH8600 amplifiers per tx 1 x SX800 exciter per tx 1 x UPS for critical low power components. RF Switch to select main / reserve antenna, under remote / auto control. Emergency U-links to bypass switch | Liquid Single arrangement with 2 pumps | Excellent condition. Appears little used | Dual Fibre auto switched | 1. Single channel, high resilience installation in new network 2. Standby installation for emergency use 3. Temporary use during TX upgrade 4. Individual low cost standalone 2 x TXs |
| £15,000 | Rohde & Schwarz 5 | Rohde & Schwarz | 1kW | Single channel Single amplifier, Dual exciter | 4 x VH8300 amplifiers 2 x SX800 exciters 1 x UPS for critical low power components. RF Switch to select main or reserve antenna, remote/auto control. Emergency U-links to bypass RF switch | Air Air handling system with dual fans, and recirculation system | Excellent condition. Appears little used | Dual Fibre auto switched | 1. Single channel, high resilience installation in new network 2. Standby installation for emergency use 3. Temporary use during TX upgrade 4. Individual low cost standalone 2 x TXs |

All containers (except Rohde & Schwarz 2B) are equipped with air conditioners, some single but most are dual. RF connections are installed at high level with access flaps in the container structure. Air blast coolers are situated at the container ends and are enclosed in locked steel mesh cages. Mains electrical supplies are 415 volt 3 phase and enter the container through glands under the floor structure. Air cooling ducts are at high level and have turndowns incorporating mesh grills. Each container is equipped with a domestic DVBT television receiver.



For further information or to arrange a viewing
please contact the sales team on 01754 880880

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