

# Digital sound system

The Wandsworth Digital Sound System is primarily for use in hospitals, enabling the selection of up to sixteen programmes, either TV, FM or AM radio and auxiliary inputs.

These digital signals are distributed from a modular master unit via one four-core screened data cable. This low cost, light-

weight data cable reduces installation time and simplifies connections. Isolation techniques ensure that faults are localised and do not affect the rest of the system. The system is flexible, allowing easy expansion or modification after installation, and all module receiver types are interchangeable.

Digital signals significantly improve sound quality, resulting in less interference, and the sound from all TV stations can be distributed, offering listening choice to patients.



## QD580 Master Chassis and Modules

The master chassis is supplied as a complete assembly and contains the power supply, encoder and monitor modules with all their relevant connections in the outer case. This master chassis is then ready to accept the receiver modules of your choice, and if necessary the blank panels.

A modular concept unit 450mmW x 182mmH x 400mmD housing the power supply, encoder and monitor modules. Receiver modules are ordered as required. The unit is finished in light and dark grey with the module fronts of anodised aluminium.

## QD582 Dual Encoder

Used to replace the original encoder in the QD380 DSS Master Rack Assembly and provide two data outputs for DSS systems and two data outputs for DCS systems.

## Monitor Module

Each individual channel may be monitored by the channel select push button and indicator. A frequency meter shows the station that each receiver is tuned to; a level indicator allows accurate tuning and a stethophone driver enables audio quality checks to be made.

## Power Supply Module

Includes On/Off switch and supply indicators. Provides isolation from the mains and +5, +18, +30V dc supplies regulated and protected for the unit.

## Encoder Module

Housing the system clock analogue to digital converters and data cable driver, this unit can encode the audio from up to eight receiver modules (16 programmes).

## QD381 FM Module

Contains two individual FM radio receivers which cover the 87.5 to 108Mhz frequency band. Each has an AFC push button and a screwdriver tuning control.

## QD382 AM Module

Contains two individual AM receivers which cover the 525 to 1605 KHz frequency band. Each has a screwdriver tuning control.

## QD383 MW/LW Radio Module

Contains two radio receivers, one for the AM 'medium wave' frequency band 525 to 169KHz, one for the 'long wave' frequency band 148 to 284KHz. Each receiver has a screwdriver tuning control.

## QD384 TV Module

Contains two individual TV sound receivers which cover the UHF channels 21 to 68. Each has an AFC push button and a screwdriver tuning control.

## QD385 Auxiliary Microphone Input Module

Contains an auxiliary input for use with external audio source such as a tape recorder, and a microphone input for use with a low impedance microphone. Both have level controls.

## QD395 Repeater Unit

Required for sound system main or secondary wiring runs in excess of 300m. The repeater unit regenerates the digital signals to allow a further 300m wiring run. Box surface: 8391/B.

## QD386 Blank Front Panel

Blanking plate.

## QD509 Loudspeaker Control Unit

For use with remote loudspeaker (not supplied) in areas such as dayrooms. Front cover plate 174mm x 174mm. Control switches on membrane panel. Standby On/Off; Programme Select Up/Down; Volume Up/Down. LED display for indicating programme selected. QD509 will decode up to 16 programmes. Amplifier output 1W into one 8ohm loudspeaker. The interface connecting PCB is as detailed for QD501 Bedhead Unit, including the provision for fitting a sounder PCB (QD559). Data cable ring item. Box flush 8406/B.

