

# DIGITAL RADIO TUNER DRX-602ES

A Revolution in Broadcast Audio



A revolution in broadcast audio, Digital Audio Broadcast (DAB) uses digital transmission to eliminate the hiss, crackle and fade associated with conventional analogue radio signals. Part of the highly successful DRX range of DAB tuners, the DRX-602ES has all the features of What Hi Fi's tuner of the year, the DRX-601ES, and adds dual-band capability, enabling it to be used wherever DAB is broadcast.

Standardised in 1995 the Eureka 147 DAB standard has now been adopted throughout Europe and in Canada, Australia, India and China and is broadcast to a potential audience of over 230 million people worldwide. With full Band III and L-Band support the DRX-602ES can be used anywhere in the world and can be set to display text in English, French, German, Italian, Spanish, Swedish, Dutch, Portuguese, Finnish, Danish or Norwegian.

In addition to incredible hi-fi audio quality, DAB provides a number of features not available via analogue FM. Digital radio is broadcast as groups of data called multiplexes which contain a number of stations, each station made up of a primary service and an optional secondary service providing additional unique-to-digital material. All stations have labels which enable you to select them by name and broadcasters can provide scrolling text for additional information such as news updates, sports results and programme information.

Designed to complement your hi-fi separates system, either as an additional input source to your amplifier or as a companion to an existing FM radio tuner, the DRX-602ES has a high-sensitivity RF tuner module, high-performance DSP processor, 24-bit 96 kHz stereo delta sigma DAC and a low-noise toroidal transformer power supply.

**DAB**  
Digital Audio Broadcasting

## Crystal-clear reception

Analogue FM radio signals suffer from hiss, crackle and fade caused by multipath distortion. DAB overcomes this by automatically sensing the strongest regional transmitter and then using advanced signal processing techniques to provide digital-quality sound with no break-ups.

## Extensive language support

Full language and character-set support for eleven languages enables the DRX-602ES to display English, French, German, Italian, Spanish, Swedish, Dutch, Portuguese, Finnish, Danish and Norwegian.

## Unique PAC™ technology

The DRX-602ES takes DAB audio quality to even greater heights with the addition of PAC™ (psycho-acoustic compensation) technology. Developed by PURE Digital after in-depth analysis of the DAB transmission process, PAC™ provides an outstandingly natural sound. PAC™ technology is not available in other DAB tuners.

## No compromise design

The DRX-602ES combines audiophile performance and great looks with its stylish slimline silver anodised front panel, silver finish casework, blue LED indicators and an easy to read blue/white display.

## Easy to set-up and use

A one-touch fast-tune facility finds all the stations available in your area. Flick through the entire list of stations to see each by name. Store and access over 80 of your favourite stations using the infrared remote control.

## Latest DAB features

LCD display shows additional data supplied by the broadcaster such as the station name and programme description, or scrolling text for programme summaries, news headlines or sports results.

## Maximum connectivity

Connectors include analogue loop-through for an existing FM tuner; coaxial and optical digital audio outputs; and analogue audio output. Additional Receiver Data Interface (RDI) optical digital output for future media extensions when supporting services are introduced.



[www.pure-digital.com](http://www.pure-digital.com)

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### TECHNICAL SPECS

**Specifications:** Digital radio tuner, with full Band III and L-Band reception capability for reception of all DAB broadcasts in your area. Fully compliant with ETS 300 401 and capable of decoding all DAB transmission modes 1-4. With analogue stereo output, optical and coaxial 48 kHz S/PDIF digital output and RDI digital output.

**Frequency range:** Band III (174-240 MHz) and L-Band (1452-1490 MHz), with auto-tune feature.

**Tuner sensitivity:** -98 dBm.

**Integrated DAC:** 24-bit 96 kHz stereo DAC.

**Input connectors:** RF F-connector 75Ω for DAB aerial connection (aerial supplied). Dual phono for external line level audio input (from FM/AM/AUX tuner unit) with auto pass-through to output at power off.

**Output connectors:** Dual phono for stereo analogue audio output. Optical Toslink connector for digital S/PDIF output (IEC958 @ 48 kHz). Coaxial connector for digital S/PDIF output (IEC958 @ 48 kHz). Optical connector for digital RDI output.

**Display languages:** English, French, German, Italian, Spanish, Swedish, Dutch, Portuguese, Finnish, Danish and Norwegian.

**Controls:** Power on/off. Autotune, language and tuning zone selection button. Rotary selection switch. Brightness button selects between 4 levels of LCD display brightness. Display button selects between DLS (Dynamic Label Segment) scrolling text, programme type, and Service Information (DAB multiplex name, frequency, etc.) for LCD display. Info button switches LCD between signal strength indicator and mono/stereo mode plus service data rate.

**Indicators (front panel):** LED power-on indicator. Remote control activity indicator. Stereo service indicator. Secondary service indicator.

**High visibility STN LCD display:** 16 x 2 characters with 4 user-selectable brightness levels.

**Performance:** Frequency response (limited by broadcast - DAC capable of higher responses) of 20 Hz to 20 kHz

for 48 kHz decode: 20 Hz to 12 kHz for 24 kHz low sample frequency (LSF) decode.

**THD (nominal output):** Less than 0.005% at 1 kHz

**S/N Ratio:** 100 dB.

**Remote control:** Infrared remote control functions include: station select, store/recall of up to 81 preset stations, DRC (dynamic range control), mute and primary or secondary information display.

**Power supply:** High-performance, low noise internal toroidal transformer power supply. 220-240V AC 50 Hz.

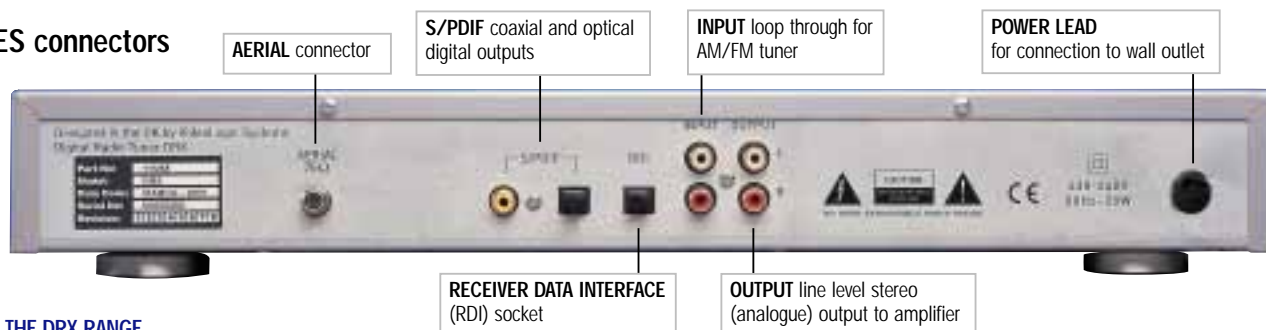
**Approvals:** CE marked. Compliant with the EMC and Low Voltage Directives (89/336/EEC and 73/23/EEC).

**Dimensions:** 430 mm (w) x 65 mm (h) x 270 mm (d).  
**Cables supplied:** Stereo phono to phono cable and DAB 'T' indoor aerial.

**Technical support:** Telephone support hotline and Internet web site.

**Warranty:** Two years.

### DRX-602ES connectors



### ACCLAIM FOR THE DRX RANGE

#### The Sunday Times, Doors, May '01

"Produces crystal-clear stereo sound...this is a must for serious radio listeners."

#### What Hi Fi Sound And Vision Awards 2001 Tuner Product of the Year

"The DRX-601E digital tuner came out of nowhere to establish the firm as a major player in the digital tuner market. With the DRX-601ES VideoLogic goes one step further... the sound quality alone makes it a Product of the Year."

#### HiFi Choice, February '01 Best Buy

"In terms of sound quality this 'budget' DAB tuner can meet more expensive alternatives head on... If you want DAB I'd say the choice is simple."

#### Stuff, February '01 5/5

"...blowing away the competition... the DRX-601E is a digital tuner that undercuts the competition but doesn't lose sound quality or functionality."

#### Which?, February '01

"In our tests it sounded just as good as the more expensive digital tuners we looked at..."

#### Classic FM, March '01 Best Buy

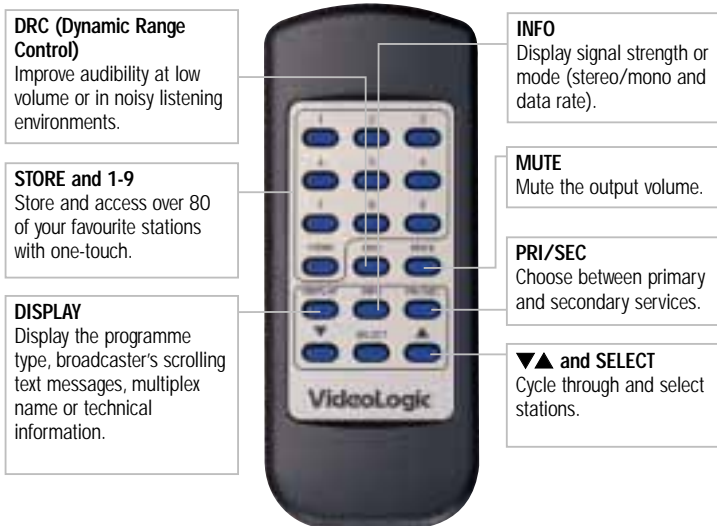
"...the DRX-601E's sound is more than a match for that of the existing hybrid digital/analogue tuners..."

#### Gramophone, February '01

"..enjoyable in hifi terms. This is a real bargain and comes with a solid recommendation for anyone considering a move into digital radio..."



### Remote Control Functions



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