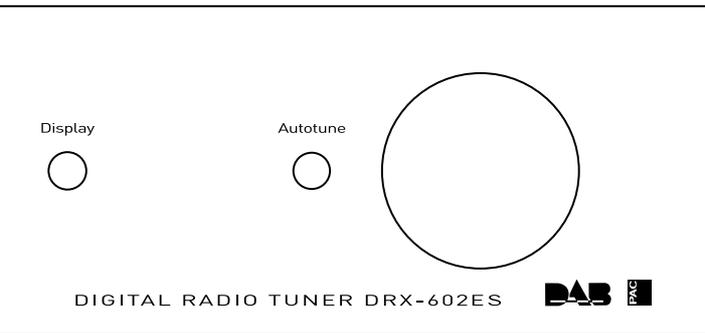
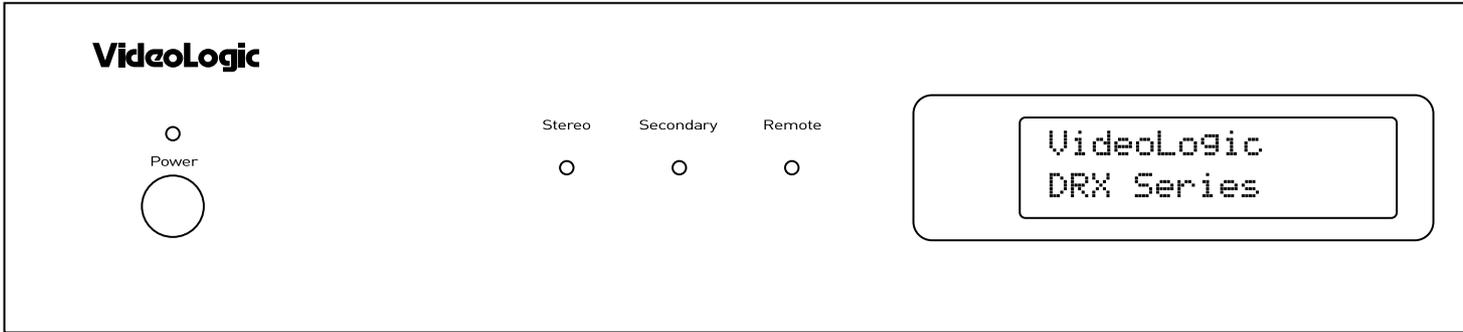


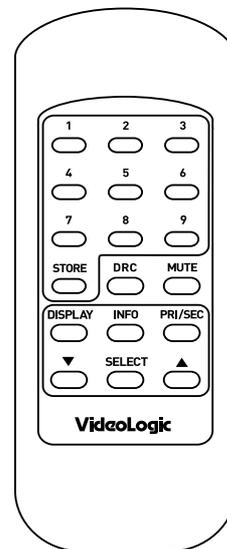
DIGITAL RADIO TUNER DRX-602ES



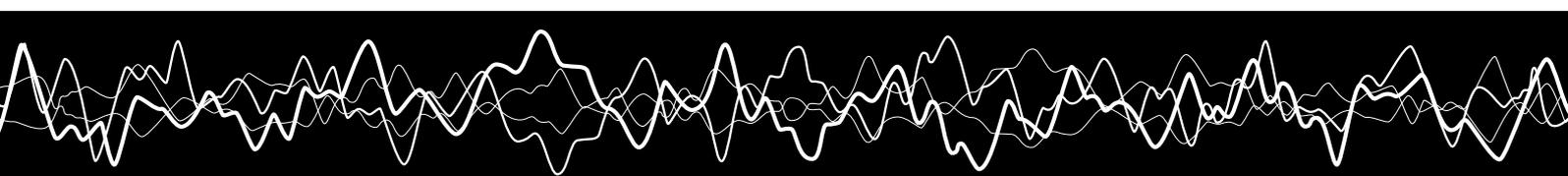
Operating Instructions..... **ENG**

Bedienungsanleitung..... **DEU**

Consignes d'utilisation..... **FR**



DAB
Digital Audio Broadcasting



VideoLogic

Safety instructions

Keep the unit away from heat sources.

Do not use the unit near water.

Avoid objects or liquids getting into the unit.

Unplug the power lead if the unit will not be used for a long period.

Mains safety

The unit uses a 220-240V AC 50 Hz (Europe) or 115V AC 60Hz (Canada) power supply.



When replacing the fuse in the supplied moulded mains plug, always refit the integral fuse holder/cover. Always fit a 3 amp fuse either in the plug or adapter, or at the distribution board.

Do not attempt to remove any screws or open the unit. No user serviceable parts are inside.

For your safety, always obey the warning:

CAUTION - RISK OF ELECTRIC SHOCK - DO NOT OPEN COVER

Sicherheitsvorschriften

Halten Sie der Radio von Wärmequellen fern.

Betreiben Sie der Radio nicht in unmittelbarer Wassernähe.

Verhindern Sie jegliches Eindringen von Flüssigkeit in das Innere der Radio.

Unterbrechen Sie die Stromzufuhr zum Radio, wenn sie es für längere Zeit nicht nutzen.

Sicherheit im Umgang mit Netzstrom

DigiTheatre DTS benötigt eine Betriebsspannung von 220-240 Volt Wechselstrom mit 50 Hz (Europa) oder 115 Volt Wechselstrom mit 60 Hz (Kanada).



Versuchen Sie keinesfalls der Radio zu öffnen. Es befinden sich keine Teile innerhalb des Gehäuses, die vom Benutzer gewartet werden können.

Für Ihre Sicherheit beachten Sie folgendes:

ACHTUNG - GEHÄUSE NICHT ÖFFNEN - LEBENSGEFÄHRLICHE SPANNUNG.

Consignes de Sécurité

Ne pas placer l'unité à proximité d'une source de chaleur.

Protéger l'unité contre la pluie et l'humidité.

Veiller à ce qu'aucun objet ou liquide ne pénétre dans l'unité.

Débrancher le câble d'alimentation en cas de non utilisation prolongée de DRX-602ES.

Sécurité électrique

L'unité doit être branché sur une tension secteur de 220-240 V CA 50 Hz (L'Europe) ou 115V CA 60Hz (Canada).



Ne pas tenter d'ouvrir l'unité. Aucune des pièces se trouvant à l'intérieur ne peut être réparée par l'utilisateur.

Respecter la consigne de sécurité suivante:

ATTENTION - RISQUE DE CHOC ÉLECTRIQUE - NE PAS OUVRIR LE BOÎTIER.

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This manual was written by Bruce Murray and illustrated by Philippa Page. It is a product of VideoLogic Systems, Imagination Technologies Ltd., Home Park Estate, Kings Langley, Hertfordshire WD4 8LZ, UK.

Edition 1 June 2001

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Erstausgabe Juni 2001

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Premier edition Juin 2001

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Introduction

Thank you for choosing the DRX-602ES Digital Radio Tuner.

This manual provides information on setting up your unit, instructions on using it and details of the accessories and support available.



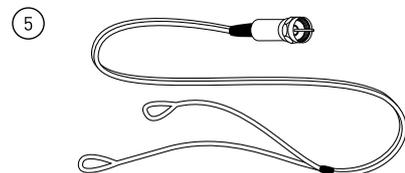
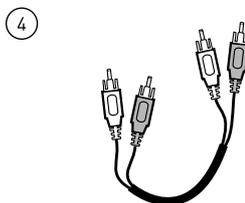
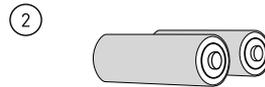
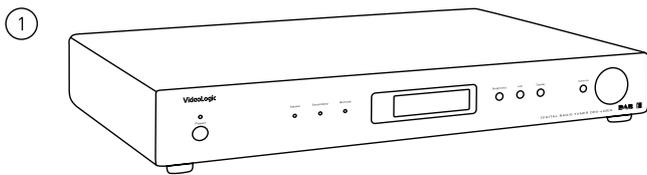
The DRX-602ES is a dedicated high performance digital radio tuner. Also known as Digital Audio Broadcast (DAB), digital radio provides superb quality sound, eliminating the hiss, crackle and fade associated with analogue radio broadcasts.

Designed to complement your hi-fi separates system, the DRX-602ES has a range of input and output sockets for maximum connectivity including: dual phono for stereo analogue audio output to your amplifier; coaxial and optical S/PDIF digital output (48 kHz) for direct digital recording to MiniDisc, CD-R or DAT; AM/FM tuner line-level input with auto pass-through to output at power off; optical RDI data output connector and RF F-connector for your aerial.

If you are new to digital radio, see *Guide to Digital Radio* for our quick guide.

Unpacking

This section lists the contents of your DRX-602ES package. After unpacking your box check that you have all of the following items. Contact us if any items are missing or damaged.



① One DRX-602ES Digital Radio Tuner unit

④ One stereo phono to stereo phono cable

② Two batteries (AAA size) for the remote control

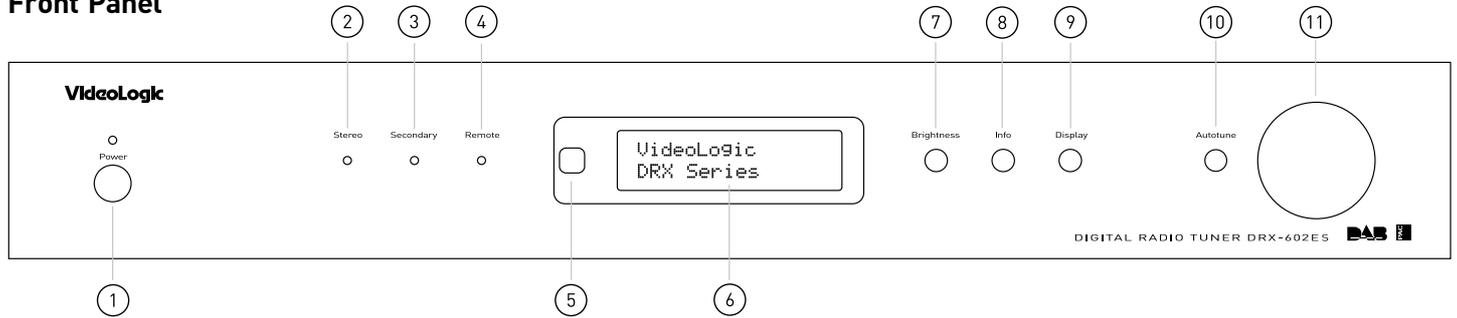
⑤ One DAB ribbon indoor aerial

③ One infrared remote control handset

Controls and Connectors

This section provides information on the controls and connectors available on the front and back panels of your DRX-602ES. For information on the remote control, see *Using the remote control*.

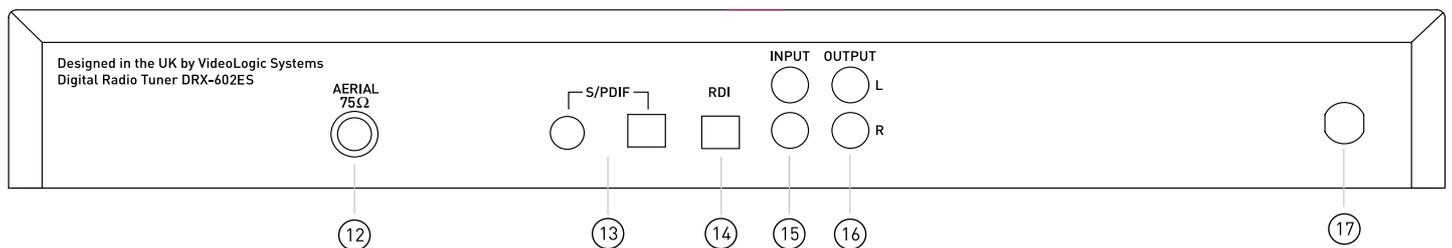
Front Panel



- ① **Power** on/off button and LED
- ② **Stereo** LED indicates when stereo service is being received, see *Using your DRX-602ES: Selecting a service*
- ③ **Secondary** LED indicates whether secondary services are available, see *Using your DRX-602ES: Selecting a service*
- ④ **Remote** LED indicates remote control activity
- ⑤ **Remote sensor** picks up the infrared signal from the remote
- ⑥ **Backlit LCD display**
- ⑦ **Brightness** button changes the display brightness
- ⑧ **Info** button changes the information mode of the display, see *Using your DRX-602ES: Viewing extra information*
- ⑨ **Display** button changes the main display mode, see *Using your DRX-602ES: Changing the display mode*
- ⑩ **Autotune** button provides one touch tuning, language and tuning zone selection see *Using your DRX-602ES: Tuning*
- ⑪ **Tuning** button selects the digital radio service, see *Using your DRX-602ES: Selecting a service*

ENG

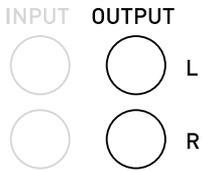
Rear Panel



- ⑫ **AERIAL** connector
- ⑬ **S/PDIF** co-axial and optical digital outputs, see *Setting up: Connecting to digital devices*
- ⑭ **RDI** (Receiver Data Interface) socket, see *Setting up: Connecting to an external decoder*
- ⑮ **INPUT** loop through input for AM/FM tuner
- ⑯ **OUTPUT** to amplifier line-level stereo (analogue)
- ⑰ **Power lead** for connection to wall outlet

Setting up

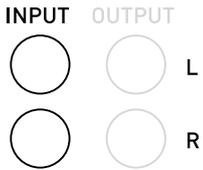
This section provides information on connecting your DRX-602ES to your hi-fi and connecting your aerial. Connector sockets are provided on the back panel of your DRX-602ES. Before connecting other devices to your DRX-602ES, switch both devices off.



Connecting to your amplifier

To get sound from your DRX-602ES you need to connect it to your speakers via an amplifier. This may be a stand alone unit or it may be built into your existing hi-fi system or powered speakers.

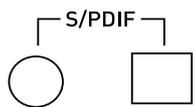
Connect the OUTPUT sockets to the Tuner-in sockets on the back of your amplifier using the supplied stereo phono cable.



Connecting to an auxiliary source

If you have an existing radio tuner, or other auxiliary device, you can connect it through your DRX-602ES to reduce connections to your amplifier. The auxiliary device output will then be passed through the analogue outputs to your amplifier when your DRX-602ES is switched off.

Connect the INPUT sockets to the output sockets on the back of your auxiliary device using a stereo phono cable.



Connecting to digital devices

Your DRX-602ES can provide digital audio output for connection to digital speakers, the digital input on your amplifier or digital devices such as MiniDiscs, CD-Rs or DAT recorders.

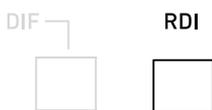
Connect the coaxial S/PDIF or the optical S/PDIF socket to the digital-in socket on your digital device using a suitable cable. Connecting cables are available from VideoLogic, see *Accessories* for details.



Connecting to your aerial

You need to connect either the supplied indoor aerial or an external DAB aerial to your DRX-602ES to receive digital radio transmissions. For information on the different types of aerials available, see *Aerial advice*. For information on how to find out about DAB coverage in your area, see *Guide to Digital Radio*.

1. Screw the aerial plug onto the F-type AERIAL connector.
2. For the best reception, if using the indoor aerial supplied, attach the aerial horizontally to a wall using some adhesive tape and extend the arms on the end of the aerial wire vertically into a 'T' shape on its side, as illustrated.



Connecting to an external decoder

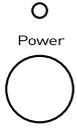
The RDI (Receiver Data Interface) optical connector provides access to raw multiplex data. This may be used in the future to connect to an external decoder or computer for access to extra services. These services may not currently be available in your area.

Connecting to power supply

Once all audio connections are complete as described above connect the power lead to a wall outlet.

Using your DRX-602ES

This section provides information on using your DRX-602ES including tuning, selecting a service and altering the displayed information.



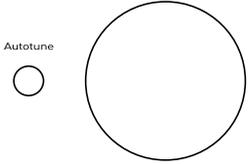
Switching on for the first time

Before switching on for the first time, check all connections and ensure that the volume on your amplifier is low.

1. Push and release the **Power** button to switch the unit on. The blue power LED will light up.
2. Press the **Autotune** button to enter first time setup mode.
3. Rotate the tuning button to select your tuning zone; UK, Canada or Rest of World and press the **Autotune** button again to confirm your selection.
4. Rotate the tuning button to select the language your DRX-602ES will use for display text. Press the **Autotune** button to confirm your selection and start the autotune process.

When autotune is complete you will hear the first service found and its name will be shown on the display. All the services found are now stored in the unit and setup is complete.

If you want to change any of these settings, follow the instructions given in the sections below.



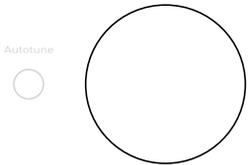
Selecting a service

Once you have tuned your DRX-602ES you can use the turn-and-push tuning button to select digital radio services.

1. Rotate the tuning button to see the names of the stored services on the bottom line of the display. Stop when you find the service to which you want to listen.
2. Push and release the tuning button to confirm your selection. The service name will be displayed on the top line of the display.

If the service you select is in stereo, the Stereo LED will light up. If the service you select has one or more secondary services available, the Secondary LED will light up. For information on primary and secondary services, see *Guide to Digital Radio*. For details on selecting primary or secondary services, see *Using the remote control*.

If reception is poor, check the signal strength and try repositioning your aerial using the signal strength indicator, see *Using your DRX-602ES: Viewing extra information*.



Changing the display mode

The DRX-602ES has four display modes which enable you to view different elements of the broadcast data on the bottom line of the display. Press the **Display** button and repeat or hold to cycle through the four different display modes.

Dynamic Label Segment Scrolling text accompanying the audio, where available.



Program Type A description of the type of content being broadcast by the service.



Multiplex name The name of the multiplex in which the current service is found.



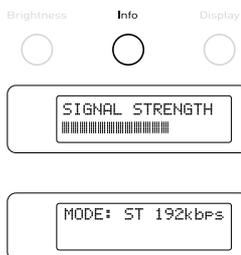
Technical Information The channel label and centre frequency for the current multiplex.



Changing the display brightness

The DRX-602ES has four levels of brightness which you can alter to suit the light level in your room.

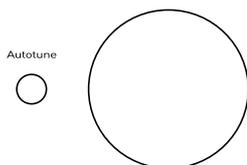
Press the **Brightness** button and repeat or hold to cycle through the four brightness levels.



Viewing extra information

The DRX-602ES has two information modes. Press the **Info** button and repeat or hold to view the information modes.

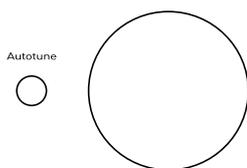
- | | |
|-----------------|--|
| Signal strength | Displays the strength of the signal for the current multiplex. Maximum strength is shown by 16 bars. If sound quality is poor you may be able to increase signal strength by repositioning your aerial. |
| Mode | Displays the mode of the current service, Stereo (ST) or Mono (MN) and the data rate at which the audio signal is being transmitted. The data rate is set by the broadcaster to suit the type and quality of material being transmitted. |



Changing your tuning zone

Your DRX-602ES can receive both Band III and L-band DAB transmissions. To speed up the autotune process you can restrict the frequencies scanned by selecting one of three tuning zones: UK (Part of Band III), Canada (Band III + Canada L-band) or Rest of World (Band III+Europe L-band). The tuning zone is selected when you first set up the unit. To change your tuning zone:

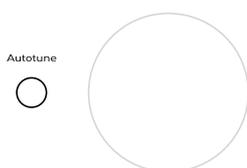
1. Press and release the **Autotune** button three times.
2. Rotate the large tuning button to select the required zone and press the **Autotune** button again to confirm your selection. You can now select the display language as described below.



Changing your display language

You can set the display to one of 11 languages. If you are setting your display language directly after setting your tuning zone go straight to step 2 below.

1. Press and release the **Autotune** button four times.
2. Rotate the large tuning button to select the required language and press the **Autotune** button again to confirm your selection. You can now tune your DRX-602ES as described below.



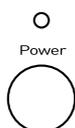
Tuning

Tuning the DRX-602ES is very simple. In most cases you only need to perform this operation once, when you first set up the unit. If you are tuning directly after setting your display language go straight to step 2 below.

1. Push and release the **Autotune** button. The display will indicate tuning is underway.
2. If you want to cancel the autotune procedure, push and release the **Autotune** button a second time during tuning. When finished, you will hear the first service found and its name will be shown on the display. All the services found are now stored in the unit.

If no services are found the display will show NO ENSEMBLES. Check your aerial connection and positioning and try the tuning process again.

You may want to repeat this process in the future if you change your aerial position or if you want to receive a newly introduced service.



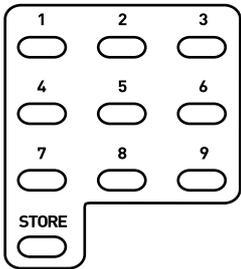
Switching on and off

We recommend that you switch off your DRX-602ES when not in use to prevent energy wastage. If you leave the unit switched off for an extended period (around a month or longer) you may need to re-tune the unit to refresh the available services.

Push and release the **Power** button to switch the unit on or off.

Using the remote control

This section provides information on using the remote control. The infrared remote control provides access to the main functions of your DRX-602ES and also advanced facilities such as presets and dynamic range control. Before using your remote, insert the supplied batteries. Aim the remote control at the sensor on the display panel on your DRX-602ES.



Buttons (1-9) and the **STORE** button enable you to store your favourite radio services for easy access.

To store a service

While listening to the service you want to store.

1. Press the **STORE** button. The display on your DRX-602ES shows **PRESET__?**
2. Press the number (from 1 to 99) under which you want to store the preset.
3. Press the **SELECT** button to confirm your selection.

To recall a previously stored service

Press the numbered button(s) under which you stored the service.



The **DRC** Dynamic Range Control button enables you to alter the dynamic range of the received audio (dependent on broadcast material) by making the quieter sounds in a broadcast more audible. This may be useful in noisy environments or particularly quiet parts of programmes.

Press the **DRC** button to check whether DRC is available for the current service then press the **DRC** button again to toggle DRC on or off. The default setting is off.

ENG



The **MUTE** button is a quick way of reducing the output volume from your DRX-602ES.

1. Press the **MUTE** button to mute the sound. The display on your DRX-602E shows **MUTE**.
2. Press any key on the remote control or main unit to return to the previous listening volume.



Press the **DISPLAY** button and repeat or hold down to cycle through the four display options. This button performs the same function as the **Display** button on the main unit. See *Using your DRX-602ES: Changing the display* for details.



The **INFO** button enables you to change the information mode on your DRX-602ES. This button performs the same function as the **Info** button on the main unit, see *Using your DRX-602ES: Viewing extra information* for details.

Press the **INFO** button and repeat or hold to view the two information modes.



The **PRI/SEC** button enables you to select between the primary and secondary services where secondary services are available. If a secondary service is available for the current service, the Secondary LED will light up on the front of your DRX-602ES. Press the **PRI/SEC** button and repeat or hold to cycle through the available services. For an explanation of primary and secondary services, see *Guide to Digital Radio*.



The **▼▲** and **SELECT** buttons enable you to cycle through and select services. Together, these buttons perform the same function as the large tuning button on the main unit, see *Using your DRX-602ES: Selecting a service* for details.

1. Press and release or hold the **▼** or **▲** button to cycle through the stored services.
2. The bottom line of the display on your DRX-602ES shows the service names.
3. Press the **SELECT** button to select and listen to the displayed service.

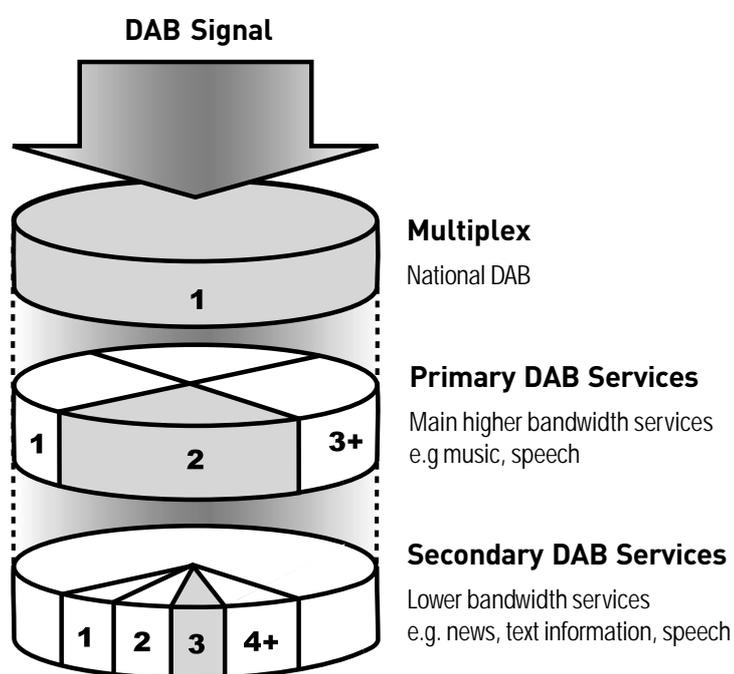
Guide to Digital Radio

This section provides a brief guide to digital radio (DAB), explains how the features of your DRX-602ES provide access to it, and provides some useful addresses for finding out more.

Your DRX-602ES enables you to receive and listen to Digital Audio Broadcast (DAB) digital radio programmes. DAB uses digital transmission rather than traditional analogue transmission, providing near CD-quality audio with virtually interference-free reception. DAB also enables broadcasters to transmit additional data along with the audio including other audio channels, text and in the future, perhaps computer data and images.

DAB digital radio is broadcast as groups of data called multiplexes or ensembles. Each multiplex can contain a number of services (stations) and each service contains a primary service and can also contain secondary services as illustrated in the following diagram. Each multiplex is transmitted at a set frequency and is received by your DRX-602ES for decoding. Your DRX-602ES can receive multiplexes broadcast on all DAB frequencies (Band III and L-Band). The number of multiplexes and radio stations you receive, will vary depending on your location.

With DAB, radio stations have labels (names) which are used to identify them. Instead of needing to know a particular frequency to listen to your favourite broadcast you can simply select the station name. Secondary services and additional data such as text containing programme or multiplex information are also easily accessed using your DRX-602ES.



Useful addresses

The following addresses provide additional useful information about digital radio including coverage, available services and usage tips:

WorldDAB

web: www.worlddab.org

tel: +44 (0)20 7288 4642

fax: +44 (0)20 7288 4643

Troubleshooting

This section gives some of the most likely solutions to problems you might have with your DRX-602ES.

I can't get any sound

- Make sure your DRX-602ES and amplifier are switched on.
- Check that you have connected the DRX-602ES to your amplifier correctly, see *Setting up*, and that your amplifier has the correct source selected.
- Check that the volume on your amplifier is not too low or that you have selected MUTE on the remote control.
- Ensure that you have completed the autotune procedure to find digital radio services.

Remote control not functioning

- Check that you have inserted the batteries correctly.
- Check that you are not too far away from the main unit (not more than 7 metres recommended) and that the remote sensor is not obscured.

Display says 'No Service Check Setup'

Check that your aerial is connected and positioned properly. Use the autotune facility to search for services.

I can't access secondary services

If secondary services are available for the currently selected service the Secondary indicator LED will light up. Use the remote control to select secondary services, see *Using the remote control*.

Display says 'Memory Reset Presets Lost'

This may occur if the unit has been switched off for an extended period of time (longer than a month). Use autotune to refresh your stored services if necessary. You can then re-enter your presets using the remote control.

ENG

Display has gone blank

This may occur if a broadcaster changes a service or removes a service while you are listening to it. Use autotune to restore available services to your unit, see *Using your DRX-602ES: Tuning*.

I've lost my remote control

If you lose your remote control you can still use your DRX-602ES but you will not be able to access your preset stations, switch between primary or secondary services or use DRC or mute facilities. Contact VideoLogic Support to obtain a replacement remote control, see *Getting Help*.

I can't hear my FM/AM radio although it is connected

- Ensure that your DRX-602ES is switched off. This enables your FM/AM radio to pass through the analogue outputs to your amplifier.
- Ensure that you have connected your FM/AM radio to your DRX-602ES and your DRX-602ES to your amplifier correctly, see *Setting up*.
- Ensure that your FM/AM radio and amplifier are switched on and that the FM/AM radio is tuned to a station.

I can't hear the station I have selected on the display

To hear the station you need to confirm your selection by pressing the large tuning button, see *Using your DRX-602ES: Selecting a service*.

I hear a 'burbling' sound on some stations

Although DAB is excellent at providing quality audio from very little signal, the quality can suffer if the signal strength is too low. If that happens, a 'burbling' sound can sometimes be heard. Check your aerial connection and position, see *Setting up: Connecting to your aerial*. If the problem persists, a signal booster may be the solution - these are available from our on-line store at www.videologic.com

Autotune takes a long time or can't find a service I know I should receive

Ensure you have selected the relevant tuning zone for your location, this ensures that the correct frequency band is scanned for services, see *Using your DRX-602ES: Changing your tuning zone*.

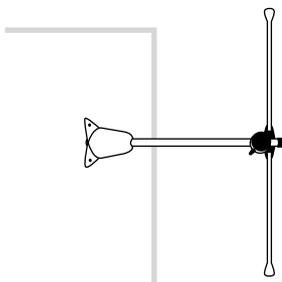
For the latest troubleshooting information and a list of Frequently Asked Questions (FAQs), visit the DRX-602ES support section on our website at www.videologic.com or www.videologic.de.

Aerial advice

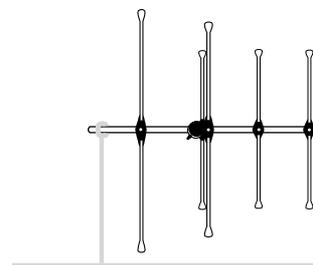
Your DRX-602ES is supplied with a T-shaped ribbon dipole aerial. This is an indoor aerial which is designed to give good reception in areas with good to moderate DAB signal strength. In areas with poor DAB coverage or poor signal strength you may want to consider using a loft mounted or external aerial. To find out about coverage in your area, see *Guide to Digital Radio*.



Ribbon Aerial



Dipole Aerial

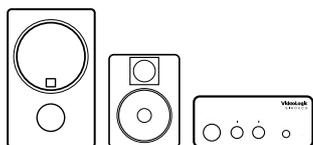


4-element Aerial

The following options may help you improve reception in your area and are available from the on-line store on our website, see *Accessories*.

1. **Ribbon Aerial** Optimise the position of your ribbon aerial by mounting it as high as possible and extending the arms vertically. Use the Signal Strength meter to fine tune the aerial placement, see *Using your DRX-602ES: Viewing extra information*.
2. **TV/FM Aerial** If you have an externally mounted TV or FM aerial it may provide a stronger signal than an indoor aerial but as they are not tuned for the digital radio frequency range and are pointed at your local TV/FM transmitter, reception may be no better. The standard TV or FM RF connector cannot be plugged into your DRX-602ES directly, you will need to use an RF to F-type adapter. You may also find that you need to use a signal booster if you want to use the aerial for both TV or FM and DAB reception.
3. **External or loft mounted DAB Aerial** Two main types are used. These types of aerials may require professional installation:
 - Dipole** - for use in marginal signal areas, this type is omnidirectional and should increase the strength of all DAB stations being received.
 - 4-element aerial** - for use in marginal or poor signal areas, this type is directional and has high gain. Like a TV or FM aerial this type needs to point at the transmitter. Installation requires someone to move the aerial while you monitor signal strength. If you receive signals from multiple transmitters you should point your aerial at the one which gives the best signal for the services to which you want to listen.
4. **Signal booster** This is a signal amplifier which connects into an aerial cable and boosts the strength of the received signal. If your ribbon aerial works fairly well this may be the easiest and best option.

Accessories



Videologic supply a range of accessories and complementary products for your DRX-602ES including external aerials, signal boosters, aerial cable adapters and amplified speaker sets.

Visit our website at www.videologic.com or www.videologic.de or contact us using the details on the back cover of this manual to find out more.

Getting Help

The *Troubleshooting* section of this manual, lists some of the more likely reasons for problems you might have with your DRX-602ES.

If you still have a problem with your DRX-602ES, either visit our website at www.videologic.com or www.videologic.de or contact us using the details on the back cover of this manual for the latest support information.

Technical Specifications

This section lists the technical specifications for the DRX-602ES.

General	Digital radio tuner with full Band III and L-band reception capability, for reception of all UK, Europe and Canada DAB broadcasts. Fully compliant with ETS 300 401 and capable of decoding all DAB transmission modes 1-4. 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 autotune feature
Tuner Sensitivity	-98 dBm
Integrated DAC	24-bit 96 kHz stereo DAC
Input connectors (rear panel)	RF F-connector 75 W 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 (rear panel)	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 Toslink connector for digital RDI data output
Controls	Power on/off Rotary selection switch - selects service Autotune - tunes in unit to broadcast services and enables language and tuning zone selection Brightness - selects between 4 levels of LCD display brightness Display - selects between DLS (Dynamic Label Segment) scrolling text, programme type, and service information Info - switches LCD between display of signal strength indicator and mono/stereo mode plus service's data rate
LCD Display	High visibility STN LCD display with 16 x 2 characters, 4 user-selectable brightness levels and 11 language options
Indicators (front panel)	LED power-on indicator Remote control activity indicator Stereo service indicator Secondary service availability indicator
Frequency response	20 Hz to 20 kHz for 48 kHz decode at full data rate 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
Display Languages	English, German, Swedish, French, Italian, Spanish, Norwegian, Finnish, Danish, Dutch, Portuguese.
Remote control	Infrared remote control functions: service select, preset service store/recall, 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 50Hz (Europe) or 115V AC 60Hz (Canada)
Approvals	CE marked. Compliant with the EMC and Low Voltage Directives (89/336/EEC and 73/23/EEC)
Dimensions	430mm (width) x 59mm (height) x 270mm (depth)

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Please return your registration card to your nearest VideoLogic centre.

Schicken Sie Ihre Registrierkarte zum nächsten VideoLogic Center.

Veillez envoyer la carte d'enregistrement au centre VideoLogic le plus proche.

Canada

VideoLogic Service Center

6980 Corte Santa Fe,

San Diego, CA 92121, USA

sales_usa@videologic.com

support_usa@videologic.com

+44 (0)1923 270188 fax

+44 (0)1923 277488 sales

+44 (0)1923 277477 support & service

Deutschsprachige Länder

VideoLogic GmbH

Max-Planck-Str. 25,

D - 63303 Dreieich, Germany

sales_gmbh@videologic.com

support_gmbh@videologic.com

+49 (0)6103 311022 Fax

+49 (0)6103 934722 Vertrieb

+49 (0)6103 934714 Support

UK and all other countries

VideoLogic Systems

Imagination Technologies Ltd.,

Home Park Estate,

Kings Langley, Herts WD4 8LZ, UK

sales@videologic.com

support@videologic.com

+44 (0)1923 270188 fax

+44 (0)1923 277488 sales

+44 (0)1923 277477 support & service

www.videologic.com

www.videologic.de