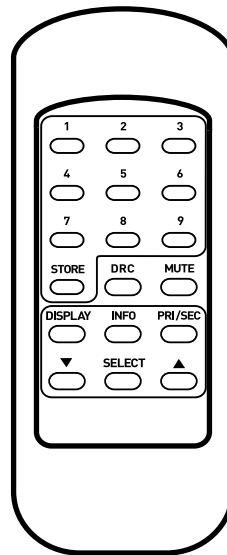
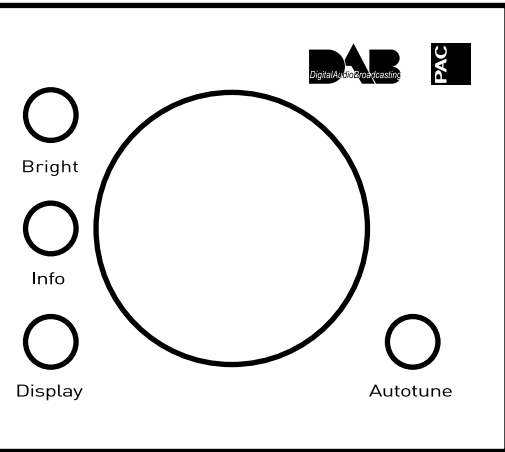


DRX-601ESM

Owner's manual



PURE
by 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 230V AC 50 Hz mains 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

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Credits

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 November 2001

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Introduction

Thank you for choosing the DRX-601ESM 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-601ESM 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 mini or midi hi-fi system the DRX-601ESM has an anodised aluminium fascia, silver finish casework and controls, blue LED indicators, an easy to read blue/white display, a discrete remote control and PAC™ technology for a more natural sound.

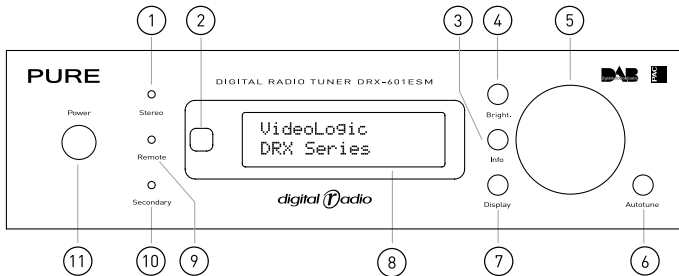
Attach the DRX-601ESM to quality mini and midi components, powered speakers or your hi-fi. DAB provides high-detail, digital-quality sound; supports over 60 national, local and digital-only channels and enables broadcasters to provide additional text information for news headlines and programme details.

If you are new to digital radio see our quick guide on page 13.

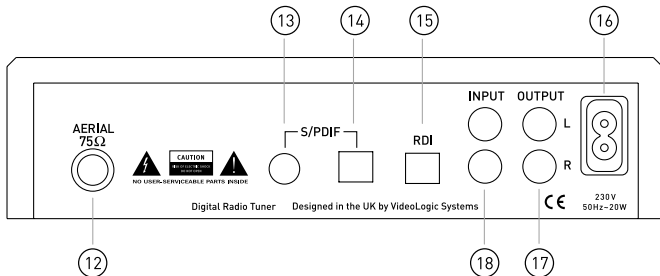
Controls and Connectors

This section provides information on the controls and connectors available on the front and back panels of your DRX-601ESM. For information on the remote control, see page 11.

Front Panel



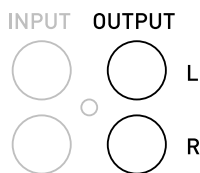
Rear Panel



- ① **Stereo** LED indicates when stereo service is being received, see page 9
- ② **Remote sensor** picks up the infrared signal from the remote
- ③ **Info** button changes the information mode of the display, see page 9
- ④ **Bright** button changes the display brightness
- ⑤ **Tuning** knob selects the digital radio service, see page 9
- ⑥ **Autotune** button provides one touch tuning, see page 8
- ⑦ **Display** button changes the main display mode, see page 10
- ⑧ **Backlit LCD display**
- ⑨ **Remote** LED indicates remote control activity
- ⑩ **Secondary** LED indicates whether secondary services are available, see page 11
- ⑪ **Power** on/off button
- ⑫ **AERIAL** connector
- ⑬ **S/PDIF** co-axial digital output, see page 6
- ⑭ **S/PDIF** optical digital output, see page 6
- ⑮ **RDI** (Receiver Data Interface) socket, see page 7
- ⑯ **Power socket** for connection to power lead
- ⑰ **OUTPUT** to amplifier line-level stereo (analogue)
- ⑱ **INPUT** loop through input for AM/FM tuner

Setting up

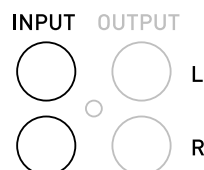
This section provides information on connecting your DRX-601ESM to your hi-fi and connecting your aerial. Connector sockets are provided on the back panel of your DRX-601ESM. Before connecting other devices to your DRX-601ESM, switch both devices off.



Connecting to your amplifier

To get sound from your DRX-601ESM 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.

1. Locate the OUTPUT sockets on the back of your DRX-601ESM and the Tuner-in sockets on the back of your amplifier.
2. Connect the white or black plugs to the white sockets (L) and red plugs to the red (R) sockets 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-601ESM to reduce connections to your amplifier. The auxiliary source will then be passed through the analogue outputs to your amplifier when your DRX-601ESM is switched off.

1. Locate the INPUT sockets on the back of your DRX-601ESM and the OUT sockets on the back of your auxiliary device.
2. Connect the white or black plugs to the white sockets (L) and red plugs to the red (R) sockets using a stereo phono cable.



Connecting to digital devices

Your DRX-601ESM can provide digital audio output for connection to digital devices such as MiniDisc, CD-R or DAT recorders or the digital input on your amplifier.

1. Locate the S/PDIF sockets on the back of your DRX-601ESM and the digital-in socket on your digital device.
2. Connect the devices via either the coaxial or the optical socket using a suitable cable. Suitable connecting cables are available from VideoLogic, see the Accessories section on page 19 for details.

AERIAL
75Ω

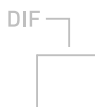


Connecting to your aerial

You need to connect either the supplied indoor aerial or an external DAB aerial to your DRX-601ESM to receive digital radio transmissions. Refer to page 15 for information on the different types of aerials available. For information on how to find out about DAB coverage in your area, see page 14.

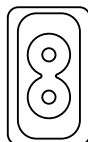


1. Screw the aerial plug onto the F-type AERIAL connector on the rear of your DRX-601ESM.
2. For the best reception, if using the indoor aerial supplied, attach the aerial horizontally to a wall using some adhesive tape and extend the arms on the end of the aerial wire vertically into a 'T' shape on its side, as illustrated above.



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.



Connecting to power supply

Once all audio connections are complete as described above, connect one end of the supplied power lead to your DRX-601ESM and the other end to a wall outlet.

Using your DRX-601ESM

This section provides information on using the main functions of your DRX-601ESM including tuning, selecting a service and altering the displayed information.



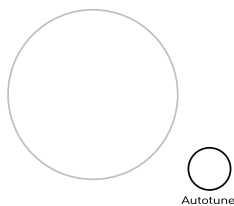
Switching on and off

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

Push and release the **Power** button to switch the unit on or off. The LCD display will light up when the unit is switched on.

Note If you leave the unit switched off for an extended period (around two weeks or longer) you may need to re-tune the unit to restore the available services.

You should now perform the tuning operation described below.



Tuning

Tuning the DRX-601ESM is very simple. In most cases you only need to perform this operation once, when you first set up the unit. The tuning facility has two modes:

Rapid - scans frequencies in the UK channel allocation. This should take less than a minute.

Full - scans the full range of digital frequencies in Band III. This may take several minutes.

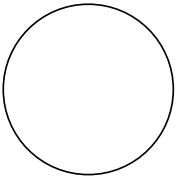
1. Ensure your DRX-601ESM is switched on and your aerial is connected and positioned correctly.
2. Push and release the **Autotune** button once for rapid mode and twice for full mode. **Note** You can cancel Autotune by pushing the **Autotune** button again during the tuning process.

The display will indicate tuning is underway. When finished, the name of the first service found will be shown on the top line of the display and you will hear it through your speakers. All the services found are now stored in the unit and you can select a service as described below.

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

Note If reception is poor, check the signal strength and try repositioning your aerial using the signal strength indicator as described on page 9.

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



Selecting a service

Once you have tuned your DRX-601ESM you can select the digital radio service you want to listen to. You use the large turn-and-push knob to select a service.

1. Rotate the large tuning knob to see the names of other stored services on the bottom line of the display. Stop when you find the service you want to listen to.
2. Push and release the large tuning knob to listen to the service you have selected.

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.

See page 13 for information on primary and secondary services and see page 12 for details on selecting primary or secondary services.



Bright.

Changing the display brightness

The DRX-601ESM display has four levels of brightness which you can alter to suit your room's light levels.

Press the **Bright** button and repeat or hold down to cycle through the four levels of brightness available.

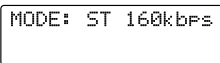


Info

Viewing extra information

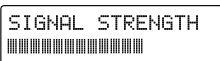
The DRX-601ESM has two information modes which enable you to view extra information about the current multiplex.

Press the **Info** button and repeat or hold down to cycle through the two different information modes. Press the **Display** button to return to normal display mode.



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. This rate is set by the broadcaster to suit the type and quality of material being transmitted.



Signal strength

Displays the strength of the signal for the current multiplex. Maximum strength is indicated by 16 bars across the display. **Note** If sound quality is poor, try repositioning your aerial whilst observing the signal strength indicator, you may be able to increase reception quality.



Display

Changing the display mode

The DRX-601ESM display feature has four modes which enable you to view different parts of the broadcast data on the bottom line of the display.

Press the **Display** button and repeat or hold down to cycle through the four different display modes.

Classic FM
Relax It's Classic

Scrolling text

Displays scrolling text messages which accompany the audio, where available.

Classic FM
Serious Classics

Program type

A label describing the type of content being broadcast by the service.

Classic FM
Digital11 Network

Multiplex name

Displays the name of the Multiplex in which the current service is found. See page 13 for information on Multiplexes.

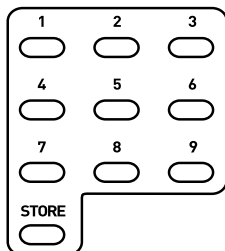
Classic FM
11D 222.06 MHz

Technical information

Displays the channel label and centre frequency for the current multiplex. See page 13 for information on channels and digital radio frequencies.

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-601ESM 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.



Preset buttons

The numbered buttons (1-9) and the **STORE** button enable you to store your favourite radio services for one-touch access.

To store a service

While listening to the service you want to store.

1. Press the **STORE** button. The display shows **1-9?**
2. Press a numbered button to store the service under that number.

To recall a previously stored channel

Press the numbered button under which you stored the service.



DRC button

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, the display indicates whether DRC is available for the current service, if DRC is available, press the **DRC** button again to toggle DRC on or off for that service. The default setting is off.

Press the **DISPLAY** button to return to normal display mode.

If you want to apply DRC to another service, select the service and repeat.



MUTE button

The **MUTE** button is a quick way of reducing the output volume.

1. Press the **MUTE** button to mute the sound. The display shows **MUTE**.
2. Press any button on the remote control or main unit to return to the previous volume.



DISPLAY button

The **DISPLAY** button enables you to change the display mode. This button performs the same function as the **Display** button the main unit. See page 10 for details.

Press the **DISPLAY** button and repeat or hold down to cycle through the four display options.



INFO button

The **INFO** button enables you to change the information mode. This button performs the same function as the **Info** button on the main unit. See page 9 for details.

Press the **INFO** button and repeat or hold down to cycle through the two information modes. Press the **DISPLAY** button to return to normal display mode.



PRI/SEC button

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-601ESM. See page 13 for an explanation of primary and secondary services. Press the **PRI/SEC** button and repeat or hold down to cycle through the available services.



Service select buttons

The ▼▲ and **SELECT** buttons enable you to cycle through and select services. Together, these buttons perform the same function as the large tuning knob on the main unit.

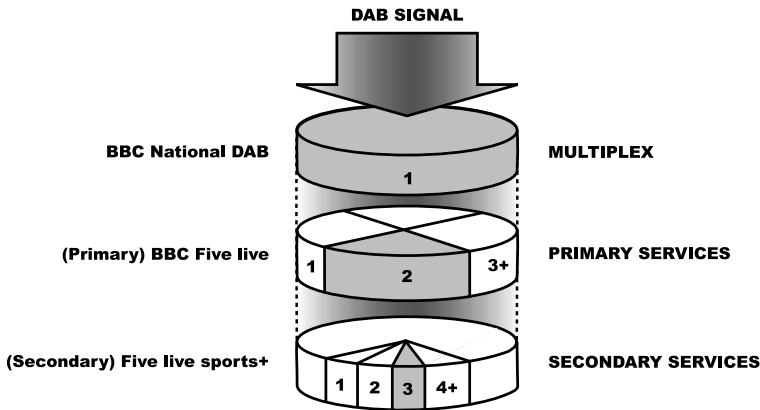
1. Press and release or hold down the ▼ or ▲ button to cycle through the stored services.
2. The bottom line of the display shows the service names.
3. Press the **SELECT** button to listen to the displayed service.

Guide to Digital Radio

This section provides a brief guide to digital radio (DAB), explains how the features of your DRX-601ESM provide access to it and provides some useful addresses for finding out more.

Your DRX-601ESM enables you to receive and listen to the new DAB radio programmes. Digital Audio Broadcast (DAB) is a new form of radio broadcasting using digital signals rather than traditional analogue signals. DAB provides 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.

Digital radio is broadcast as groups of data called ensembles or multiplexes. Each multiplex can contain a number of services (stations) and each service contains a primary service and can contain secondary services as illustrated in the following diagram.



Each multiplex is transmitted in a set frequency range and received by your DRX-601ESM for decoding. Your DRX-601ESM enables you to receive multiplexes broadcast in frequency band III (174-240 MHz) and store the services in each multiplex for you to access. The number of multiplexes you receive will vary depending on your location. Band III is divided into 41 channels labelled 5A to 13F. Each channel can contain one multiplex. Channels allocated to the UK are in the range 11B to 12D.

Multiplexes and services 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 service name. Secondary services and additional data such as text containing programme or multiplex information are also easily accessed using your DRX-601ESM.

Useful addresses

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

BBC Digital Radio
Room 5661
Broadcasting House
Portland Place
London, W1A 1AA

tel: 08700 100 123
e-mail: digitalradio@bbc.co.uk
website: www.bbc.co.uk/digitalradio

Digital Radio Development Bureau
The Radiocentre
77 Shaftesbury Avenue
LONDON, W1D 5DU

tel: 020 7306 2630
e-mail: info@drdb.org
web: www.drdb.org

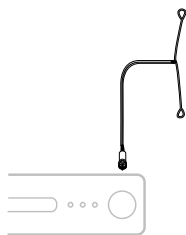
Digital One
20 Southampton Street
LONDON, WC2E 7QH

tel: 020 7288 4600
e-mail: info@digitalone.co.uk
web: www.ukdigitalradio.com

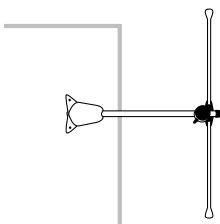
Aerial advice

Your DRX-601ESM 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 page 14.

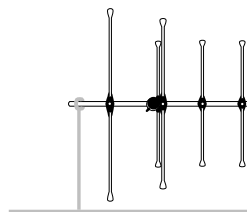
The following options may help you improve reception in your area and are available from the on-line store on our website, see page 19.



Ribbon Aerial



Dipole Aerial



4-element Aerial

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 page 9.
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-601ESM 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 aerial provides marginal reception, even after adjusting its position, a booster may improve your reception.

Troubleshooting

This section gives solutions to some of the most likely problems you might have with your DRX-601ESM.

I can't get any sound

Make sure your DRX-601ESM and your amplifier are switched on as explained on page 8.

Check that you have connected the DRX-601ESM to your amplifier correctly, as explained on page 6 and that your amplifier has the correct source selected.

Check that the volume on your amplifier is not too low and that you have not selected MUTE on the remote control, see page 14 for details.

Ensure that you have completed the Autotune procedure to find digital radio services as explained on page 8.

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).

Check that the remote sensor on the main unit is not obscured.

Check if the Remote indicator LED lights up indicating that the remote signal is being received.

Display says 'No Service Check Setup'

Check that your aerial is connected and positioned properly. Use the Autotune facility to search for services. Try using the Full search as explained on page 8.

I can't access secondary services

At the time of publishing not many secondary services are available. If secondary services are available for the currently selected service the Secondary indicator LED will light up. You use the remote control to select secondary services, see page 12 for details.

Display says 'Memory Reset Presets Lost'

This may occur if the unit has been switched off for an extended period of time (longer than two weeks). Use the Autotune feature as described on page 8 to refresh your stored services if necessary. You can then re-enter your presets using the remote control, as described on page 14.

Display has gone blank

This may occur if a broadcaster changes the label of a service or removes a label whilst you are listening to it. As the display is constantly updated it therefore may go blank. Follow the Autotune procedure, on page 8, to restore all available services to your unit.

I've lost my remote control

If you lose your remote control you can still use your DRX-601ESM 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 page 19 for details.

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

Ensure that you have connected your FM/AM radio to your DRX-601ESM and your DRX-601ESM to your amplifier correctly, as described on page 6.

Ensure that your FM/AM radio and amplifier are switched on and that the FM/AM radio is tuned to a station.

Ensure that your DRX-601ESM is switched off. The DRX-601ESM allows your FM/AM radio to pass through the analogue outputs to your amplifier only when it is switched off.

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 knob, as described on page 9, or the SELECT button on your remote control.

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.

To help reduce this, check your aerial connection and position, as described on page 7.

If the problem persists, then a signal booster may be the solution - these are available from our on-line store at www.videologic.com

For the latest troubleshooting information and a list of Frequently Asked Questions (FAQs), visit the DRX-601ESM support section on our website at www.videologic.com/pure.

Technical Specifications

This section lists the technical specifications for the DRX-601ESM.

General	Digital radio tuner with full Band III reception capability, for reception of all UK 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), with fast Autotune feature
Tuner Sensitivity	-98 dBm
Integrated DAC	24-bit 96 kHz stereo DAC
Input connectors (rear panel)	RF F-connector 75 Ω 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 (front panel)	Power on/off Rotary selection switch - selects service Autotune - tunes in unit to broadcast services Bright. - selects between 4 levels of LCD display brightness Display - selects between 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 and 4 brightness levels
Indicators (front panel)	Remote control activity indicator Stereo service indicator Secondary service availability indicator
Frequency response	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: service select, preset service store/recall, DRC (dynamic range control), mute and primary or secondary information display
Power supply	High-performance low noise toroidal transformer power supply. 230V AC 50Hz
Approvals	CE marked. Compliant with the EMC and Low Voltage Directives (89/336/EEC and 73/23/EEC)
Dimensions	223mm (width) x 65mm (height) x 270mm (depth)

Getting Help

The Troubleshooting section of this manual, on page 16, lists some of the more likely reasons for problems you might have with your DRX-601ESM.

If you still have a problem with your DRX-601ESM, either visit our website at www.videologic.com/pure or contact us using the details below for the latest support information.

VideoLogic Systems,

Imagination Technologies Ltd,

Home Park Estate,

Kings Langley,

Herts., WD4 8LZ, UK

01923 277477

01923 270188

support@videologic.com

telephone

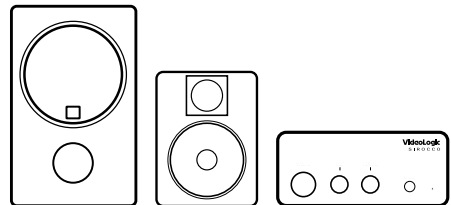
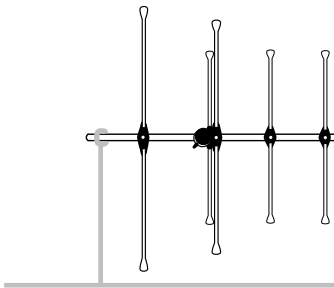
fax

e-mail

Accessories

VideoLogic supply a range of accessories and complementary products for your DRX-601ESM including external aerials, signal boosters, aerial cable adapters and amplified speaker sets.

Visit our website at www.videologic.com or call us on 01923 277488 to find out more.



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VideoLogic Systems

Imagination Technologies Ltd.,
Home Park Estate,

Kings Langley, Herts., WD4 8LZ, UK

sales@videologic.com

support@videologic.com

01923 270188

01923 277488

01923 277477

fax

sales

support & service

www.videologic.com/pure

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