Safety Instructions

- Keep the radio away from heat sources.
- Do not use the radio near water.
- Avoid objects or liquids getting into the radio.
- Do not remove screws from or open the radio casing.
- Unplug the power adapter from the wall if the radio will not be used for a long period.

Do not remove screws from or open the radio casing.
Do not use the radio near water.
Keep the radio away from heat sources.
Thank you for choosing the PURE EVOKE-1 digital radio.

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

If you are new to digital radio see our quick guide on page 14.

Secondary speaker unit for full stereo reproduction is also provided.

The EVOKE-1 is a mains-powered stand-alone portable radio for your bedroom, kitchen, study or just about anywhere. It contains a high-performance full range speaker housed in a wood cabinet with bass port for superb audio quality.

Using real wood veneer and quality construction, the EVOKE-1 is beautifully finished and sounds as good as it looks. A line level output enables you to connect to an external amplifier or record programmes, a headphone socket and an auxiliary speaker output enabling connection of a secondary speaker unit for full stereo reproduction.

If you are new to digital radio see our quick guide on page 14.

Thank you for choosing the PURE EVOKE-1 digital radio.
This section lists the contents of your EVOKE-1 package. Contact us if any items are missing or damaged.
This section provides information on the controls and connectors available on the front and rear panels of your EVOKE-1.

**Front Panel**

- **Backlit LCD display**
- **Vol knob** adjusts the volume
- **Preset buttons** (1-6) for up to six stations, see page 10
- **Autotune** button provides one touch tuning, see page 8
- **Power on/off button**
- **Display button** changes the text shown on the bottom line of the display, see pages 9 and 10
- **Setup button** enables access to advanced setup options, see pages 11 and 12
- **Tune knob** turn to scroll through and push to select radio stations and menu options, see pages 9 and 11

**Backlit LCD display**

- **Vol knob** adjusts the volume
- **Power on/off button**
- **Autotune button** provides one touch tuning, see page 8
- **Preset buttons** (1-6) for up to six stations, see page 10
- **Display button** changes the text shown on the bottom line of the display, see pages 9 and 10
- **Setup button** enables access to advanced setup options, see pages 11 and 12
**Quick Start**

1. Fully extend the telescopic aerial.
2. Connect the mains adapter and plug into your power supply.
3. Press the power button to switch the unit on. The LCD will light up and the display will show 'PURE EVOKE-1' and a progress bar on the bottom line indicates the progress of autotuning to find the stations available in your area. If no stations are found you will be presented with a series of options which you can use to retry the tuning process or adjust your aerial position. See 'Tuning for the first time' on page 7. The stations found will be stored in alphanumeric order and the first station on the list will be selected.
4. Adjust the Vol control if necessary to hear it.
5. Turn the Tune knob to see all the stations available and push to select one and listen to another station.

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**Rear Panel**

- **Aerial socket** for connection to the supplied telescopic or other aerial
- **Headphone socket (3.5mm)** for connection to headphones
- **Aux Speaker socket (3.5mm)** for connection to your optional SFG Aux Speaker
- **Aux Speaker socket** for connection to the optional STG Aux Speaker
- **Stereo Line Out socket (3.5mm)** for connection to an external amplifier or recorder
- **12V DC** for connection to mains adapter
- **Stereo Line Out**
- **10**
- **11**
- **12**
- **13**
This section provides information on connecting your aerial, power adapter and other devices.

### Connector sockets

Connector sockets are provided on the rear panel of your EVOKE-1. Before connecting other devices to your EVOKE-1, switch both devices off. For a quick setup you can connect just your power supply and aerial – the other connections listed are optional and will not prevent normal operation of the unit.

#### Connecting to an external amplifier

You can connect your EVOKE-1 to an external amplifier. This may be a stand alone unit or it may be built into a Hi-Fi system or powered speakers.

1. Connect the Stereo Line Out socket to the Tuner-in socket on the back of your amplifier using a 3.5mm to stereo phone cable.

#### Connecting to an aerial

The supplied telescopic aerial enables your EVOKE-1 to receive DAB radio transmissions. If you find that the aerial does not provide good reception you can remove the aerial from the aerial socket and experiment with different aerial positions to find the best reception for particular services.

1. Unscrew the large nut on the end of the telescopic aerial. You may find that you want to move the radio around your living space to find the best location for reception – near a window may provide better reception.
2. Take care not to unscrew the thin nut behind that holds the aerial connector in place.
3. Screw the aerial plug of your replacement aerial onto the Aerial connector on the rear of your digital radio.
4. If your aerial is not supplied with your EVOKE-1, see the list of useful addresses on page 15. To find out about DAB coverage in your area, see the list of useful addresses on page 17.

The supplied telescopic aerial enables your EVOKE-1 to receive digital radio transmissions. If you find that the aerial does not provide good reception you can remove the aerial and connect an alternative DAB aerial. For information on aerial types and positioning see Aerial advice on page 17.

#### Aerial advice

Just like with FM reception, you may find that you want to move the radio around your living space to find the best location for reception – near a window may provide better reception.
Connecting to Power Supply

Once you have made all other connections, connect the supplied power lead to the socket on the rear of your EVOKE-1 and plug the power adapter into a wall outlet.

Connecting an Auxiliary Speaker

You can connect a second unpowered speaker to your EVOKE-1 using the Aux Speaker socket. This enables full stereo reproduction. Call us on 01923 277488 to find out more or visit our website at www.pure-digital.com to purchase a matching ST-1 auxiliary speaker.

Connecting to Headphones

You can connect a set of stereo headphones to your EVOKE-1 using the headphones socket.

Connecting to an External Recorder

You can connect your EVOKE-1 to an external recording device. This may be a stand alone unit such as a tape recorder or a MiniDisc recorder or it may be built into a Hi-Fi system.
Switching on and off

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

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

Tuning

This section provides information on using your EVOKE-1, including tuning, selecting a station and altering the displayed information.

Tuning your EVOKE-1

This section provides information on using your EVOKE-1, including tuning, selecting a station and altering the displayed information.

Tuning for the first time

When you switch on your EVOKE-1 for the first time an autotune process will be performed automatically. A progress indicator on the display shows that autotune is underway.

If stations are found during the autotune

The stations will be stored in alphanumeric order. The first station on the list will be selected and you will hear it through the speaker. To listen to other stations, see Selecting a station on page 9.

If no stations are found during the autotune

"No stations available" will be shown on the display for a few seconds and then you see a menu of options.

Tune

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

Using your EVOKE-1

This section provides information on using your EVOKE-1, including tuning, selecting a station and altering the displayed information.
Once you have tuned your EVOKE-1, you can adjust the volume using the VOL knob.

Adjusting the Volume

1. Ensure your EVOKE-1 is switched on and the aerial is connected and fully extended.

2. Push and release the Autotune button once for local scan or hold down for around two seconds for a full scan.

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 EVOKE-1 will return to the station you were listening to and you will hear it through the speaker. All the stations found are now stored in the unit and you can select another station as described in Selecting a station on page 7.

If no stations are found, you see the message 'No stations available' and the display shows an option menu. See If no stations are found during the autotune on page 7 for details of this menu. Check your aerial is fully extended and select a different station.

Returning your unit

You can re-tune your unit at any time using the autotune process. You may wish to do this if a new multiplex is launched or you move your unit to another room. You do not need to perform an autotune to pick up new stations. When you tune to a station in the multiplex, the following two options are available:

- Autotune local - scans all frequencies in the UK channel allocation. This should only take a few seconds.
- Autotune full - scans the full range of digital frequencies in Band III. This may take a minute or more.
Changing the display mode

EVOKE-1 has six display modes which enable you to view parts of the broadcast data on the bottom line of the display.

Press the Display button and repeat to cycle through the six different display modes.

1. **Scrolling text**  
   The default mode, displays scrolling text messages which accompany the audio, where available.

2. **Program Type**  
   A description of the type of content being broadcast by the station.

3. **Artwork**  
   A description of the type of content being broadcast by the station.

4. **Station list**  
   A list of the available services along with the primary and secondary services.

5. **Station list and settings**  
   The station list and settings will appear next to the primary service as you turn the Tune knob.

6. **Station list and settings**  
   The station list and settings will appear next to the primary service as you turn the Tune knob.

Selecting a station

Once you have found your EVOKE-1, you select the digital radio station you want to listen to using the Tune knob. If you have assigned stations to presets you can also select them directly by pressing the relevant numbered button (1-6).

See storing and recalling presets on page 10.

If you have tuned your EVOKE-1 you select the digital radio station you want to listen to using the Tune knob.

For details, see page 12.
Storing and recalling presets

The numbered buttons (1-6) enable you to store radio stations for one-touch access.

To store a station

Press and hold down a numbered button for around two seconds to store the station under that number. The display shows e.g. 'Preset 1 saved' when the station has been successfully saved. Once you save a station to a preset, the display shows the preset number next to it on the station list.

You can store a station to a preset while listening to it or when you see the station name on the bottom line of the display while scrolling through the station list.

To recall a previously stored station

Press and release the numbered button under which you stored the station. If the selected preset is empty, the display shows 'Preset empty' for a few seconds and you continue listening to the currently selected station.

Press and release the numbered button under which you stored the station. If the selected preset is empty, the display shows 'Preset empty' for a few seconds and you continue listening to the currently selected station.
EVOKE-1 has a number of advanced features which enable you to change the order and number of stations on the station list. Press the Setup button to enter the advanced setup menu. Turn the Tune knob to scroll through the following menu options:

**Advanced setup options**

- **Station Order**
  - **Alphanumeric** The default setting. Displays all stations in alphanumeric order.
  - **Fav station** Displays the six most listened to stations at the top of the station list in alphanumeric order and inactive ones at the bottom in alphanumeric order.
  - **Active station** Displays active stations at the top of the station list in alphanumeric order and inactive ones at the bottom in alphanumeric order.
  - **Trim station list** Removes inactive stations from the station list. See Selecting a station on page 9 for information on active stations.
  - **Presets** Available only when Fav station order (above) has been selected. Transfers your six favorite stations to the preset buttons. See page 10 for information on using presets.

- **EVOKE-1 has a number of advanced features which enable you to change the order and number of stations on the station list.**
This option enables you to view the version number of the software installed in your EVOKE-1. You may be asked to provide this if you contact Technical Support. This option can only be viewed, no adjustment is available.

**SW Version**

DRC 1 Applies the DRC scaling as sent with the transmitted service.
DRC ½ DRC scaling is set to ½ that sent with the transmitted service.
DRC 0 DRC scaling is switched off. This is the default setting.

Turn the Tune knob to scroll through the following options and push the Tune knob to select one.

When you select this option you see the current DRC value on the top line of the display and a scroll list on the bottom.

Apply a scaling factor to this level. The level of a broadcast is set by a broadcaster and transmitted with the service. Changing this DRC value enables you to level off a broadcast or enhance the quieter sounds in a broadcast more audible at low volumes or in a noisy environment. The DRC (Dynamic Range Control) 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 to low volume or in a noisy environment.

**DRC Value**

You can also display the signal level for any station you are listening to by pushing the Tune knob.

1. Push the Setup button to exit the tuning aid or turn the Tune knob to select another channel.

2. Move your aerial or radio while watching the display and try to raise the current level to the empty block or beyond. The display will change to show multiplex name on the bottom line of the display if a good signal is received and the multiplexer will be added to the service list.

3. When you select this option, the bottom line of the display shows the channel identifier and frequency. See page 15 for useful addresses which you can contact to find the channel identifier for a multiplex you want to receive.

This option provides a signal level display which you can use to find the best position for your radio and aerial.

**Tuning aid**

When you select this option, the bottom line of the display shows the channel identifier and frequency. See page 15 for useful addresses which you can contact to find the channel identifier for a multiplex you want to receive.
Resetting your EVOKE-1

A reset option is provided to enable you to reset your unit. This removes all presets, stored stations and favorite station settings and resets all options to defaults. Performing an autotune process will solve most problems but you may want to use this option if you move house or want to restore default values to options you have changed.

To select the reset option:

1. Press and hold the Setup button for more than two seconds. The display will show 'Press Tune to confirm reset.'

2. Press the Tune knob to confirm the reset or press no buttons for around seven seconds to cancel the reset.
Your EVOKE-1 enables you to receive and listen to DAB radio programmes. Digital Audio Broadcast (DAB) uses digital signals rather than traditional analogue signals, enabling near CD-quality audio with virtually interference-free reception. DAB also enables broadcasters to transmit additional data such as text containing programme or multiplex details, enabling users to access information about the broadcast they are listening to.

DAB is broadcast as groups of data called ensembles or multiplexes. Each multiplex can contain a number of stations (services) and each station can contain a number of services (programmes). Each multiplex is transmitted in a set frequency range and you can switch between them using your EVOKE-1.

In the UK, multiplexes are allocated to the frequencies 11B to 12D and the channels are divided into 41 channels, identified as 5A to 13F. Each channel can contain a primary service and can contain secondary services as illustrated in the diagram. Each multiplex consists of a number of stations (services) and each service can contain a number of programmes (services) and additional data such as text containing programme or multiplex details.
Useful addresses

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

Digital Radio Development Bureau
- Telephone: 08707 747474
- E-mail: info@drdb.org
- Address: 20 Southampton Street, London, W1D 5DU
- Website: www.digitalradionow.com

BBC Digital Radio
- Telephone: 08700 100 123
- E-mail: digitalradio@bbc.co.uk
- Address: Broadcasting House, Room 561, Portland Place, London, W1A 1AA
- Website: www.bbc.co.uk/digitalradio

Digital One
- Telephone: 020 7288 4600
- E-mail: info@digitalone.co.uk
- Address: 20 Southampton Street, London, WC2E 7QH
- Website: www.ukdigitalradio.com
This section gives some of the most likely solutions to problems you might have with your EVOKE-1.

I can't get any sound
Make sure your EVOKE-1 is plugged in and switched on. If the problem persists try moving your EVOKE-1 or repositioning your aerial. A distant sound can sometimes be heard.

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 station the secondary ‘>>’ indicator will be shown on the display next to the station name. See page 9.

I can't hear the station I have selected on the display
Scroll the station list displayed on the bottom line of the display. To change station you need to scroll the station list displayed on the bottom line of the display and confirm your selection by pressing the Tune knob as described on page 9.

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 this happens, a ‘burbling’ sound can sometimes be heard.

I have no stations displayed on the display
Check that you aerial is fully extended and upright. Ensure that you have completed the Autotune procedure to find digital radio stations as explained in pages 7 and 8. If using the tuning aid to adjust your aerial or radio position, see page 12. Make sure your EVOKE-1 is plugged in and switched on as explained on page 7.

Troubleshooting
Your EVOKE-1 is supplied with a telescopic DAB 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 contact one of the organisations listed on page 15.

Aerial advice

1. **Telescopic Aerial**
   - Optimise the position of your telescopic aerial by extending it as far as possible and pointing it vertically. Use the tuning aid to fine tune the aerial placement, see page 12.

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 they are not suitable for DAB reception. If your aerial provides marginal reception, even after adjusting its position, a booster may improve your reception.

3. **External or loft mounted DAB Aerial**
   - For use in marginal or poor signal areas, this type is omnidirectional and should increase the strength of all DAB signals. Installation may require professional assistance. Two main types are used. These types of aerials may require professional fitting:
     - **Dipole** – for use in marginal signal areas. This type is omnidirectional and should increase the strength of all DAB signals. Installation may require professional assistance.
     - **4-element Aerial** – for use in marginal signal areas. This type is directional and has high gain. It is tuned for DAB reception.

4. **Signal Booster**
   - This is a signal amplifier which increases the strength of the received DAB signal from your aerial.

5. **TV Antenna**
   - If you have an externally mounted TV or FM aerial it may provide a stronger signal than an indoor aerial but they are not tuned for the digital radio frequency range and are not suitable for DAB reception. The standard TV or FM RF connector cannot be plugged into your EVOKE-1 directly. You will need to use an RF to F-type adapter. You may also find that your FM antenna cannot be plugged into your EVOKE-1 directly. You will need to use an RF to F-type adapter. You may also find that your FM/FM aerial may require professional installation.

6. **Signal Booster**
   - This is a signal amplifier which connects into an aerial cable and boosts the strength of the received DAB signal from your aerial.

The following options may help you improve reception in your area. A range of DAB aerials are available from our website, see page 18.
Accessories

PURE Digital supply a range of accessories and complementary products for your EVOKE-1 including a matching ST-1 auxiliary speaker for stereo output, external aerials, signal boosters, audio cables and adapters.

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

Warranty Information

Imagination Technologies Ltd. warrants to the end user that this product will be free from defects in materials and workmanship in the course of normal use for a period of two years from the date of purchase. This guarantee covers breakdowns due to manufacturing or design faults.

If you still have a problem with your unit after visiting our website at www.pure-digital.com or contacting the details below, refer to the detail of this manual on page 16. If some of the more likely reasons for problems you might have with your EVOKE-1.

Getting help
This section lists the technical specifications for the EVOKE-1.

**General**
- Stereo digital radio (stereo output possible with auxiliary speaker) 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 reception of all UK DAB broadcasts. Fully compliant with ETS 300 401 and capable of decoding all DAB.
- Analogue stereo output (stereo output possible with auxiliary speaker) with full Band III reception capability for stereo digital radio (stereo output possible with auxiliary speaker) with full Band III reception capability for.
- Power on/off, Tune, Autotune, Display, Setup, Volume, Six presets.

**Speaker**
- Single 3 inch co-axial speaker.

**General**
- Dimensions: 210mm (width) x 175mm (height) x 110mm (depth).
- Power Supply: 230VAC to 12V DC external power adapter.
- Amplifier Power: 3.4W MP @ 0.1% THD, 2.8W MP @ 0.1% THD.
- Amplifier Frequency Range: 80 Hz to 20 kHz.
- Amplifier Key Features:
  - High visibility backlit LCD display with 16 x 2 characters.
  - Power on/off, Tune, Autotune, Display Setup, Volume, Six presets.
  - 3.5mm for stereo analogue audio output, headphones and stereo for auxiliary speaker.
  - RF-COMM 75U for DAB aerial connection (telescopic aerial supplied), 12V DC power adapter socket (230V).
  - Input connectors: RF-F connector, 75 Ω for DAB aerial connection (telescopic aerial supplied).
  - Output connectors: 3.5mm for stereo analogue audio output, headphones and stereo for auxiliary speaker.
  - Power Supply: 230V AC to 12V DC external power adapter.

**Technical Specifications**
- Amplitude Freq range: 80 Hz to 20 kHz.
- Amplifier Power: 3.4 Wrms @ 0.1% THD, 2.8 Wrms @ 0.1% THD.
- Amplifier Key Features:
  - High visibility backlit LCD display with 16 x 2 characters.
  - Power on/off, Tune, Autotune, Display Setup, Volume, Six presets.
  - 3.5mm for stereo analogue audio output, headphones and stereo for auxiliary speaker.
  - RF-COMM 75U for DAB aerial connection (telescopic aerial supplied), 12V DC power adapter socket (230V).
  - Input connectors: RF-F connector, 75 Ω for DAB aerial connection (telescopic aerial supplied).
  - Output connectors: 3.5mm for stereo analogue audio output, headphones and stereo for auxiliary speaker.
  - Power Supply: 230V AC to 12V DC external power adapter.
Please return your registration card to the following address to validate your warranty.

PURE Digital
Imagination Technologies Ltd.,
Home Park Estate,
Kings Langley, Herts, WD4 8LZ, UK
01923 277488     support & service
01923 277477     sales
01923 277477     www.pure-digital.com
01923 277477     sales@pure-digital.com
01923 277477     support@pure-digital.com
01923 277477     12A16