

USER'S MANUAL

ice▶Link Gateway 100/200/300



V2.01

State of the art car integration
for media players, USB and
Bluetooth devices



DENSION
Audio Systems

Warning!

Do not allow the player to distract you from driving! Operate the unit only when stationary or ask passengers to operate it for you. Neither Dension Audio Systems Ltd, its regional offices, distributors or resellers accept any responsibility for any damage or injury as a result of using **ice>Link Gateway** while driving! **Exercise good judgment and keep your eyes on the road at all times!**

Warranty

The Dension **ice>Link Gateway** carries one year limited warranty that protects you from defects in material and workmanship of products sold by Dension or its authorised distributors and retailers. We do not warrant any installation work or damage due to negligence, improper installation or operation. **For claims a proof of purchase is required.**

If you need assistance in using this product, please contact your local supplier or visit:

<http://support.dension.com>, where you find comprehensive and up to date Knowledge Base support on FAQs, firmware upgrades, trouble shooting, or you can contact technical support staff.

Disclaimer

Dension Audio Systems Ltd, its regional offices, distributors or resellers are not liable for any incidental, consequential or indirect damages. In case of any kind of erratic behavior of your car's electrical system, please disconnect your **ice>Link** first and have it checked by your installer. Dension does not assume liability for any diagnostic fees.

Introduction

ice>Link Gateway is a vehicle-specific media player integration kit, that enables CD-quality audio and safe control from the vehicle's entertainment system. Supported devices depend on the kit or accessory you have purchased:

Gateway	Aux In	iPod	USB	Blue-tooth	PND	CDC	IVE
100	✓	✓	-	Acc	-	✓	Acc
200i	-	✓	-	-	✓	-	Acc
200BTi	-	✓	-	✓	✓	-	Acc
300	✓	✓	✓	Acc	-	✓	Acc

Acc: feature requires an optional accessory. If you have not purchased this, but you require it, please contact your retailer for a retrofit installation.

iPod: 4G/5G, photo, color, mini, nano 1G/2G.

USB: Flash or hard disk drives (mass storage devices)
Formats: MP3/OGG/WMA (unprotected) and uncompressed PCM-WAV.

Playlist formats: M3U, PLS. File system: FAT16/32 on the first primary partition.

Bluetooth: BTA1000 Accessory supports headset profile (HSP) and A2DP/AVRCP profiles for audio playback and handsfree profile (HFP) for handsfree telephony.

PND: Portable Navigation Devices. This feature is under development. See an up to date list of supported devices at <http://www.dension.com/pnd>

- CDC:** CDR1xxx: car specific accessory to retain the original CD-Changer.
- IVE:** Video Extender (IVE1000) extracts A/V signals of 5th Gen (video) iPod for a video monitor or for rear seat entertainment systems.

This manual assumes that the **Gateway** interface is already installed in your vehicle. For assistance with installation please refer to the installation guide. Regarding the general use of the media player, or its related software (as iTunes, creating playlists, etc.) please consult the related operating manuals.

Getting started

Is your player up-to-date?

Before you start, please check your player's firmware, and make sure it is upgraded to the latest version. For iPod firmware visit <http://www.apple.com/support/ipod>. Dension only guarantees proper functionality with the latest version of firmware.

Study your radio manual!

Please study the owner's manual for your radio. This guide cannot provide detailed support regarding the various system-specific features, e.g.:

- CD changer and disc selection
- Next/Prewious Track, Fast Forward and Rewind (FF/REW)
- Repeat, Random (aka Shuffle or Mix), Scan
- Display and text configuration, automatic scroll, etc.

If your radio handles only 5 CD's, the Disc5 & 6 Gateway functionality will be shifted to Disc4 & 5 respectively (i.e. Disc4 functionality is removed).

Enabling text display

Some car radios can display song information or browse music content. This feature is manually enabled during installation. Please visit <http://support.dension.com/enabletext> for a current list of radios that support this feature and instructions on how to enable it.

Playback control

Select the CD changer source on the radio and the last used player source will start playback automatically.

Deselecting the CD changer or switching off the radio will pause the media player. Generally players turn off automatically after a few minutes. Playback control buttons on the radio (NEXT, BACK, FF, REW, Repeat, Scan) work as expected.

Notes:

- Certain USB media player devices do not support **FF/REW** operation in media player connectivity mode. Also **Next/Previous Track** may take longer than usual.
- The Track number displayed on the radio is limited to 2 digits; the real track number is always truncated as such.
- If the iPod is in Stop mode at connection or at the first connection of a USB device, the Gateway will start PlayAll. In any other scenario, playback continues from the last position.
- **Random** may work differently on iPod/USB and car radio and the radio may be out of synchrony with the iPod or USB. To turn Random off first switch it on again then switch it off.

Source Selection & Operation Summary

Source devices are assigned to various Track# on Disc6. When you select Disc6, the Track# indicates the current source. This may take a few seconds, depending on the radio. By changing the Track# you can select a new source device. Confirm source selection by pressing FF. To quit a function press REW or wait for 30 seconds until the functions time out.

Disc5 is a “parking position” for some Gateway operations, i.e. after a function has been executed (or after certain time out) the radio will return to Disc5 automatically and waits for new commands. In Parking the **Next/Back/FF/REW works as expected**, while other Disc selections result these buttons controlling their respective functions. Below table summarize the operations assigned to Discs:

	Aux	iPod User Interface	iPod Gateway Interface
Track Disc #	1	2	3
6	Source Select: Set Track # + press FF		
5	Parking	Parking	Parking & Play_All
4	-	Scan/Back Chapter	-
3	-	Scan/Back Album	Scan Album FF=AlbumPlay
2	-	-	Scan Artist FF=ArtistPlay
1	-	Scan/Back Playlist	Scan Playlist

	USB	Bluetooth Audio	Bletooth Hands Free
Track Disc #	4	5	6
6	Source Select: Set Track # + press FF		
5	Parking & Play_All	Parking	Parking Next="Green button" Back="Red button"
4	-	-	-
3	Scan Album FF=AlbumPlay	-	Enable/Disable Hands free operation
2	Scan Artist FF=ArtistPlay	-	Last Number Dial
1	Scan Playlist or Folder FF=FolderPlay	Pairing	Pairing

	Reserved	PND Media Player	Original CD-Changer*
Track Disc #	7	8	9
6	Source Select: Set Track # + press FF		
5	-	Parking	Disc_6
4	-	-	Disc_4
3	-	-	Disc_3
2	-	-	Disc_2
1	-	-	Disc_1

Note: If you see Gateway is in Parking (Disc5 is indicated), but you want to start PlayAll, please select Disc6 temporarily, than press Disc5.

Operation in Detail

About Sources

- In **AUX** mode radio displays Track99 and a dummy time counter. AUX input and iPod's audio signals are shared. Connecting both devices to Gateway sounds will be mixed.
- **iPod User Interface:** the iPod functionality remains normal, but additional control from the radio or steering wheel is available. Track#, Time and Song information on the radio is invalid. Use this mode for video playback.
- **iPod Gateway Interface:** iPod's click wheel is disabled, iPod displays the currently played song information. iPod control is possible from the radio or steering wheel, Track#, Time and song information is displayed (if the radio supports). For content browsing, you can set the iPod before connecting it to the Gateway or use the Gateway Browser if the radio supports this. Video playback on the iPod is not possible.
- When selecting an unsupported device, or if a supported device is not connected, the Gateway will exit the selection menu without any change.
- **Connecting a new device** the playback automatically switches to this new device.
- **Disconnecting a device** the most recently played device or the highest priority available device will start playing.

- Connection or disconnection of a device initiates a Magazine Eject/Load sequence, which may cause transient information on the radio display. If the radio switches to tuner (FM) mode, reselect CD changer manually. This is the normal behavior of certain radios.

For example you are listening to an iPod in Gateway mode and you want to select Aux input as the source:

- Press Disc6 (or select it with +/- Disc buttons).
- Track3 will be displayed on the radio.
- Press Back 2 times or set Track1 with the jog wheel.
- Press FF (or a dedicated Select button on some radios)

Scan Playlist, Folder, Artist, Album & Chapter

Selecting Disc 1-4 the Next/Back Track buttons will start playback of the next/previous Playlist or Folder, Artist, Album and Chapter, respectively. Please refer to the Summary table on page 5. This way you can scan the music content, even if you do not have a text capable radio.

Once you find the music you wish, press REW to exit the Scan mode.

ArtistPlay & AlbumPlay

When selecting Disc 1-3 you enter Scan/Back mode as described above, however you are still hearing the currently playing song. Pressing FF starts playback from the first song of the Folder, Artist or Album. This is a great feature if you listen to large music collections randomly and you want to hear the whole album containing the currently played song or all the songs of the current artist.

At the end of Artist- or AlbumPlay the iPod will stop, and USB player will continue the original playback program. This feature is not available in iPod UI mode.

For example you are listening to the Beatles song "Yesterday", which is on the album "Help":

By selecting Disc2 (Artist):

Next: will play e.g. Cranberries (next artist following the Beatles)

Back: will play e.g. Abba (the artist before the Beatles)

FF: will start to play all Beatles songs

By selecting Disc3 (Album):

Next: will play "Irish Jigs&Reels" by Various Artists (the album following "Help")

Back: will play "Goodby" by Cream (the album before "Help")

FF: will start to play the whole album "Help"

About USB

Playlist and Folder control is combined, playlists are sorted first.

Artist and Album operations are based on scanning the ID3 tags of the music content. As a result of a background database building, an index file is stored on the USB drive which is used next time. Depending on the capacity of the drive the whole database building may take some time (~0.5 GB/minute). During the process you may not have access to the entire content. On browsing capable applications an "!" (exclamation mark) indicates those Menu entries, which may not be complete. On certain head units this status is not refreshed automatically, you must enter into a directory and exit to have it updated.

Files without ID3 tags will be not added to the database, so you can't reach them by browsing this way. Use folder based navigation to search the real file stucture. **Before disconnecting** the USB drive, select another source and **wait until its LED goes off or stops blinking**.

Hint: Playlists and folders are sorted in alphabetical order. Prefix these with numbers to make them available in a desired sequence (e.g. 1Rock, 2Pop, 3Classic, etc.) This may make content browsing simpler.

About Bluetooth

Pairing

BTA1000 stores the last 4 paired devices. At power on, BTA1000 connects automatically to the latest available device in the order of previous connections.

To manage pairing, BTA1000 assigns commands to various Track#s of Disc1. To activate a command select Disc1, set the relevant Track# and press FF.

Track1	Connect: Set up a new connection with all available profiles. It does not matter in which profile you operate this function, Gateway will connect all profiles to the same Bluetooth device. Enter Pin# 0000 on the Bluetooth device.
Track2	Disconnect current device. Use this command before switching from the current device to a new one.
Track3	Clear list of paired devices. Use this command if you do not want to connect a particular device to the Gateway any more.

Track4	Advanced pairing; disconnects the current device from the selected profile and starts a new pairing for the selected profile only. This allows to connect different devices for Audio and Hands Free use.
Track5	Restart connection process. Useful if BTA1000 loses the connection with a Bluetooth device for any reason.

Audio

BTA1000 supports A2DP/AVRCP and HSP profiles for audio playback. Due to limitations of these standards no song information is provided by the Bluetooth device and only Next/Back/Pause/Play functions are available from the car radio or the steering wheel.

Note, that with certain Bluetooth devices:

- Playback remote control may not be available
- The media player may have to be started/stopped manually

Navigation Prompts from a Bluetooth device

If your device runs navigation software, then select Bluetooth Audio to hear navigation prompts. During this, you may or may not be able to listen music from the device's media player, depending on its software characteristics.

Hands Free Calling

To **initiate a call**, first select Bluetooth Hands Free as source device (Disk6/Track6).

To start **Voice Dialing** simply press Next Track.

To **Redial** the last number, select Disc2 and press FF to confirm. Depending on your phone this will dial the last incoming or outgoing number, on the same way as the green button on the phone.

Incoming calls automatically activate Bluetooth Hands Free source if any other Gateway source is selected. **To Accept or Reject** the call use **Next or Previous Track** buttons. After finishing the call, the Gateway will return to the original source.

If the Radio or CD is selected, than an **incoming call** mutes the radio briefly allowing you to hear the phone ring. By selecting CD changer source, Bluetooth Hands Free activates automatically and Next/Back track will accept or reject the call as above. After finishing the call, you can switch back to the radio manually.

Enable/Disable Handsfree operation

If you do not want to use the Gateway for Hands Free operation (e.g. you have installed another Hands Free kit), **select Disc3** and the proper Track#, than press **FF**.

Track1	Enable Hands Free operation (factory default)
Track2	Disable Hands Free operation BTA1000 will not pair and connects as HFP.

About PND

To listen music from the PND's media player, select Disc6/Track8 and control playback on the PND. You can use also radio or steering wheel buttons for basic media control playback.

The **navigation prompts** fade in and out automatically if a Gateway source is playing.

If you are listening to a radio station, then depending on the car radio type, one of the following options will happen:

- Announcement in the two front speakers
- Announcement in PND speaker while radio mutes

About Original CD Changer

To select CD changer press Disc6/Track9 then FF. Changer works as originally.

To return to Gateway sources, toggle Repeat, Random or Scan modes, or press Pause, Play, Pause in less than 5 seconds, whatever buttons are easily available on your car radio.

IMPORTANT!

At least one CD must be loaded in the magazine. If you do not load any CD, then you **cannot return from CD changer mode to Gateway** by pressing a button. Connect an iPod or a USB drive to exit CD changer mode and select another source.

Browsing capabilities

Some cars enable the Gateway to display song information and browse music. Not every CD Text capable radio is browser compatible. Please refer to the knowledge base at <http://support.dension.com> for an up to date listing.

In text capable applications Disc6 offers a menu, including Source Selection and direct Playlist, Artist, Album, etc. browser. To navigate in the menu use:

Next/Back Track or turn Jog-Wheel	To select an item in the menu
FF or press Jog-Wheel	To enter the selected item or start a song
REW	To exit the menu level

Some cars equipped with dedicated Select buttons or joystick mounted on the steering wheel buttons. Of course these can be used as well.

At multiline applications the Gateway automatically segments long lists into **Pages**. The first and last line in such a paged list jumps to the previous or next page.

When there is a long list of Artist or Albums, the Gateway browser may insert a virtual item, called **ABC-SEARCH**. By selecting this, the elements of the list will be sorted in alphabetical groups, so accessing an artist beginning with "Z" does not require to scan through all of the artists.

Mark ">" before a line indicates, that by selecting the item you go one level deeper in the browsing hierarchy.

A line without mark is already a song that can be played back by selecting it.

In browser capable applications the Scan Playlist, Artist, Album, etc. functions has less use, however the ArtistPlay and AlbumPlay functions still provide added functionality.

The browser is not available in iPod-UI mode.

Troubleshooting

You cannot switch your radio to CD changer mode:

1. Check cables to make sure everything is tight.
2. Reset Gateway device by disconnecting the power connection or remove the fuse of the car's audio system for a few seconds. You may need the security code to reactivate the radio.
3. Consult with your installer or contact your local Denison support.

You cannot control the iPod from the radio:

1. Make sure the firmware on your iPod is the most recent. For updates please visit **<http://www.apple.com/support/ipod>**
2. Reset the iPod. On the click-wheel iPods hold the centre button and the Menu buttons. (Resetting will not erase your music, it will only restart the operating system of iPod.)

iPod does not turn on:

1. Verify that the iPod's battery is not depleted. Gateway is not able to power up a completely empty iPod. Please charge the iPod with another charging device at least 15 minutes.

Gateway works well with USB flash drives but do not work with a hard disk:

Hard Disk applications are critical to the power budget.

1. Use the original USB cable included with the hard disk.
2. Remove the USB extension cable delivered with the Gateway device.

3. Use the UPB1000 Power Booster Accessory to generate more power for the hard disk.

Firmware Information:

1. At startup of the system (when turning on ignition and the head unit), the connected iPod will show the **Gateway** software version in the upper right and the selected car configuration in the upper left corner of the "Warning! Don't browse while driving" splash screen.

You have to refer this information contacting Dension's Technical Support.

For up to date information about available Gateway accessories visit Dension's WEB Site at **<http://www.dension.com/accessories>**

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