BEAT

INSTRUCTION MANUAL
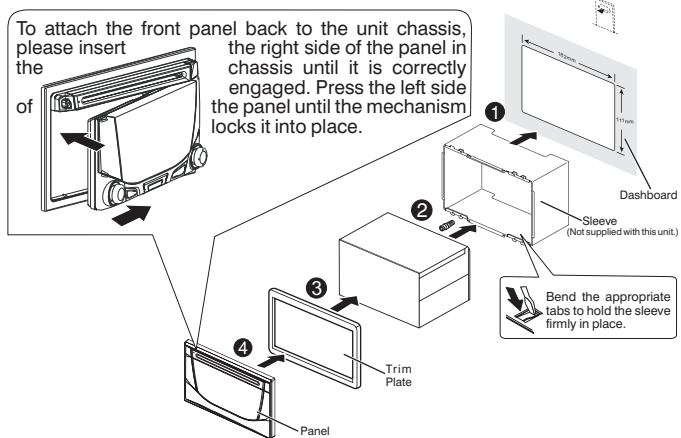## MODEL: BEAT390

CAR CD/MP3 PLAYER / RADIO RECEIVER

BEAT390 USB / SD / WMA / MP3 / CD / DAB + RDS Tuner

Mosfet 4X40W
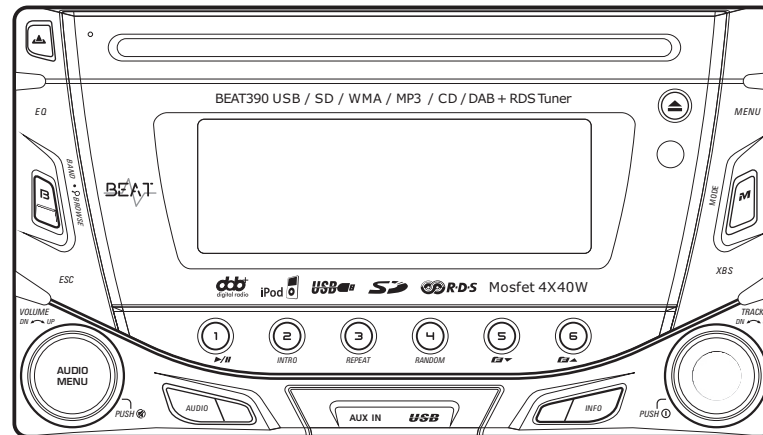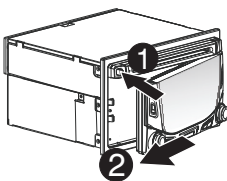
WMA MP3 USB SD R·D·S DAB DAB+ iPod iPhone

1. INSTALLATION

The following illustration shows a typical installation. If you have any questions or require information regarding installation kits, consult your customer car audio dealer or a company suppling kits.

If you are not sure how to install this unit correctly, have it installed by a qualified technician.

To attach the front panel back to the unit chassis, please insert the right side of the panel in the chassis until it is correctly engaged. Press the left side of the panel until the mechanism locks it into place.

Dashboard

Sleeve
(Not supplied with this unit.)

Bend the appropriate tabs to hold the sleeve firmly in place.
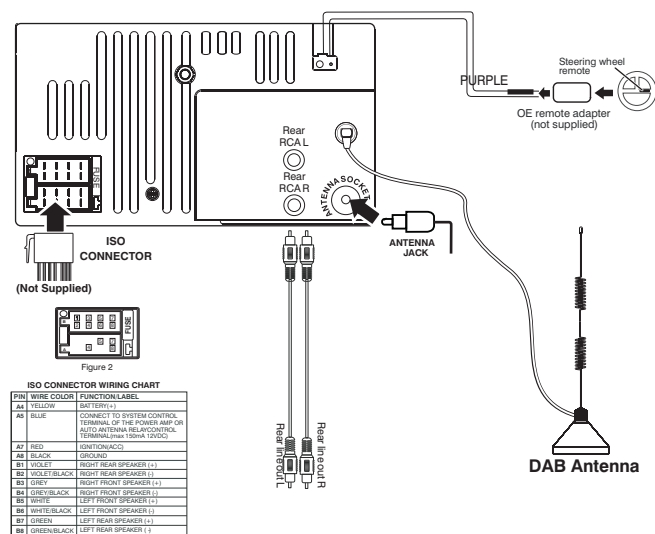
Trim Plate

Panel

Remove the unit

1. Press the Panel Release button.
2. Push the left side of the panel rightward
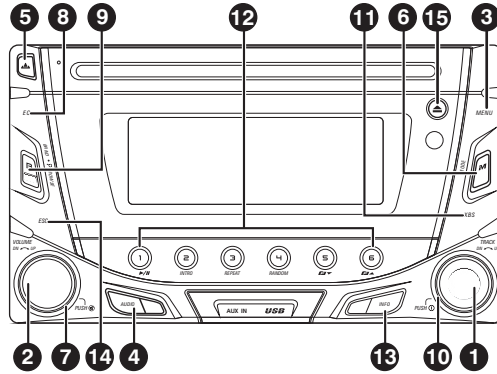3. Pull the panel towards you to disengage it from the chassis.

2. CONNECTING THE SYSTEM

Wiring Diagram

Steering wheel remote

PURPLE

OE remote adapter (not supplied)

Rear RCA L

Rear RCA R

ISO CONNECTOR

(Not Supplied)

ANTENNA JACK

ANTENNA SOCKET

Figure 2

FUSE

DAB Antenna

Rear line out L   Rear line out R

ISO CONNECTOR WIRING CHART

PIN	WIRE COLOR	FUNCTION/LABEL
A4	YELLOW	BATTERY(+)
A5	BLUE	CONNECT TO SYSTEM CONTROL TERMINAL OF THE POWER AMP OR AUTO ANTENNA RELAY/CONTROL TERMINAL(max 150mA 12VDC)
A7	RED	(IGNITION)ACC)
A8	BLACK	GROUND
B1	VIOLET	RIGHT REAR SPEAKER (+)
B2	VIOLET/BLACK	RIGHT REAR SPEAKER (-)
B3	GREY	RIGHT FRONT SPEAKER (+)
B4	GREY/BLACK	RIGHT FRONT SPEAKER (-)
B5	WHITE	LEFT FRONT SPEAKER (+)
B6	WHITE/BLACK	LEFT FRONT SPEAKER (-)
B7	GREEN	LEFT REAR SPEAKER (+)
B8	GREEN/BLACK	LEFT REAR SPEAKER (-)

3. THE MAJOR FUNCTION OF THIS UNIT

No.	Item	Decriptions
1	(Power)	Press to turn the unit on, press and hold turn the unit off.
2	MUTE	Press to Mute or restore the volume.
3	MENU	Press to access into the System Menu mode. Under iPod/iPhone mode, press to access into the iPod/iPhone control mode.
4	AUDIO	Press to access into the Audio Menu mode to adjust the below options: **BASS(Bass Level)** / **TRE (Treble Level)** / **BAL(Balance)** / **FAD (Fader)** / **EQ(Preset Equalizer)**/**xBAS(iX-Bass)**
5	(Release)	Press to detach the front panel.
6	MODE	Press to select different mode of playback.
7	VOLUME KNOB	Rotate the encoder volume to increase and decrease the volume.
8	EQ	Press to select the preset equalizer setting: **EQ OFF ->POP ->USER ->TECHNO ->ROCK ->CLASSIC ->JAZZ ->VOCAL**

No.	Item	Decriptions
9	BAND	Under Radio mode, press to change between BAND FM1,FM2,FM3, AM1(MW1) or AM2 (MW2). Under DAB mode, press it repeatedly to select a BAND (DAB1, DAB2, DAB3,etc), press and hold to display DAB radio station list.
9	(search)	Under Media playback mode, press to access into the music folder / file searching mode.
10	TUNE UP /DOWN	Under Radio/DAB mode, turn these buttons to enter into the Auto Seek mode, turn and hold these buttons to enter into the Manual Seek mode.
10	FILE UP /DOWN	Under Media playback mode, turn these buttons to skip a chapter / track / scene / file.
10	FAST FORWARD /BACKWARD	Under Media playback mode, turn and hold momentarily to fast forward /backward.
11	XBS	Press to turn On or Off the iX-BASS booster function.
12	PRESET NUMERIC BUTTONS	Under Rdaio/DAB mode, short press the Numeric buttons to recall the preset stations. Hold press the Numberic buttons to store the listening station. Under Media playback mode, short press the Numeric buttons to perform the below operation:

Number	1	2	3	4	5	6
Button	Pause/Play	INT	RPT	RDM	Folder Down	Folder UP

No.	Item	Decriptions
13	INFO	Under Radio mode, press this button briefly to display the Clock time. Under DAB mode, press to display the DAB related information. Under Media playback mode, press this button repeatedly to display ID3 information: Track number and play time ->folder ->file ->title ->artist -> album ->clock.
14	ESC	Press to quick return previous menu or mode.
15	(Eject)	Press to eject the Disc.

4. ADJUST SYSTEM MENU SETTING

Press **MENU** to access into the System Menu. Press **MENU** repeatedly to select the item to be adjusted, then roate Encoder Volume Knob to select a value / option.

▶ AUTO STORE

Under the Tuner mode, press the ⊗ button to access into the Auto Store mode. The six strongest stations of the selected band are saved in preset channel automatically:FM1,FM2,FM3(1-6),AM1,AM2.

▶ PTY (Program Type)

Once into the PTY mode, you can be press ⊗ get into program type item, and rotate Encode Volume Knob to selected category.

MUSIC GROUP	SPEECH GROUP
POP M , ROCK M	NEWS, AFFAIRS, INFO
EASY M, LIGHT M	SPORT, EDUCATE, DRAMA
CLASSICS, OTHER M	CULTURE, SCIENCE, VARIED
JAZZ M, COUNTRY	WEATHER,FINANCE, CHILDREN
NATION M, OLDIES M	SOCIAL, RELIGION, PHONE IN
FOLK M, A-TEST, ALARM	TRAVEL, LEISURE, DOCUMENT

▶ AF ON/OFF (Alternate Frequencies)

User can rotate Encoder Volume Knob to turn On or Off the AF (Alternate Frequencies) function. When AF in On mode, the unit will be searches for another station with stronger signal, but with the same program identification as the current station automatically.

▶ TA ON/OFF (Traffic Announcement)

User can rotate the Encoder Volume Knob to turn On or Off the TA(Traffic Announcement) function. Under TA On mode, there is trafic announcement, the unit switches to the tuner mode(regardless of the current mode) and begins to broadcast the announcement on traffic conditons. When the traffic announcement is over, it return to the previous mode. When TA Off, the traffic announcement does not cut in.

▶ RDS ON/OFF

User can rotate the Encoder Volume Knob to turn On or Off the RDS function.

▶ AREA (Tuner Frequency Spacing)

This option allows the selection of the frequency spacing appropriate for your area. Rotate the Encoder Volume Konb to select the EUROPE.

▶ LOCAL SEEK (Local/Distance Select)

This feature is used to designate the strength of the signals at which the radio will stop during automatic tuning. "Distance" is the default, allowing the radio to stop at a broader range of signals. To set the unit to select only strong local stations during automatic tuning, rotate the Encoder Volume Knob until "LOC"appears in the display.

▶ CLOCK SET

Program the current time by rotating the Encoder Volume Knob clockwise to adjust the minutes and hours.

▶ CLOCK FORMAT

User can rotating the Encoder Volume Knob to to selected the clcok format 12H or 24H.

▶ BEEP ON/OFF (Beep Tone)

The beep tone feature allows the selection of an audible beep tone to be heard each time a button is pressed on the face of the radio. "Beep On" is the default display. Rotate Encoder Volume Konb to select the "Beep Off" option.

5. ABOUT RDS (OPTIONAL)

The RDS (Radio Data System) function operates only in areas with FM stations broadcasting RDS signals. If you tune to an RDS station, an RDS icon and information about the presenter, station or program is displayed.

This unit support below RDS features:

► Select Program Type (PTY)

Before tuning to RDS stations, you can select program type and let the unit search only for programs of the selected category.

Press the **MENU** enter into the System Menu mode, press ⊘ to confirm to search the select PTY type.

MUSIC GROUP	SPEECH GROUP
POP M , ROCK M	NEWS, AFFAIRS, INFO
EASY M, LIGHT M	SPORT, EDUCATE, DRAMA
CLASSICS, OTHER M	CULTURE, SCIENCE, VARIED
JAZZ, COUNTRY	WEATHER,FINANCE, CHILDREN
NATION M, OLDIES	SOCIAL, RELIGION, PHONE IN
FOLK M, TEST, ALARM	TRAVEL, LEISURE, DOCUMENT

► Select Alternate Frequencies (AF)

If the radio signal come from the current station is poor, you can turn on the AF (Alternate Frequency) function to let the unit searches for another station with stronger signal but with the same program identification as the current station automatically.

Press the **MENU** enter into the System Menu mode, then rotate the Encoder Volume Knob to turn TA On or Off, then press ⊘ to confirm.

► Receive Traffic Announcement (TA)

If you do not want to miss traffic announcement during enjoying music, you can turn on the TA (Traffic Announcement) function.

TA On	When there is traffic announcement, the unit switches to the tuner mode (regardless of the current mode) and begins to broadcast the announcement on traffic conditions. When the traffic announcement is over, it returns to the previous mode.
TA Off	Traffic announcement does not cut in.

► Clock Time (CT)

The RDS signal broadcast together with the clock time to the unit automatically.
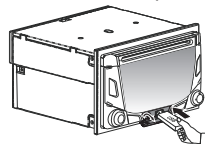
6. EXTERNAL CONNECTION AND MEDIA PLAYER

MP3 music files are audio compression format. This unit can play MP3 directly from files contained on a USB Memory Stick, SD Card.

USB DEVICE OPERATION

▶ Insert the USB Device

1. Open the cover marked **USB** on the front panel.

2. Insert the USB device into the USB socket. The unit starts playing from the USB device automatically.

NOTE

Ensure that the USB device contains playable music.

▶ Remove the USB Device

Before remove the USB stick from the front panel. Always remember to switch off the unit's power then remove out the USB Stick.

MEMORY CARD OPERATION

▶ Insert the Memory Card

1. Press panel ▲ button to release the front panel.
2. Push the left side of the panel rightward. Pull the panel towards you to disengage it from the chassis.
3. Insert the card into the card slot in the correct direction until a " CLICK" sound is heard,
4. Close the front panel, then the unit starts playing from the card automatically.
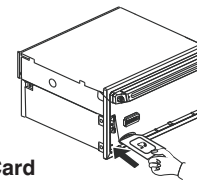
▶ Remove Memory Card

Press the unit in off. Press the card until you hear a click sound, the card is now disengaged. then remove the card.

CONNECT THE AUX-IN

Connect the external signal to AUX in jack located atthe front of the panel, then press Mode button to select Aux mode. Press Mode Button again to cancel Aux Mode and return to previous mode.

Left Track
Right Track
Ground
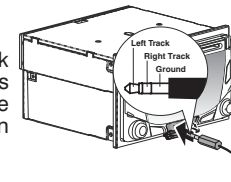
RESET THE UNIT

You can reset the unit to its default setting.

● The RESET button is located on the main unit (as shown on the diagram). To press it vertically with a ballpoint pen or metal object will activate it.

● The reset button is to be activated for the following reasons:
1. Initial installation of the unit when all wiring is completed.
2. All the function buttons do not operate.
3. Error symbol on the display.
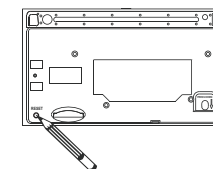
7. iPod / iPhone OPERATION

This unit is equipped with iPod/iPhone Ready function which allow end user to have direct control of the iPod/iPhone on the front panel control button and display iPod/iPhone song information on the unit's LCD display. Please read below for more details operation.

▶ Compatible iPod/iPhone

Apple iPod and iPhone models with a 30-pin dock connector:

Made for:
- iPod nano (2nd generation)
- iPod nano (3rd generation, 4GB only)
- iPod nano (3rd generation, 8GB only)
- iPod nano (4th generation)
- iPod nano (5th generation)
- iPod classic (1st generation)
- iPod classic (2nd generation)
- iPod touch (1st generation)
- iPod touch (2nd generation)
- iPod touch (3rd generation)
- iPod video (30GB, 80GB only)

Works with:
- iPhone
- iPhone 3G
- iPhone 3GS
- iPhone 4

▶ iPod/iPhone control music playback mode

Press **MENU** on front panel repeatedly the **[IPOD CONTROL]** is displayed, then press ⊘ to switch between the two control modes:
- **iPod control mode:** Use the iPod/iPhone to operates music control.
- **Panel control mode:** Use the Panel buttons on unit to operates the music control.

▶ Audiobook

In iPod/iPhone mode, you can set the audiobook playback speed on this car audio.

Press **MENU** on front panel repeatedly the **[AUDIOBOOK]** is displayed,then rotate Encoder Volume Knob to select setting:

NORMAL / **FASTER** / **SLOWER**

▶ Search for a track on iPod/iPhone

1. Press **BAND**/🔍 to browse iPod/iPhone menu.
2. Roate Encoder Volume knob to select the Artist search mode, and press ⊘ to confirm.
3. Roate Encoder Volume knob to select the Artist, then press ⊘ to confirm.
4. Roate Encoder Volume knob to select desired song in the current album, press ⊘ to confirm.

▶ Connect iPod / iPhone

Insert the iPod/iPhone USB cable to the Front Panel USB socket, the unit starts playing iPod/iPhone automatically.

iPod/iPhone USB cable
(not supplied with this unit)

E - 7
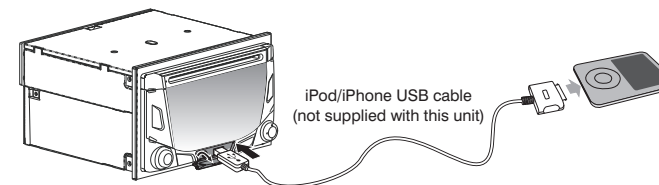
8. DAB / DAB+ Operation

Digital Audio Broadcasting (DAB), is a way of broadcasting radio digitally through a network of transmitters. It provides you with more choice, better sound quality, and more information.
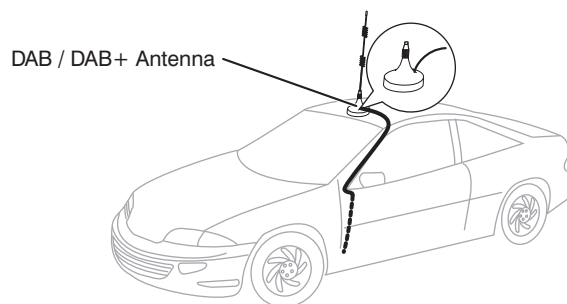
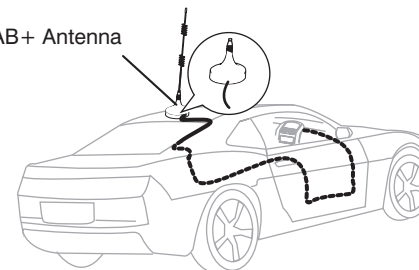| NOTE |
|------|
| If there is no DAB coverage currently available, or DAB signal is too weak in your area, no DAB station could be found, and the below message will be displayed: "NO STATION AVAILABLE". |

▶ Installation the DAB antenna

⚠ CAUTION
● Make sure the antenna cable does not interfere with the safe operation of driving wheel, air bags and seatbelts or other equipment.
● Before entering low overhangs, car washes, or other places with obstacles which may catch on or touch the antenna, remove the antenna to avoid potential damage.
● Damage caused by not following the installation instructions is not covered by warranty.

DAB / DAB+ Antenna

DAB / DAB+ Antenna

1. Find a location as flat as possible on the outside of your car. For example, the roof near the windshield, or rear window.

NOTE
The magnetic base of the antenna will remain secure at normal vehicle speeds in non-windy conditions. Antennae installed on curved surfaces may become detached in windy conditions.

2. Make sure the selected surface is clean and free of dirt, water, or othersubstances which could inhibit attachment to the surface.

3. Gently place the magnetic steel base of the DAB/DAB+ antenna on the surface you selected. The magnetic steel base will stick to any metallic surface.

WARNING
Damage may be caused to the paintwork of the car if the antenna slides or rotates on the car surface.

4. Route the cable: Tuck the cable under weather strip of the door and run the cable through the passenger doorway or tailgate. Reserve enough slack in your cable to fit open doors or deck lids. Secure cables to avoid cable being pinched between hinges and the door.

► New DAB stations

Press **MENU** on front panel repeatedly until **[DAB SCAN]** is displayed, then press **ENTER** to confirmed. The system will scan for all available DAB radio stations and will start broadcasting the first station.

TIPS
New stations and services will be added in the DAB broadcast. To make new DAB stations and services available on your car audio, scan on a regular base.

► DAB Antenna

Press **MENU** on front panel repeatedly until **[DAB ANTENNA]** is displayed, then rotating Encoder Volume Knob to select an option:

[ANTENNA OFF]: Select when using the DAB aerial without the booster.

[ANTENNA 12V]: Select when using the DAB aerial with the booster (12V)

► DAB station information

On the display of DAB broadcasting, the first line shows station name, and the second line shows the service information for the current station.

Press INFO on front panel repeatedly to scroll through the display information (if available).

- **Multiplex name:** Displays the name of the DAB multiplex in which the current station is broadcast.
- **Multiplex info:** Displays the band and channel of the current DAB multiplex.
- **Frequency:** Displays the frequency or current frequency.
- **Program type:** Describes the content of the current DAB station.
- **Scrolling text:** Information broadcast by most DAB stations (may include song titles, news, etc)
- **Date:** Displays the date automatically updated by the DAB signal.
- **Signal Strength:** Displays a meter illustrating the strength of the DAB signal 0-100.
- **Signal Quality:** Display DAB signal quality, from 0 to 100.

11. TROUBLE SHOOTING

Before going through the check list, check wiring connection. If any of the problems persist after check list has been made, consult your nearest service dealer.

No power or no sound
- Car engine is not on. Turn the car engine on.
- Cable is not correctly connected. Check connections.
- Fuse is burnt. Replace fuse.
- Volume is in minimum. Adjust volume to a desired level.
- If the above solutions cannot help, press the RESET button.
- Ensure that the track played is of a compatible format.

Noise in broadcasts
- Signals are too weak. Select other stations with stronger signals.
- Check the connection of the car antenna.
- Change broadcast from Stereo to mono.

Cannot play disc
- Ensure tha the disc label is inserted with the printed side facing up.
- Wipe the disc with fibre cleaning cloth from the centre to the edge in a straight line.
- This disc may be defective. Play another disc.
- Ensure that the CD is a finalised CD/CD-R/CD-RW.
- Ensure that the CD is not encoded with copyright protection technologies.

The CD Skips tracks
- Ensure that the CD is not damaged or dirty.
- Ensure that random mode is deactivated.

Preset stations lost
- Battery cable is not correctly connected. Connect the battery cable to the terminal that is always live.

Display show ERR-1
- The disc, USB or SD device cannot be red in two minutes

Display show ERR-3
- USB/SD data error.
- Disc is upside down. Ensure the printed side is facing up.

Display show ERR-5
- Communication error or component is damged.

12. PRODUCT INFORMATION

Power Supply	12 V DC (11-14 V), Negative Ground
Fuse	15A
Suitable Speaker Impedance	4 - 8 Ω
Power output	40W x 4 channels
Pre-AMP output voltage	2.0 V (USB play mode; 1KHZ, 0dB,10 kΩ load)
Aux-In level	≥ 300mV

Radio

-FM

Frequency Range	87.5 - 108MHz(Europe) (100KHz per step in auto search and 50KHz per step in manual search)
Usable Sensitivity	Better than 15dB at S/N 30dB

-AM(MW)

Frequency Range	522 -1620KHz(Europe)
Usable Sensitivity	Better than 45dB

DAB Tuner

-FM

Frequency range	174 - 240 MHZ
Sensitivity	-100dBm(Band III)
Selectivity	40dB

USB devices:

USB flash memory	USB 1.1, & 2.0 compatible

Supported formats:

MPEG1/2/2.5/	Layer 2/3
WMA Version	7/8/9
Sampling frequency MPEG1 MPEG2 MPEG2.5 WMA	32/44.1/48 Khz 16/22.05/24 KHz 8/11.025/12KHz 22/32/44/48KHz
Sampling But rate MP3/WMA	32~320Kbps & VBR
CDROM Mode	1 / 2
ISO9660 Level	1 / 2 & Joliet(unicode)
Max File/DIR. Count	999
Max DIR. Depth	255
Sorting Method	Tree sorting
Max File/DIR. Name	64Byte
ID3	V1.0/1.1/2.0/2.3(Max 32Byte)
MP3 directory shown	in this manual as "Directory"
MP3 file shown	"Track".
Maximum length of file name	31 characters.
Maximum length of directory	32 characters.
Supports Multi-Session recording.	
Supports CD, CDR and CDRW.	
Disc written by Packet Write (UDF) is not supported.	

NOTE
Product information is subject to change without prior notice.