

# DV-3022V/DV-3020V DV-2022/DV-2020

## Operating Instructions



English on top side.  
Italiano sul lato opposto.

Thank you for buying this Pioneer product. Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.

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**What's in the box**

- Remote Control
- AAA batteries (R03) x 2
- Warranty card
- Operating instructions (This document)

Discover the benefits of registering your product online at <http://www.pioneer.co.uk> (or <http://www.pioneer.eu>)  
Download an electronic version of this manual from our website.

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K002\_R2, Keen

Printed in Thailand

# Safety cautions

**IMPORTANT**

**CAUTION**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of unshielded "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

**CAUTION**  
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**CAUTION**  
If the AC plug of this unit does not match the AC outlet you want to use, the plug must be removed and appropriate one fitted. Replacement and mounting of an AC plug on the power supply cord of this unit should be performed only by qualified service personnel. If connected to an AC outlet, the cut-off plug can cause severe electrical shock. Make sure it is properly disposed of after removal. The equipment should be disconnected by removing the mains plug from the wall socket when left unused for a long period of time (for example, when on vacation).

**WARNING**  
To prevent a fire hazard, do not place any naked flame sources (such as a lit cigarette) on the equipment.

**WARNING**  
Before plugging in for the first time, read the following section carefully.

The voltage of the available power supply differs according to country or region. Be sure that the power supply voltage of the area where this unit will be used meets the required voltage (e.g. 230 V or 120 V) written on the rear panel.

**WARNING**  
This product is for general household purposes. Any failure due to use for other than household purposes (such as long term use in a car or ship) and which requires repair will be charged for even during the warranty period.

**Operating Environment**  
Operating environment temperature and humidity: +5 to +41 °C (+41 to +95 °F) less than 85% RH (cooling vents not blocked)  
Do not install this unit in a poorly ventilated area, a location exposed to high humidity or direct sunlight (or strong artificial light)

**VENTILATION CAUTION**  
To leave space to have space around the unit for ventilation to improve heat radiation (at least 10 cm at top, 10 cm at rear, and 10 cm at each side).

**WARNING**  
SLOTS and openings in the cabinet are provided for ventilation to ensure reliable operation of the product, and to protect it from overheating. To prevent fire hazard, the openings should never be blocked or covered with items (such as newspapers, tablecloths, curtains) or by operating the equipment on thick carpet.

**WARNING**  
This equipment is not waterproof. To prevent a fire or shock hazard, do not place any containers which hold liquid near this equipment (such as a vase or flower pot) or expose it to dripping, splashing, rain or moisture.

**CAUTION**  
This product is a class 1 laser product classified under the Safety of Lasers (IEC 60825-1:2007).

**CLASS 1 LASER PRODUCT**

**Information for users on collection and disposal of old equipment and used batteries**

These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste.

For proper treatment, recovery and recycling of old products and used batteries, please take them to the applicable collection points in accordance with your national legislation.

By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

These symbols are only valid in the European Union.

For countries outside the European Union: If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

# Specifications

Power requirements: . . . . . AC 220 V to 240 V, 50 Hz/60 Hz  
 11 W (DV-3022V), 7 W (DV-3020V), 10 W (DV-2022), 6 W (DV-2020)  
 Power consumption (standby) . . . . . 0.5 W  
 DV-3022V/DV-3020V . . . . . 0.8 W  
 DV-2022/DV-2020 . . . . . 0.5 W  
 Weight . . . . . 1.2 kg  
 External dimensions . . . . . 380 mm (W) x 42 mm (H) x 200 mm (D)  
 . . . . . 150 mm (W) x 42 mm (H) x 100 mm (D)  
 Tolerable operating humidity . . . . . 5% to 85%  
 (no condensation)

**AV Connector (21-pin connector assignment)**

AV connector output . . . . . 21-pin connector  
 This connector provides the video and audio signals for connection to a compatible colour TV monitor.

AV connector input . . . . . 21-pin connector  
 This connector provides the video and audio signals for connection to a compatible colour TV monitor.

AV connector output (standby) . . . . . 8 out  
 DV-3022V/DV-3020V . . . . . 8 out  
 DV-2022/DV-2020 . . . . . 8 out  
 11. . . . . Status  
 12. . . . . GND  
 13. . . . . GND  
 14. . . . . GND  
 15. . . . . GND  
 16. . . . . GND  
 17. . . . . Video out  
 18. . . . . GND  
 19. . . . . GND



**Video output**

Output level . . . . . 1 Vp-p (75 Ω)  
 Output impedance . . . . . 75 Ω (RCA terminal)  
**HDMI output (Only for DV-3022V/DV-3020V)**  
 Output terminal . . . . . 19-pin  
**Audio output (stereo LR)**  
 Audio output level . . . . . 200 mVrms (1 kHz, 20 dB)  
 Output terminal . . . . . RCA terminal  
 Frequency response . . . . . 20 Hz to 44 kHz

**Digital audio output**  
 Connect this unit to a digital audio receiver (DAR) terminal using a digital audio cable (commercially available).

**Additional information (Only for DV-3022V/DV-2022)**  
 USB port . . . . . A-type

**Notes**

- The specifications and design of this product are subject to change without notice.
- This product includes FontAvenue® fonts licensed by NEC Corporation. FontAvenue is a registered trademark of NEC Corporation.

# Before you start

**Loading the batteries in the remote control**

- Open the rear lid and insert the batteries.

**WARNING**

- Do not use or store batteries in direct sunlight or other excessively hot place, such as inside a car or near a heater. This can cause batteries to leak, overheat, explode or catch fire. It can also reduce the life or performance of batteries.

**Notes**

- When inserting the batteries, make sure not to damage the springs on your battery's (+) terminals.
- Do not use any batteries other than the ones specified.
- Also, do not use a battery together with an old one.
- When loading the batteries into the remote control, set them in the proper direction, as indicated by the polarity (+) and (-) signs.
- Do not leak batteries, disassemble them, or throw them into flames or water.
- Do not use batteries of different voltages, even if they are the same size and shape. Do not use different types of batteries together.
- To prevent leakage of battery fluid, remove the batteries if you do not plan to use the remote control for a long period of time (1 month or more). If the fluid should leak, wipe it carefully off the inside of the case. Then insert new batteries. If a battery should leak and the fluid should get on your skin, flush it off with large quantities of water.
- When disposing of used batteries, please comply with governmental regulations or environmental protection institution's rules that apply in your country/area.

**Notes for DV-3022V/DV-3020V**

- Signals can be transferred to an HDMI-compatible TV without loss of picture or sound quality using an HDMI cable.
- Follow the TV instructions after the connections, then set **HDMI Resolution** (section 4).
- This player's interface is designed according to the High-Definition Multimedia Interface specifications.
- When an HDMI-compatible device is connected, the resolution is displayed on the front panel display.
- The resolution of the video signals output from the HDMI OUT terminal can be changed manually. Change the **HDMI Resolution** setting (section 4). Settings for two units can be stored in the memory.
- This player is designed for connecting to HDMI-compatible devices. It may not operate properly if connected to DVD devices.

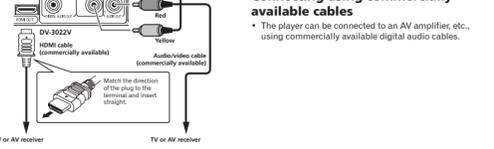
**Player's rear panel**

**Playing audio signals through the HDMI OUT terminal (DV-3022V/DV-3020V)**

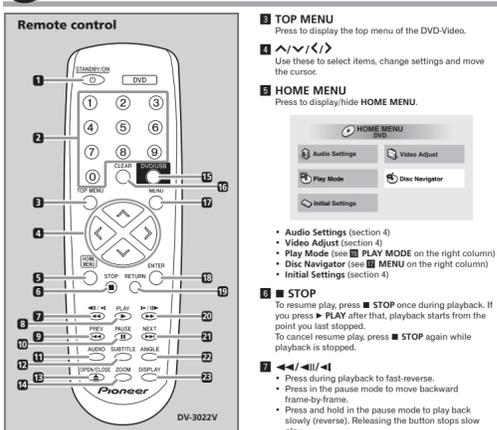
- 44.1 kHz to 98 kHz, 16-bit/20-bit/24-bit 2-channel linear PCM audio (including 2-channel downmixing)
- Dolby Digital 5.1-channel audio
- DTS 5.1-channel audio
- MPEG audio

**Connecting using commercially available cables**

- The player can be connected to an AV amplifier, etc. using commercially available digital audio cables.



# 2 Part names and functions



**1 STANDBY/ON**  
Press to turn the power on and off.

**2 Number buttons (0 to 9)**  
Use these to specify and play the title, chapter, track or file. Also use to select items on MENU screens, etc.

**3 TOP MENU**  
Press to display the top menu of the DVD-Video.

**4 HOME MENU**  
Press to display/hide HOME MENU.

**5 AUDIO**  
For discs or files with multiple audio streams/channels, the audio stream/channel can be changed during playback.

**6 SUBTITLE**  
On DVD-Video or DivX discs containing subtitles in multiple languages, the subtitle can be changed during playback.

**7 OPEN/CLOSE**  
Press to open and close the disc tray and load the disc.

**8 ZOOM**  
Press to zoom on the image.

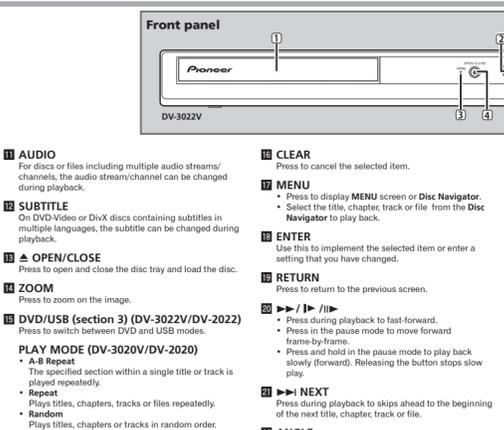
**9 DVD/USB (section 3) (DV-3022V/DV-2022)**  
Press to return to the beginning of the currently playing title, chapter, track or file. Press twice to move back to the beginning of the previous title, chapter, track or file.

**10 STOP**  
To resume play, press **STOP** once during playback. If you press **PLAY** after that, playback starts from the point you last stopped. To cancel resume play, press **STOP** again while playback is stopped.

**11 A/B Repeat**  
Pressing playback to fast-reverse. Press in the pause mode to move backward frame-by-frame. Press and hold in the pause mode to play back slowly (reverse). Releasing the button stops slow play.

**12 PLAY**  
Press to start playback.

**13 PREV**  
Press to return to the beginning of the currently playing title, chapter, track or file. Press twice to move back to the beginning of the previous title, chapter, track or file.



**1 Disc tray**

**2 Front panel display**

**3 HDMI indicator (DV-3022V/DV-3020V)**  
Lights when the device connected to the HDMI OUT terminal is recognized.

**4 OPEN/CLOSE**

**5 Play port (type A) (DV-3022V/DV-2022)**

**6 CLEAR**  
Press to cancel the selected item.

**7 MENU**  
Press to display MENU screen or Disc Navigator. Select the title, chapter, track or file from the Disc Navigator to play back.

**8 ENTER**  
Use this to implement the selected item or enter a setting that you have changed.

**9 RETURN**  
Press to return to the previous screen.

**10 PAUSE**  
Press during playback to fast-forward. Press in the pause mode to move forward frame-by-frame. Press and hold in the pause mode to play back slowly (forward). Releasing the button stops slow play.

**11 NEXT**  
Press during playback to skip ahead to the beginning of the next title, chapter, track or file.

**12 ANGLE**  
On DVD-Video discs containing multiple angles, the angle can be changed during playback. Press and hold during the Audio CD playback to change the angle. Each time you press and hold, the repeat mode changes between the disc repeat and track repeat mode.

**13 DISPLAY**  
The elapsed time, amount remaining, etc., is displayed.

# 4 Changing the settings

The factory default settings are indicated in *italics*.

**Audio Settings parameters**

**Sound Retriever (High/Low/Off)**

- The sound of a WMA or MP3 file is played with high sound quality. This is only valid for files with the extension ".wma" or ".mp3".
- This effect depends on the file. Try different settings, and choose the providing the good effect.

**Equalizer (Off/Rock/Pop/Live/Dance/Techno/Classical/Soft)**

- Select according to the genre of music to be listened to.
- This setting affects the bass and treble frequencies.
- This makes loud sounds weaker and weak sounds louder.
- This effect depends on the volume of the connected units.
- Try different settings, and choose the one providing the strongest effect.

**Dialog (High/Medium/Low/Off)**

- Change this setting if the sound of the dialogs is too low.

**About Sound Retriever function**

When audio data is removed during the compression process, sound quality is degraded. The Sound Retriever function automatically enhances compressed audio and restores CD quality sound.

**Video Adjust parameters**

**Sharpness (Fine/Standard/Soft)**

- Adjusts the picture's sharpness.

**Brightness (20 to +20)**

- Adjusts the picture's brightness.

**Contrast (-16 to +16)**

- Adjusts the ratio of the brightness of the brightest and darkest portions of the picture.

**Gamma (3 to +3)**

- Adjusts the look of the dark portions of the picture.

**Hue (green 9 to red 9)**

- Adjusts the balance between green and red.

**Chroma Level (8 to +8)**

- Adjusts the density of the colors. This setting is effective for sources with many colors, such as cartoons.

**Brightness, Contrast, Gamma, Hue and Chroma Level** are set to 0 upon purchase.

**Initial Settings parameters**

- The player's detailed settings can be changed here.
- Initial Settings** cannot be selected during playback.

**Digital Audio Out settings**

**HDMI Out (DV-3022V/DV-3020V)**

- Select the audio signals to be output from the HDMI OUT terminal (LPCM (Dolby Digital) or not (OFF)).

**Digital Out**

- Select whether to output digital audio signals (On) from the COAXIAL DIGITAL AUDIO OUT terminals or not (OFF).

**Dolby Digital Out**

- Select whether to output Dolby Digital audio signals (Dolby Digital) or to convert them into linear PCM signals (Dolby Digital > PCM), according to the connected unit.

**DTS Out**

- Select whether to output DTS audio signals (DTS) or not (OFF), according to the connected unit.

**96 kHz PCM Out**

- Select whether to output 96 kHz audio signals (96kHz) or to convert them into linear PCM signals (96kHz > 48kHz), according to the connected unit.

**MPEG Audio**

- Select whether to output MPEG audio signals (MPEG) or to convert them into linear PCM signals (MPEG > PCM), according to the connected unit.

**Video output settings**

**TV Screen**

- Change the picture's display format (4:3 (Letter Box)/4:3 (Pan & Scan)/16:9 (Wide)/16:9 (Compressed)), according to the connected TV.
- The player's factory default settings are set as below: DV-3022V/DV-3020V . . . . . 16:9 (Wide) DV-3022V/DV-2020 . . . . . 4:3 (Letter Box) 16:9 (Compressed) can only be set on DV-3022V and DV-3020V.

**HDMI Resolution (DV-3022V/DV-3020V)**

- Change the resolution of the video signals output from the HDMI OUT terminals (720x480/720x576/720x480p/720x576p/1280x720p/1920x1080/1920x1080p).

**HDMI Cable (DV-3022V/DV-3020V)**

- Change the video signals output from the HDMI OUT terminal (Full range RGB/RGB Component).

**Deep Color (DV-3022V/DV-3020V)**

- Select whether to connect the connected TV monitor is compatible with Deep Color (Auto/Off).

**Language settings**

**Audio Language**

- Change the language when listening to the sound of DVD-Video discs (English/available languages/Other Language).

**Subtitle Language**

- Change the language of the subtitles displayed for DVD-Video discs (English/available languages/Other Language).

**DVD Menu Lang.**

- Change the language used for the menu displays of DVD-Video discs (w/Subtitle Lang./available languages/Other Language).

**Subtitle Display**

- Select whether to display subtitles (On) or not (OFF).

**Display settings**

**OSD Language**

- Change the language of the operation messages (Play, Stop, etc.) displayed on the TV screen (English/available languages/Other Language).

**Angle Indicator**

- Select whether to display the angle mark on the TV screen (On) or not (OFF).

**On Screen Display**

- Select whether to display operation messages (Play, Stop, etc.) on the TV screen (On) or not (OFF).

**Options settings**

**Control (DV-3022V/DV-3020V)**

- Select whether to operate the player using the remote control of the AV component connected using an HDMI cable (On) or not (OFF).

**Parental Lock**

- Restrict DVD-Video viewing (Password/Level Change/Country Code).

**DivX VOD**

- Display the registration code required for playing DivX VOD files (Activate/Deactivate).

**Auto Power Off**

- Select whether to turn the power off automatically (On) or not (Off). When set to On, the power automatically turns off if no operation is performed for 30 minutes or more.

**Restoring all the settings to the defaults**

- Press **STANDBY/ON** while pressing **STOP**. Use the buttons on the front panel.

# 5 Playable discs and files

**Playable discs**

DVD-VIDEO	DVD-Video discs
DVD-R	DVD-R/RW/R DL and DVD-R/RW/R DL discs recorded in the Video mode
DVD-RW	DVD-R/RW/R DL discs recorded in the Video mode
VIDEO-CD	Video CDs (including Super VCDs)
CD/DA	Audio CDs
CD-R/RW	CD-R/RW-ROM discs containing music recorded in the CD-DA format
JPEG	JPEG files recorded on DVD-R/RW/R DL discs, CD-R/RW-ROM discs
DivX	DivX video files recorded on DVD-R/RW/R DL discs, CD-R/RW-ROM discs
WMA	WMA files recorded on DVD-R/RW/R DL discs, CD-R/RW-ROM discs
MP3	MP3 files recorded on DVD-R/RW/R DL discs, CD-R/RW-ROM discs
FUJICOLOR-CD	FUJICOLOR-CD
KODAK Picture CD	KODAK Picture CD

**Discs that cannot be played**

- Blu-ray discs
- HD DVD
- AVCHD
- AVCHC
- DVD-Audio discs
- DVD-RAM discs
- SACDs
- CD-G
- Discs recorded with packet writing
- Programs that can be recorded only once and that are (already) recorded on a DVD-R/RW/R DL

**About region numbers**

All DVD-Video discs carry a region mark (number) on the case. The mark (number) denotes the region(s) of the world in which the disc is compatible. Your DVD player also has a region mark (number), which you can find on the rear panel.

If you try to play a disc of an incompatible region, "Incompatible disc region number Can't play disc" will be displayed on the screen and you will not be able to play the disc. Discs marked "ALL" can be played in any player. The diagram below shows the various DVD regions of the world.

**Regarding copy protected CDs**

This player is designed to conform to the specifications of the audio CD format. This player does not support the playback or function of discs that do not conform to these specifications.

**Playing discs created on computers or BD/DVD recorders**

- This player does not support multiaudio discs or recorder recording.
- Multiaudio/multitrack recording is a method in which data is recorded on a single disc in two or more sessions/borders. A "session" or "border" is one recording unit, consisting of a complete set of data from lead-in to lead-out.

**Supported image file formats**

**JPEG**

- Resolution: Up to 3 072 x 2 048 pixels
- This player supports baseline JPEG.
- This player supports Exif Ver.2.2.
- This player does not support progressive JPEG.

**Supported audio file formats**

This player does not support VBR (Variable Bit Rate) and lossless encoding.

**Windows Media® Audio (WMA)**

- Sampling frequencies: 32 kHz, 44.1 kHz and 48 kHz
- Bit rate: Up to 192 kbps
- This player supports files encoded using Windows Media Player Ver. 7.1.1. Windows Media Player for Windows XP and Windows Media Player 9 Series.
- Windows Media is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.
- This product includes technology owned by Microsoft Corporation and cannot be used or distributed without a license from Microsoft Licensing, Inc.

**MPEG-1 Audio Layer 3 (MP3)**

- Sampling frequencies: 32 kHz, 44.1 kHz and 48 kHz

**Playable files**

- Only discs recorded in ISO9660 Level 1, Level 2 and Joliet can be played.
- Files protected by DRM (Digital Rights Management) cannot be played.
- Files other than the ones below (WMA, MPEG-AAC, etc.) are not guaranteed to play.

**Supported video file formats**

**DivX**

- DivX is a media technology created by DivX, Inc. DivX media files contain image data.
- DivX files may also include such advanced playback functions as menu screens and selection of multiple subtitle languages/audio tracks.

**DivX Certified™** and associated logos are trademarks of DivX, Inc. and are used under license.

**Displaying external subtitle files**

- The font sets listed below are available for external subtitle files. You can see the proper font set on-screen by setting the **Subtitle Language** in section 4 to match the subtitle file.
- This player supports the following language groups:

Group 1	Afrikaans (af), Basque (eu), Catalan (ca), Danish (da), Dutch (nl), English (en), Estonian (et), Finnish (fi), French (fr), German (de), Greek (el), Hebrew (he), Italian (it), Japanese (ja), Korean (ko), Latvian (lv), Lithuanian (lt), Maltese (mt), Norwegian (no), Polish (pl), Portuguese (pt), Romanian (ro), Russian (ru), Serbian (sr), Spanish (es), Swedish (sv), Turkish (tr)
Group 2	Albanian (sq), Albanian (sq), Croatian (hr), Czech (cs), Hungarian (hu), Polish (pl), Polish (pl), Slovak (sk), Slovenian (sl)
Group 3	Bulgarian (bg), Bulgarian (bg), Macedonian (mk), Russian (ru), Serbian (sr), Ukrainian (uk)
Group 4	Hebrew (he), Yiddish (yi)
Group 5	Turkish (tr)

- Some external subtitle files may be displayed incorrectly or not at all.
- For external subtitle files the following subtitle format filename extensions are supported (please note that this player does not support files with the disc navigation menu): .rt, .sub, .ssa, .smi
- The filename of the movie file has to be repeated at the beginning of the filename for the external subtitle file.
- The number of external subtitle files which can be switched for the same movie file is limited to a maximum of 10.

**About trademarks**

**HDMI**

- HDMI, the HDMI Logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing, LLC in the United States and other countries.

**Language Code Table**

Language names (codes) an input codes	Country/Area code	Language names (codes) an input codes	Country/Area code
Japanese (jp)	0426	Kirgiz (ky)	1125
English (en)	0425	Latin (la)	1201
Spanish (es)	0424	Latvian (lv)	1214
German (de)	0405	Latvian (lv)	1215
French (fr)	0404	Lithuanian (lt)	1220
Italian (it)	0403	Malay (ms)	1307
Portuguese (pt)	0402	Malay (ms)	1308
Dutch (nl)	0401	Malay (ms)	1309
Swedish (sv)	0400	Malay (ms)	1310
Arabic (ar)	0327	Malay (ms)	1311
Hebrew (he)	0326	Malay (ms)	1312
Yiddish (yi)	0325	Malay (ms)	1313
Polish (pl)	0324	Malay (ms)	1314
Czech (cs)	0323	Malay (ms)	1315
Slovak (sk)	0322	Malay (ms)	1316
Slovenian (sl)	0321	Malay (ms)	1317
Croatian (hr)	0320	Malay (ms)	1318
Serbian (sr)	0319	Malay (ms)	1319
Bulgarian (bg)	0318	Malay (ms)	1320
Russian (ru)	0317	Malay (ms)	1321
Ukrainian (uk)	0316	Malay (ms)	1322
Ukrainian (uk)	0315	Malay (ms)	1323
Ukrainian (uk)	0314	Malay (ms)	1324
Ukrainian (uk)	0313	Malay (ms)	1325
Ukrainian (uk)	0312	Malay (ms)	1326
Ukrainian (uk)	0311	Malay (ms)	1327
Ukrainian (uk)	0310	Malay (ms)	1328
Ukrainian (uk)	0309	Malay (ms)	1329
Ukrainian (uk)	0308	Malay (ms)	1330
Ukrainian (uk)	0307	Malay (ms)	1331
Ukrainian (uk)	0306	Malay (ms)	1332
Ukrainian (uk)	0305	Malay (ms)	1333
Ukrainian (uk)	0304	Malay (ms)	1334
Ukrainian (uk)	0303	Malay (ms)	1335
Ukrainian (uk)	0302	Malay (ms)	1336
Ukrainian (uk)	0301	Malay (ms)	1337
Ukrainian (uk)	0299	Malay (ms)	1338
Ukrainian (uk)	0298	Malay (ms)	1339
Ukrainian (uk)	0297	Malay (ms)	1340
Ukrainian (uk)	0296	Malay (ms)	1341
Ukrainian (uk)	0295	Malay (ms)	1342
Ukrainian (uk)	0294	Malay (ms)	1343
Ukrainian (uk)	0293	Malay (ms)	1344
Ukrainian (uk)	0292	Malay (ms)	1345
Ukrainian (uk)	0291	Malay (ms)	1346
Ukrainian (uk)	0290	Malay (ms)	1347
Ukrainian (uk)	0289	Malay (ms)	1348
Ukrainian (uk)	0288	Malay (ms)	1349
Ukrainian (uk)	0287	Malay (ms)	1350
Ukrainian (uk)	0286	Malay (ms)	1351
Ukrainian (uk)	0285	Malay (ms)	1352
Ukrainian (uk)	0284	Malay (ms)	1353
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<http://www.luxmanual.com>

<http://aubethermostatmanual.com>

Golf course search by state

<http://golfingnear.com>

Email search by domain

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Auto manuals search

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