

Table of Contents

Multi-Region playback for DVD and Blu-ray.....	2
Encapsulation of advanced features within the Advanced feature collection.....	3
Country code selection.....	3
DVD UOP (User Operation Prohibition) deactivation.....	4
Blu-ray PUO (Prohibited User Operation) deactivation.....	5
Automatic power-off deactivation.....	5
Cinavia™ free operation.....	6
PAL support.....	6
Stock firmware feature upgrade.....	6
Country Code List.....	8

Multi-Region playback for DVD and Blu-ray

This feature of our enhanced firmware allows you to adjust the DVD and Blu-ray region settings of your Panasonic™ Blu-ray device.

By applying a special remote control button sequence with the original Panasonic™ remote control, you can set the DVD device region (1,2,3,4,5,6,7,8) and the Blu-ray device region (A,B,C).

In addition to adjusting region settings, the remote control button sequence also deactivates DVD region verification, which allows most region locked DVDs to play without having to change the DVD device region, while at the same time providing the ability to adjust the DVD device region manually if required for specific RCE protection scenarios.

Apply the following remote control button sequence to adjust the DVD and Blu-ray region settings of your Panasonic™ Blu-ray device:

OPTION **OPTION** **OPTION** **DVDRC** **BDRC**

DVDRC can be one of the following remote control buttons:

- 1** to set the device to DVD region 1
- 2** to set the device to DVD region 2
- 3** to set the device to DVD region 3
- 4** to set the device to DVD region 4
- 5** to set the device to DVD region 5
- 6** to set the device to DVD region 6
- 7** to set the device to DVD region 7
- 8** to set the device to DVD region 8

BDRC can be one of the following remote control buttons:

- 1** to set the device to Blu-ray region A
- 2** to set the device to Blu-ray region B
- 3** to set the device to Blu-ray region C

Example 1: The following remote control button sequence will set the region settings of your device to

DVD region 1 / Blu-ray region C with DVD region verification disabled

OPTION OPTION OPTION 1 3

Example 2: The following remote control button sequence will set the region settings of your device to

DVD region 5 / Blu-ray region A with DVD region verification disabled

OPTION OPTION OPTION 5 1

Note:

The device will restart itself after each complete remote control button sequence to acknowledge sequence recognition. This is part of the normal operation !

Encapsulation of advanced features within the Advanced feature collection

This feature of our enhanced firmware provides a single remote control button sequence to collectively enable or disable advanced features for enhanced firmware.

Apply one of the following remote control button sequences to adjust the status of the Advanced feature collection:

OPTION OPTION OPTION 9 1

to enable all features within the Advanced feature collection or

OPTION OPTION OPTION 9 2

to disable all features within the Advanced feature collection

Note:

The device will restart itself after each complete remote control button sequence to acknowledge sequence recognition. This is part of the normal operation !

Country code selection

This feature of our enhanced firmware allows you to override the default mechanism for determining the country code setting of your Panasonic™ Blu-ray device and play DVD

and Blu-ray discs which require specific country code settings. Sometimes disc publishers abuse this setting to impose additional access restrictions on top of standard region locking.

Country code overriding is part of the Advanced feature collection. Its status is determined by the status of the Advanced feature collection:

Advanced feature collection enabled -> Country code overriding enabled -> The device will use your country code selection.

Advanced feature collection disabled -> Country code overriding disabled -> The device will use the default mechanism for determining the country code (Factory behavior)

Apply the following remote control button sequence to adjust the country code of your Panasonic™ Blu-ray device:

OPTION **OPTION** **OPTION** **9** **4** **CODE**

CODE is an activation code from our Country code list.

Example 1: The following remote control button sequence will set the country code of your device to

United States of America (ISO code: "US" / Activation code: 63634)

OPTION **OPTION** **OPTION** **9** **4** **6** **3** **6** **3** **4**

Example 2: The following remote control button sequence will set the country code of your device to

Germany (ISO code: "DE" / Activation code: 53216)

OPTION **OPTION** **OPTION** **9** **4** **5** **3** **1** **2** **6**

Note:

The device will restart itself after each complete remote control button sequence to acknowledge sequence recognition. This is part of the normal operation !

DVD UOP (User Operation Prohibition) deactivation

This feature of our enhanced firmware deactivates UOP (User Operation Prohibition) processing for DVD playback on your Panasonic™ Blu-ray device.

UOP is a mechanism which allows DVD publishers to restrict the possible user activity during DVD video playback. This can include restrictions like prohibition from turning off forced subtitles, prohibition from pausing video, etc. With our UOP deactivation feature

UOP processing on the device is completely deactivated and you regain full control because the prohibitions are no longer applied.

UOP deactivation is part of the Advanced feature collection.

Its status is determined by the status of the Advanced feature collection:

Advanced feature collection enabled -> UOP deactivation enabled -> The device will not apply UOPs

Advanced feature collection disabled -> UOP deactivation disabled -> The device will apply UOPs (Factory behavior)

Blu-ray PUO (Prohibited User Operation) deactivation

This feature of our enhanced firmware deactivates PUO (Prohibited User Operation) processing for Blu-ray and Ultra HD Blu-ray playback on your Panasonic™ Blu-ray device.

PUO is (just like UOP for DVD video playback) a mechanism which allows Blu-ray publishers to restrict the possible user activity during Blu-ray playback. This can include restrictions like prohibition from turning off forced subtitles, prohibition from pausing video, etc. With our PUO deactivation feature PUO processing on the device is completely deactivated and you regain full control because the prohibitions are no longer applied.

PUO deactivation is part of the Advanced feature collection.

Its status is determined by the status of the Advanced feature collection:

Advanced feature collection enabled -> PUO deactivation enabled -> The device will not apply PUOs

Advanced feature collection disabled -> PUO deactivation disabled-> The device will apply PUOs (Factory behavior)

Automatic power-off deactivation

This feature of our enhanced firmware deactivates the automatic power-off function which turns the device off after a certain time of inactivity.

Automatic power-off deactivation is part of the Advanced feature collection.

Its status is determined by the status of the Advanced feature collection:

Advanced feature collection enabled -> Automatic power-off deactivation enabled -> The device will not will not automatically turn itself off

Advanced feature collection disabled -> Automatic power-off deactivation disabled -> The device will automatically turn itself off after a certain time of inactivity (Factory behavior)

Cinavia™ free operation

This feature of our enhanced firmware allows you to operate your device without Cinavia™ audio watermark detection.

Cinavia™ audio watermark detection deactivation is part of the Advanced feature collection.

Its status is determined by the status of the Advanced feature collection:

Advanced feature collection enabled -> Cinavia™ audio watermark detection deactivation enabled -> Cinavia™ audio watermarks will not be detected

Advanced feature collection disabled -> Cinavia™ audio watermark detection deactivation disabled -> Cinavia™ availability depends on model number and firmware version (Factory behavior)

PAL support

This feature of our enhanced firmware removes the restriction to NTSC-only playback from American Panasonic™ Blu-ray devices (PAL media playback on Panasonic™ Blu-ray devices requires a PAL capable display device).

PAL support overriding is part of the Advanced feature collection.

Its status is determined by the status of the Advanced feature collection:

Advanced feature collection enabled -> PAL support overriding enabled -> The device will support PAL

Advanced feature collection disabled -> PAL support overriding disabled -> PAL support depends on device model (Factory behavior)

Stock firmware feature upgrade

This feature of our enhanced firmware removes functionality restrictions and unlocks available features for all supported device models.

Stock firmware feature upgrade is part of the Advanced feature collection.

Its status is determined by the status of the Advanced feature collection:

Advanced feature collection enabled -> Stock firmware feature upgrade enabled -> All stock firmware features will be available for all supported device models.

Advanced feature collection disabled -> Stock firmware feature upgrade disabled -> Feature restrictions apply (Factory behavior)

Feature availability for supported device models with Stock firmware feature upgrade **disabled** (Factory behavior / Functionality restrictions marked in red):

	DP-UB420 / DP-UB424	DP-UB820 / DP-UB824	DP-UB9000 / DP-UB9004
External SRT subtitle support from USB flash drive for Blu-ray disc playback	No	No	Specific models only
Basic (350 nits) / High (500 nits) Luminance Projector HDR Display Types	No	No	Yes
HDR10 Metadata Information	No	Yes	Yes
System Gamma Control	No	Yes	Yes

Feature availability for supported device models with Stock firmware feature upgrade **enabled**:

	DP-UB420 / DP-UB424	DP-UB820 / DP-UB824	DP-UB9000 / DP-UB9004
External SRT subtitle support from USB flash drive for Blu-ray disc playback	No	Yes	Yes
Basic (350 nits) / High (500 nits) Luminance Projector HDR Display Types	Yes	Yes	Yes
HDR10 Metadata Information	Yes	Yes	Yes
System Gamma Control	Yes	Yes	Yes

Country Code List

Country	ISO code	Activation code
Afghanistan	AF	51617
Åland Islands	AX	51641
Albania	AL	51625
Algeria	DZ	53243
American Samoa	AS	51634
Andorra	AD	51615
Angola	AO	51628
Anguilla	AI	51622
Antarctica	AQ	51632
Antigua and Barbuda	AG	51618
Argentina	AR	51633
Armenia	AM	51626
Aruba	AW	51638
Australia	AU	51636
Austria	AT	51635
Azerbaijan	AZ	51643
Bahamas	BS	52234
Bahrain	BH	52221
Bangladesh	BD	52215
Barbados	BB	52213
Belarus	BY	52242
Belgium	BE	52216
Belize	BZ	52243
Benin	BJ	52223
Bermuda	BM	52226
Bhutan	BT	52235
Bolivia (Plurinational State of)	BO	52228
Bonaire, Sint Eustatius and Saba	BQ	52232
Bosnia and Herzegovina	BA	52212
Botswana	BW	52238

Country	ISO code	Activation code
Bouvet Island	BV	52237
Brazil	BR	52233
British Indian Ocean Territory	IO	55628
Brunei Darussalam	BN	52227
Bulgaria	BG	52218
Burkina Faso	BF	52217
Burundi	BI	52222
Cabo Verde	CV	52637
Cambodia	KH	56621
Cameroon	CM	52626
Canada	CA	52612
Cayman Islands	KY	56642
Central African Republic	CF	52617
Chad	TD	63215
Chile	CL	52625
China	CN	52627
Christmas Island	CX	52641
Cocos (Keeling) Islands	CC	52614
Colombia	CO	52628
Comoros	KM	56626
Congo	CG	52618
Congo (Democratic Republic of the)	CD	52615
Cook Islands	CK	52624
Costa Rica	CR	52633
Côte d'Ivoire	CI	52622
Croatia	HR	55233
Cuba	CU	52636
Curaçao	CW	52638
Cyprus	CY	52642
Czechia	CZ	52643
Denmark	DK	53224
Djibouti	DJ	53223

Country	ISO code	Activation code
Dominica	DM	53226
Dominican Republic	DO	53228
Ecuador	EC	53614
Egypt	EG	53618
El Salvador	SV	62637
Equatorial Guinea	GQ	54632
Eritrea	ER	53633
Estonia	EE	53616
Ethiopia	ET	53635
Falkland Islands (Malvinas)	FK	54224
Faroe Islands	FO	54228
Fiji	FJ	54223
Finland	FI	54222
France	FR	54233
French Guiana	GF	54617
French Polynesia	PF	61217
French Southern Territories	TF	63217
Gabon	GA	54612
Gambia	GM	54626
Georgia	GE	54616
Germany	DE	53216
Ghana	GH	54621
Gibraltar	GI	54622
Greece	GR	54633
Greenland	GL	54625
Grenada	GD	54615
Guadeloupe	GP	54631
Guam	GU	54636
Guatemala	GT	54635
Guernsey	GG	54618
Guinea	GN	54627
Guinea-Bissau	GW	54638

Country	ISO code	Activation code
Guyana	GY	54642
Haiti	HT	55235
Heard Island and McDonald Islands	HM	55226
Holy See	VA	64212
Honduras	HN	55227
Hong Kong	HK	55224
Hungary	HU	55236
Iceland	IS	55634
India	IN	55627
Indonesia	ID	55615
Iran (Islamic Republic of)	IR	55633
Iraq	IQ	55632
Ireland	IE	55616
Isle of Man	IM	55626
Israel	IL	55625
Italy	IT	55635
Jamaica	JM	56226
Japan	JP	56231
Jersey	JE	56216
Jordan	JO	56228
Kazakhstan	KZ	56643
Kenya	KE	56616
Kiribati	KI	56622
Korea (Democratic People's Republic of)	KP	56631
Korea (Republic of)	KR	56633
Kuwait	KW	56638
Kyrgyzstan	KG	56618
Lao People's Democratic Republic	LA	57212
Latvia	LV	57237
Lebanon	LB	57213
Lesotho	LS	57234
Liberia	LR	57233

Country	ISO code	Activation code
Libya	LY	57242
Liechtenstein	LI	57222
Lithuania	LT	57235
Luxembourg	LU	57236
Macao	MO	57628
Macedonia (the former Yugoslav Republic of)	MK	57624
Madagascar	MG	57618
Malawi	MW	57638
Malaysia	MY	57642
Maldives	MV	57637
Mali	ML	57625
Malta	MT	57635
Marshall Islands	MH	57621
Martinique	MQ	57632
Mauritania	MR	57633
Mauritius	MU	57636
Mayotte	YT	65635
Mexico	MX	57641
Micronesia (Federated States of)	FM	54226
Moldova (Republic of)	MD	57615
Monaco	MC	57614
Mongolia	MN	57627
Montenegro	ME	57616
Montserrat	MS	57634
Morocco	MA	57612
Mozambique	MZ	57643
Myanmar	MM	57626
Namibia	NA	58212
Nauru	NR	58233
Nepal	NP	58231
Netherlands	NL	58225
New Caledonia	NC	58214

Country	ISO code	Activation code
New Zealand	NZ	58243
Nicaragua	NI	58222
Niger	NE	58216
Nigeria	NG	58218
Niue	NU	58236
Norfolk Island	NF	58217
Northern Mariana Islands	MP	57631
Norway	NO	58228
Oman	OM	58626
Pakistan	PK	61224
Palau	PW	61238
Palestine, State of	PS	61234
Panama	PA	61212
Papua New Guinea	PG	61218
Paraguay	PY	61242
Peru	PE	61216
Philippines	PH	61221
Pitcairn	PN	61227
Poland	PL	61225
Portugal	PT	61235
Puerto Rico	PR	61233
Qatar	QA	61612
Réunion	RE	62216
Romania	RO	62228
Russian Federation	RU	62236
Rwanda	RW	62238
Saint Barthélemy	BL	52225
Saint Helena, Ascension and Tristan da Cunha	SH	62621
Saint Kitts and Nevis	KN	56627
Saint Lucia	LC	57214
Saint Martin (French part)	MF	57617
Saint Pierre and Miquelon	PM	61226

Country	ISO code	Activation code
Saint Vincent and the Grenadines	VC	64214
Samoa	WS	64634
San Marino	SM	62626
Sao Tome and Principe	ST	62635
Saudi Arabia	SA	62612
Senegal	SN	62627
Serbia	RS	62234
Seychelles	SC	62614
Sierra Leone	SL	62625
Singapore	SG	62618
Sint Maarten (Dutch part)	SX	62641
Slovakia	SK	62624
Slovenia	SI	62622
Solomon Islands	SB	62613
Somalia	SO	62628
South Africa	ZA	66212
South Georgia and the South Sandwich Islands	GS	54634
South Sudan	SS	62634
Spain	ES	53634
Sri Lanka	LK	57224
Sudan	SD	62615
Suriname	SR	62633
Svalbard and Jan Mayen	SJ	62623
Swaziland	SZ	62643
Sweden	SE	62616
Switzerland	CH	52621
Syrian Arab Republic	SY	62642
Taiwan, Province of China[a]	TW	63238
Tajikistan	TJ	63223
Tanzania, United Republic of	TZ	63243
Thailand	TH	63221
Timor-Leste	TL	63225

Country	ISO code	Activation code
Togo	TG	63218
Tokelau	TK	63224
Tonga	TO	63228
Trinidad and Tobago	TT	63235
Tunisia	TN	63227
Turkey	TR	63233
Turkmenistan	TM	63226
Turks and Caicos Islands	TC	63214
Tuvalu	TV	63237
Uganda	UG	63618
Ukraine	UA	63612
United Arab Emirates	AE	51616
United Kingdom of Great Britain and Northern Ireland	GB	54613
United States of America	US	63634
United States Minor Outlying Islands	UM	63626
Uruguay	UY	63642
Uzbekistan	UZ	63643
Vanuatu	VU	64236
Venezuela (Bolivarian Republic of)	VE	64216
Viet Nam	VN	64227
Virgin Islands (British)	VG	64218
Virgin Islands (U.S.)	VI	64222
Wallis and Futuna	WF	64617
Western Sahara	EH	53621
Yemen	YE	65616
Zambia	ZM	66226
Zimbabwe	ZW	66238