

ATSC, DTMB, DVB-T/DVB-T2, and ISDB-T

DTV Status compares the worldwide digital broadcasting systems ATSC, DTMB, DVB-T/DVB-T2, and ISDB-T.

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1. Digital broadcasting systems for terrestrial television

For terrestrial broadcasting of digital TV programs four competing systems are used.

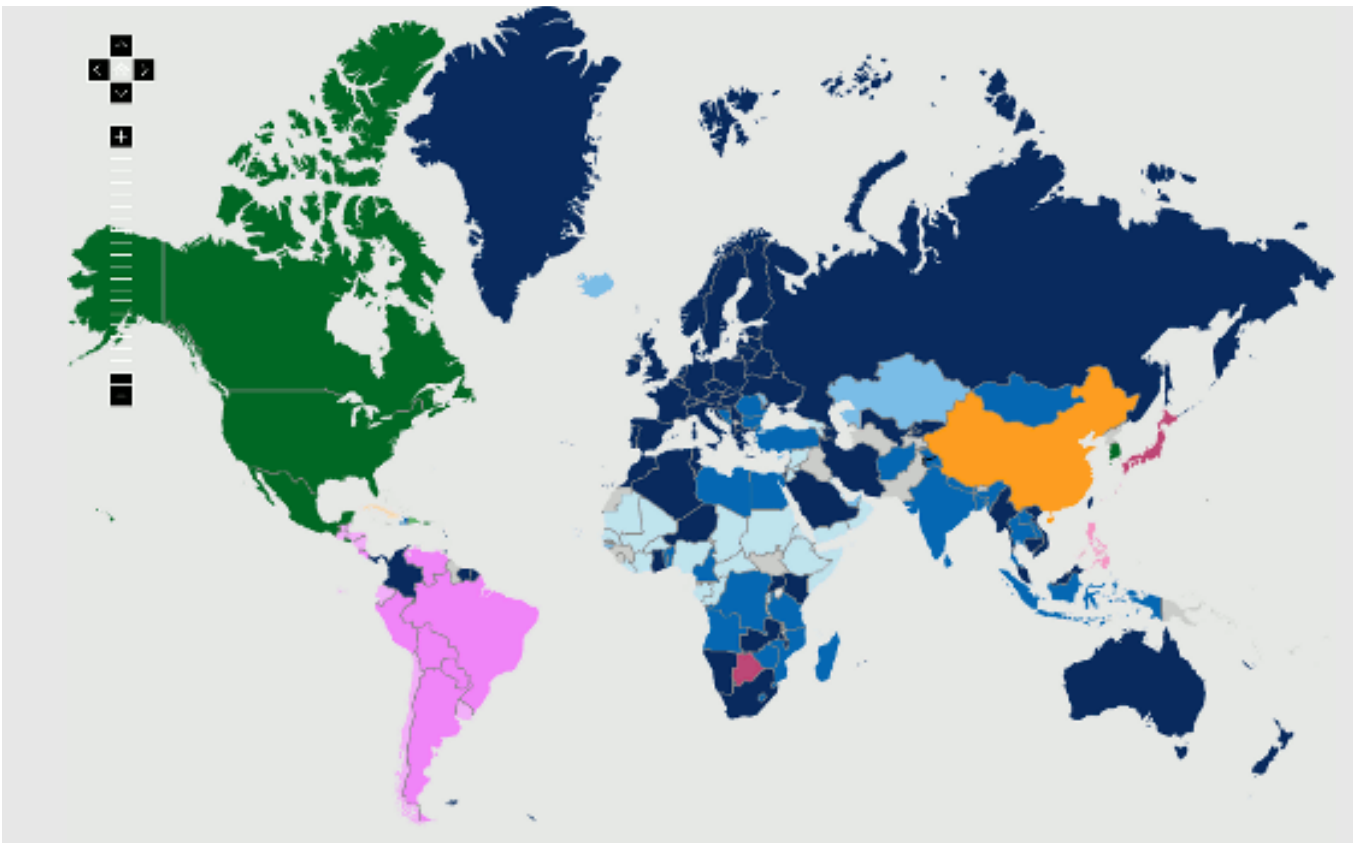
In Japan the ISDB-T (Terrestrial Integrated Services Digital Broadcasting) system is standardized by ARIB (Association of Radio Industries and Businesses).

SBTVD-T (Sistema Brasileiro de Televisão Digital Terrestre) is the digital terrestrial television system in Brazil. SBTVD-T (ISDB-Tb or ISDB-T International) is based on ISDB-T.

China (including Hong Kong and Macao) chose DMB-T/H (Digital Multimedia Broadcasting-Terrestrial/Handheld) as DTV standard. Now known as DTMB (Digital Terrestrial Multimedia Broadcast).

A system which uses an 8 VSB modulation (8 Level Vestigial Side Band) for terrestrial broadcasting, standardized by ATSC, has been realized in the USA.

The DVB Project has been realized in Europe by EBU (European Broadcasting Union), ETSI (European Telecommunications Standards Institute) and the CENELEC (European Committee for Electrotechnical Standardization). For terrestrial broadcasting the DVB-T (Digital Video Broadcasting Terrestrial) standard is used.



Brief overview	
System	Explanation
DVB-T/DVB-T2	Broadcasting via DVB-T/DVB-T2 is actively in use.
DVB-T/DVB-T2 adopted	Countries which have adopted the DVB-T/DVB-T2 system.
DVB-T/DVB-T2 trial broadcasts	Those countries undertake trials with DVB-T/DVB-T2.
RRC06	The according countries participate in the Regional Radiocommunications Conference 2006 of the ITU (International Telecommunication Union). It can be assumed that all countries taking part will ultimately use the DVB-T/DVB-T2 system when they move from analog to digital.
ATSC	Broadcasting via the ATSC system is actively in use.
ATSC adopted	Countries which have adopted the ATSC system.
ATSC trial broadcasts	Those countries undertake trials with ATSC.
ISDB-T	Broadcasting via ISDB-T is actively in use.
ISDB-T adopted	Countries which have adopted the ISDB-T system.
ISDB-T trial broadcasts	Those countries undertake trials with ISDB-T.
SBTVD-T	Broadcasting via SBTVD-T is actively in use.
SBTVD-T adopted	Countries which have adopted the SBTVD-T system.
DTMB	Broadcasting via DTMB is actively in use.
DTMB adopted	Countries which have adopted the DTMB system.
DTMB trial broadcasts	Those countries undertake trials with DTMB.
Commercial DVB-T services	No formal adoption of a DTT standard.
	Undecided countries.

The following overview of the various systems is additionally subdivided into continents. Please [report](#) hints for possible mistakes or actual changes.

Date format = YYYY/MM/DD_[X]

[T] = Date of starting trials

[A] = Date of a formal adoption of a DTT standard

[D] = Digital Switchover (DSO)

[L] = Launch of next upgrade of the DTT standard

ASO = Analog Switch-Off

Terrestrial transmission systems of digital television

1.1 Africa			
Countries/Territories	System status	T - A - D - L	ASO
Algeria	DVB-T	DVB-T:2009/07_D	2014
Angola	DVB-T2 adopted	DVB-T2:2010/11/25_A	
Benin	DVB-T adopted		
Botswana	ISDB-T	DVB-T2:2010/11/25_A ISDB-T:2013/02_A ISDB-T:2013/07/29_D	2015/06/17
Burkina Faso	RRC06		
Burundi	RRC06		

Cameroon	DVB-T2 adopted	DVB-T2:2012/11/20_A	
Cape Verde	DVB-T trial broadcasts	DVB-T:2013_D	2015/06
Central African Republic	RRC06		
Chad	RRC06		
Comoros	RRC06		
Congo, Democratic Republic of the	DVB-T2 adopted	DVB-T2:2010/11/25_A	
Congo, Republic of the Congo (Congo-Brazzaville)	RRC06		
Cote d'Ivoire (Ivory Coast)	RRC06		
Djibouti	RRC06		
Egypt	DVB-T adopted		
Equatorial Guinea			
Eritrea	RRC06		
Ethiopia	RRC06		
Gabon	RRC06		
Gambia	RRC06		
Ghana	DVB-T DVB-T2 adopted	DVB-T:2008_A DVB-T:2010_D DVB-T2:2011/09_A	2013
Guinea			
Guinea-Bissau	DVB-T trial broadcasts	DVB-T:2010/06_T	
Kenya	DVB-T DVB-T2	DVB-T:2009/12/09_D DVB-T2:2011/09/14_L	2015
Lesotho	DVB-T2 adopted	DVB-T2:2010/11/25_A	
Liberia	RRC06		
Libya	DVB-T adopted		
Madagascar	DVB-T2 adopted	DVB-T2:2010/11/25_A	
Malawi	DVB-T2	DVB-T2:2010/11/25_A	
Mali	RRC06		
Mauritania	RRC06		
Mauritius	DVB-T DVB-T2 adopted	DVB-T:2001_T DVB-T:1999_A DVB-T:2005/09/30_D DVB-T2:2010/11/25_A	2011
Mayotte	DVB-T	See France DVB-T:2010/11/30_D	2011/10/25
Morocco	DVB-T	DVB-T:2007/01_T DVB-T:2007/02_D	2015
Mozambique	DVB-T2 adopted	DVB-T2:2010/11/25_A DVB-T2:2013_D	
Namibia	DVB-T DVB-T2	DVB-T:2005/02/18_D DVB-T2:2012_L	2005
Niger	RRC06		
Nigeria	DVB-T DVB-T2	DVB-T:2010_D DVB-T2:2011/10/15_L	2015

Réunion	DVB-T	See France DVB-T:2010/11/30_D	2011/10/25
Rwanda	RRC06		
São Tomé and Príncipe			
Sahara, Democratic Arab Republic (Western Sahara)			
Saint Helena (Ascension and Tristan da Cunha)			
Senegal	RRC06		
Seychelles	DVB-T2 adopted	DVB-T2:2010/11/25_A	
Sierra Leone			
Somalia	RRC06		
South Africa	DVB-T DVB-T2	DVB-T:2000/02_T DVB-T:2009/03_D DVB-T2:2010/11/25_A DVB-T2:2012/09_L	2013/12
South Sudan			
Sudan	RRC06		
Swaziland	DVB-T2 adopted	DVB-T2:2010/11/25_A	
Tanzania (incl. Zanzibar)	DVB-T2	DVB-T2:2010/11/25_A DVB-T2:2012_D	2012/12/31
Togo	DVB-T2 adopted	DVB-T2:2012_D	
Tunisia	DVB-T	DVB-T:2001_T DVB-T:2009_D	2015
Uganda	DVB-T DVB-T2	DVB-T:2009_T DVB-T:2010_D DVB-T2:2011_L	2012/12
Zambia	DVB-T2	DVB-T2:2010/11/25_A DVB-T2:2011/07/01_D	
Zimbabwe	DVB-T2 adopted	DVB-T2:2010/11/25_A DVB-T2:2013_D	

1.2 Asia			
Countries/Territories	System status	T - A - D - L	ASO
Afghanistan	DVB-T2 adopted		
Bahrain	DVB-T	DVB-T:2009_D	
Bangladesh	DVB-T adopted		2015
Bhutan			
Brunei (Negara Brunei Darussalam)	DVB-T DVB-T2 adopted	DVB-T:2006/01_T DVB-T:2005/08/29_A DVB-T:2008/08_D DVB-T2:2012_A	2014
Cambodia	DVB-T	DVB-T:2007/05_A DVB-T:2012/09_D	2015
China, People's Republic of (incl. Tibet)	DTMB	DTMB:2005_T DTMB:2006/08/18_A DTMB:2008_D	2015-2018
East Timor (Timor-Leste)			

Hong Kong	DTMB	DTMB:2006/08/18_A DTMB:2007/12/31_D	2012
India (incl. Jammu and Kashmir)	DVB-T adopted	DVB-T:2000_T DVB-T:1999/07/08_A	2017
Indonesia (incl. Irian Jaya)	DVB-T2 adopted	2008/08_T DVB-T:2007/05_A DVB-T2:2012_A	
Iran	DVB-T	DVB-T:2006_T DVB-T:2001_A DVB-T:2009_D	
Iraq			
Japan	ISDB-T	ISDB-T:2003/12_D	2011/07/24
Jordan	RRC06		
Korea, North			
Korea, South	ATSC	ATSC:1997/11/21_A ATSC:2001_D	2012/12/31
Kuwait	RRC06		
Kyrgyzstan	DVB-T2	DVB-T2:2012/11/23_D	2015
Laos	DVB-T adopted	DVB-T:2007/05_A	2015
Lebanon	RRC06		
Macao (Macau)	DTMB adopted	DTMB:2006/08/18_A	
Malaysia	DVB-T DVB-T2 adopted	DVB-T:2006/09_T DVB-T:2005/08/29_A DVB-T:2010_D DVB-T2:2011/04_T DVB-T2:2012_A	2015
Maldives	ISDB-T adopted	ISDB-T:2011/10/19_A	
Mongolia	DVB-T2 adopted	DVB-T2:2011/11/22_A	2014/06/30
Myanmar	DVB-T	DVB-T:2005/08/29_A DVB-T:2005_D	
Nepal	DVB-T2 adopted		
Oman	RRC06		
Pakistan			
Palestinian territories			
Philippines	ISDB-T adopted	DVB-T:2007/01_T DVB-T:2006/11_A ISDB-T:2010/06/10_A	2015/12/31
Qatar	RRC06		
Saudi Arabia	DVB-T DVB-T2	DVB-T:2004_T DVB-T:2006/06/11_D DVB-T2:2013/03_L	
Singapore	DVB-T DVB-T2 trial broadcasts	DVB-T:2000/12_T DVB-T:1999_A DVB-T:2002_D DVB-T2:2011/09_T DVB-T2:2013_L	2017
Sri Lanka	DVB-T adopted DVB-T2 adopted	DVB-T:2008/01/23_T DVB-T:2009/08/27_A DVB-T:2011_D DVB-T2:2011_A	2017

Syria	RRC06		
Taiwan	DVB-T	DVB-T:2001_T DVB-T:2001_A DVB-T:2004/06_D	2010
Tajikistan			
Thailand	DVB-T adopted DVB-T2 adopted	DVB-T:2007/05_A DVB-T2:2011/01/25_T DVB-T2:2012/05/24_A	2015
Turkmenistan			
United Arab Emirates, UAE (incl. the Emirates Abu Dhabi and Dubai)	DVB-T trial broadcasts	DVB-T:2007_T	
Uzbekistan	DVB-T	DVB-T:2011_D	2015
Vietnam	DVB-T DVB-T2	DVB-T:2001_T DVB-T:2007/05_A DVB-T2:2011/11/11_L	2015
Yemen (incl. Socotra)	RRC06		

1.3 Australia and Oceania			
Countries/Territories	System status	T - A - D - L	ASO
Australia	DVB-T	DVB-T:1998_T DVB-T:2001_D	2013/12
Cook Islands (incl. Tokelau)			
Easter Island			
Fiji Islands			
French Polynesia (incl. Tahiti)	DVB-T	See France DVB-T:2010/11/30_D	2011/09/20
Guam			
Kiribati (Gilbert Islands, Phoenix Islands, Line Islands)			
Marshall Islands			
Micronesia (Caroline Islands, Mariana Islands)			
Nauru			
New Caledonia	DVB-T	See France DVB-T:2010/11/30_D	2011/09/27
New Zealand	DVB-T DVB-T2	DVB-T:2008/04/02_D DVB-T2:2012_L	2012/09- 2013/12/01
Niue			
Norfolk Island			
Northern Mariana Islands			
Palau			
Papua New Guinea			
Pitcairn			
Samoa			
Samoa, American			
Solomon Islands			
Tonga			
Tuvalu			
Vanuatu			
Wallis and Futuna Islands	DVB-T	See France	2011/09/27

		DVB-T:2010/11/30_D	
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1.4 Europe			
Countries/Territories	System status	T - A - D - L	ASO
Albania	DVB-T	DVB-T:2007_T DVB-T:2007/05_A DVB-T:2004/07/15_D	
Andorra	DVB-T	DVB-T:2005/08_D	2007/09/25
Armenia	RRC06		2015
Austria	DVB-T DVB-T2 adopted	DVB-T:2004_T DVB-T:2001_A DVB-T:2006/10/26_D DVB-T2:2010/04/12_T DVB-T2:2012_L	2007- 2011/06/06
Azerbaijan	DVB-T DVB-T2 adopted	DVB-T:2004/09_T DVB-T:2009_D DVB-T2:2012_A	2015
Belarus	DVB-T DVB-T2 trial broadcasts	DVB-T:2004/12/28_T DVB-T:2005/07_D DVB-T2:2011/05_T	2015
Belgium	DVB-T	DVB-T:2002_T DVB-T:2002_A DVB-T:2003/07_D DVB-T2:2013_L	2011/11
Bosnia and Herzegovina	DVB-T adopted		
Bulgaria	DVB-T adopted		2013/09
Croatia	DVB-T DVB-T2	DVB-T:2005/06_T DVB-T:2007_D DVB-T2:2012/11_L	2010/10/05
Cyprus	DVB-T trial broadcasts		2011
Czech Republic	DVB-T DVB-T2 adopted	DVB-T:2000_T DVB-T:2005/10/21_D DVB-T2:2010/05_T	2011/11/11
Denmark	DVB-T DVB-T2 adopted	DVB-T:1999_T DVB-T:2000/12_A DVB-T:2006/03/31_D DVB-T2:2010/06_T	2009/10/31
Estonia	DVB-T DVB-T2 trial broadcasts	DVB-T:2004/05/07_T DVB-T:2006/12/15_D DVB-T2:2012/12_T	2010/06
Faroe Islands	DVB-T	DVB-T:2002_T DVB-T:2002/12_D	2002/12
Finland (incl. Åland Islands)	DVB-T DVB-T2	DVB-T:1999_T DVB-T:2001/08_D DVB-T2:2011/01/01_L	2007/09/01
France	DVB-T DVB-T2 trial broadcasts	DVB-T:2005/01/17_T DVB-T:2000/08_A DVB-T:2005/03/31_D DVB-T2:2011/10/20_T DVB-T2:2015_L	2009/11- 2011/11/30
Georgia	RRC06		
Germany	DVB-T	DVB-T:2002_A	2008/11/25

	DVB-T2 trial broadcasts	DVB-T:2002/11_D DVB-T2:2009_T DVB-T2:2017_L	
Gibraltar	DVB-T DVB-T2	See United Kingdom DVB-T2:2012/12/29_D	2013/01/02
Greece	DVB-T	DVB-T:2006/01/16_T DVB-T:2008/11/01_D	2012
Hungary	DVB-T	DVB-T:1999_T DVB-T:2004_A DVB-T:2008/12/01_D	2011/12/31- 2013/10/31
Iceland	DVB-T trial broadcasts		
Ireland, Republic of	DVB-T	DVB-T:2006_T DVB-T:2001/03_A DVB-T:2010/10/29_D	2012/10/24
Israel	DVB-T	DVB-T:2004_T DVB-T:2009/08/02_D	2011/03/30
Italy	DVB-T DVB-T2	DVB-T:1998_T DVB-T:2001_A DVB-T:2003/12_D DVB-T2:2010/06_L	2008- 2012/07/04
Kazakhstan	DVB-T2 trial broadcasts	DVB-T2:2011/03_T	
Kosovo			
Latvia	DVB-T	DVB-T:2002_T DVB-T:2000_A DVB-T:2009/08_D	2010/04/01- 2010/06/01
Liechtenstein	RRC06		
Lithuania	DVB-T	DVB-T:2003_T DVB-T:2006/06_D	2012/10/29
Luxembourg	DVB-T	DVB-T:2002/07/01_T DVB-T:2006/04_D	2006
Macedonia	DVB-T	DVB-T:2004/12/14_T DVB-T:2009/09_D	2013/06/01
Malta	DVB-T	DVB-T:2004_T DVB-T:2005/07/01_D	2010
Moldova (Republic of Moldova)	DVB-T trial broadcasts	DVB-T:2003/09_T	2015
Monaco	DVB-T		
Montenegro	DVB-T2 adopted	DVB-T:2008_T DVB-T2:2011/03/09_A DVB-T2:2013_D	2012/12/31
Netherlands (Holland) (incl. Bonaire, Sint Eustatius (Statia, Statius) and Saba)	DVB-T	DVB-T:1998_T DVB-T:1999_A DVB-T:2003/04_D	2006/12/11
Norway (incl. Svalbard and Jan Mayen)	DVB-T	DVB-T:2000/06_T DVB-T:2002_A DVB-T:2007/09/01_D	2008/03/04- 2009
Poland	DVB-T DVB-T2 trial broadcasts	DVB-T:2001/11_T DVB-T:2003_A DVB-T:2010/09/30_D DVB-T2:2012/12/21_T	2012/11/07- 2013/07/31
Portugal (incl. Azores and Madeira)	DVB-T	DVB-T:1998_T DVB-T:2000_A	2012/01/12- 2012/04/26

		DVB-T:2009/04/29_D	
Romania	DVB-T adopted	DVB-T:2005/12_T DVB-T:2000_A	2013
Russia	DVB-T DVB-T2	DVB-T:2005_T DVB-T:2003/12_A DVB-T:2008_D DVB-T2:2012/03/01_L	2015
San Marino	RRC06		
Serbia	DVB-T2	DVB-T:2005/05/10_T DVB-T:2011/03_A DVB-T2:2012/03/21_D	2012/04/04
Slovakia	DVB-T DVB-T2 adopted	DVB-T:1999_T DVB-T:2001_A DVB-T:2010/01_D DVB-T2:2011/08/31_T	2011/03/09- 2011/08
Slovenia	DVB-T	DVB-T:2001/09_T DVB-T:2007_D	2010/12/01
Spain (incl. Canary Islands)	DVB-T DVB-T2 trial broadcasts	DVB-T:1997_T DVB-T:1998/10_A DVB-T:2000/05_D DVB-T2:2011/11_T	2010/04/03
Sweden	DVB-T DVB-T2	DVB-T:1999/04/01_T DVB-T:1997/05_A DVB-T:1999/09_D DVB-T2:2011/11/01_L	2007/10/15
Switzerland	DVB-T DVB-T2 trial broadcasts	DVB-T:2000_T DVB-T:2003_D	2008/02/25
Turkey	DVB-T adopted DVB-T2 adopted	DVB-T:2006/02/03_T DVB-T:2004/09_A DVB-T:2013/11_D DVB-T2:2012_A DVB-T2:2013/11_D	2015/03/03
Ukraine	DVB-T DVB-T2	DVB-T:2002_T DVB-T:2006/01_A DVB-T:2006/06_D DVB-T2:2011_T DVB-T2:2011/10_L	2014-2015
United Kingdom (Great Britain [England, Scotland, Wales] and Northern Ireland) with Channel Islands (Guernsey, Jersey) and Isle of Man	DVB-T DVB-T2	DVB-T:1996_T DVB-T:1996/07_A DVB-T:1998/11_D DVB-T2:2010_L	2007- 2012/12/31

1.5 North America			
Countries/Territories	System status	T - A - D - L	ASO
Anguilla			
Antigua and Barbuda			
Aruba			
Bahamas			
Barbados			
Belize	SBTV-D-T adopted	SBTV-D-T:2010_A	
Bermuda Islands	DVB-T	DVB-T:2007/07_D	

British Virgin Islands	DVB-T	See United Kingdom	
Canada	ATSC	ATSC:1997/11/08_A ATSC:2003_D	2011
Cayman Islands			
Costa Rica	SBTVD-T	SBTVD-T:2010/04/29_A SBTVD-T:2012/03_D	2018
Cuba	DTMB trial broadcasts	DTMB:2013/06_T DTMB:2014_D	2021
Curaçao	DVB-T	DVB-T:2007/11_D	
Dominica			
Dominican Republic	ATSC adopted	2009_T ATSC:2010/08/10_A	2015
El Salvador	ATSC	ATSC:2009/04/22_A ATSC:2010/02_D	2012-2014
Greenland	DVB-T	See Denmark	
Grenada			
Guadeloupe	DVB-T	See France DVB-T:2010/11/30_D	2011/11/29
Guatemala	SBTVD-T adopted	ATSC:2006_D SBTVD-T:2013/05/31_A	2015
Haiti	DVB-T2 adopted	DVB-T2:2012_A	
Honduras	SBTVD-T adopted	ATSC:2007/01/16_A SBTVD-T:2013/09_A	2017-2022
Jamaica			
Martinique	DVB-T	See France DVB-T:2010/11/30_D	2011/11/29
Mexico	ATSC	ATSC:2004/07/02_A ATSC:2006_D	2015
Montserrat			
Nicaragua	SBTVD-T adopted	SBTVD-T:2010/08/17_A	
Panama	DVB-T	DVB-T:2009/05/12_A DVB-T:2009/12/10_D	
Puerto Rico	ATSC	ATSC:1996/12/24_A	
Saint Kitts and Nevis			
Saint Lucia			
Saint Pierre and Miquelon	DVB-T	See France DVB-T:2010/11/30_D	2011/09/27
Saint Vincent and the Grenadines			
Sint Maarten [Saint-Martin]	DVB-T	DVB-T:2007/11_D	
Trinidad and Tobago	DVB-T	DVB-T:2009/10_D	
Turks and Caicos Islands			
United States of America, USA (incl. Alaska, Hawaiian Islands, Midway Islands and Wake Island)	ATSC	ATSC:1996/12/24_A ATSC:2000_D DVB-T2:2013/02_T	2009/02/17- 2009/06/12
Virgin Islands of the United States	ATSC	See United States of America, USA	

1.6 South America			
Countries/Territories	System status	T - A - D - L	ASO
Argentina	SBTV-D-T	SBTV-D-T:2009/08/28_A SBTV-D-T:2010/04/28_D	2019
Bolivia	SBTV-D-T	SBTV-D-T:2010/07/05_A SBTV-D-T:2012/05/10_D	2024
Brazil	SBTV-D-T	SBTV-D-T:2006/06/29_A SBTV-D-T:2007/12/02_D	2016
Chile	SBTV-D-T adopted	SBTV-D-T:2009/09/14_A SBTV-D-T:2010_D	2017
Colombia	DVB-T DVB-T2 adopted	DVB-T:2008/08/28_A DVB-T:2010/01/29_D DVB-T2:2011/12/20_A DVB-T2:2013_L	2017-2020
Ecuador	SBTV-D-T adopted	SBTV-D-T:2010/03/26_A	
Falkland Islands	DVB-T	See United Kingdom	
Guiana, French	DVB-T	See France DVB-T:2010/11/30_D	2011/11/29
Guyana			
Paraguay	SBTV-D-T	SBTV-D-T:2010/06_A SBTV-D-T:2011/08/15_D	2023
Peru	SBTV-D-T	2007/10_T SBTV-D-T:2009/04/23_A SBTV-D-T:2010/03/30_D	
South Georgia and the South Sandwich Islands	DVB-T	See United Kingdom	
Suriname	DVB-T2	DVB-T2:2012_D	
Uruguay	SBTV-D-T adopted	DVB-T:2007/08/27_A SBTV-D-T:2010/12/27_A SBTV-D-T:2011-2012_D	2014-2015
Venezuela	SBTV-D-T	DVB-T:2007/06_T SBTV-D-T:2009/10/06_A SBTV-D-T:2011/06_D	2018