

## WORLD TELEVISION GUIDE

The table below shows the type of television broadcast standard used in most countries around the world.

There are currently 3 main television standards used throughout the world:

**NTSC** - National Television Standards Committee. The oldest existing standard, developed in the USA. First used in 1954. Consists of 525 horizontal lines of display and 60 vertical lines. Sometimes irreverently referred to as "*Never Twice the Same Color.*" Only one type exists, known as NTSC M.

**SECAM** - Système Électronique pour Couleur avec Mémoire. Developed in France. First used in 1967. A 625-line vertical, 50-line horizontal display. Sometimes referred to by wags as

*"Something Essentially Contrary to the American Method" or SEcond Colour Always Magenta!"*

Different types use different video bandwidth and audio carrier specs. Types B and D usually used for VHF; types G, H, and K for UHF; types I, N, M, K1 and L for both VHF/UHF. Different types are generally not compatible.

**PAL** - Phase Alternating Line. Developed by German engineer Walter Bruch and the German electronic corporation Telefunken. Walter Bruch patented his invention 1963 and the first commercial application of the PAL system was in August 1967. Also a 625/50-line display and variant of NTSC. Proponents call it "*Perfection At Last.*" Due to the cost of the enormous circuit complexity, critics often refer to it as "*Pay A Lot.*" Different types use different video bandwidth and audio carrier specs. Common types are B, G and H; less common types include D, I, K, N and M. The different types are generally not compatible.

### Television Standards by Country

COUNTRY	SIGNAL TYPE
AFGHANISTAN	PAL B, SECAM B
ALBANIA	PAL B/G
ALGERIA	PAL B/G
ANGOLA	PAL I
ANTARCTICA	NTSC M
ANTIGUA & BARBUDA	NTSC M
ARGENTINA	PAL N
ARMENIA	SECAM D/K
ARUBA	NTSC M
AUSTRALIA	PAL B/G
AUSTRIA	PAL B/G
AZERBAIJAN	SECAM D/K
AZORES	PAL B
BAHAMAS	NTSC M
BAHRAIN	PAL B/G
BANGLADESH	PAL B

BARBADOS	NTSC M
BELARUS	SECAM D/K
BELGIUM	PAL B/H
BELGIUM (ARMED FORCES NETWORK)	NTSC M
BELIZE	NTSC M
BENIN	SECAM K
BERMUDA	NTSC M
BOLIVIA	NTSC M
BOSNIA/HERZEGOVINA	PAL B/H
BOTSWANA	SECAM K, PAL I
BRAZIL	PAL M
BRITISH INDIAN OCEAN TERRITORY (AF DIEGO GARCIA TV - AFRTS)	NTSC M
BRUNEI DARUSSALAM	PAL B
BULGARIA	PAL
BURKINA FASO	SECAM K
BURUNDI	SECAM K
CAMBODIA	PAL B/G, NTSC M
CAMEROON	PAL B/G
CANADA	NTSC M
CANARY ISLANDS	PAL B/G
CENTRAL AFRICAN REPUBLIC	SECAM K
CHAD	SECAM D
CHILE	NTSC M
CHINA (PEOPLE'S REPUBLIC)	PAL D
COLOMBIA	NTSC M
CONGO (PEOPLE'S REPUBLIC)	SECAM K
CONGO, DEM. REP. (ZAIRE)	SECAM K
COOK ISLANDS	PAL B
COSTA RICA	NTSC M
COTE D'IVOIRE (IVORY COAST)	SECAM K/D
CROATIA	PAL B/H

CUBA	NTSC M
CYPRUS	PAL B/G
CZECH REPUBLIC	PAL B/G (cable), PAL D/K (broadcast)
DENMARK	PAL B/G
DIEGO GARCIA	NTSC M
DJIBOUTI	SECAM K
DOMINICA	NTSC M
DOMINICAN REPUBLIC	NTSC M
EAST TIMOR	PAL B
EASTER ISLAND	PAL B
ECUADOR	NTSC M
EGYPT	PAL B/G, SECAM B/G
EL SALVADOR	NTSC M
EQUATORIAL GUINEA	SECAM B
ESTONIA	PAL B/G
ETHIOPIA	PAL B
FALKLAND ISLANDS (LAS MALVINAS)	PAL I
FIJI	NTSC M
FINLAND	PAL B/G
FRANCE	SECAM L
FRANCE (FRENCH FORCES TV)	SECAM G
GABON	SECAM K
GALAPAGOS ISLANDS	NTSC M
GAMBIA	PAL B
GEORGIA	SECAM D/K
GERMANY	PAL B/G
GERMANY (ARMED FORCES TV GERMANY)	NTSC M
GHANA	PAL B/G
GIBRALTAR	PAL B/G
GREECE	PAL B/G
GREENLAND	PAL B
GRENADA	NTSC M

GUAM	NTSC M
GUADELOUPE	SECAM K
GUATEMALA	NTSC M
GUIANA (FRENCH)	SECAM K
GUINEA	PAL K
GUYANA	NTSC M
HAITI	SECAM
HONDURAS	NTSC M
HONG KONG	PAL I
HUNGARY	PAL K/K
ICELAND	PAL B/G
INDIA	PAL B
INDONESIA	PAL B
IRAN	PAL B/G
IRAQ	PAL
IRELAND, REPUBLIC OF	PAL I
ISLE OF MAN	PAL
ISRAEL	PAL B/G
ITALY	PAL B/G
JAMAICA	NTSC M
JAPAN	NTSC M
JOHNSTONE ISLAND	NTSC M
JORDAN	PAL B/G
KAZAKHSTAN	SECAM D/K
KENYA	PAL B/G
KOREA (NORTH)	SECAM D, PAL D/K
KOREA (SOUTH)	NTSC M
KUWAIT	PAL B/G
KYRGYZ REPUBLIC	SECAM D/K
LAOS	PAL B

LATVIA	PAL B/G, SECAM D/K
LEBANON	PAL B/G
LESOTHO	PAL K
LIBERIA	PAL B/H
LIBYA	PAL B/G
LIECHTENSTEIN	PAL B/G
LITHUANIA	PAL B/G, SECAM D/K
LUXEMBOURG	PAL B/G, SECAM L
MACAU	PAL I
MACEDONIA	PAL B/H
MADAGASCAR	SECAM K
MADEIRA	PAL B
MALAYSIA	PAL B
MALDIVES	PAL B
MALI	SECAM K
MALTA	PAL B
MARSHALL ISLANDS	NTSC M
MARTINIQUE	SECAM K
MAURITANIA	SECAM B
MAURITIUS	SECAM B
MAYOTTE	SECAM K
MEXICO	NTSC M
MICRONESIA	NTSC M
MIDWAY ISLAND	NTSC M
MOLDOVA (MOLDAVIA)	SECAM D/K
MONACO	SECAM L, PAL G
MONGOLIA	SECAM D
MONTSERRAT	NTSC M
MOROCCO	SECAM B
MOZAMBIQUE	PAL B
MYANMAR (BURMA)	NTSC M
NAMIBIA	PAL I
NEPAL	B
NETHERLANDS	PAL B/G

NETHERLANDS (ARMED FORCES NETWORK)	NTSC M
NETHERLANDS ANTILLES	NTSC M
NEW CALEDONIA	SECAM K
NEW ZEALAND	PAL B/G
NICARAGUA	NTSC M
NIGER	SECAM K
NIGERIA	PAL B/G
NORFOLK ISLAND	PAL B
NORTH MARIANA ISLANDS	NTSC M
NORWAY	PAL B/G
OMAN	PAL B/G
PAKISTAN	PAL B
PALAU	NTSC M
PANAMA	NTSC M
PAPUA NEW GUINEA	PAL B/G
PARAGUAY	PAL N
PERU	NTSC M
PHILIPPINES	NTSC M
POLAND	PAL D/K
POLYNESIA (FRENCH)	SECAM K
PORTUGAL	PAL B/G
PUERTO RICO	NTSC M
QATAR	PAL B
REUNION	SECAM K
ROMANIA	PAL D/G
RUSSIA	SECAM D/K
ST. KITTS & NEVIS	NTSC M
ST. LUCIA	NTSC M
ST. PIERRE ET MIQUELON	SECAM K
ST. VINCENT	NTSC M
SAO TOMÉ E PRINCIPE	PAL B/G

SAMOA, AMERICAN	NTSC
SAUDI ARABIA	SECAM B/G, PAL B
SAMOA	NTSC M
SENEGAL	SECAM K
SEYCHELLES	PAL B/G
SIERRA LEONE	PAL B/G
SINGAPORE	PAL B/G
SLOVAKIA	PAL B/G
SLOVENIA	PAL B/H
SOMALIA	PAL B/G
SOUTH AFRICA	PAL I
SPAIN	PAL B/G
SRI LANKA	PAL
SUDAN	PAL B
SURINAME	NTSC M
SWAZILAND	PAL B/G
SWEDEN	PAL B/G
SWITZERLAND	PAL B/G
SYRIA	SECAM B, PAL G
TAHITI	SECAM
TAIWAN	NTSC
TAJIKISTAN	SECAM D/K
TANZANIA	PAL B
THAILAND	PAL B/M
TOGO	SECAM K
TRINIDAD & TOBAGO	NTSC M
TUNISIA	SECAM B/G
TURKEY	PAL B
TURKMENISTAN	SECAM D/K
TURKS & CAICOS ISLANDS	NTSC M
UGANDA	PAL B/G

UKRAINE	SECAM D/K
URUGUAY	PAL N
UNITED ARAB EMIRATES	PAL B/G
UNITED STATES	NTSC M
UNITED KINGDOM	PAL I
UZBEKISTAN	SECAM D/K
VENEZUELA	NTSC M
VIETNAM	NTSC M,SECAM D
VIRGIN ISLANDS (US & BRITISH)	NTSC M
WALLIS & FUTUNA	SECAM K
YEMEN	PAL B/NTSC M
YUGOSLAVIA	PAL B/G
ZAMBIA	PAL B/G
ZIMBABWE	PAL B/G

If you would like more information on international video and television standards, the excellent site at <http://www.ee.surrey.ac.uk/Contrib/WorldTV/> is highly recommended, as well as another one at <http://www.tenlab.com/worldtv.htm>