

International TV Picture Format Colour System Combinations

The Main Video Signal Standards

**Brought to you by
Instructional Media Centre
Media Production Services**

The Main Video Signal Standards

Name	Frame/Field Rate TV Standard	Aspect Ratio Colour System	Scan Lines Subcarrier Freq
NTSC	29.97/59.94 EIA	4:3 NTSC	525 3.58MHz
PAL-M	29.97/59.94 EIA	4:3 PAL	525 3.58MHz
SECAM-M	29.97/59.94 EIA	4:3 SECAM	525 ?.??MHz
PAL	25/50 CCIR	4:3 PAL	625 4.43MHz
SECAM	25/50 CCIR	4:3 SECAM	625 4.25/4.40MHz
D-MAC	25/50 D-MAC	4:3 or 16:9 D-MAC	625 N/A
PALplus	25/50 CCIR	16:9 PAL	625 4.43MHz
HiVision	60/120 HiVision	16:9 MUSE	1125 Unknown

Technical Specifications

Code	Frames	Scan Lines	Freq Band	Sound Offset	Vision Modulation	In Use
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Terrestrial Transmission Standards

A	25	405	VHF	-3.5MHz	Pos	No
B	25	625	VHF	+5.5MHz	Neg	Yes
C	25	625	VHF	+5.5MHz	Pos	Yes
D	25	625	VHF	+6.6MHz	Neg	Yes
E	25	819	VHF	+11MHz	Neg	No
F	25	819	VHF	+5.5MHz	Pos	No
G	25	625	UHF	+5.5MHz	Neg	Yes
H	25	625	UHF	+5.5MHz	Neg	Yes
I	25	625	UHF	+6.0MHz	Neg	Yes
K	25	625	UHF	+6.5MHz	Neg	Yes
KI	25	625	UHF	+6.5MHz	Neg	Yes
L	25	625	UHF	+6.5MHz	Pos	Yes
M	30	525	VHF/UHF	+4.5MHz	Neg	Yes
N	25	625	VHF/UHF	+4.5MHz	Neg	Yes

Satellite Transmission Standards

Ku-Band	Any	Any	~11GHz	+6.50MHz	Neg	Yes
C-Band	Any	Any	~4GHz	+6.50MHz	Pos	Yes

Colour and Broadcasting Systems

Country	TV	Colour	Stereo	Subtitles
Albania	B/G	PAL		
Argentina	N	PAL-N		
Australia	B/G	PAL	FM-FM	Teletext
Austria	B/G	PAL	FM-FM	Teletext
Azores(Port)	B	PAL		
Bahamas	M	NTSC		
Bahrain	B	PAL		
Barbados	N	NTSC		
Belgium	B/G	PAL	Nicam	Teletext
Bermuda	M	NTSC		
Brazil	M	PAL-M	MTS	CC
Bulgaria	D	SECAM		
Canada	M	NTSC		
Canary Is.	B	PAL		
China	D	PAL		

Country	TV	Colour	Stereo	Subtitles
Colombia	N	NTSC		
Cyprus	B	PAL		
Czechoslovakia	D/K	SECAM/PAL		
Denmark	B	PAL	Nicam	Teletext
Egypt	B	SECAM		
Faroe Islands(DK)	B	PAL		
Finland	B/G	PAL	Nicam	Teletext
France	E/L	SECAM		Antiope
Gambia	I	PAL		
Germany	B/G	PAL	FM-FM	Teletext
Germany(East)	B/G	SECAM/PAL		
Gibraltar	B	PAL		
Greece	B/H	SECAM		
Hong Kong	I	PAL	Nicam	
Hungary	D/K	SECAM		
Iceland	B	PAL		
India	B	PAL		

Country	TV	Colour	Stereo	Subtitles
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Indonesia	B	PAL		
Iran	H	SECAM		
Ireland	I	PAL	Nicam	Teletext
Israel	B/G	PAL		
Italy	B/G	PAL	FM/FM	Teletext
Jamaica	M	SECAM		
Japan	M	NTSC	MTS	
Jordan	B	PAL		
Kenya	B	PAL		
Luxembourg	B/G	PAL		Teletext
Madeira	B	PAL		
Madagascar	B	SECAM		
Malaysia	B	PAL		
Malta	B/G	PAL		
Mauritius	B	SECAM		
Mexico	M	NTSC	MTS	CC
Monaco	L/G	SECAM/PAL		

Country	TV	Colour	Stereo	Subtitles
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Morocco	B	SECAM		
Netherlands	B/G	PAL	FM/FM	Teletext
New Zealand	B/G	PAL	Nicam	Teletext
North Korea	D/K?	SECAM		
Norway	B/G	PAL	Nicam	
Pakistan	B	PAL		
Paraguay	N	PAL		
Peru	M	NTSC		
Philippines	M	NTSC		
Poland	D/K	PAL		Teletext
Portugal	B/G	PAL	Nicam	Teletext
Romania	G	PAL		
Russia	D/K	SECAM		
Saudi Arabia	B	SECAM		
Seychelles	I	PAL		
Singapore	B	PAL		
South Africa	I	PAL		

Country	TV	Colour	Stereo	Subtitles
South Korea	N	NTSC		
Spain	B/G	PAL	Nicam	
Sri Lanka	B/G	PAL		
Sweden	B/G	PAL	Nicam	Teletext
Switzerland	B/G	PAL	FM/FM	Teletext
Tahiti	KI	SECAM		
Taiwan	M	NTSC		
Thailand	B	PAL		
Trinidad	M	NTSC		
Tunisia	B	SECAM		
Turkey	B	PAL		Teletext
United Arab Em.	B/G	PAL		
United Kingdom	I	PAL	Nicam	Teletext
Uruguay	N	PAL		
USA	M	NTSC	MTS	CC
Venezuela	M	NTSC		
Yugoslavia	B/H	PAL		
Zimbabwe	B	PAL		