

COLOR	PAL-B,G,H	SECAM-B,G,H	NTSC-M	PAL-M	HDTV
Lines / riadkov	625	625	525	525	1080
Horizontal Frequency	15.625 KHz	15.625 KHz	15.734 KHz	15.750 KHz	
Vertical Frequency	50 Hz	50 Hz	60 Hz	60 Hz	
Color Sub Carrier Frequency	4.433618 MHz		3.579545 MHz	3.575611 MHz	
Video bandwidth / sirka pasma	5.0 MHz	5.0 MHz	4.2 MHz	4.2 MHz	8 MHz
Sound Carrier / posun zvuku	5.5 MHz	5.5 MHz	4.5 MHz	4.5 MHz	
Aspekt ratio / pomer stran	4/3	4/3	4/3	4/3	16/9

**SECAM** (Sequential Couleur Avec Memoire or Sequential Colour with Memory)  
**PAL** (Phase Alternating Line)  
**NTSC** (National Television System Committee)  
**HDTV** (High Definition TeleVision)

**VIDEO**

**NICAM** 728 kbit/s (Near-Instantaneously Companded Audio Multiplex)  
**MTS** (  
**FM-FM** (IRT 2xF3E)  
**BTSC** (1xF3E)

**AUDIO**

**Formaty papiera**

SIZE	šírka x výška mm	šírka x výška inch
A0	841 x 1,189	33.11 x 46.81
A1	594 x 841	23.39 x 33.11
A2	420 x 594	16.54 x 23.39
A3	297 x 420	11.69 x 16.54
A4	210 x 297	8.27 x 11.69
A5	148 x 210	5.83 x 8.27
A6	105 x 148	4.13 x 5.83
A7	74 x 105	2.91 x 4.13
A8	52 x 74	2.05 x 2.91
A9	37 x 52	1.46 x 2.05
A10	26 x 37	1.02 x 1.46
B0	1,028 x 1,456	40.48 x 57.32
B1	728 x 1,028	28.66 x 40.48
B2	514 x 728	20.24 x 28.66
B3	364 x 514	14.33 x 20.24
B4	257 x 364	10.12 x 14.33
B5	182 x 257	7.17 x 10.12
B6	128 x 182	5.04 x 7.17
B7	88 x 125	3.46 x 5.04
B8	62 x 88	2.44 x 3.46
B9	44 x 62	1.73 x 2.44
B10	31 x 44	1.22 x 1.73
C0	917 x 1297	36.10 x 51.06
C1	648 x 917	25.51 x 36.10
C2	458 x 648	18.03 x 25.51
C3	324 x 458	12.76 x 18.03
C4	229 x 324	9.02 x 12.76
C5	162 x 229	6.38 x 9.02
C6	114 x 162	4.49 x 6.38
C7	81 x 114	3.19 x 4.49
C8	57 x 81	2.24 x 3.19
C9	40 x 57	1.57 x 2.24
C10	28 x 40	1.10 x 1.57
E4	280 x 400	11.02 x 15.75

1 mm = 0,0394 in = 2,835 pt  
1 in = 25,40 mm = 72,00 pt  
1 pt = 0,35 mm = 0,014 inch

**PMR 446 MHz FM**

1	446.006,25
2	446.018,75
3	446.031,25
4	446.043,75
5	446.056,25
6	446.068,75
7	446.081,25
8	446.093,75

**Weather Satellite**

137100 kHz FM 30KHz APT družica NOAA19  
137500 kHz FM 30KHz APT družica NOAA17  
137620 kHz FM 30KHz APT družica NOAA15  
137912.5 kHz FM 30KHz APT družica NOAA18

1 km/h = 0.277 m/s = 0.62 mph = 0.91 ft/sec  
1 mph = 0.447 m/s = 1.609 km/h = 1.47 ft/sec

RA0	860 x 1220
RA1	610 x 860
RA2	430 x 610
RA3	305 x 430
RA4	215 x 305
SRA0	900 x 1280
SRA1	640 x 900
SRA2	450 x 640
SRA3	320 x 450
SRA4	225 x 320
DL	110 x 220
4A0	1682 x 2378
2A0	1189 x 1682

**ACARS AM AERO MHz**  
131.725 Primary Channel Europe aero  
131.525 Tertriary Channel Europe aero

**HF USB:** 6712, 8834, 8942, 8977, 11384 kHz

fahrenheit = (celsius \* 1.8) + 32  
celsius = (fahrenheit - 32) / 1.8  
kelvin = celsius + 273.15  
kelvin = (fahrenheit + 459.67) / 1.8

Channel Number	SHIP	COAST	VHF FM MARINE RADIO CHENNELS AND FREQUENCIES
1	156.050	160.650	Port Operations and Commercial, VTS.
2	156.100	160.700	
3	156.150	160.750	
4	156.200	160.800	
5	156.250	160.850	Port Operations or VTS
6	156.300	156.300	Intership Safety
7	156.350	160.950	Intership Safety
8	156.400		Commercial (Intership only)
9	156.450		Boater Calling. Commercial and Non-Commercial.
10	156.500		Commercial
11	156.550		Commercial. VTS in selected areas.
12	156.600		Port Operations. VTS in selected areas.
13	156.650		Intership Navigation Safety (Bridge-to-bridge). Ships >20m length maintain a listening watch on this channel in US
14	156.700		Port Operations. VTS in selected areas.
15	156.750		Environmental (Receive only). Used by Class C EPIRBs.
16	156.800		International Distress, Safety and Calling.
17	156.850		State Control
18	156.900	161.500	Commercial
19	156.950	161.550	Commercial
20	157.000	161.600	Port Operations (duplex)
21	157.050	161.650	
22	157.100	161.700	Broadcasts announced on channel 16.
23	157.150	161.750	
24	157.200	161.800	Public Correspondence (Marine Operator)
25	157.250	161.850	Public Correspondence (Marine Operator)
26	157.300	161.900	Public Correspondence (Marine Operator)
27	157.350	161.950	Public Correspondence (Marine Operator)
28	157.500	162.000	Public Correspondence (Marine Operator)
60	156.025	160.625	
61	156.075	160.675	
62	156.125	160.725	
63	156.175	160.775	Port Operations and Commercial, VTS.
64	156.225	160.825	
65	156.275	160.875	Port Operations
66	156.325	160.925	Port Operations
67	156.375		Commercial. Used for Bridge-to-bridge communications
68	156.425		Non-Commercial
69	156.475		Non-Commercial
70	156.525		Digital Selective Calling (voice communications not allowed)
71	156.575		Non-Commercial
72	156.625		Non-Commercial (Intership only)
73	156.675		Port Operations
74	156.725		Port Operations
77	156.875		Port Operations (Intership only)
78	156.925	161.525	Non-Commercial
79	156.975	161.575	Commercial.
80	157.025	161.625	Commercial.
81	157.075	161.675	
82	157.125	161.725	
83	157.175	161.775	
84	157.225	161.825	Public Correspondence (Marine Operator)
85	157.275	161.875	Public Correspondence (Marine Operator)
86	157.325	161.925	Public Correspondence (Marine Operator)
87	157.375	161.975	Public Correspondence (Marine Operator)
87A	157.375		
88	157.425	162.025	Commercial, Intership only.