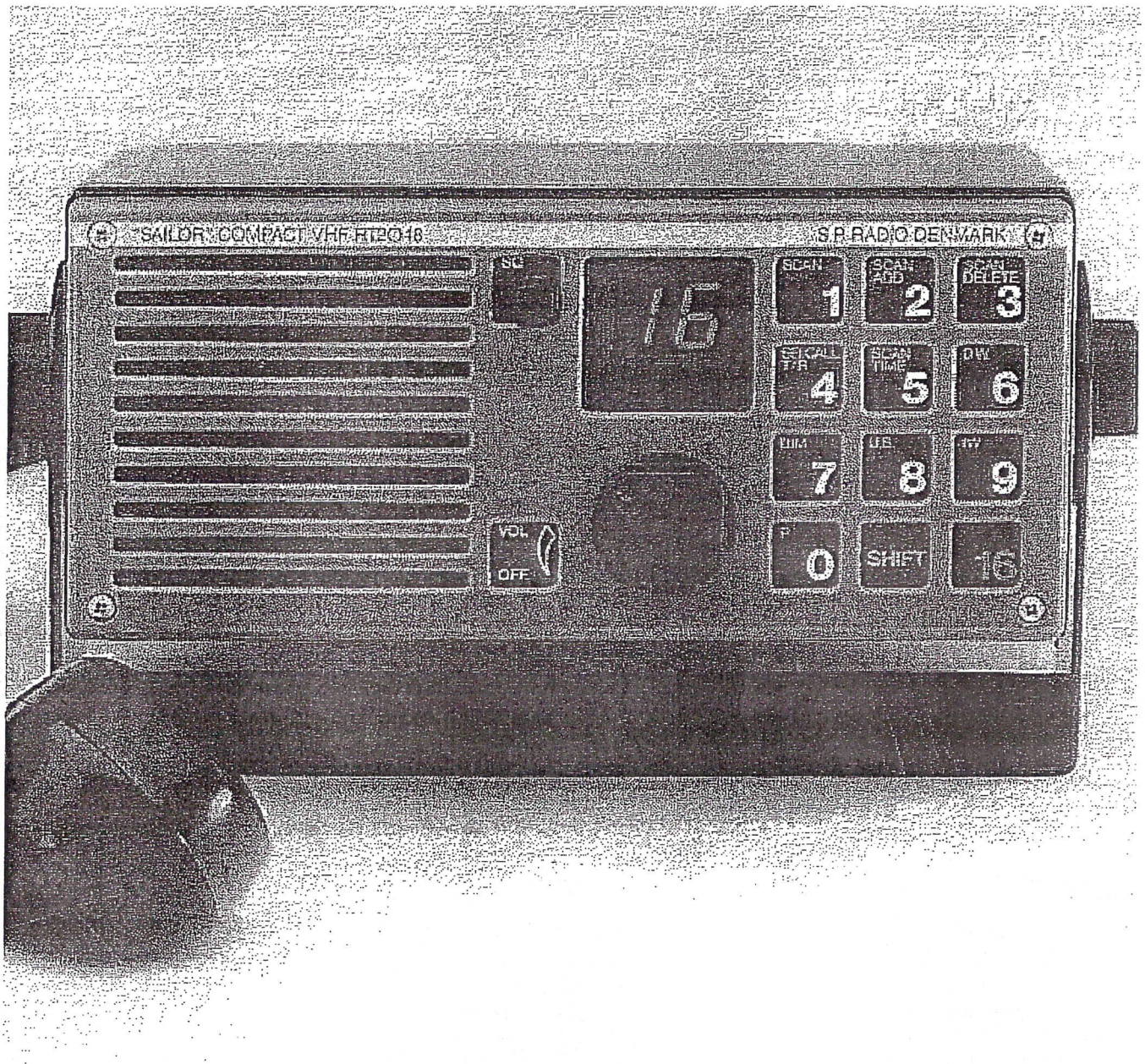
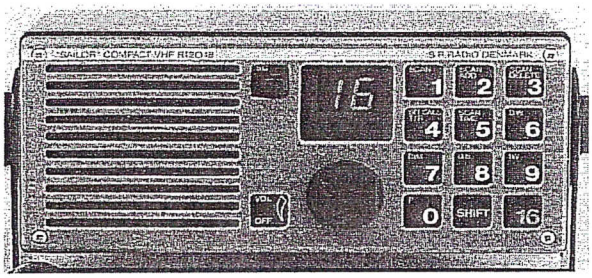




OPERATION

The VHF radiotelephone is operated by means of two turn-style knobs and a push-button keyboard. This combination ensures a high continuous resolution on squelch and AF-level, and an easy selection of channels etc. in all situations.

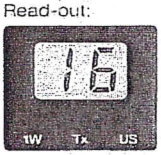
The high efficient LED-display shows the operating channel both under normal use and in dual watch mode. Also, the display indicates when the set is scanning or a call has been detected by the selcall decoder. The functions 1W, TX, and US are indicated by means of LED-illumination.

When the station is switched off, the necessary settings will be stored in the built-in-memory, and as soon as the station is switched on again, it will start up on the same channel etc.

How to Select the Distress and Call Channel 16

Press:

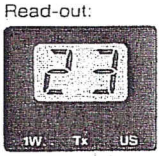
Read-out:



How to Select a Channel

E.g. channel 23. Press:

Read-out:



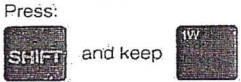
How to Select Reduced Output Power

Press:

Read-out:

How to Raise Output Power to 25W on Channel 13 or 67 in US-Mode

Press:



depressed simultaneously with the handset key.

Read-out:

How to Return to 25W Output Power

Press:

Read-out:

How to Select Channels Used in the USA

Press:

Read-out:

How to Return to International Channels

Press:

Read-out:

How to Change Display Light Intensity

Press:

For single step change

totally 4 steps ind the cycle. In the step before extinction, the keyboard will be illuminated.

DUAL WATCH OPERATION

In addition to the selected channel, which is shown on the display, the VHF station will listen on channel 16 for 0.1 second every 1.2 second.

If there is a signal on channel 11, the dual watch sequence will be as follows:

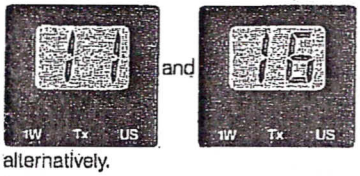
Any signal received on channel 16 will be heard continuously and the read-out will show "16" until the signal ceases.

If the transmitter is keyed, the dual watch function will be switched off and the read-out will show the channel selected.

How to Select Dual Watch

Press:

Read-out:

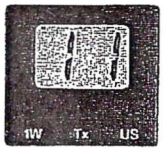


alternatively.

How to Switch Off Dual Watch

Press:

Read-out:

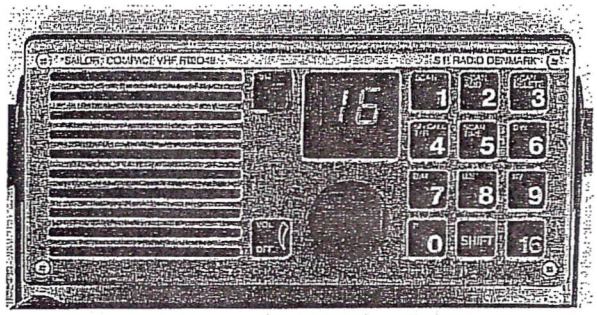


How to Change Display Light Intensity

Press:

For single step change

Totally 4 steps ind the cycle. In the step before extinction, the keyboard will be illuminated.



APPENDIX S18

Table of transmitting frequencies in the VHF maritime mobile band

(See Article **S52**)

NOTE – For assistance in understanding the Table, see notes *a)* to *n)* below.

Channel designator	Notes	Transmitting frequencies (MHz)		Inter-ship	Port operations and ship movement		Public correspondence
		Ship stations	Coast stations		Single frequency	Two frequency	
60		156.025	160.625			x	x
01		156.050	160.650			x	x
61		156.075	160.675			x	x
02		156.100	160.700			x	x
62		156.125	160.725			x	x
03		156.150	160.750			x	x
63		156.175	160.775			x	x
04		156.200	160.800			x	x
64		156.225	160.825			x	x
05		156.250	160.850			x	x
65		156.275	160.875			x	x
06	*f)*	156.300		x			
66		156.325	160.925			x	x
07		156.350	160.950			x	x
67	*h)*	156.375	156.375	x	x		
08		156.400		x			
68		156.425	156.425		x		
09	*i)*	156.450	156.450	x	x		
69		156.475	156.475	x	x		
10	*h)*	156.500	156.500	x	x		
70	*j)*	156.525	156.525	Digital selective calling for distress, safety and calling			
11		156.550	156.550		x		
71		156.575	156.575		x		
12		156.600	156.600		x		
72	*i)*	156.625		x			
13	*k)*	156.650	156.650	x	x		
73	*h), i)*	156.675	156.675	x	x		
14		156.700	156.700		x		
74		156.725	156.725		x		
15	*g)*	156.750	156.750	x	x		
75	*n)*	156.775			x		

Channel designator	Notes	Transmitting frequencies (MHz)		Inter-ship	Port operations and ship movement		Public correspondence
		Ship stations	Coast stations		Single frequency	Two frequency	
16		156.800	156.800	DISTRESS, SAFETY AND CALLING			
76	*n)*	156.825			x		
17	*g)*	156.850	156.850	x	x		
77		156.875		x			
18	*m)*	156.900	161.500		x	x	x
78		156.925	161.525			x	x
19		156.950	161.550			x	x
79		156.975	161.575			x	x
20		157.000	161.600			x	x
80		157.025	161.625			x	x
21		157.050	161.650			x	x
81		157.075	161.675			x	x
22		157.100	161.700			x	x
82	*m)*	157.125	161.725		x	x	x
23		157.150	161.750			x	x
83	*m)*	157.175	161.775		x	x	x
24		157.200	161.800			x	x
84	*m)*	157.225	161.825		x	x	x
25		157.250	161.850			x	x
85	*m)*	157.275	161.875		x	x	x
26		157.300	161.900			x	x
86	*m)*	157.325	161.925		x	x	x
27		157.350	161.950			x	x
87		157.375			x		
28		157.400	162.000			x	x
88		157.425			x		
AIS 1	*l)*	161.975	161.975				
AIS 2	*l)*	162.025	162.025				

Notes referring to the Table

General notes

a) Administrations may designate frequencies in the intership, port operations and ship movement services for use by light aircraft and helicopters to communicate with ships or participating coast stations in predominantly maritime support operations under the conditions specified in Nos. **S51.69**, **S51.73**, **S51.74**, **S51.75**, **S51.76**, **S51.77** and **S51.78**. However, the use of the channels which are shared with public correspondence shall be subject to prior agreement between interested and affected administrations.

b) The channels of the present Appendix, with the exception of channels 06, 13, 15, 16, 17, 70, 75 and 76, may also be used for high-speed data and facsimile transmissions, subject to special arrangement between interested and affected administrations.

c) The channels of the present Appendix, but preferably channel 28 and with the exception of channels 06, 13, 15, 16, 17, 70, 75 and 76, may be used for direct-printing telegraphy and data transmission, subject to special arrangement between interested and affected administrations.

d) The frequencies in this table may also be used for radiocommunications on inland waterways in accordance with the conditions specified in No. **S5.226**.

e) Administrations having an urgent need to reduce local congestion may apply 12.5 kHz channel interleaving on a non-interference basis to 25 kHz channels, provided:

- Recommendation ITU-R M.1084-2 shall be taken into account when changing to 12.5 kHz channels;
- it shall not affect the 25 kHz channels of the Appendix **S18** maritime mobile distress and safety frequencies, especially the channels 06, 13, 15, 16, 17, and 70, nor the technical characteristics mentioned in Recommendation ITU-R M.489-2 for those channels;
- implementation of 12.5 kHz channel interleaving and consequential national requirements shall be subject to prior agreement between the implementing administrations and administrations whose ship stations or services may be affected.

Specific notes

f) The frequency 156.300 MHz (channel 06) (see No. **S51.79** and Appendices **S13** and **S15**) may also be used for communication between ship stations and aircraft stations engaged in coordinated search and rescue operations. Ship stations shall avoid harmful interference to such communications on channel 06 as well as to communications between aircraft stations, ice-breakers and assisted ships during ice seasons.

g) Channels 15 and 17 may also be used for on-board communications provided the effective radiated power does not exceed 1 W, and subject to the national regulations of the administration concerned when these channels are used in its territorial waters.

h) Within the European Maritime Area and in Canada, these frequencies (channels 10, 67, 73) may also be used, if so required, by the individual administrations concerned, for communication between ship stations, aircraft stations and participating land stations engaged in coordinated search and rescue and anti-pollution operations in local areas, under the conditions specified in Nos. **S51.69**, **S51.73**, **S51.74**, **S51.75**, **S51.76**, **S51.77** and **S51.78**.

i) The preferred first three frequencies for the purpose indicated in note *a)* are 156.450 MHz (channel 09), 156.625 MHz (channel 72) and 156.675 MHz (channel 73).

j) Channel 70 is to be used exclusively for digital selective calling for distress, safety and calling.

k) Channel 13 is designated for use on a worldwide basis as a navigation safety communication channel, primarily for intership navigation safety communications. It may also be used for the ship movement and port operations service subject to the national regulations of the administrations concerned.

l) These channels (AIS 1 and AIS 2) will be used for an automatic ship identification and surveillance system capable of providing worldwide operation on high seas, unless other frequencies are designated on a regional basis for this purpose.

m) These channels (18 and 82 to 86) may be operated as single frequency channels, subject to special arrangement between interested or affected administrations.

n) The use of these channels (75 and 76) should be restricted to navigation-related communications only and all precautions should be taken to avoid harmful interference to channel 16, e.g. by limiting the output power to 1 W or by means of geographical separation.