

# FURUNO®

Easy to use handheld control

## MARINE VHF RADIOTELEPHONE

with DSC modem and CH70 watch receiver

Model **FM-2721**

- 25 W VHF radiotelephone with control in palm
- Stylish waterproof handset
- Compact blackbox transceiver
- Extensive message storage
- Full control from waterproof handset with large LCD
- Intercom facility
- Optional second antenna for continual watch on CH70 irrespective of VHF operation



The Furuno FM-2721 is a high-performance, 25 W marine VHF radiotelephone with class-D DSC (Digital Selective Calling) facilities and CH70 watchkeeping receiver. The equipment is designed for pleasure craft and small fishing boats operating under “simplified” GMDSS (Global Maritime Distress and Safety System) while the SOLAS Convention ships must be equipped with DSC facilities meeting full GMDSS requirements.

Current distress calling for non-SOLAS ships is made on CH16 by voice. However, watch of CH16 by the coastal stations as well as SOLAS ships will cease on July 1, 2005, totally switching to DSC watch on CH70. The DSC uses a digital signal to send information on MMSI (Maritime Mobile Service Identity), working frequencies, etc. so that a calling is

addressed to a designated user or group who has DSC facilities. In an emergency, a distress alert can be initiated by pressing the dedicated distress button on the handset. The distress alert should be instantly acknowledged by ships equipped with DSC capability as well as coastal stations. DSC also allows users to call specific parties in routine traffic.

The FM-2721 has a built-in watch receiver to keep watching on CH70 while you are receiving or transmitting on another channel (with an additional antenna). The FM-2721 has a 25 W transceiver unit and its control is totally performed on a handset. The transceiver is a blackbox type and can be installed in the cockpit or flybridge. Two handsets provide the intercom facility.



The future today with FURUNO's electronics technology

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Catalogue No. V-029

TRADE MARK REGISTERED  
MARCA REGISTRADA

# SPECIFICATIONS OF FM-2721

## VHF Transceiver

### GENERAL CHARACTERISTICS

1. Rules and Regulations EN 301 025 V1.1.1
2. Class of Emission G3E (telephone), G2B (DSC)
3. Communication System Simplex/Semi-duplex

### 4. Channels

All VHF channels according to ITU-R Radio Regulations Appendix S18, All channels in FCC Part 80, Max 20 Private channels where permitted by Administrations (preset by the service agent), 10 weather channels (USA and Canada, receive only).

5. Power Supply 12 V, 6 A max
6. Display 13 characters x 7 lines, character 7 x 5 dots, backlit LCD (dimnable)

### TRANSMITTER

1. Frequency Range 155.00 - 161.475 MHz
2. RF Output Power 25 W, reducible to 1 W  
US Mode: CH67, CH13 at 1 W, manual override for full power.  
CH75, 76 1 W only
3. Frequency Stability 1.5 kHz

### RECEIVER

1. Frequency Range 155.00 - 166.075 MHz
2. Receiving System Double-conversion superheterodyne  
IF: 45.1 MHz and 455 kHz

3. AF Output Power 0.1 W (8 Ω loudspeaker)  
1.5 mW (150 Ω handset)  
3 W with optional loudspeaker

4. Audio Response De-emphasis of 6 dB/oct +1/-3 dB
5. Sensitivity -3 dBμV at SINAD 20 dB
6. Adjacent Channel Selectivity 70 dB

## DSC Modem (Class-D)

### 1. Distress Call and Message

Distress call is transmitted as five consecutive calls, repeated after a random delay between 3.5 and 4.5 min from the beginning of initial call.

### 2. Message Storage

Receive: 50 distress messages plus 50 non-distress messages  
Transmit: 50 messages plus 50 files containing 50 stations ID, 50 telephone No.

3. Interface Nav data: IEC 61162 (NMEA 0183)  
Input: \$-GLL, \$-GGA, \$-ZDA, \$-RMC  
Output: \$-TLL

4. Alarm Audible and visual on receipt of distress, urgency or routine calls, Position error

### 5. Receiver Characteristics

DSC frequency: CH70  
Sensitivity: Symbol error rate 10<sup>-2</sup>, input -3 dBμV  
Watch keeping: Continuous watch on CH70

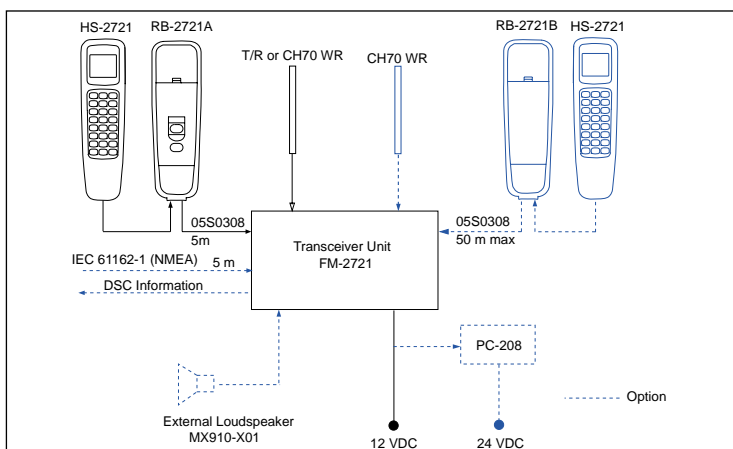
## EQUIPMENT LIST

### Standard

- |                                 |        |
|---------------------------------|--------|
| 1. Transceiver unit FM-2721     | 1 unit |
| 2. Handset HS-2721              | 1 unit |
| 3. Bracket for handset RB-2721A | 1 set  |
| 4. Installation materials       | 1 set  |

### Optional

1. Handset HS-2721
2. Bracket for handset RB-2721B
3. External speaker MX910-X01
4. VHF antenna RA-106
5. VHF antenna 396-1
6. DC converter PC-208 (24-12 V)



<h3>HANDSET</h3> <h4>HS-2721</h4> <p>Weight: 0.3 kg 0.7 lb</p>	<h3>TRANSCIVER UNIT</h3> <h4>FM-2721</h4> <p>Weight: 2.5 kg 5.5 lb</p>	<h3>BRACKET FOR HANDSET</h3> <h4>RB-2721A</h4> <p>Weight: .08 kg 1.8 lb.</p>
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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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