

**FURUNO**

# WEATHER FAX

Weather Facsimile Receiver



Model:  
**FAX-410**

# WEATHER FAX

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*Reliable weather facsimile information under all conditions*



Weather Facsimile Receiver  
**FAX-410**

The FAX-410 is a marine weather facsimile receiver designed to receive and print high quality, high definition weather charts and satellite images, which are transmitted from onshore stations located around the world.

The FAX-410 can automatically select the receiving band depending on the quality of current signal reception. This enables the FAX-410 to receive the high quality weather charts and satellite images with little noise even under changing weather conditions. The receiving channels can be selected from the 314 channels in total, consisting of

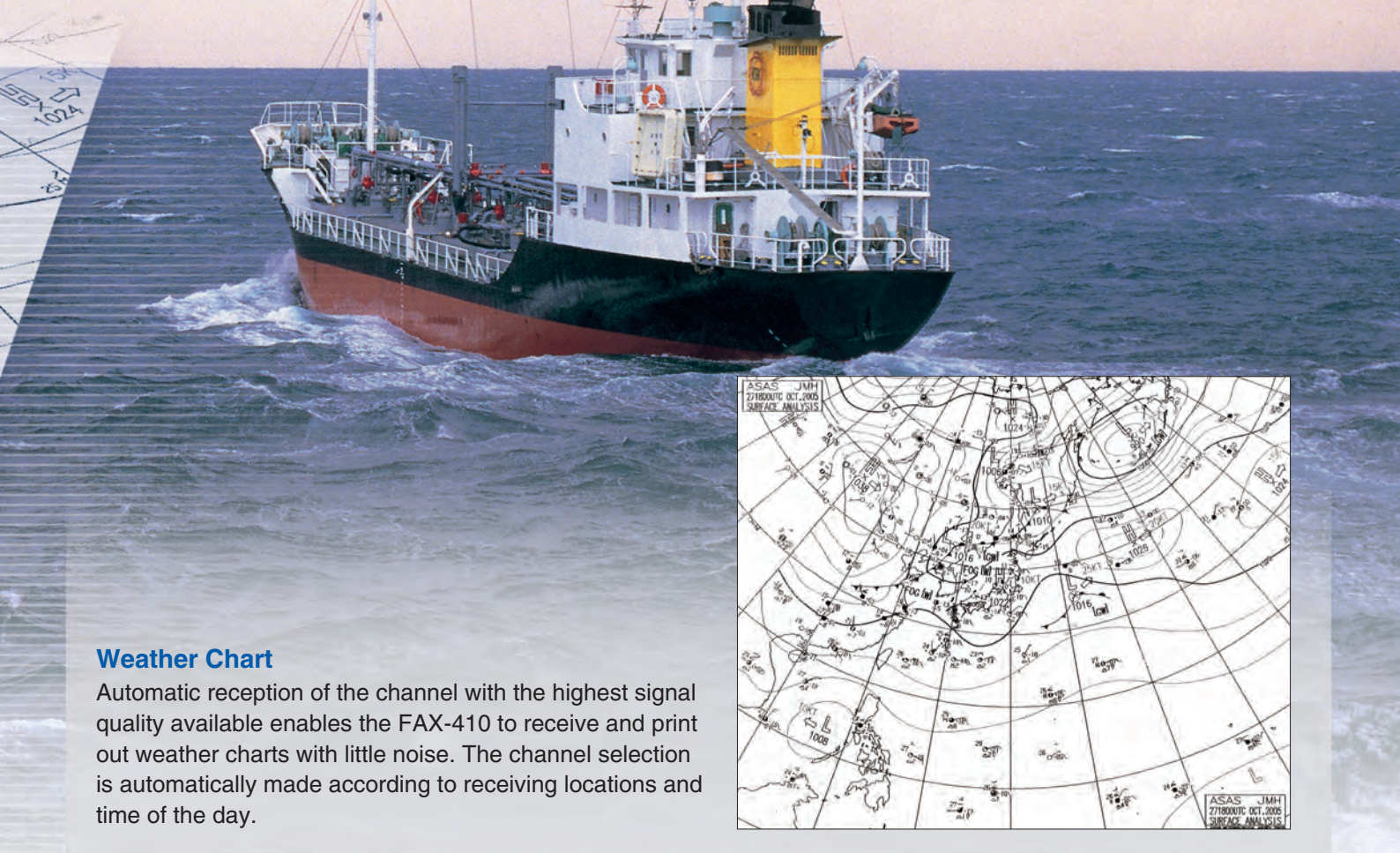
- ▶ **Automatic channel selection by judging the quality of signal reception**
- ▶ **All known facsimile channels in 2-25 MHz bands are pre-programmed: 150 channels**
- ▶ **Additional memory capacity of 164 user-programmable channels available**

150 pre-programmed and 164 user-programmed channels. The FAX-410 can also be programmed for automatic, unattended operation by time or by WMO remote control signal. Up to 16 programs can be set per week for such an automatic operation.

The weather charts and satellite images are printed quietly on 10" wide thermal recording paper. The satellite images are printed with 9 gray levels (from black to white) to display highly defined images of clouds.

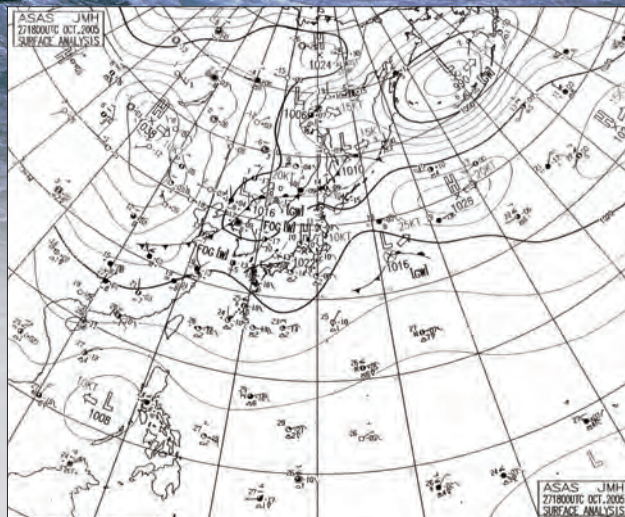
- ▶ **Full automatic operation by a built-in schedule timer (16 programs can be set per week for automatic operation)**
- ▶ **Quiet thermal printing due to minimal mechanical components**
- ▶ **10" wide thermal recording paper with clear and easy-to-watch weather charts and satellite images in nine gray levels**

# Facsimile receiver gathers and generates crucial weather conditions at sea



## Weather Chart

Automatic reception of the channel with the highest signal quality available enables the FAX-410 to receive and print out weather charts with little noise. The channel selection is automatically made according to receiving locations and time of the day.



## Front Panel

### LCD

The LCD on the front panel can display two lines of 32 characters. 4 levels of backlight brightness of the LCD can be selected according to the lighting conditions of the bridge area simply by pressing DIM key.

**Tuning Indicator** 3 LEDs indicate the reception status illustrating whether the frequency is properly tuned or it should be moved up or down.



### Synchronization Setting

When printed weather charts and satellite images glide to left or right, synchronization can be adjusted by a SYNC knob.

### Keys

Operational setting can be configured with combinational use of operation keys and ten keys on the front panel. The following is the brief introduction to the operational setting of the FAX-410.

- PRG** Mode selection
- DIM** Backlight brightness setting
- SPD** Selection of scanning speed
- IOC** Switching of IOC
- FRQ** Switching to the frequency mode and frequency selection
- CH** Switching to the channel mode and channel selection
- REV** Reversing black-white in recording
- RCD** Start/stop recording

## SPECIFICATIONS

**PRODUCT NAME** FACSIMILE RECEIVER

### RECEIVER CHARACTERISTICS

Frequency Range 2-25 MHz in 100 Hz steps  
 Number of Channels 150 pre-programmed channels and 164 channels for memory  
 Receiving System Synthesized double super heterodyne  
 Mode of Reception F3C  
 Sensitivity Less than 2 V at 20 dB SINAD  
 Tuning Monitor 3 LEDs indicate whether the frequency is properly received or that it should be moved up or down.

### RECORDER CHARACTERISTICS

Recording System Thermal head printing. Thermal recording paper (257 mm x 30 m) with effective width of 252 mm  
 Scanning Speed 60, 90 or 120 rpm  
 I.O.C. 576 or 288  
 Gradation 9 gradations  
 Phase Control Automatic or manual  
 External Input Signal Level 0 dBm at 600 ohms  
 Operation Automatic or manual  
 Automatic start/stop by W.M.O. remote control signal  
 Schedule Timer: 16 programs/week

### POWER SUPPLY

(please specify when placing a purchase order)

AC model: 100/115/200/230 VAC: 0.3/0.26/0.15/0.13 A  
 DC model: 12-24 VDC: 2.3-1.15 A

### Environment

Temperature: -10C to +50C

### EQUIPMENT LIST

#### Standard

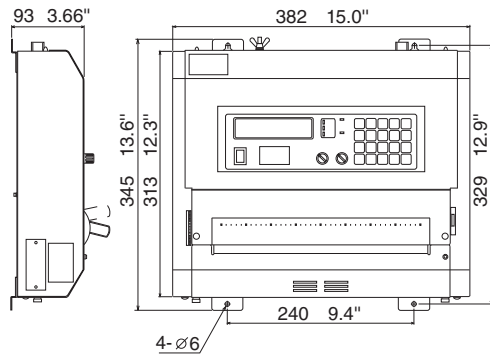
1. Receiver Unit (1 roll of thermal paper inset) FAX-410 1 unit
2. Installation Materials and Standard Spare Parts 1 set

#### Option

1. Pre-amp unit FAX-5 with 1 m or 15 m cable
2. Whip Antenna for FAX-5 04S4176
3. Extension Kit for Antenna Cable OP04-2 10/20/30/40/50 m
4. Whip Antenna FAW-6R2/FAW-6R2A (6 m)
5. Junction Box ARD-1
6. Recording Paper

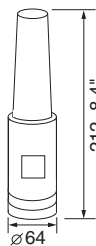
### Receiver Unit

**FAX-410** 7.4 kg 16.3 lb

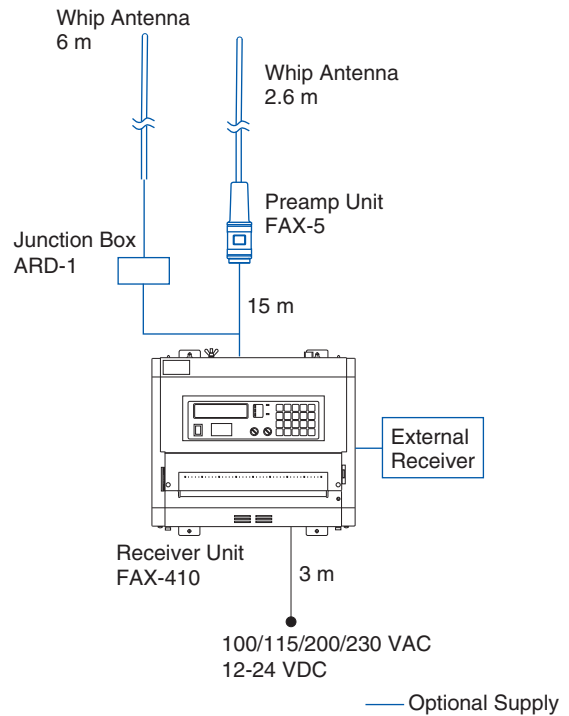


### Preamp Unit (option)

**FAX-5** 1.3 kg 2.9 lb



### INTERCONNECTION DIAGRAM



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