8" FACSIMILE RECEIVER
Model FAX-207

- Low-cost weather facsimile receiver printing weather charts or satellite images on 8" thermal paper in four tones of gray
- Receive frequencies: 80 kHz to 25 MHz in 100 Hz steps
- 30-program timer with sleep function. Less than 1 W power consumption in sleep mode
- 200 user-defined channels and 376 pre-programmed channels
- New improved automatic scanning function for positive selection of optimum receiving channel
- New, longer-life thermal printing head
- NAVTEX receiver (optional)

The FURUNO FAX-207 is a new low-cost marine facsimile receiver and printer packaged in a single compact unit. It provides high-quality, high-resolution printing of charts, text, and satellite images in four tones of gray on 8-inch thermal paper.

High-performance frequency synthesizer offers multi-channel flexibility, 376 pre-programmed channels and 200 user-defined channels.

The unique automatic scanning feature permits the stable reception of weather maps on an optimum frequency depending on the time of day and radio propagation conditions.

The FAX-207 can incorporate an optional NAVTEX receiver module for unattended reception of both weather and maritime safety information.
SPECIFICATIONS OF FAX-207

RECEIVER CHARACTERISTICS

1. Frequency Range
   80 kHz to 25 MHz in 100 Hz steps

2. Number of Channels
   User programmed: 200
   Pre-programmed: 376 (All known transmitter frequencies at production)

3. Receiving System
   Double-conversion superheterodyne
   IF: 50.0 MHz and 455 kHz

4. Mode of Reception
   F3C, J3C (USB/LSB switchable), A3E

5. Sensitivity (F3C, J3C)
   80 to 300 kHz: 18 µV at 20 dB SINAD
   300 kHz to 25 MHz: 3 µV at 20 dB SINAD

6. Selectivity (F3C, J3C)
   Bandwidth: 6.0 kHz at -6 dB
   Attenuation: -60 dB at 10.0 kHz

RECORER CHARACTERISTICS

1. Recording System
   Thermal head printing. 8-inch thermal paper

2. Scanning Speed
   60, 90, 120 or 240 rpm, auto or manual

3. Gradation
   4 levels

4. Phase Control
   Automatic or manual

5. Operation
   Automatic* or manual
   *By W.M.O. remote control signal
   Schedule Timer 30 programs/day

NAVTEX RECEIVER (Optional)

1. Frequency
   518 kHz

2. Message Memory
   7,000 characters, 30 ID codes

3. Format
   79 characters/line, 13 x 9 dot matrix

4. Print Speed
   27 characters/sec

POWER SUPPLY

(Specify when ordering)
12 or 24 VDC, less than 30 W (1 W on sleep mode)

EQUIPMENT LIST

Standard
1. Main unit (12 VDC system or 24 VDC system)
2. Installation materials and spare parts

Optional
1. NAVTEX receiver module (built-in type)
2. Active antenna (pre-amp unit) FAX-5 (w/15 m cable)
3. 2.6 m whip antenna
4. Antenna cable (10, 20, 30, 40 or 50 m)

SPECIFICATIONS OF FAX-207

Receiver Unit FAX-207  7 kg  15.4 lbs.

Active Antenna FAX-5 (option)

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
10" FACSIMILE RECEIVER

Model FAX-210

High quality
8-Level printout.
NAVTEx option

- Reception and printing of clear Black-on-white weather charts and Satellite Photos in 8 shades-of-grey on dustless, white thermal paper
- Quiet, reliable thermal print mechanism
- Automatic, unattended operation by programmable timer or WMO signals, while automatic "Best Frequency" selector selects channel to suit time of day and weather conditions
- All known Facsimile frequencies in 80-160 kHz and 2-25 MHz bands pre-programmed, each can be altered by the user if the stations change frequency. 300 extra channels are provided to accommodate new stations
- Internal NAVTEX option. Urgent messages are printed immediately, regular messages are stored until the printer is idle

The FAX-210 is a new marine weather facsimile receiver designed to provide the performance characteristic of much larger equipment in a small package.

It receives and prints high-quality, high-resolution charts and satellite images transmitted from shoreside stations all around the world. These pictures and text are printed with eight gray levels (from black to white) on high-contrast dustless 10" wide thermal paper.

The FAX-210 can be programmed for automatic operation by time or by WMO start-stop signal. Channel selection can be pre-programmed or set for computer controlled scan for the best channel even under changing weather, or time-of-day disruptions to communications.

The FAX-210 can incorporate an optional NAVTEX receiver module. This package permits unattended reception of weather and maritime safety information broadcast by NAVTEX stations on nearly all coastlines.

The optional broadband antenna coupler allows use of a single antenna for both FAX and NAVTEX reception on a single 2.6 m whip or wire antenna of the user's choice.
SPECIFICATIONS OF FAX-210

RECEIVER CHARACTERISTICS
1. Frequency Range
   80 to 160 kHz and 2 to 25 MHz, in 100 Hz steps
2. Number of Channels
   659 channels max. capability
3. Receiving System
   Double-conversion superheterodyne
   IF: 50.0 MHz and 455 kHz
4. Mode of Reception
   F3C, J3C (USB/LSB switchable)
5. Sensitivity
   80 to 160 kHz: 10 µV at 20 dB SINAD
   2 to 25 MHz: 3 µV at 20 dB SINAD
6. Selectivity
   Bandwidth: 2.4 kHz at 6 dB
   Attenuation: 60 dB at 6.0 kHz
7. Tuning Monitor
   3 LED's indicate whether the frequency is OK or
   whether it should be moved up or down.

RECORER CHARACTERISTICS
1. Recording System
   Thermal head printing. Paper TA-130A (280 mm x 30 m)
   Effective width 64 mm (132 mm with scanning speed 240 r.p.m.)
2. Scanning Speed
   60, 80, 120 or 240 r.p.m., automatic or manual selection
3. I.O.C.
   576 or 288, automatic or manual selection
   Scanning density 5 lines/mm approx.
4. Gradation
   8 gradations
5. Phase Control
   Automatic or manual
6. External Input Signal
   Black: 1500 Hz, White: 2300 Hz
   Level 0 dBm at 600 ohms

7. Operation
   Automatic or manual
   Automatic start/stop by W.M.O. remote control signal
   Schedule Timer: 16 programs/day

NAVTEX RECEIVER (Optional)
1. Frequency
   518 kHz
2. Sensitivity
   2µV at 50 ohms
   6µV at 10 ohms - 150pF
   (4% message error)
3. Message Memory
   7000 characters, 64 ID codes
   Storage hour 66 hours
4. Format
   79 characters/line, 13 x 9 dot matrix
5. Print Speed
   27 characters/sec

POWER SUPPLY
   - DC model: 10 to 40 VDC, 30W (15W at stand-by)
   - AC model: 110/220 VAC

EQUIPMENT LIST
Standard
1. Main Unit (1 roll of paper inset) 1 unit
2. Installation Materials 1 set
3. 2 spare fuses and 1 roll of paper 1 set

Option
1. NAVTEX Receiver Module CP08-2
2. Active Antenna (Pre-amp Unit) FAX-5 or NX-5/SW15 m 3D-2V
3. 2.6 m Whip Antenna 04534179 for use with FAX-5

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99073 SS Printed in Japan
Cost effective paperless Weather FAX & NAVTEX
FACSIMILE RECEIVER

Model FAX-30

- Connection to a 10.4” NavNet display or PC through an Ethernet
- User friendly softkey menu operation on NavNet display
- Web navigation using Internet Explorer or Netscape
- Print images and messages from generic PC and printer
- Storage of maximum 12 images on NavNet display (depending on file size)
- Thumbnail view for easy selection of stored images
- Noise Rejection for clear image

The future today with FURUNO’s electronics technology.

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The FURUNO FAX-30 can turn any NavNet display or PC into a weather fax and NAVTEX receiver for obtaining weather forecasts and safety information. This "BlackBox" unit connects directly to a NavNet display or an Ethernet hub with a single Ethernet cable. If a multiple of 10.4" NavNet displays are connected on the Ethernet bus, each of those displays will have access to the FAX-30. In addition, the FAX-30 has the capability of being connected to a standard PC with Ethernet card.

The standard package includes the receiver and installation materials. The optional antenna and display unit (either a 10.4" NavNet or windows based PC) are required for basic operation. When the FAX-30 is connected to a PC, the images and information are displayed by simply using your Internet browser. There is no complicated proprietary software to learn. You can even print all of the information using your PC and printer. The FAX-30 receives the weather map broadcast from a fax transmitting station working under WMO standards. Up to twelve received pictures can be stored on internal memory. Drum speeds, I.O.C. and other essential parameters are manually or automatically selected for quality receptions. The auto channel mode searches the best station by judging the quality of the signal reception. Phase and synchronization can be adjusted even after the reception is completed. The pictures stored can be freely rotated or zoomed in/out on the screen. The display colors are selectable from 8 tones of gray scale, monochrome, blue shade, pink and black, or red and blue for better viewing depending on the lighting conditions. By selecting the built-in NAVTEX receiver, you can view up to 130 stored NAVTEX messages.

**SPECIFICATIONS OF FAX-30**

### GENERAL
- **Frequency Range**: 80 kHz to 160 kHz, 2 MHz to 25 MHz, 490 kHz, 518 kHz (NAVTEX)
- **Class of Emission**: F3C, J3C, F1B (NAVTEX)
- **Receiving System**: Double superheterodyne
- **Number of channel**: 1000 channels
- **Storage**
  - Fax: 12 pictures
  - NAVTEX: 130 messages
  - 55 characters x 20 lines
  - Character size: 2.6 x 5.3 mm
- **Scanning Speed**: 60, 90, 120, 180, 240 r.p.m., automatic or manual selection
- **I.O.C.**: 576 or 288, automatic or manual selection
- **Display Color**: Monochrome, 8 shades of gray, Blue shades, Pink and black, Red and blue
- **Networking Standard**: Ethernet 10Base-T TCP/IP

### POWER SUPPLY
- **12-24 VDC, 12 W**

### MINIMUM SYSTEM REQUIREMENTS FOR PC
- **OS**: Windows 98, 2000, ME, XP
- **CPU**: 600 MHz or faster
- **RAM**: 128 MB or more
- **Resolution**: 1024 x 768 pixels
- **Browser**: Internet Explorer Ver. 5.01 SP2/5.5 SP2/6.0 SP1, Netscape Communicator Ver. 4.78/6.2/7.0

### ENVIRONMENTAL CONDITIONS
- **EMC, Vibration, Climatic**: Complies with IEC 60945

### EQUIPMENT LIST
- **Standard**
  - 1. **Receiver Unit FAX-30** 1 unit
  - 2. **Installation Materials and Spare Parts** (including 5 m NavNet Cable or PC Adaptor Cable selectable) 1 set
- **Option**
  - 1. **Preamp Unit FAX-5** with 15 m cable
  - 2. **Antenna Fixing Clamp**
  - 3. **Whip Antenna 04S4176**
  - 4. **Extension Cable OP-04-2**
  - 5. **PC Adaptor Cable MJ-A6SPF/TM11AP8C050**
  - 6. **HUB Adaptor Cable MJ-A6SRMD/TM11AP8-005**
  - 7. **NavNet Cable MJ-A6SPF0014 (1/10/20/30 m)**

### Interconnection Diagram

![Interconnection Diagram](image_url)

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