FURUNO°

14" FACSIMILE RECEIVER

DEAX

Model FAX-214

Sophisticated Microprocessor Technology 8-Level Quantization 14" wide paper NAVTEX option







Catalogue No. FX-610f

WIDE-CARRIAGE, FULL-FUNCTION RADIO

- Super clear weather chart and satelliteimage reception on wide 14" paper with high-resolution, high-contrast and eight gradation levels.
- Quiet, reliable thermal recording mechanism
- Automatic, unattended operation by programmable control.
- All known 80-160 kHz LF and 2-25 MHz Facsimile frequencies. 10 additional channels for user-programming.
- Internal NAVTEX option. Regular NAVTEX messages are stored in memory for later printout while the operator places priority in a FAX reception, urgent messages are instantly printed.
- Automatic hands-off selection of the optimum frequency.
- Active antenna optionally available for simultaneous reception of FAX and NAVTEX by using a short backstay or a 2.6m whip antenna.

ZCZC GA95 WZ 969

1. ENGLAND EAST COAST. GREAT YARMOUTH APPROACHES. GORL EXTENSIVE SHOALING LOCATED VICINITY 52-34. 4N 01-46. 7E

LEAST DEPTH 8 METRE 2. WEST CORTON LIGHT CANCEL WZ 965 (GA95 NNNN

ZCZC GA86 WZ 956 DOVER STRAIT SURVEY TRAFFIC LANE BETWEE NNNN

ZCZC GA85 WZ 954 DOVER STRAIT EDW BU CANCEL WZ 929 (GA73) NNNN

(Actual size of NAVTEX printout)



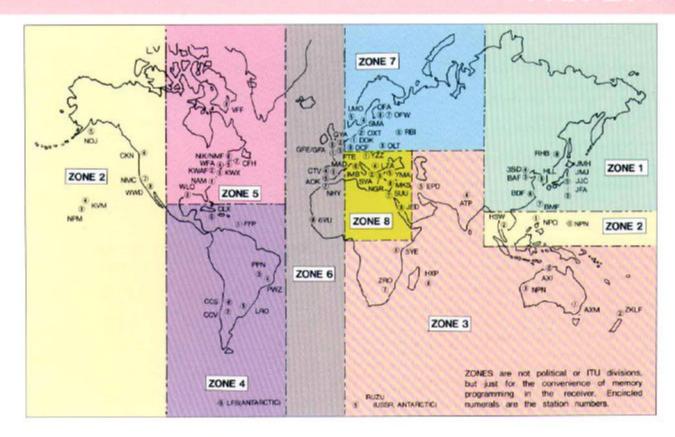
The all-new FURUNO FAX-214 brings the latest in microprocessor technology to the world of marine facsimile. The FAX-214 provides on 14" wide paper high-quality, high-resolution charts and satellite images transmitted from shoreside FAX stations all around the world. These charts yield eight "gray" levels (from pure black to white) on high-contrast 14" wide white thermal paper. This highly reliable and field-proven system has the advantage of not producing the foul-smelling carbon dust that older machines typically gave off when in operation.

The FAX-214 can be programmed for completely automatic, hands-off operation: it is even "smart" enough to scan all frequencies available for any particular station and pick the one which will give the best picture!

The FAX-214 is provided with the FAX-208A's unique feature in that it is the only marine FAX receiver which can incorporate a built-in NAVTEX receiver module which is just as intelligent as the FAX portion of the system. More and more NAVTEX transmitting stations are coming on the air around the world to provide automatic updating of weather and safety conditions in local areas.

While FAX signals are being received and printed out, if an Urgent NAVTEX message is received the FAX will suspend operation and allow the NAVTEX message to take command. Otherwise, normal NAVTEX message will be stored in the background for later printing after the FAX is finished.

The optional broadband active antenna is available to provide reception for FAX and NAVTEX transmissions with use of a short backstay or 2.6m whip antenna.



All known fax frequencies are here! Easy to tune in.



You do not have to know the frequencies of the fax stations. If you enter the ZONE and STATION numbers, the computerized receiver does everything else. To tune in the Bracknell station, for instance, hit the touchpads-[CH][▲ to get 6 as ZONE][▶ to move cursor][▲ to get 0 as STATION][▶ to move cursor][▲ to get * for automatic search][ENT].

The CALL SIGN with an optimum frequency will be automatically displayed. Of course you can select a frequency manually, too, with fine tuning keys.

Automatic Start/Stop by WMO signal or Schedule Timer

The facsimile stations broadcast weather maps and news at regular schedules. You can preset 16 sets of start and end time by schedule timer.



NAVTEX OPTION

NAVTEX is Navigation Teleprinter in the format of narrow band direct printing (NBDP). The NAVTEX stations broadcast on 518 kHz weather and navigational information for the safety at sea. The NAVTEX message contains the following message categories.

A: Coastal navigational information

B: Meteorological warning

C: Ice report

D: Search and rescue alert

E: Meteorological forecast

F: Pilot message

G: Decca message

H: Loran-C message

1 : Satnav message

J: Differential Omega message

K: Other navigational system message

L: Additional warning to category A

Z: No message on hand

The facsimile receiver with NAVTEX module permits unattended operation to receive these messages. When the receiver is working to plot a weather map, the NAVTEX messages are stored in memory for later print. But the message D is instantly printed suspending the facsimile information. The equipment is designed to CCIR Rec 540-1, 476-3, and CEPT Specifications.

SPECIFICATIONS OF FAX-214

RECEIVER CHARACTERISTICS

1. Frequency Range

80 to 160 kHz and 2 to 25 MHz, in 100 Hz steps

2. Number of Channels

371 channels max. capability

3. Receiving System

Double-conversion superheterodyne I.F.: 50.0 MHz and 455 kHz

4. Mode of Reception

F3C, J3C (USB/LSB switchable)

5. Sensitivity

80 to 160kHz: 10, W at 20 dB SINAD 2 to 25MHz: 2, W 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.

RECORDER CHARACTERISTICS

1. Recording System

Thermal head printing. PaperTP-1440A (360mm×40m) Effective width 337mm (168.5mm with scanning speed 240r.p.m)

2. Scanning Speed

60, 90, 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. Level Quantization

8 levels

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

2_{tt}V at 50 ohms 5_{tt}V at 10 ohms +150pF (4% message error)

3. Message Memory

7000 characters, 30 ID codes Storage hour 66 hours

4. Format

79 characters/line, 13×9 dot matrix

5. Print Speed

27 characters/sec

POWER SUPPLY

Choice of 10 to 40 VDC universal, 30 W (15 W at stand-by)with DC power module or 110/220 VAC with AC power module

EQUIPMENT LIST

Standard

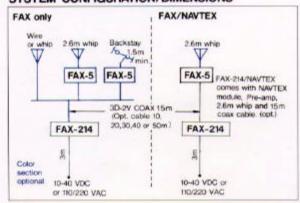
- Main Unit (1 roll of paper inset)
 Installation Materials
 1 set
- 3. 2 spare fuses and 1 roll of paper
- 4. Power Cable 3m

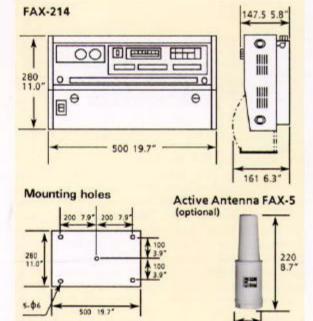
1 pc.

Option

- 1. NAVTEX Receiver Module OP08-2
- 2. Active Antenna (Pre-amp Unit) FAX-5 (w/15m 3D-2V)
- 3. 2.6m Whip Antenna 04S4176 for use with FAX-5
- 4. Extension cable kit OP04-2 for FAX-5(10, 20, 30, 40, or 50m)

SYSTEM CONFIGURATION/DIMENSIONS





Weight 13 kg, 28.7 lbs.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Weight 600g, 25.7oz

FOR FURTHER INFORMATION.
PLEASE CONTACT

