

FURUNO[®]

14" FACSIMILE RECEIVER

DFAX Model **FAX-214**

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



The future today with FURUNO's electronics technology.
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Catalogue No. FX-610f

TRADE MARK REGISTERED
MARCA REGISTRADA

WIDE-CARRIAGE, FULL-FUNCTION RADIO

- Super clear weather chart and satellite-image 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 METRES
2. WEST CORTON LIGHT
CANCEL WZ 965 (GA95)
NNNN

ZCZC GA86
WZ 956

DOVER STRAIT SURVEY
TRAFFIC LANE BETWEEN
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.

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: 10µV at 20 dB SINAD
2 to 25MHz: 2µV 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. Paper TP-1440A (360mm x 40mm)
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**
2µV at 50 ohms
5µV 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 x 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

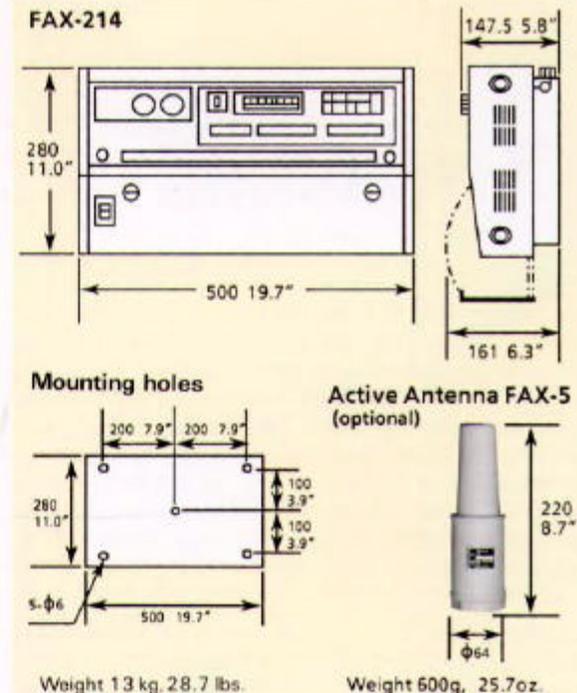
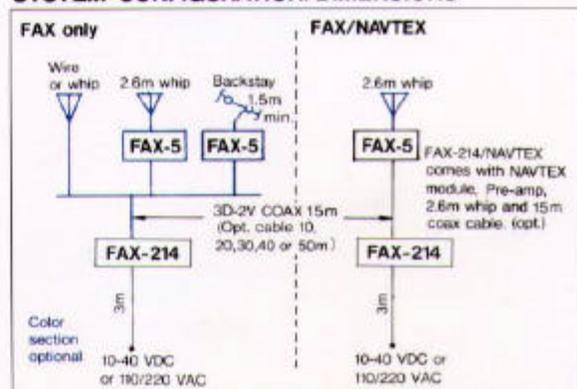
Standard

1. Main Unit (1 roll of paper inset) 1 unit
2. 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



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

FOR FURTHER INFORMATION,
PLEASE CONTACT →