The **AE–1800** receiver has two built–in receivers on the same receiver board, with the first receiver devoted to receiving 518 kHz broadcast at all times and the second receiver receiving either 490 kHz or 4209.5 kHz signal as selected by the user through the menu system. Received messages are displayed across an 8–inch liquid crystal display (LCD) and stored permanently or temporarily as specified by the user.

Up to 200 messages, each with an average of 500 characters, received on the first and second receivers are separately stored and then automatically erased from memory 60 hours after the time of reception on a first–in–first–out basis. However, up to 25 messages can be protected against automatic erasure, and are stored in a separate area of the non–volatile message memory, in which case an additional 50 new messages can be stored in memory for each receiver.

When a transmission occurs on the first and second receiver frequencies at the same time, the equipment receives both signals, displaying the first receiver message while storing the second receiver message in memory for later retrieval. An appropriate caution message shows up in the screen bottom prompt line to indicate the reception of a new NAVTEX message on the second receiver.

Reception of a type–D message (SAR, piracy and armed robbery information) activates the audible and visual alarms. The received message text then is shown in red, making it easy to discriminate it from navigational (type–A) and weather (type–B) warnings. The audible alarm also sounds differently to indicate that a type–D message has been received. The alarm can be acknowledged remotely by an IBS/INS terminal connected to the RS–422 port on the rear panel. When a type–D message is received on the second receiver alone, the display automatically switches to the second receiver page, showing its message in red while sounding the alarm in the same manner as on the first receiver.

The stored messages can be output via three interface ports mounted on the rear panel for IBS/INS or other onboard applications The user can specify the ID, frequency and type of the messages you wish to output.   An optional printer can also be plugged in to print the current message in real time or those recalled from the non–volatile memory.

*1: Global Maritime Distress and Safety System,   *2: International Maritime Organization

*3: International Telecommunications Union,   *4: Safety of Life at Sea