144/430MHz Dual Band Dual Receive Heavy Duty C4FM/FM Digital Repeater

DR-2X

DR-2X:US and Asia
DR-2XE:Europe and Australia

Supplied Accessories: AC cable (US, Asia only),
DC cable, PC connection cable SCU-20, Rubber Feet (4)

YAESU DR-2X is a C4FM digital/Conventional FM dual mode and dual-Receive capable repeater that covers the VHF and UHF amateur radio bands. DR-2X incorporates the use of conventional FM communication integrated with the C4FM digital communication through its unique AMS capability.

DR-2X Features

• Modulation Modes: Conventional FM, C4FM Digital
• AMS (Automatic Mode Select) function automatically recognizes the received signal as C4FM digital or conventional FM signal
• 3.5-inch Full Color Touch panel Operation
• Extremely reliable, high RF Output Power: 50W / 20W / 5W
• Emergency Operation: Supported by auto-switched backup battery power operation (US and Asian versions)
• Front panel microphone connector is provided for repeater transmitter testing and enables base station operation
• Advanced Operation: The rear panel Control I/O port permits connecting with the "S-COM 7330" repeater controller
  (Control up to three (3) DR-2X units)

DR-2X Exclusive Features:

• Dual Receive Operation
• Improved "News Station" Feature permits sharing the voice and text messages to members
• Digital-Group-ID (DG-ID) Feature supports easy Groupings Set-up and Comfortable Operation
• Stable High Power Output with Large Heat sink
• Commercial grade components for long-term reliable operation
• IMRS (Internet-linked Multi-site Repeater System) function for simple expanded area coverage via the Internet (Optional)

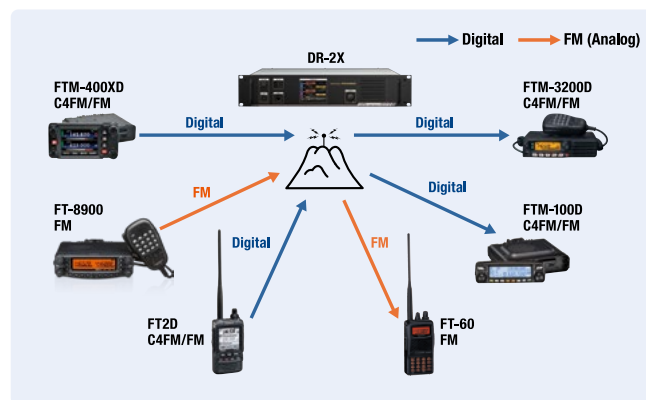## C4FM provides Excellent Audio Quality and Reliable Communication

C4FM modulation has better BER (Bit Error Rate) characteristics when compared to other Digital modulation systems, and guarantees reliable Communication. The YAESU C4FM digital clear voice technology uses a 12.5 kHz bandwidth which permits high quality voice communication.
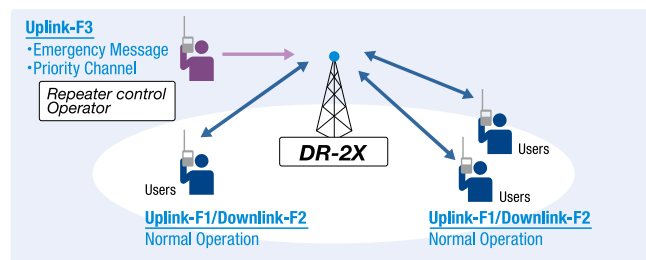
FM Friendly Digital with AMS (Automatic Mode Select)

System Fusion enables interconnection between all users, even with different modes. This is made possible in System Fusion by AMS. The AMS function automatically recognizes the signal as a C4FM digital or a conventional FM signal, then the DR-2X retransmits the signal in the preset communication mode.

AMS Digital Repeater

Dual Receive Feature provides Flexible Operation

The unique simultaneous Dual Receive Repeater DR-2X allows the control operator to assign an additional frequency for controlling the repeater, transmitting emergency messages, or simply a second up-link frequency. The control operator may also assign separate Downlink frequencies according to the Up-link frequencies.

Dual Receive Image
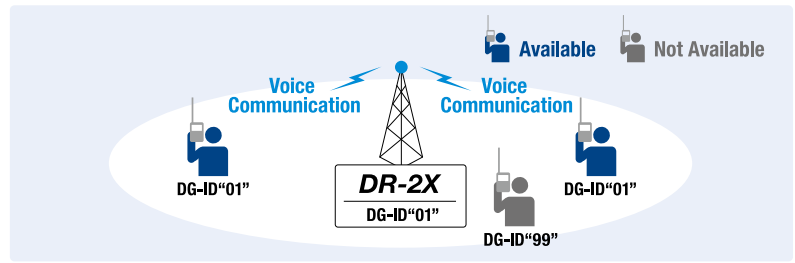
Enhanced Digital Group ID Feature

The revolutionary Digital Group ID feature allows tracking multiple communications resources quickly and efficiently by displaying the telemetry and signal strength information of the members that share the same Digital Group Identification number.

DG-ID (Digital Group Identification)

A Group ID of 0 to 99 can be assigned to operators that participate in group communications.

DP-ID (Digital Personal Identification)

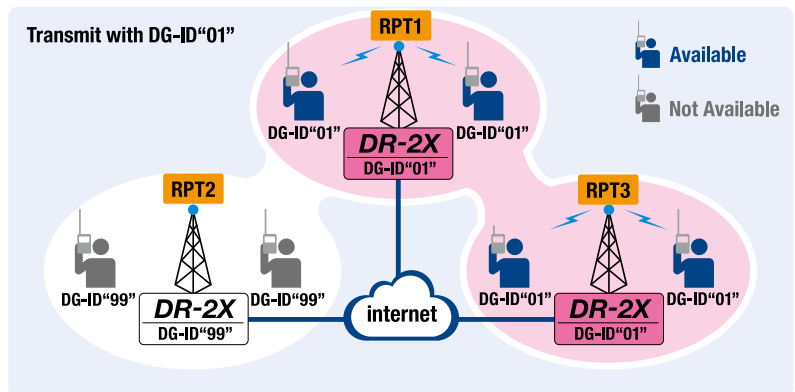A unique ID can be assigned to each radio for individual operator identification.

Digital Group ID Operation Image

IMRS (Internet-linked Multi-site Repeater System) for Wide Coverage Operation (Option*)

The IMRS (Internet-linked Multi-site Repeater System) allows the repeater operator to link multiple repeaters over a Wide-Area-Network (WAN), or a Local-area-network (LAN). Because of the reliability shortcomings inherent with WAN (Wide Area Network) connections, such as the internet, the new DR-2X incorporates direct connectivity between repeaters, permitting a variety of networking environments, and providing high quality Digital communication, even when "All Else Fails". The Repeater activation can be controlled by Digital Group Identification number (DG-ID/DP-ID).
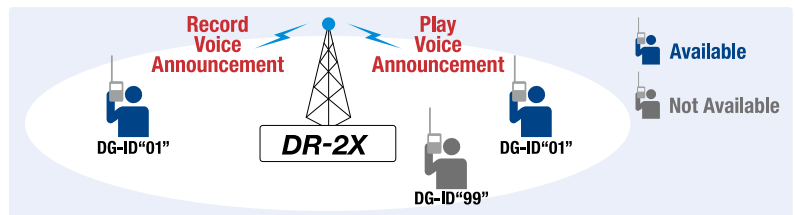 * Requires optional LAN unit (LAN-01A)

IMRS(Internet-linked Multi-site Repeater System) Image
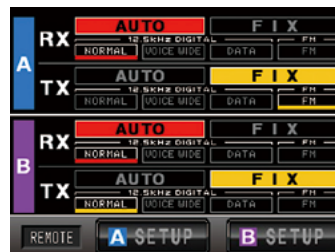
Improved "News Station" Feature

Groups or individuals can quickly store and retrieve digital audio. The users can then access the messages on demand, any time of the day.
* Requires optional LAN unit (LAN-01A)

News Station Image

User Friendly Set-up (3.5-inch Full Color Touch Panel Display)
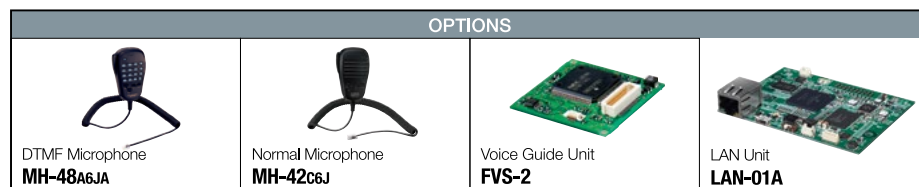

Setup screen

Frequency setting screen

CTCSS setting screen

Advanced Operation

The rear panel Control I/O port is connectable to the "S-COM 7330" repeater controller. This controller can manage up to three (3) DR-2X units, providing control of the programmable beep, the timer, access mode, and other features.

OPTIONS			
DTMF Microphone **MH-48A6JA**	Normal Microphone **MH-42C6J**	Voice Guide Unit **FVS-2**	LAN Unit **LAN-01A**

Other Features

• Internal AC power supply (US, Asia)
• 19" Rack Mount Capable
• High Stability ±2.5ppm TCXO
• DSQ (Digital Squelch Code) Signaling
• CTCSS and DCS Signaling
• ID announcement
  (Voice Mode: Requires FVS-2)
• Base Station Operation
• TOT (Time Out Timer)
• Firmware Updates