

Specifications

Receive frequency range	30.000000 - 470.000000 MHz 76.000000 - 108.000000MHz (WFM Only)
Frequency step	1/3.125/5/6.25/8.33/10/12.5/15/20/25/30/50/100/125/200kHz
Receiving mode	Analog Voice : AM / NAM / FM / NFM / FM radio broadcasts Digital Voice : DCR / DMR (Tier 1/2) / dPMR / NXDN / D-STAR / C4FM (DN) DATA: AIS / ACARS and compatible FSK signals
Operating voltage	Li-ion battery 3.6Vdc (EBP-114, 3120mAh) External power supply (USB Type-C) 5Vdc
Current consumption	Standby: Approx. 150mA (BS ON, backlight,/FM radio/GPS OFF) Standby: Approx. 300mA (Backlight / FM radio OFF / GPS ON) RX: Approx. 500mA (at rated output, FM mode, backlight/FM radio OFF, GPS ON)
Operation temperature	Reception: -20°C to +60°C Charging: +10 to +40°C (-4 deg - +140degF / 50 - 104 degF)
Dimensions (exclude antenna)	Width 58 (2.283) x height 110 (4.331) x depth 32.5mm (1.28 in)
Weight	Approx. 260g/9.171 ounce (antenna & EBP-114 included) Belt clip: Approx. 14g/0.4938 ounce

About IP67 Ingress Protection

This product has passed dust and immersion resistance tests equivalent to IP67, and is designed to be resistant to malfunction even when used around water or in dusty environments if the specified conditions are met. However, the unit is not resistant to corrosion, deterioration, or malfunction when subjected to water pressure or strong wind pressure, such as when cleaning under running water, or when exposed to special dusts or liquids, such as metallic, oily, or containing acids, salts, or chemical substances. If the product is subjected to water pressure, strong wind pressure, metallic, oily, acid, salt, or chemical substances, it may cause corrosion, deterioration, or failure, which is not covered by the warranty. When the product gets dirty or wet, keep in mind to maintain the product by immediately removing dirt and wiping with a dry cloth to keep it in good working condition for a long time. The shield material used for protection will deteriorate over time, resulting in deterioration of the protection. The warranty period for the outer protection is the same as the warranty period for the product.

Caution

Many countries and regions restrict use of communications receivers without permission. We recommend that you do not bring your receiver abroad. Even if a license or permission is not required, It is most likely prohibited to use information obtained by receiving communications without the sender's permission, leak it to others, or disclose it to the public, and violations are subject to penalty or punishment. Some places such as theme parks and concert halls restrict use of receivers. If you receive a warning, please follow the instructions immediately. Please use earphones when listening outdoors. Changes or Modifications to this device, not expressly approved by Alinco,Inc.,could void your authority to operate this device under FCC regulations. MODIFICATION OF THIS DEVICE TO RECEIVE CELLULAR RADIOTELEPHONE SERVICE SIGNALS IS PROHIBITED UNDER FCC RULES AND FEDERAL LAW.

Standard Accessories

EBP-114	Li-ion Battery pack 3.6V 3120mAh
EDC-351	USB adapter (T)
EDC-352	USB adapter (E)
EDS-39	USB cable (1m)
EA-295	Whip antenna
EBC-65	Belt clip (installed)



Optional Accessories

EDC-325T

Rapid charger



※ AC outlet plug-adaptor included.

EDH-46

Alkaline AA x 3pcs
Drycell battery case
(Battery life approx. 7 hrs.)



ESC-65

Soft case



Authorized Dealer:

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FNFNFINE-PE
Ver.1.0 X100TE
Printed in Japan

ALINCO

DJ-X100T ^{FC}
DJ-X100E ^{CE}



DIGITAL MULTI-MODE RECEIVER

Full-Scale Digital Reception Functions are condensed into this size.

In addition to analog communication modes that are still widely used, it supports the typical digital communication formats such as DMR and NXDN. The frequency range is 30MHz to 470MHz, boldly cutting off the bands no longer used for radio communication, and instead the low VHF to UHF communication bands are flat with little sensitivity difference to the edges. The design achieves IP67 dust and immersion resistance in a tight form reminiscent of RF measurement tools. Based on Alinco's receiver design know-how cultivated over many years, The DJ-X100 is a receiver with clear audio by DSP, a variety of reception modes by SDR configuration, and selective scanning of only nearby stations by GPS. The DJ-X100 is more than a receiver, it is a "multi-mode receiver".

Easy & Intuitive Operation

Intuitive operation with an easy-to-understand operation system

The setting menu is operated by dialing and the Enter key, and operation guide icons are displayed at the bottom of the screen. The hierarchical, easy-to-understand structure provides both multifunctionality and gentle operability.

USB Type-C Port

USB Type-C port

Charging with an USB adapter (approx. 5 hours) or connection to a PC is now possible with only the included USB cable. It can also be recharged with a portable battery charger, so it can be used together with the optional dry cell battery case for long-time field reception.

High Res Color TFT Display

Instrument-inspired design and easy-to-read color TFT LCD

A simple design reminiscent of a measuring instrument is adopted. The numeric keypad is finished smartly with membrane switches, and the screen display uses a 2.0-inch color TFT LCD with 320 x 240 pixels to display various information in a surprisingly easy-to-read manner. The display color can be freely specified using RGB values for the screen and text. The display color can be freely specified using RGB values for the screen and text. No matter what the color, the battery consumption is the same.

FM Broadcasting Monitor

Equipped with a FM radio monitor

A dedicated IC is used for FM radio reception, allowing users to enjoy FM radio broadcasts when there is no communication. When a signal is received, the radio volume can be automatically lowered to make it easier to hear communications.

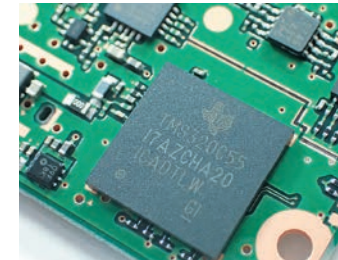
Receiving Modes

Analog Voice : AM / NAM / FM (20kHz) / NFM (12.5kHz) / FM radio broadcasts
Digital Voice : DCR / DMR (Tier 1/2) / dPMR / NXDN / D-STAR / C4FM (DN)
DATA : compatible FSK DATA signals (AIS and ACARS modes show text and location information on the display)

Low Current-consumption SDR

SDR configuration with low-current-consumption DSP

A low-current-consumption DSP is used for demodulation processing of digital and analog signals. The SDR configuration enables various modes of reception by software for both analog and digital signals.



GPS-Receiver Built-in

Find the nearest radio station with GPS

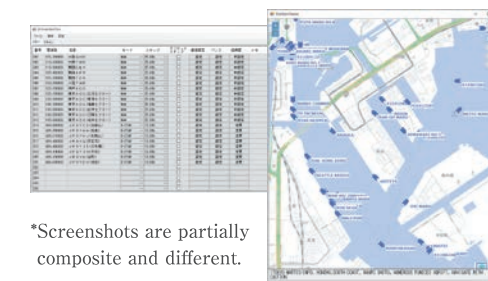
The GPS receiver is compatible with MICHIBIKI, GALILEO and GLONASS, and the "in-range search" function, which calls up only the memory channels of radio stations whose longitude and latitude are registered in advance



Utility & Geolocation Software

Editing and position display software

Utility software for memory, bank, and various function settings and name entry, as well as location display software that allows location information to be overlaid on a map, will be distributed free of charge from the Alinco website. The 12 kHz IF output (W/N) used by third-party receiver software is also supported.



*Screenshots are partially composite and different.

DIGITAL MULTI-MODE RECEIVER

DJ-X100T/E

Capable 999 Memory Channels

Equipped with 999 high-function memory channels

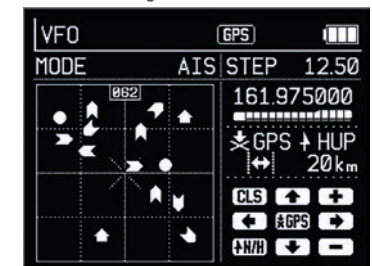
The 999-channel memory system supports advanced memory channel operation by registering a wide variety of data, including communication settings, memory names with 14 double-byte characters (28 single-byte characters), location information, and multiple registrations in 26 banks.



Direction & Distance Display

Position Display mode displays stations' positions on the screen

GPS position information and the position information contained in the received data signal are analyzed to display the other party's position and heading. AIS mode (position information transmitted by the vessel in real time) displays the vessel's position, direction of travel, and distance from the receiving location.



More & More features including...

- Programmed scans can be freely set up to 50 pairs, which can be connected to form up to 20 sets of links, allowing for a variety of scans.
- Timer skip, which is automatically cancelled after a specified period of time has elapsed.
- Priority scan that operates even during scanning to ensure that the desired signal is not missed.
- Convenient backlight control, such as turning on when scanning is stopped or when audio is output.
- Offset step for easy step switching
- CTCSS and DCS decoding including reverse.
- Analog tones/codes and DCR/NXDN user codes are automatically analyzed, received and displayed.
- 9 status of VFO/Memory, Scan, Setting screens, etc. can be instantly recalled with a long press of a key.
- Message display function that automatically displays text information when received.
- Large-diameter speakers and BTL amplifiers for high volume
- Commercially available stereo earphones usable (monaural audio)
- The set mode, which has more than 50 items in 11 menus, is packed with useful functions that cannot be described in detail !

Precautions before purchasing

You need to be familiar with the basics of communication reception such as radio wave modes, steps, shifts, tones, codes, scan types, etc., in order to use this receiver. Auto-mode, auto-step functions are not available. Memory channels are not registered at the time of shipment. Due to the nature of the product, we are unable to provide assistance in explaining the meaning of radio terminology. Inquiries regarding specific radio station frequencies and settings are not supported. There is no wiretap detection function in this product.

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