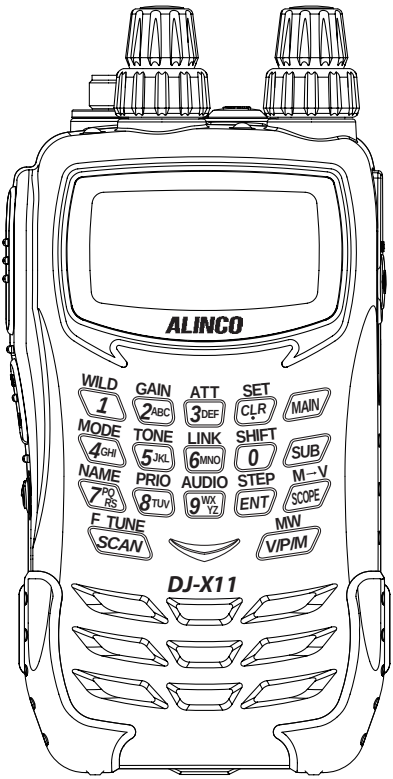
ALINCO

WIDE BAND COMMUNICATION RECEIVER

DJ-X11

Instruction Manual



Thank you for purchasing your new Alinco receiver. This instruction manual contains important safety and operating instructions. Please read this manual carefully before using the product and keep it for future reference.

ALINCO, INC

NOTICE / Compliance Information Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular moudulation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Tested to Comply
With FCC Standards
FOR HOME OR OFFICE USE

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Wide Band Communication Receiver DJ-X11T
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Manufacturer:
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CE **Conformity Information**

Alinco, Inc. Electronics Division hereby declare on our sole responsibility that the product(s) listed below comply the essential requirements of the Directive 1999/5/EC, The council of 3/9/99 on Radio Equipment and Telecommunication Terminal Equipment and the mutual recognition of their conformity and with the provisions of Annex, after having performed the required measurements at Notified Bodies per Standards, and relative certificate(s) or document(s) can be reviewed at http://www.alinco. com/Ce/

DJ-X11E: Wide Band Communication Receiver	0.05 - 1299.99995MHz
DJ-X11EGR: Portable broadcast/hamband Receiver	0.522 - 1.62000MHz
	53.75 - 67.7500MHz
	87.60 - 107.9000MHz
	144.00 - 145.99995MHz
	180.75 - 229.7500MHz
	430.00 - 439.99995MHz
	476.75 - 860.7500MHz
	1260.00 - 1299.99995MHz

Function:	DJ-X11E	DJ-X11EGR
Inversion scramble decoder:	Available	N/A

CE

DJ-X11E is authorized for use in all EU and EFTA member states except for Greece.
DJ-X11EGR is authorized for use in all EU and EFTA member states.

DJ-X11E : Band-plan setting instruction
In Europe, there are slight differences in frequency allocation country by country. Therefore the DJ-X11E has been preprogrammed with different VFO and Preset tables(band-plans) so that it will become handy when you travel. Select one of the band-plans by pressing the numeric key as instructed below when turning on the unit.

The band plan
Hold 2key while turning on : Pan-Europe
Hold 3key while turning on : UK
Please refer(P. 110)for the details of the band-plans.

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Warning

To prevent any hazard during operation of Alinco's radio product, in this manual and on the product you may find symbols shown below. Please read and understand the meanings of these symbols before starting to use the product.

Danger	This symbol is intended to alert the user to an immediate danger that may cause loss of life and property if the user disregards the warning.
Alert	This symbol is intended to alert the user to a possible hazard that may cause loss of life and property if the user disregards the warning.
Caution	This symbol is intended to alert the user to a possible hazard that may cause loss of property or injure the user if the warning is disregarded.

	Alert symbol. An explanation is given.
	Warning symbol. An explanation is given.
	Instruction symbol. An explanation is given.

Alert

■ Environment and condition of use

Do not use this product in close proximity to other electronic devices, especially medical ones. It may cause interference to those devices.

Keep the radio out of the reach of children.

In case a liquid leaks from the product, do not touch it. It may damage your skin. Rinse with plenty of cold water if the liquid contacted your skin.

Never operate this product in facilities where radio products are prohibited for use such as aboard aircraft, in airports, in ports, within or near the operating area of business wireless stations or their relay stations.

Use of this product may be prohibited or illegal outside of your country. Be informed in advance when you travel.

The manufacturer declines any responsibilities against loss of life and/or property due to a failure of this product when used to perform important tasks like life-guarding, surveillance, and rescue.

Risk of explosion if battery is replaced with an incorrect type.
Dispose of, or recycle used batteries according to your local regulations.

The manufacturer declines any responsibilities against loss of life and property due to a failure of this product when used with or as a part of a device made by third parties.

Use of third party accessory may result in damage to this product. It will void our warranty for repair.

■ Handling this product

Be sure to reduce the audio output level to minimum before using an earphone or a headset. Excessive audio may damage hearing.

Do not open the unit without permission or instruction from the manufacturer.
Unauthorized modification or repair may result in electric shock, fire and/or malfunction.

Do not operate this product in a wet place such as shower room. It may result in electric shock, fire and/or malfunction.

Do not place the product in a container carrying conductive materials, such as water or metal in close proximity to the product. A short-circuit to the product may result in electric shock, fire and/or malfunction.

■ About chargers

Do not use adapters other than having the specified voltage. It may result in electric shock, fire and/or malfunction.

Do not plug multiple devices using an adapter into a single wall outlet. It may result in overheating and/or fire.

Do not handle adapter with a wet hand. It may result in electric shock.

Securely plug the adapter into the wall outlet. Insecure installation may result in short-circuit, electronic shock and/or fire.

Do not use the adapter if the plug or socket contacts are dirty. Overheating and/or short-circuiting may result in fire, electric shock and/or damage to the product.

■ About power supply

Use only appropriate, reliable power supply of correct voltage and capacity.

Do not connect cables in reverse polarity. It may result in electric shock, fire and/or malfunction.

Do not plug multiple devices including the power supply into a single wall outlet. It may result in overheating and/or fire.

Do not handle a power supply with a wet hand. It may result in electric shock.

Securely plug the power supply to the wall outlet. Insecure installation may result in short-circuiting, electronic shock and/or fire.

Do not plug the power supply into the wall socket if the contacts are dirty.
Short-circuit and/or overheating may result in fire, electric shock and/or damage to the product.

Do not modify or remove fuse-assembly from the DC cable. It may result in fire, electric shock and/or damage to the product.

■ Cigar-lighter cable

Do not use the cable at any other than the specified voltage. It may result in electric shock, fire and/or malfunction.

Do not handle cigar cable with a wet hand. It may result in electric shock.

■ In case of emergency

In case of the following situation(s), please turn off the product, switch off the source of power, then remove or unplug the power-cord. Please contact your local dealer of this product for service and assistance. Do not use the product until the trouble is resolved. Do not try to troubleshoot the problem by yourself.

- When a strange sound, smoke and/or strange odor comes out of the product.
- When the product is dropped or the case is broken or cracked.
- When a liquid penetrated inside.
- When a power cord (including DC cables, AC cables and adapters) is damaged.

For your safety, turn off then remove all related AC lines to the product and its accessories from the wall outlet if a thunderstorm is likely.

■ Maintenance

Do not open the unit and its accessories. Please consult with your local dealer of this product for service and assistance.

Caution

■ Environment and condition of use

Do not use the product in proximity to a TV or a radio. It may cause interference or receive interference.

Do not install in a humid, dusty or insufficiently ventilated place. It may result in electric shock, fire and/or malfunction.

Do not install in an unstable or vibrating position. It may result in electric shock, fire and/or malfunction when/if the product falls to the ground.

Do not install the product in proximity to a source of heat and humidity such as a heater or a stove. Avoid placing the unit in direct sunlight.

Be cautious of a dew formation. Please completely dry the product before use when it happens.

■ About receiver

Be cautious of the whip antenna when carried in your shirt-pocket etc. It may make contact with your eye and cause injury.

Do not connect devices other than specified ones to the jacks and ports on the product. It may result in damage to the devices.

Turn off and remove the power source (AC cable, DC cable, battery, cigar cable, charger adapter etc.) from the product when the product is not in use for extended period of time or in case of maintenance.

Never pull the cord alone when you unplug AC cable form the wall outlet.

Use a clean, dry cloth to wipe off dirt and condensation from the surface of the product. Never use thinner or benzene for cleaning.

■ About power supply

Use only reliable power supply of specific DC output range and be mindful of the polarity of the cable and DC-jack.

Always turn off the power supply when connecting or disconnecting the cables.

When using an external antenna, make sure that the antenna ground is not common with the ground of the power supply.

European users: When a unit is powered from an external DC power source (adapter, power supply, cigar-plug etc.), make sure that this power supply has approval to the level of IEC/EN 60950-1.

■ Lightning

Any person is not safe outdoor during thunderstorm and lightning. This condition is getting worse if somebody keeps a hand-held radio; chances of being hit by lightning are doubled since lightning may hit a radio antenna as well. At this time, there is no hand-held radio having any kind of protection against lightning current (which is higher than 10 kA.). Note also that no car provides adequate protection of its passengers or drivers against lightning as well. Therefore, Alinco will not take responsibility for any danger associated with using its hand-held radios outdoor or inside the car during lightning.

■ Notice to California resident users

The Safe Drinking Water and Toxic Enforcement Act of 1986 of the State of California determines that lead and cadmium are considered carcinogens and reproductive toxicants. The product that comes with this manual is free from dangerous materials such as lead and cadmium as per RoHS order of EU.

■ Limited Power Source

Please note that the receiver enclosure only provides mechanical protection of its internal parts; it will not contain a fire within the device if the fire starts under certain fault conditions. Alinco will not take responsibility for any fire hazard associated with powering the receiver or charging its batteries using a power source which does not belong to the limited power sources in the meaning of EN 60950-1. Excluded from possible use with the receiver are most car cigarette lighters and some DC (AC/DC) power supplies. Make sure that the power supply used with the receiver is a limited power source.

Introduction

Thank you very much for purchasing this excellent Alinco receiver. Our products are ranked among the finest in the world. This radio has been manufactured with state of the art technology and it has been tested carefully at our factory. It is designed to operate to your satisfaction for many years under normal use.

PLEASE READ THIS MANUAL COMPLETELY TO LEARN ALL THE FUNCTIONS THE PRODUCT OFFERS. WE MADE EVERY ATTEMPT TO WRITE THIS MANUAL TO BE AS COMPREHENSIVE AND EASY TO UNDERSTAND AS POSSIBLE. IT IS IMPORTANT TO NOTE THAT SOME OF THE OPERATIONS MAY BE EXPLAINED IN RELATION TO INFORMATION IN PREVIOUS CHAPTERS. BY READING JUST ONE PART OF THE MANUAL, YOU RISK NOT UNDERSTANDING THE COMPLETE EXPLANATION OF THE FUNCTION.

“TV” as used in this manual refers to analog television.

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1

1. Features

The DJ-X11 is a multifunctional receiver which receives a wide range of radio signals from low-frequency (LF) signals to ultra-high-frequency (UHF) signals.
It provides the following features:

1. Receives a wide range of frequencies - between 0.05 and 1299.99995 MHz - including aviation radio and business communication frequencies.
2. Dual-frequency simultaneous reception for receiving signals with main and sub bands simultaneously. (The frequencies which can be received with the sub band are limited.)
3. Various reception modes supported including SSB/CW as well as FM/WFM/AM. The DJ-X11 can receive not only AM/FM radio signals and analog TV sounds, but also SSB mode signals which are used for amateur band Morse code and ship/aviation radios.
4. F Tuning function which quickly tunes to the very strong RF signal and receives it, if such signal may exist.
5. Built-in bar-antenna receives AM radio , eliminating the need to attach an external antenna.
6. Earphone cord can be used as an antenna to receive FM broadcast and other stronger signals without using an external antenna.
7. Automatic input switching. By connecting the optional remote controller to the earphone jack and connecting an MP3 player or other portable audio device to the controller, you can listen to music under normal conditions and hear receiver messages when the DJ-X11 receives any signals.
8. Bug Detector function in two modes. This function notifies you of the possible presence of a bugging device (wireless microphone) with a display, an alarm and a voice announcement.
9. Clone function for copying settings and various data between the receiver units. It is also possible to connect the receiver to a personal computer to edit settings and data.
10. Tone Squelch and DCS, cut off shrill and rattling noises so that only the target sound can be heard.
11. Scan speed is selectable from 3 levels. Select a fast scan speed to detect strong signals, and select a slower scan speed to detect weak signals.
12. Voice Guidance function which announces the result of key operations or the Bug Detector function in English.

2. Checking the Accessories

The package of the DJ-X11 contains the following items. Check that all items are included in your package before using the receiver.

- ☐ Instruction Manual (this manual)
- ☐ Warranty certificate (T/K versions only)
- ☐ Dry battery case (EDH-36)
- ☐ Lithium ion battery pack (EBP-74 3.7 V, 1800 mAh)
- ☐ AC adapter (EDC-139; T/K EDC-140; E/EGR)
- ☐ Charger stand (EDC-174)
- ☐ Whip antenna (SMA/EA-154)
- ☐ Belt clip (EBC-23)
- ☐ Hand strap

Standard accessory may vary depending on the model you have purchased. Please consult with your Alinco dealer of the details before purchase.

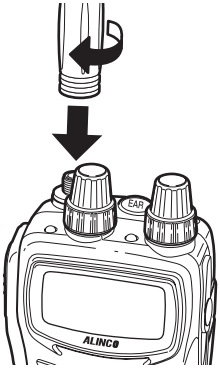
3. Attaching Accessories

3-1 Antenna

3-1-1 Attaching the antenna

1 **Hold the antenna at its base and rotate it clockwise (to the right).**

2 **When you cannot rotate the antenna further, confirm that it is securely attached to the receiver.**



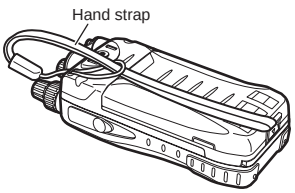
MEMO
- To avoid breakage, the supplied antenna is made of a more flexible material than that of typical antennae.
- This connector is also used for the connection of an external antenna.

3-1-2 Removing the antenna

1 **Rotate the antenna counterclockwise (to the left).**

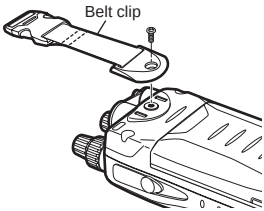
3-2 Hand Strap

1 **Attach the hand strap to the hole on the rear of the receiver as shown in the figure.**



3-3 Belt Clip

3-3-1 Attaching the belt clip



1 Align the belt clip with the groove at the rear of the receiver to secure it, insert the screw into the hole and rotate it clockwise (to the right).

2 Check that the belt clip is securely attached to the receiver.

* The screw may become loose during use. Check the tightness from time to time.

* The belt clip can be adjusted so that it can be used for a belt of approximately 8 cm width at maximum.

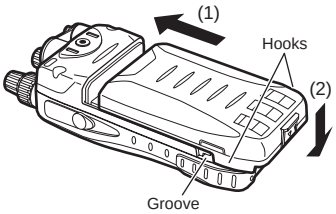
3-3-2 Removing the belt clip

1 Rotate the screw counterclockwise (to the left) and remove the belt clip.

3-4 Battery Pack

For the procedure for charging the lithium ion battery pack (EBP-74), refer to “Charging the Battery Pack with the Charger” (P. 18) and “Charging the Battery Pack through the DC Jack” (P. 17).

3-4-1 Attaching the battery pack

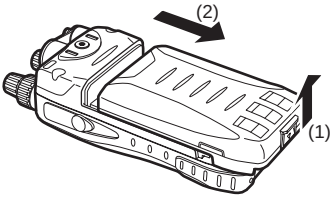


1 Align the hooks of the battery pack with the grooves of the receiver and push in the battery pack in the direction of arrow (1).

2 Slide the lock lever at the bottom of the battery pack in the direction of arrow (2).

3-4-2 Removing the battery pack

1 Slide the lock lever at the bottom of the battery pack in the direction of arrow (1) and remove the battery pack (2).



CAUTION

- The battery pack is not fully charged when shipped. You need to charge it after purchase before use.
- The battery pack must be charged within the temperature range of 0 to 40°C.
- Do not modify or dismantle the battery pack and do not throw it into fire or water. These actions are dangerous.
- Do not short-circuit the battery pack terminals. This may damage the equipment, or may cause burns by the heat generated from the battery. Do not charge the battery pack for an unnecessarily long time (over-charging). This may deteriorate battery performance.
- The battery pack should be stored in a dry place where the temperature range is between -10°C and +45°C. Storing the battery pack in locations with high humidity or temperatures outside the proper range may cause the battery solution to leak or the metal sections to rust.
- The battery pack is a consumable article. When the battery pack becomes exhausted extremely quickly even when it has been charged for the specified time, it may have reached the end of its life. In such a case, replace the battery pack with a new one.
- The battery pack is a recyclable resource. Do not dispose the battery pack but take it to a battery recycling center in your area. The battery pack is dedicated for use in Alinco products. It can be charged only using the applicable genuine charger or conforming receiver. Charging it with commercially-available or third-party chargers or adapters may cause a breakage or accident. Clean the electrodes of the battery pack and charger with a dry cotton swab from time to time.
- Even if you do not use the battery pack for a long time, charge it at least once every three months to prevent deterioration.
- The supplied battery pack is dedicated for use in the DJ-X11. Charging it with chargers or adapters other than specified models may cause a breakage or accident.

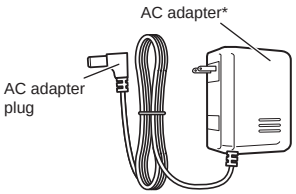
3-5 Charging the Battery Pack through the DC Jack

The supplied lithium ion battery pack can be charged through the DJ-X11 by using the supplied AC adapter and a DC power supply (6 VDC, 1 A or more: IEC/EN60950 standard). It takes about six hours to fully charge the battery pack from a state of complete discharge.

1 Attach the battery pack by referring to “Battery Pack” (P. 15).

2 Connect the plug of the AC adapter into the DC jack of the DJ-X11 and plug the AC adapter into a wall outlet.

* Your AC adapter may have a different shape from the AC adapter shown in the figure.



For the battery level indication during charging, refer to “Battery Level Icons” (P. 20).

CAUTION

- When the receiver is used with the supplied AC adapter connected, the reception may be affected by noise; however, this is not a malfunction.

MEMO

- Also read the precautions supplied with the optional accessories carefully to ensure proper use and safety.
- If the voltage of the wall outlet is not stable, the battery pack may not be charged properly.

3-6 Charging the Battery Pack with the Charger

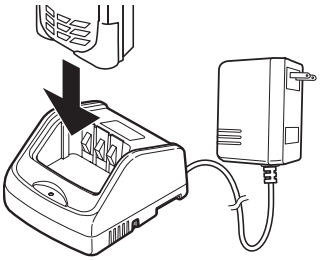
Using the supplied charger completes charging in about four hours from a state of complete discharge.

3

1 Connect the plug of the AC adapter to the charger.

2 Plug the AC adapter into a wall outlet and place the DJ-X11 on the charger.

During charging, the red lamp of the charger illuminates.
When the charging is complete,the lamp goes off.
EDC-174 doesn't charge when EBP-74 is fully charged and thered lamp stays off.

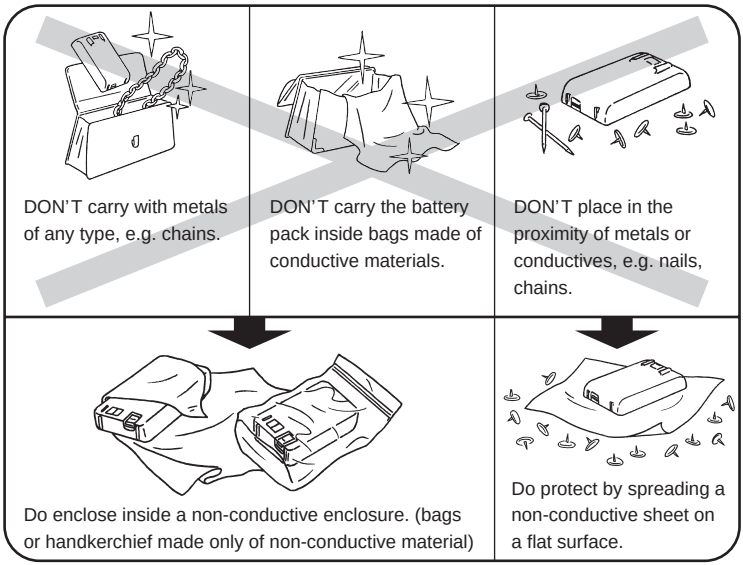


MEMO

- If charging fails with the battery pack attached to the receiver, try charging the battery pack alone and check the operation.
- The battery pack can also be charged by using the optional PC connection cable (ERW-8). (About eight hours)

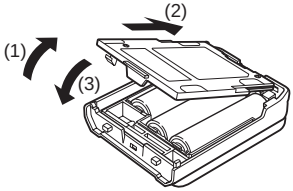
3-7 Preventing the Battery Pack from Short-circuiting

Take extreme caution when carrying the battery pack. A current surge caused by short-circuiting may cause a fire.

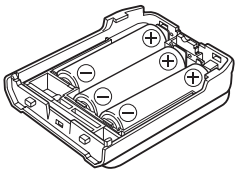


3-8 Dry Battery Case

1 **Push up tab (1) and remove the lid.**



2 **Set three AA dry batteries in the case and close the lid in the order of 2 and 3. Check that the lid is closed securely. You must use alkaline dry batteries. Manganese dry batteries cannot be used.**



MEMO

- To use dry batteries, read the instructions in “Battery setting” (P. 82).

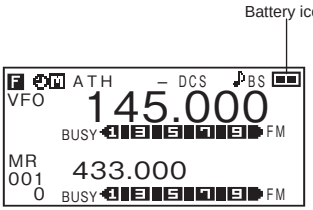
CAUTION

Precautions on using the dry battery case

- Be careful of the orientation of the batteries. Inserting them in the incorrect orientation may cause electrical leakage, fire, or explosion.
- Use new dry batteries of the same type and manufacturer.
- When replacing the batteries, replace all batteries with new ones.
- Rechargeable batteries must not be used. Alinco assumes no responsibility for any property damage or physical injuries resulting from the use of rechargeable batteries.
- Clean the electrodes which make contact with the dry batteries with a clean, dry cloth or cotton swab from time to time.
- Using batteries of the wrong type may cause an explosion.

3-9 Battery Level Icons

The battery icon displayed on the LCD of the DJ-X11 indicates the remaining battery power. When the battery icon indicates empty, charge the battery pack or replace the dry batteries with new ones.



Remaining battery power is sufficient.

Remaining dry battery power is sufficient.

Remaining battery power is decreasing.

Remaining dry battery power is decreasing.

Remaining battery power is low.

Remaining dry battery power is low.

Battery pack is being charged.

When the receiver is turned OFF, “Charging” is displayed on the LCD. When the charging is complete, “Charge completed” is displayed.