

# ALINCO

## HF Commercial Transceiver

# DX-801

### SIMPLE, CLEAN, DEPENDABLE.



**Engineered for satisfaction - Alinco's DX801 sets a new industry standard for commercial HF Transceivers, offering simple operation with up-to-minutes technology.**

**FULL COVERAGE:** The reliable DX-801 features full transmit and receive coverage of all HF bands 1.6000 through 29.9999MHz.

**ALL MODES:** Not only traditional SSB/AM, but DX801 operates in crisp-sounding FM and GMSK digital-voice modes\* for the highest communication security!

**COMPACTNESS:** The DX801 is so small, it can be positioned anywhere in a vehicle or office, occupies minimal clearance leaving you plenty of comfortable operating space.

**SIMPLE OPERATION:** The command keys are laid out to enable intuitive operation, so there is no need to spend hours studying the manual.

**101 CHANNELS and VFO MODE:** DX801 offers two operating modes. A programmable CHANNEL mode stores up to 100CH and 1 quick-recall CH. Each channel can memorize TX/RX frequencies, initial power setting and mode. In simplified VFO mode the

operator can select the frequency freely through the dial.\*\*

**CLONING CAPABILITY:** The operating channels can be programmed either from the front panel keyboard or from another preprogrammed DX801 through the optional ERW-5 for cloning multiple units.

**3 DISPLAY MODES:** DX801 can display either the channel-only, channel-and-frequency or frequency-only with 6 levels of illumination dimmer, from Off to Brightest.

**HIGH STABILITY:** The TCXO provides superb frequency stability of 0.5ppm and meets professional specifications around the world.

**SELECTABLE RF GAIN:** The user-selectable receiver gain control with a choice of +10dB, 0dB, -10dB and -20dB.

**MONITOR FUNCTION:** The Check key lets you monitor the transmitting frequency by just a touch of a button,

opening the squelch temporary.

**FLEXIBLE INSTALLATION:** A tilt-stand comes standard for the Desktop operation. With using optional accessories such as EBC-9 mobile-bracket, EBC-8 front-unit bracket and EDS-4/EDS-5/EDS-6 cables, DX801 can be securely and safely installed in a vehicle thanks to its detachable front-control unit.

**MORE FEATURES:** Additional features include RIT, Noise-blanker, Handheld microphone with UP/DOWN keys, Dial-lock, External-speaker/headphone ports and ALC relay port.

\* Where permitted. An optional EJ53U or 54U required.

\*\* Not recommended to operate in VFO mode permanently due to the mechanism of the main dial.



# DX-801



## SPECIFICATIONS

### General

Frequency coverage	Receiver: 0.5~29.9999MHz continuous Transmit: 1.6000~29.9999MHz continuous
Mode	J3E (USB,LSB),A3E(AM),F3E(FM),F1E(DIGITAL)(optinal)
Usable temperature	-10°C ~ +60 °C
Frequency Stability	± 2.0 ppm
Antenna Impedance	50 Ω unbalanced
Power supply	13.8V DC ±15%
Number of memories	100 channels simplex or semi-duplex + CALL channel (TX RX split frequency memory)
Current drain (13.8V DC)	Transmit 20A Receive 1.2A
Dimensions	W178 x H58 x D228mm (Projections not included) (W7.0 x H2.3 X D9.0 inches) W179 x H71 x D268mm (W7.1 x H2.3 X D10.6 inches)
Weight	Approx. 2.7kg (6.0lb)

### Transmitter

Output power	J3E(USB,LSB) 1.6~29.9999MHz 100W (Low 10W) A3E(AM) 1.6~29.9999MHz 40W (Low approx. 4W) F3E(FM) 1.6~29.9999MHz 100W (Low 10W)
Spurious emissions	Less than -40dB
Carrier suppression	More than 40dB
Unwanted sideband	More than 50dB (1kHz)
Modulation system	SSB Balanced AM Low power modulation FM Variable reactance DIGITAL GMSK reactance
Microphone Impedance	2kΩ

### Receiver

Sensitivity	J3E (1.8~30MHz) -12dBμ (0.25μV) S/N 10dB (0.5~1.8MHz) 0dBμ (1μV) S/N 10dB A3E (1.8~30MHz) +6dBμ (2μV) S/N 10dB (0.5~1.8MHz) +20dBμ (10μV) S/N 10dB F3E (28~30MHz) -6dBμ (0.5μV) SINAD 12dB
Selectivity	J3E 2.4kHz/-6dB 4.5kHz/-60dB A3E,F3E 9kHz/-6dB 20kHz/-50dB
Intermediate frequency	1st 71.75MHz 2nd 455kHz
Spurious and image rejection ratio	More than 70dB
Audio output power	More than 2.0W (8Ω,10%) 4W(4Ω,10%)
RIT variable range	±1.4kHz or ±0.2kHz (dealer programmable)

### Optional accessories

EDX-2	DM330 MVT/MVZ/MVE	EMS-14	EBC-8	EBC-9	EDS-4	EDS-6	EDS-5	ERW-5	EJ-53U*	EJ-54U*
automatic long-wire tuner	30A-class power supplies	Desktop microphone	Front-control unit bracket	Main-unit bracket	Separation cable (1.5m)	Separation cable (4.5m)	Microphone extension cable	Cloning cable	GMSK Voice-modem unit	GMSK Voice-modem unit

\* Where permitted.

- 1) **POWER SW**  
Press to turn on/off the power.
- 2) **DIMMER SW**  
Press to change the illumination brightness.
- 3) **HIGH/LOW**  
Toggles the transmitter output power High and Low.
- 4) **TUNE**  
Press to start antenna tuning.(if an optional auto-tuner is used.)
- 5) **DISPLAY**  
Large display shows Channel Numbers and/or Channel Numbers and Frequencies. Also S-meter, RF output, etc.
- 6) **CHECK**  
Press this button to monitor your transmitting frequency.
- 7) **CALL**  
Quick access to the CALL Channel.
- 8) **TX/RX LAMPS**  
Lights red while transmitting, lights green while receiving. Can be turned off for navigation in the dark.
- 9) **MAIN DIAL**  
Channel selection switch, a maximum of 101 channel memories. Each channel can be used for simplex, semi-duplex, or receiving only.
- 10) **DIAL LOCK**  
Locks the main dial.
- 11) **SQUELCH**  
Sets the squelch level.
- 12) **NB**  
Toggles the noise blanker on/off.
- 13) **RF/ATT**  
Press to change the receiver gain +10dB/0dB/-10dB/-20dB.
- 14) **RIT(Clarifier)**  
To fine tune the receiver frequency.
- 15) **AF GAIN**  
Audio volume control.
- 16) **MIC**  
Microphone connector (hand mic. comes standard with the DX-801)



Authorized Dealer:

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