

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-up 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



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INCORPORATED
Simple-Clean-Dependable

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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