

FOR SALE

Flex 3000 SDR Base Station

\$1200.00



(Monitor not included)

The Flex 3000 is a Software Defined HF Transceiver

General

Rx Frequency Range:

10 KHz - 60 MHz

(Customer provided preselector or appropriately selected low pass filters required to eliminate images when used below 1.8 MHz)

160 - 6 m (specified performance, Amateur bands only)

Transmitter Frequency Range:

160 - 6 m (Amateur bands only)

Frequency Stability:

TBD

Ambient Operating Temperature Range:

14 °F to 122 °F (-10 °C to +50 °C)

Emission Modes:

A1A (CW), A3E (AM), J3E (LSB, USB), F3E (FM),
F1B (RTTY), F1D (PACKET), F2D (PACKET)

Frequency Steps:

1Hz minimum

Antenna Impedance:

50 ohms

Power Consumption:

Rx 1.5A (typ.); Tx (100 W) 25A (max.)

Supply Voltage:

DC: DC 13.8 V ± 10%

Maximum Interconnect Cable Length:

Firewire - 10 feet (3m),

No restriction on DC power cable within voltage tolerance limits under load.

Special EMI/RFI Requirements:

NOTE: Necessary to minimize RFI radiation from the cables attached to the radio

1 snap on ferrite bead on DC power cable,

2 snap on ferrite beads on FireWire® cable

1 snap on ferrite bead on FlexWire™ cable

All beads to be located adjacent to rear panel of radio.

FLEX-3000 Dimensions:

(WxHxD): 12.25" x 1.75" x 12.25" (31.1 cm x 4.4 cm x 31.1 cm)

FLEX-3000 Weight:

(approx.): 9 lbs (4.08 kg)

Transmitter

Power Output:

1 - 100 watts PEP CW and SSB (2 - 25 watts AM carrier)

Emission Modes Types:

A1A (CWU, CWL), J3E (USB, LSB), A3E (AM), F3E (FM), DIGITAL

Spurious and Harmonic Radiation:

160-10m: -55 dB

6m: -65 dB

SSB Carrier Suppression:

Better than > 70 dB @ peak output

Undesired Sideband Suppression:

Better than 65 dB @ peak output

Audio Response (SSB):

90 Hz @ -3dB / flat to upper limit set by software, Software EQ optional

3rd-order IMD:

160-10m: -31 dB

6m: -30 dB

9th-order IMD:

160-10m: -48 dB

6m: -48 dB

Image Rejection:

TBD

Microphone Impedance:

600 Ohms (200 to 10k Ω)

Receiver

Circuit Type:

Direct conversion, low IF

Intermediate Frequency:

Software selectable from DC to 20 KHz

Sensitivity (preamp off/on):

1.3 / 0.3 μ V (-123/-133 dBm in 500 Hz)

MDS (preamp off/on):

-121 dBm (14.2 MHz, preamp off)

-135 dBm (14.2 MHz, preamp-2 on)

-137 dBm (50.125 MHz, preamp on)

IMD DR3 (dynamic range):

95 dB (@ 2 KHz spacing / 14.2 MHz)

IP3:

Greater than +26 dBm (preamp off)

IP2:

+69 dBm (Preamp off)

+45 dBm (Preamp-2 on)

Selectivity (-6 to 60 dB):

CW 500/640

SSB 2.39/2.54

AM 6.6/6.74

Image Rejection:

160-10m: 96dB or better

6m: 71 dB or better

Certifications:

CE Declaration of Conformity received May 2009.

I used this radio for four years without any problems or issues till the Firewire connector was damaged when I moved the unit from Texas. I sent the unit into Flex and they repaired the connector with a stronger connector and updated the radio to all the newest mods and specifications. This radio works great. I updated and went to a HF radio which did not require a PC to operate. This unit has a few scratches here and there, but they are only cosmetic in nature.

A great entry into SDR (Software Defined Radio), BTW it has a built-in tuner. Unit is supplied without a microphone, it uses the option of the speakers and mic on the PC.

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