

Transceiver selection and Specs.

Transceivers 1956-2018

From TUBES to SDR

Cadillac of Transceivers—considered the first SSB

Covers 20-10 meters in 100Khz segments, 10 available, crystal needed for each. Plug in crystal holder.

100 Watts output, final tuning done with rotary inductors not capacitors.

Very expensive then and now, currently \$700-\$1000 and up.



No CW Filter possible

COLLINS KWM-1

80-10 meter coverage

CW Mechanical Filter

100 watts output

\$400-\$1000

Good Performer

Tunes in 200 kHz Segments
14 positions



Collins KWM-2

Single Band Only in
Three versions
HW12A 75 meters
HW22A 40 meters
HW32A 20 Meters

SSB Only, No CW
100 Watts Output
Great performing rig
\$35.00-85.00



Tuning fast, can be hard
to get on exact
frequency.

Fixed loading, antenna
Impedance needs to be
close to 50 ohms.

Uses TV sweep tubes for
final amplifier.

Heathkit HW-12A

80-10 meter coverage
100 watt output
VFO reads in 1Khz
increments
Variable loading will
tune antennas with up
to 5:1 SWR

External VFO
available.

Finals are 6146B
Easily obtained

\$125-\$300.00

The workhorse of the
Heathkits



Heathkit SB-101

Three versions
SB-100 No CW Filter
SB-101 CW Filter
SB-102 Solid State VFO

Requires External
Power Supply \$75.00

160-10 meters.
digital readout to 100 Hz,
VFO readout in 1Khz
increments.

Can tune SWR up to 5:1

CW Filter available
Noise Blanker
Audio Processor
External VFO option
RIT & IF Shift
6146A final tubes
Built in Power Supply



Excellent Choice for
Starter Rig.

\$175.00-\$325.00

Kenwood TS-820s

Up Date of TS-820s

160-10 meters including 30m, 17m & 12m Tunes SWR's up to 5:1.

6146B Finals.

Optional SSB & CW filters.

Optional External VFO.

Noise Blanker & Audio Processor. Built in Power Supply.

\$225-\$400.00



Great for starter or main rig.

Kenwood TS-830s

100 Watts Output

Excellent Antenna Tuner

External 12V Power Supply Needed



Optional CW & SSB Filters

Variable Band Pass tuning

Optional Voice Recorder

KENWOOD TS-850s

\$300-\$700.00

100 watts Output

CW & Narrow SSB
filters optional

75-10 meters

External VFO
Optional

Digital & Analog
readout

Excellent for
anyone

\$175-\$300.00



Kenwood TS-130s

125 Watts - Sweep
tubes expensive
No CW Filter

SWAN 350

\$100-175 needs
external
power supply \$75.00



Somewhat drifty but good starter rig if price is right

SWAN 500C



150-200 Watts Output – Nice Vernier Tuning

Most Drift-Final Tubes Expensive-Poor Selectivity

100 Watts Output

CW & SSB Filters Optional

160-10 Meters Coverage
Except 30,17,12 Meters

Very good rig for beginner

\$150-\$300.00



Ten-Tec OMNI-D

100 Watts Output
Update to OMNI-D
160M-10M coverage



RigReference.com

\$225-\$350.00

Ten-Tec OMNI C

100 Watts Output: 160M-10M coverage: CW Keyer standard: 4 Optional Filters



Ten-Tec Corsair II

Audio Processor: Notch Filter: RIT & XIT: Noise Blanker: Variable Audio Band Pass Filter: Excellent QSK: Ext. VFO Optional: Considered to be the best and last of the VFO Transceivers: \$250-\$400.00 Highly Recommended:

Ten-Tec Argosy II

50 Watts Output

External 12V required

Optional CW Filter

Notch Filter

75-10M except 30, 17 & 12M

RIT

Excellent QSK

Great Lower Power Portable
Rig

\$150-\$275.00



100 Watts Output

160-10M Coverage

Notch & Noise Blanker

Audio filter for SSB & CW.
Optional CW Filter available

RIT

\$150-\$300.00

Good basic Rig.



Ten-Tec Delta

100 Watts Output

160-10 meters

No optional filters
Required. All are
DSP from 150 Hz to
8 kHz.

CW Keyer
Passband Tuning
Noise Blanker
DSP Noise Reduction
RIT/XIT

Modes SSB, CW, AM, FM

All controls Optical

RS-232 Serial Port

General Coverage Receiver



Ten-Tec Jupiter

Major Faults:

Little low on gain on weak 10m signals
Overloads on 40+ DB signals, Attn. eliminates problem

Two VFO's

Squelch

VFO steps 1 Hz to
100 kHz-- 7 total

Two versions:
Green Screen
Blue Screen with
CW Keyboard &
Reader

Excellent Transceiver
Has some of the best
receive audio of any

\$300-\$600.00 +

100 Watts Output: Noise Blanker: Pass Band Tuning: SSB,CW,FM, FSK Modes: Clock: Notch:

Optional Filters: Very Good Transceiver with two variations: OMNI VI & OMNI VI +



\$300.00---\$600.00

Ten-Tec OMNI VI



100 Watts Output

160-6 meters

Noise Blanker

Auto Notch +

Manual Notch

RIT/XIT

Noise Reduction

RF Preamp

Attenuator

Speech Processor

Up to 5 Mechanical Filters

38 DSP Filters

Optional Auto Tuner

Modes: SSB, CW, AM,

FM, FSK

General Coverage

Band Stacking R

Direct Frequency

RS-232 Serial Po

Ethernet Port: C

Operated remot

Remote Pad opt

\$700.00--\$1400.

Ten-Tec OMNI VII

Overall this is my pick
for a do it all rig

Ten-Tec Argonaut V

20 watts output

160-10 meters

General Coverage receiver.

Modes: SSB, CW, AM, FM, AFSK

2 VFO's

100 Memory's

Noise Blanker

35 DSP Filters

CW Keyer

\$250-\$400.00



This is a great choice for a QRP+ transceiver that does everything well

Ten-Tec Eagle



\$750--\$1200.00

This is the last 100 watt transceiver designed by the T-T Engineers. It has the best receiver performance of any and is for most part the receiver of the ORION II. Highly recommended.

100 Watts Output

Choice of any three
Collins Mechanical
Filters

127 DSP Filters

160-6 meters

CW Keyer

Auto Antenna Tuner

Auto Notch & Noise Reduction

General coverage receiver

USB port

10 Watts Output

Dual VFO's

160-10 Meters except 12m

3 optional Filters

100 DSP Filters

CW Keyer

Modes: SSB, CW, AM

Digital

USB Port

\$350 & UP



Excellent small QRP Rig that works great. Last rig designed by T-T and Jack Birchfield

The Holy Grail of Ten-Tec Rigs: Too many features to list all here: Dual Receivers with diversity reception



Ten-Tec ORION II

\$1800.00-\$2500.00

And NOW what you were waiting for—The best Transceiver on the market today as far as measured 3rd order intermodulation distortion goes. This is the spec that tells how resistive the receiver is to interference from a station that's 2 kHz off the desired frequency. This Transceiver has a measured 3rd order IMD of 116 db. The next best of a different make is the Elecraft K3S at 106 db. This one is not on the market so far but the nearest model cost \$7,500 this one will likely be higher.

ARE YOU READY— Money ready to purchase?



FlexRadio Systems
Software Defined Radios

FLEX-6400M



Control panel features:

- SOLO knob (AF AGCT/SQL)
- BW SELECT knob (A LOW SHIFT, B HIGH WIDTH)
- SOLO knob (AF AGCT/SQL)
- BW SELECT knob (B LOW SHIFT, HIGH WIDTH)
- MOX button
- TUNE button
- ATU button
- BYPASS button
- F1-F6 buttons
- TX MENU knob
- RX/TX RIT buttons
- A-B, A>>B, A STEP, B buttons
- A LOCK, B MENU buttons
- MIC SPEED PWR knob

The End