Comparison: Elecraft K3S/100, ICOM IC-7610

Rev. C5

Performance	K3S	IC-7610	K3S Benefits
Sherwood receiver listing (www.sherweng.com)	#2	#15	Higher performance in critical receive categories
Receiver 3rd order dynamic range (2 kHz)	106 dB	98 dB	Virtually eliminates QRM from close-spaced stations
Receiver blocking/desense dynamic range	150 dB	122 dB	Allows use of full receive sensitivity even in crowded band conditions
Reciprocal mixing dynamic range (RMDR), 2 kHz	115 dB	110 dB	Ultra clean/quiet receive for weak-signal work
Lowest usable supply voltage (approx.)	10 V	11.8 V	Allows field/emergency operation from batteries
Current drain in receive mode (approx.)	1 A	3 A	

Features (*with applicable option)	K3S	IC-7610	K3S Benefits
GENERAL			
Size (less projections or accessories)	430 in^3	672 in^3	Highly portable
Weight (less accessories)	9 lbs	19 lbs	
Modular construction / pricing	✔	-	Allows rig to be tailored to operator needs and budget
Internal 144 MHz transverter*	✔	-	All-mode 2 meter capability
Programmable transverter band displays	9	1	Easy VHF/UHF integration
Memories	150+	101	4 quick memories per band; 100 general-purpose
Programmable function switches	Up to 10	-	Customize panel controls
Dedicated controls for VFO B, RIT/XIT offset, mic gain, power output, A/B VFO momentary reverse	✔	-	Convenient, immediate access to frequently used controls
Front panel switch functions, total	74	36 (est.)	
Macros for remote control / automation	Yes; via K3S or K-Pod	-	Automate control sequences

Features, continued (*with applicable option)	K3S	IC-7610	K3S Benefits
RECEIVER			
Narrowband ADC protection (roofing filters)	Xtal Filters, bandwidth as low as 200 Hz*	LC filter, bandwidth est. 20 to 50 kHz**	Prevents ADC overload in crowded band conditions
Hardware / 1st IF noise blanker (in addition to DSP NB)	✔	DSP only	Blanks fast-rise-time pulses
Highly effective AGC noise pulse suppression	✔	-	Prevents S-meter "pinning"
Low-pass filters used in both receive and transmit paths	✔	-	Rejects high-band QRM
Front- and rear-panel headphone jacks	✔	-	Keeps cables out of the way
Built in CW text decode (in addition to RTTY / PSK)	✔	RTTY & PSK only	Ideal for copying fast CW
8-band RX EQ	✔	-	Tailors RX audio per-mode
Both main and sub audio available at LINE OUT	✔	-	Supports PC-based dual RX
Stereo / binaural audio effects in all RX modes	✔	In dual-watch only	Reduced operating fatigue
TRANSMITTER			
ATU* matching range @ 100 W	10:1 (typ)	3:1	Allows monoband antennas to be used on other bands
100% solid-state (PIN diode) T/R switching	✔	Diode + reed relay	Totally silent CW keying
Dedicated message play buttons (DVR & CW/data)	4 (8 messages)	0	Quick message play/record
ESSB mode	✔	-	Up to 4 kHz SSB bandwidth
Transmit TEST mode	✔	-	Allows off-air TX setup
8-band TX EQ	✔	-	Tailors EQ to your mic
Dedicated control for CW sidetone level; sidetone level independent of AF gain	✔	-	Convenient control of sidetone level in all cases
CW keying/QSK up to 100 WPM (QRQ mode)	✔	48 WPM max	Ideal for high-speed CW
Front- and rear-panel mic jacks	✔	-	Keeps cables out of the way
PANADAPTER / SPECTRUM SCOPE *			
Display unit	Separately enclosed (P3)	Internal	Radio can be used without P3 for portable applications
Spectrum + waterfall display area, total	7.5"	5.5"	More readable display
Marker pointing mechanism	Dedicated knob	Touch	Accurate marker tuning

** Without narrow roofing filters, strong signals anywhere inside a transceiver's LC band-pass filtering can cause ADC overrange.