1) T at 2) T w th 3) T T re	bis is the problem of using digital readout for what is basically an halogue function. It should prevent no problem in normal circumstances nough. The sensitivity of the FT-102 receiver section is sufficient in that you ould probably not need to use the RF pre-amp function available with is set. The receiver sensitivity in the CW mode was measured only at 14.2MHz. The result is satisfactory and in accordance with the reduced bandwith quired for CW. The figure shown here and in Table 1 indicated the strong signal perform-toce of the FT-102. The test simulated the ability to copy a weak SSB gnal in the presence of strong signals on a nearby frequency. Although e results are satisfactory by the standards of most HF amateur radio ara, they fall short of the manufacturer's claim for more than 100dB ynamic range. The results we obtained were a little over 90dB at best. Urthermore, the strong signal performance appears to fall off on the yoo highest bands. It must be said that the precise measuring technique fects the results obtained, particularly the frequency difference
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ar si th ge dy Fr tv af se st	parating the two signals. Our yardstick of 50kHz is perhaps more ringent than Yaesu's. However, we feel it reflects better the conditions kely to be encountered on, say, the 40m band at night.
	trong signal performance on CW, 14.2MHz only. Very good, but ill not the 100dB claimed by Yaesu.
la m	iven the effectiveness of the noise blanking system in practice, the ck of degradation in dynamic range is outstanding. Highest possible arks. Curious though as to why the 50% setting on 14.2MHz should tually improve the dynamic range of the receiver.
st Ti IF	his test simulates the adjacent channel performance: how much a rong neighbouring signal will interfere with the reception of a weak one. ne results are satisfactory but not outstanding. However, the shift/width system would considerably enhance the performance in a real life uation.
ac lia su co w	This test shows the receiver's sensitivity to transmissions which it isn't stually tuned to. As can be seen from the results the receiver would be able to interference from a wide range of off-frequency signals. We spect that these responses are a direct result of the large number of ontrol loops in the digital VCO. However the typical ATU/aerial system ould attenuate off-frequency signals well below the level simulated in its test. But even so
9,10,	11) Every aspect of transmitter operation was outstandingly good. The measured intermod levels (see graphs) had more in common with professional than amateur equipment standards. Excellent.
While doesr Yaesu been gone review	R CONCLUSIONS the FT102 in transmit mode is outstandingly good, the receiver section it really match up. If it hadn't been for the publicity blurb with which is decided to launch the transceiver, then we probably would not have so critical. However, we did find some rough edges in the receiver having out of our way to look. In fairness, Tony Bailey G3WPO, our practical wer, experienced no difficulties in practice save for a receive sprog in the band. In all, I would be very happy if I owned one. G4JST

designed primarily for SSB, the CW operator has to make do with the facilities provided, or build something specifically aimed at the mode. However, the FT-102 is no worse in this respect than any other transceiver of its type and will give perfectly satisfactory results in this mode.

Summary

Reviewing a rig is like reviewing a car - one reviewer will swear by it, another will swear at it, with personal preference showing through at times (you will have guessed that I like CW). What may be a bad or good point with one person could be totally irrelevant to another. Bear in mind that you can find something wrong with virtually anything, especially if you are looking for it, and such comments have to be taken in context. The fact that, for instance, a receiver has a horrible sproggle on 28.056MHz that bends the S-Meter against the end stop (not the FT-102 I hasten to add) may be indicative of bad design in various areas, but it becomes unimportant if you never use CW or 10 metres itself.

The major question to ask is "Does it provide what I want for the money?"

From an overall viewpoint, the FT-102 is a pleasant rig to use, and impressive to look at, with no major problems apparent and has the benefit of extensive signal processing available on receive. With options fitted, the transceiver should be very useful to the HF and transverting VHF operator, with sensible extra facilities taking the place of some of the more less-used and exotic features found in this price range. The completely controllable power output was liked, and essential with the varying licence restrictions for the new bands. If additional features are required, they can be obtained with the FV-102 remote VFO, which offers scanning and memory facilities, together with split frequency operation.

The valve PA should withstand abuse and will be an advantage for those wary of solid state equivalents — certainly it could not be faulted on quality of the transmitted signal. With some shopping around. it should be possible to obtain the FT-102 for around £700, at which it represents good value at its position in the market.