Cost. £225 plus P&P Company. Nevada Contact. Sales Tel 023-9231 3090 E-mail: info@nevada.co.uk

The President Lincoln 28MHz Multi-mode Transceiver

Keen 10 metre operator Jon Wheeler GOIUE was surprised when he was asked to review the President Lincoln 28MHz transceiver on behalf of *PW*. However he said "I didn't need to be asked twice"!

 Heading photograph:
 When he was 'on parade' with the President Lincoln transceiver Jon Wheeler
 GOIUE enjoyed the experience so much he bought the rig!

 Fig. 1: Inside top view of the transceiver, showing efficient heat-sinking arrangements, the neat layout and warnings not to tamper!

ow that single band 28MHz (10 metre) transceivers have been de-regulated and are legal for use in the United Kingdom, the President Lincoln is one of those available for Amateur use. The original prohibition dated back to the late 1980s. when a

restriction order

was placed on such equipment which also included the prohibition of converting 27MHz multi-mode radios to the 28MHz Amateur band.

Regretably, this latter piece of needless legislation has never been rescinded and unfortunately remains in force, despite the efforts of many Amateurs - including the Editor of *PW* who has frequently raised this point in his Keylines editorials. However, I'll get off of my own soapbox and on to the review now!

The Radio

The President Lincoln is a 28MHz multi-mode transceiver, capable of transmitting on the c.w., a.m., s.s.b. (l.s.b. and u.s.b.) and narrow band f.m. (n.b.f.m.) modes between 28 and 29.7MHz. The radio is clearly aimed at the world-wide CB market,

however, in this country it's supplied to cover only the 10 metre Amateur band allocation.

The manufacturer's specification states a transmitter output of 10W on a.m., c.w. and n.b.f.m. and 21W on s.s.b. It comes complete with a noise cancelling microphone with up/down frequency selection. Also included are a mobile mounting bracket, power lead, and detailed multilingual instruction book which includes a circuit diagram. The heading picture and the photographs in **Fig. 1**, and **2** clearly demonstrate how neat the transceiver is inside.

Front Panel

Let's look at the all important front panel. There are a host of functions available to the user and all are accessible from the front panel either by means of several rotary knobs or by simply pushing in/out buttons. A clear, but not overly large, orange tinted background liquid crystal display shows frequency, channel number, band

display (indicated as four banks of 50 channels and displayed as blocks A, B, C and D). Also available on the main display are an standing

wave ratio (s.w.r.) function indicator and modulation meter.

13 28. 123.

Away from the display is the rotary mode control allowing the user to switch easily between the c.w., a.m., s.s.b. and n.b.f.m. modes. An RIT function allows the user to adjust the receive frequency ±2.3kHz whilst the transmit frequency remains unaffected. This is particularly useful when in a QSO with a station whose transmit frequency doesn't quite match your own.

Power output can be varied between 1 and 10W in c.w., a.m. and n.b.f.m. modes only. Useful perhaps when driving a low input power amplifier.

There are the universally recognised volume and squelch rotary controls. The squelch has a useful function referred in the handbook as auto squelch, this basically sets the squelch at a preset level and would I suppose have its uses in a mobile scenario on either the a.m. or n.b.f.m. modes.





Product **The President Lincoln**

28MHz multi-mode Transceiver

Pros & Cons

Pros: Simple and easy to

receiver, good transmit audio

reports, built in

possible from the

microphone and a

manual that includes

speaker/Morse key,

bulky size in a

mobile set-up.

All in all, it was a pleasure

<u>S</u>ummary

to test this monoband

28MHz transceiver. The

President Lincoln gets a

definite thumbs up from

me, so much so that I've

model. What more can I

say - other than "See you on ten metres"?

Normally £225 plus £9

p&p, however Nevada have arranged a special

offer price of £199 for

PW readers (plus p&p) for

the on sale period of the

Thanks to Nevada of Unit

Hampshire PO6 1TT. Tel: 023-9231 3090, FAX 023-

9231 3091, for the loan of the review model.

Fig. 2: Inside view of the

underside of the chassis.

loudspeaker is mounted

underneath the unit.

When in use the

1, Fitzherbert Spur, Farlington, Portsmouth,

Price

July issue.

🛑 Thanks

decided to buy the review

no repeater shift, no memory facility and

comprehensive

Cons: Low output power, no jack plugs for

extension

a circuit.

VSWR meter frequency change

use.has v.f.o. tuning

to 100Hz, sensitive

Rear Panel

The rear panel sports the usual SO239 connector, and a two-pin power lead connection. There's also a very unusual 9-pin accessory connector, which can be seen in Fig. 3.

Being used to jack plugs it came as a surprise to be confronted with a 9-pin block that requires wires to be inserted across pins to obtain functions such a extension speaker, Morse key and PA speaker

connections. Although unusual it does work and is something I would get used to with time. Mounted on the underside panel is a 4W speaker. In my shack it was perfectly adequate, however, the addition of an extension speaker in a noisy (perhaps mobile) environment would be an advantage.

For my on-the-air tests I connected the radio to my G5RV antenna, via my antenna tuner but with it switched to by-pass as the G5RV matched so well, and switched on just after it had got dark one April evening and tuned across 28MHz. The band seemed dead until I tuned up to the n.b.f.m. section and found two local stations Kevin Romang G4SKN and Martin Yallop G4YNT, both in the Corsham area of Wiltshire, in QSO

I quickly took the opportunity to call in and spent the next half an hour having an enjoyable QSO with Kevin and Martin on a seldom used part of the 10 metre band (for local QSOs that is). I received favourable reports from both stations although it was implied that my audio level was "a little down" it was in no way a major criticism. On reflection it became apparent that I hadn't been speaking directly in to the microphone and the lack of audio was down to me, not the radio!

G5RV, I replied to a CQ from Rui CT3GV in Portugal on 28.508MHz s.s.b. He replied first time and gave me a 5-9 report. I was particularly impressed with the receive audio, which was very clear and in no way tinny.

26 April with LW9EOC in Argentina, and

PY1NEZ in Brazil. Both stations were worked on s.s.b. Incidentally...both stations were surprised that I was only running about 20W and my report on both occasions was 5 by 5.

A trip up to 29.600MHz netted Juan EA8AGQ, in Las Palmas Gran Canaria, who amazingly gave me 5 & 9 plus on n.b.f.m. Although he was running 40W, I could only give him 5 by 7 in return. And at this point I quickly set up my Yaesu FT-920, fitted a change-over switch between both radios and connected my 2element beam.

difference in what I heard between the two rigs. Yes, the FT-920 was better, it has better receive options (DSP, Noise Reduction, etc.) but the Lincoln held its own and marginal signals on the '920 were still copyable on the President Lincoln - so there's no doubt the review model had a pretty good receiver.

On The Air

together on 29.550MHz.

The following evening, again connected to my

More QSOs were made on the evening of the

To be honest there wasn't a vast

Scan Functions

Other useful facilities include a scan function that scans through all 50 channels of the selected block. Also available is a **Dim** button that allows the user to reduce the brightness of the display (I preferred it in the brighter position myself).

There's also a **Roger Beep** for those that want it. And there's a facility I found particularly useful: the frequency lock function. This allows you to lock the radio to a frequency of your choice - especially useful during this review when my five year-old daughter **Emma** decided to venture in to my shack and spin the v.f.o. knob to see what it did (luckily nothing as the frequency had been locked).

Public Address (PA) and Noise Blanker (NB) facilities are also available and 10kHz incremental steps can be selected via the up/down channel buttons. This made changing frequency while operating on n.b.f.m. much easier.

The most useful function for me was the v.f.o., allowing fine-tuning down to 100Hz, something not available on the Albrecht AE485s reviewed in PW a few months ago. This made operation (particularly mobile operation) so much easier.

There are no memory or repeater shift functions on the radio. This is disappointing because you can neither store your favourite channels/frequencies nor can you easily work through any of the 28MHz repeaters often heard so strongly when band is open. Whizzing the v.f.o. backwards and forwards between the input and output of a repeater is a tedious task and one you'll get fed up with in a hurry!





Going Mobile

panel complete with unusual 9-pin socket (see text for comments).

Fig. 4: Jon

Wheeler GOIUE

enjoyed using

the President

Lincoln 28MHz

transciever so

much that he

review model!

courtesy of Kevin

Romang G4SKN).

bought the

(Photograph

Fig. 3: The rear

The next day was actually a sunny one and it luckily coincided with a day off work for mobile tests. For these I looked out an old K40 CB antenna (shortened for 28MHz operation) fitted it on the roof of the car and installed the

Lincoln on the passenger seat. At this point I must confess that I'd invited Kevin G4SKN along with me as he had a digital camera and if any

photos of this part of the review are shown they are down to him. Thanks Kevin!

The President Lincoln is a little bulky compared to some mobile rigs on the market today. It's roughly the same size as the Icom IC-706 but has no remote head facility. For the purpose of the review I parked the car in a lay-by on high ground near Corsham, and because it was warm and sunny I placed the radio on the roof of the car next to the K40 antenna and called CQ on s.s.b..

At first there were no responses and although the band was open, conditions weren't that good. But a few minutes later we were called by Yura US5EAU, in Dnepr Ukraine. Yura gave me a 5 by 6 report and I replied with the same.

At this point I was happy with that and was preparing to put the transceiver back inside the car when we thought we heard a JA (Japanese) station. Kevin said give him a call.

I called "QRZ from GOIUE Mobile" and a reply of "the mobile station again please, this is JA7DYJ in Northern Japan" wow...we'd got him! Contact was established and



I worked Sato for a full five minutes on s.s.b. He was very surprised to hear where I had mounted the radio and that I was only running with about 21W.

Sato gave me a 5-5report; he was 5 by 8. There was an enormous pile up for him as soon as we'd signed so I guess I just timed my call right! Both Kevin and I were in a state of shock after that and once we'd picked ourselves up off the floor, we

departed from our vantage point, more than content with the results.

No Nonsense!

The President Lincoln is a no nonsense transceiver with enough functions to keep most people fully occupied. The lack of repeater shift and memory facilities wasn't too much of a problem to me but may be to some operators.

The front panel is well designed and easy to use. The l.c.d. display is clear and easy to view (I would have preferred it to be slightly larger though). The 9-pin block on the rear panel is clearly unusual for this type of radio and is something you would just have to live with I'm afraid.

The reports I had on the transmitted audio were very good and the receiver held up well when compared to my FT-920. I didn't try the rig on a.m. or c.w. but you should be able to read how much we enjoyed s.s.b. and n.b.f.m! DUI

MANUFACTURER'S SPECIFICATIONS

Channels **Frequency range**

Antenna impedance: Power supply: Dimensions (in mm): Weight:

Frequency deviation: Carrier power: Audio response: **Microphone Sensitivity:**

Current drain

Maximum sensitivity: 0.4 µV - 115dBm (s.s.b.) **Frequency response:**

Maximum audio power: Image rejection rate: **Receiver** (with signal)

c.w., a.m., s.s.b., n.b.f.m. manual quotes 26 to 29.7Mz. (Review model only 28 to 29.7MHz) 500

32 185 x 250 x 60 2kg

Accessories supplied: Microphone with support, mounting cradle, screws and fused power lead.

±300Hz

10W c.w., a.m., n.b.f.m., 21W s.s.b. 300Hz – 3kHz a.m., s.s.b., n.b.f.m. 6mV 4.5A (with modulation)

Ф.5µV – 113dBm (a.m./n.b.f.m.)

300Hz to 3kHz in a.m., s.s.b., n.b.f.m. 4W >70dB 1A nominal

