Monthly Newsletter

Of The

Ballarat Amateur Radio Group Inc. #6953T

Box 1261, Mail Centre, Ballarat, Victoria, 3356, Australia.

Next Meeting:

Friday, 31st of January, 2014, 7.30 pm





For those readers who may wish to read the English magazine Practical Wireless I intend to run down the index list each month so that those that have difficulty picking up or even perusing a copy at the newsagents can at least see here what articles you have missed.

You may then negotiate with a library or a copy holder to see an article your self. I know how frustrating it has been trying to obtain a copy of an article in a following edition.

The first review will start with the Jan 2014 copy.

Good reading. The good book fairy. !

WHAT'S IN Practical Electronics

Jan 2014 Practical Electronics

This is a glossy magazine and seems to have the same type of mouth watering advertisements like QST.

P6 Editors keyline talk.

- P7 Readers letters talks of Foundation tolerances.
- P12 Review of MFJ225 Graphical Antenna Analyser.
- P19 Analogue Devices design, and a JT9 Primer.
- P23 Emerging Technology. LEOS & PTT Comms.
- P26 RF Sensing and Switching. Construction details.
- P30 Active elements, Website for blind or partially sighted amateurs.
- P32 Receiving PSK31 Part 1.
- P36 Results of PW 70Mhz Contest for 2013.
- P42 Why not try 10M mobile.?
- P44 Low Power, QSLing and Band reports.
- P47 Some history and some Advice.
- P52 Simple two IC radio. Simplicity.
- P56 SSTV with a Smartphone and lots more.
- P60 Valve & Vintage Nostalga. Final column.
- P66 Four band HF vertical using plastic pipe.
- P68 Bargain Basement followed by the Classified ads. And on P70 the Traders Table of equipment sales
- P72 has the Radio Book Store listings.

Generally I feel the A4 publication has more interesting articles than the QST magazine,

Readers should decide themselves.

Craig, VK3KG



Features

- 16 Electric Superbikes: The Very Fast Sounds Of Silence Capable of speeds in excess of 200km/h, these electric superbikes from Ripperton and Varley are not only fast but almost silent – by Ross Tester
- 22 Update Your Car's Interior With LED Lighting Swapping out your car's old-fashioned incandescent interior lamps for cool white LED lamps is easy to do. They're brighter, draw far less current and have much better colour rendition – by Leo Simpson
- 44 A Look At The New PIC32MZ Microcontroller Microchip now has an updated version of the PIC32 microcontroller, called the PIC32MZ. It's faster, has better peripherals, a new CPU, more memory and can remap its I/O pins to aid PCB layout – by Geoff Graham
- 88 Review: Opus One A2696 DAB+ & Internet Tuner This digital tuner from Altronics not only receives DAB+ signals but also "tunes" internet radio stations with ease – by Geolf Graham

Projects To Build

- 26 Build An Electronic Bellbird Bring the sounds of the bush into your loungeroom. This simple project mimics the musical bell-like sounds of a real Bellbird (or Bell Miner) and has a dynamic LED chaser display as well – by John Clarke
- 34 PortaPAL-D: A Powerful, Portable PA System, Pt.1 Featuring Li-Po battery operation, high-efficiency loudspeakers and a 100W class-D amplifier, the PortaPAL-D is ideal for busking, sports events, meetings or anywhere you need a powerful, portable PA system – by John Clarke
- 64 More Reception Modes For The SiDRADIO & SDRs Want to get DAB+ reception on your SDR without unplugging the DVB-T dongle and plugging it into a different USB port on your PC? Want to receive narrowband digital mobile radio signals as well? Here's how – by Jim Rowe
- 80 "Tiny Tim" 10W/Channel Stereo Amplifier, Pt.2 This month, we show you how to assemble the amplifier and power supply PCBs and describe the case preparation – by Nicholas Vinen & Leo Simpson

Special Columns

58 Serviceman's Log

Variety is the spice of life & helps pay the bills - by Dave Thompson

70 Circuit Notebook

(1) Simple 2-Coil VLF Metal Locator; (2) USB Keyboard Emulation For A Microprocessor; (3) Re-housing An Apple Macbook Power Adaptor; (4) Revised Firmware For USB MIDI-Mate; (5) X-Y Test Pattern Generator For Analog Scopes

92 Vintage Radio

Too Cool for School: Kriesler 41-47 "Mini" transistor radio - by Ian Batty

Departments

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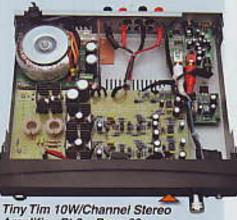


Update Your Car's Interior With Cool LED Lighting – Page 22.

> Build An Electronic Bellbird – Page 26.



PortaPAL-D: A Powerful, Portable PA System – Page 34.



Amplifier, Pt.2 – Page 80.

DECEMBER 2013 1

BARG Christmas Dinner at Clubrooms

















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Features

- 16 Raspberry Pi XBMC Solution For Multimedia Add element14's XBMC solution to your Raspberry PI to build a low cost, highperformance media centre for video and audio files - by Ross Tester
- 20 DRM Digital Radio: What It's All About DRM (Digital Radio Mondiale) is a new long-distance digital radio standard for the long-wave, medium-wave, shortwave and VHF bands. We take a look at the basics of DRM and explain how it works - by Jim Rowe
- 64 Using the SiDRADIO to receive DRM30 broadcasts Want to receive DRM30 broadcasts? All you need is our SiDRADIO, a PC running SDR# and some additional decoding software – by Jim Rowe
- 84 Review: Gratten Spectrum Analyser & Signal Generator Capable of working at the frequencies used by mobile phones, cordless phones, WIFI networking and so on, these two test instruments offer impressive performance, build quality and value for money - by Jim Rowe

Projects To Build

- 24 Build A GPS Tracker & Record Your Journeys This easy-to-build gadget precisely records where your car, boat or plane has travelled over time. By teaming It with Google Earth, you can then see your trips accurately mapped onto the surface of the Earth - by Geoff Graham
- 36 Dual-Channel Audio Delay For PA Systems Is the combined sound from the front and rear speakers of your PA system out of sync & muddled? This unit can delay the sound from the front speakers by up to 640ms or more to greatly improve intelligibility - by Nicholas Vinen
- 72 Alscolyser: For Accurate Alcohol Analysis Simple system accurately measures the amount of alcohol in a drink before it ever reaches your mouth, stomach, kidneys or whatever! It can also be used to check the accuracy of cheaple breath alcohol analysers - by Allan Linton-Smith
- 78 SiDRADIO: Integrated SDR With DVB-T Dongle, Pt.2 Second article shows you how to fit the various metal shields and complete the assembly by installing it all in a plastic instrument case - by Jim Rowe

Special Columns

46 Circuit Notebook (1) 24-Hour Mode For Nixie Clock; (2) Intelligent Drill Battery Charger; (3) Fail-Safe Starter For Induction Motor Speed Controller

Departments

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Note: due to space constraints, Tiny Tim Amplifier Pt.2 has been held over until December.



Build A GPS Tracker & Record 4 Your Journeys - Page 24.

Dual-Channel Audio Delay For PA Systems - Page 36

STREET ALBORT CHILD

10 .





REVIEW WITH CRAIG, VK3KG

REVIEW of the DECEMBER Edition of QST for 2013. No12.

P4 The index.

P9 Editorial looks at band openings, the years ahead for ARRL and its Centennial year coming up. P13 QST, Digital and the Android.

- P24 Letters inwards.
- P30 How much PUNCH can you get using different Modes?
- P33 Making the Switch to LED's. instead of pilot lamps.
- P35 Two band HF Ground plane uses ladder line.
- P38 Using modern Bread boarding techniques and Tools.
- P42 Review ICOM ID-51A Dual band handheld with D STAR.
- P46 The Doctor. Answers various questions on antennas this month.
- P48 Short Takes: DXLab Suite. Has many interesting and usefull programs And well worth downloading from <u>www.dxlabsuite.com</u>
- P49 Hands on Radio: Exp131 Coax to Open Wire Line Balun.
- P51 Eclectic Technology: First Amateur App for Google Glass. Find more From <u>www.google.com/glass/start/how-to-get-one/</u>
- P51 WSJT now Bilingual: Switches between JT9 and JT65. Find more at www.physics.princeton.edu/pulsar/K1JT/WSJT-X Users Guide v1.1.pdf.
- P52 Hints & Kinks: Solar light, Piano wire Ant and Ubunti VFO control.,
- P54 Santa Radio OF9X on the air from Finland. Updates on QRZ.com .
- P60 Contact I'll never Forget. Fr Moran 9N1MM and Lowell Thomas.
- P61 FCC names and issues warnings to several amateurs for Infractions Or unlicensed band operations. Will it happen in VK??
- P67 2014 ARRL's centennial QSO Party. Lists points claimable for various Members and office bearers. Are you into competitions.?
- P88 Hows DX? Kimaam Island {OC-275} IOTA Dxpedition. Sept 10-16.
- P90 World above 50Mhz: DX during a Solar Grand Minimum.
 - NOTE: In Australia ALL channel 0 stations have closed down.
- P95 Vintage Radio: The Massie Coherer.
- 97 Tips when shopping for an Antenna Tuner.
- P99 Op-Ed: Building a stronger future for Amateur Radio.
- P10075, 50 and 25Years ago. Read the index in these editions of QST.
- P164QST Index list of Advertisers.