

DORSET AMATEUR RADIO SOCIAL NETWORK

Technical Supplement

September 2026

www.darsn.co.uk

In this issue:

- POTA and 145 Alive News
- Camperham News
- DX News
- Icom IC-7110
- QRP Dummy Load



Lindsay - M9LIN
Secretary / Treasurer



Bill - M9WEG
Chairman



Tim - M9WWA
Editor

Events in September

The Worlds End
12th - 14th September
Almer.

145Alive
13th September
Nationwide
[Website](#)

See page 4 for more.

Nets

Mondays	No Darsn Net
Tuesdays	145.400 FM
Wednesdays	70.375 FM
Thursdays	Zoom Chat
Fridays	No Net
Saturdays	GB3OF
Sundays	144.375 USB

All details can be found on our Facebook page



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Callsign Changes

Peter G0PDF was G0JJI
 Lins M9LIN was 2E0VDD
 Tim M9WWA was 2E0TPH
 Bill M9WEG was 2E0WEG
 Mark M9LEG was 2E0VOV
 Jon M9VFR was 2E0WJD
 Other Callsigns you may hear
 David M0KYN (Club Callsign Holder)
 Reece M7DVX
 Martin M7HQU
 Neale M7NED
 Dave G7RSD
 Glyn M6OVN
 Mike G3SED
 Ron 2E0JPD
 Roger M0RJL

Your Projects Wanted !

Have you got a project that you would like to share with us?

You can submit articles / projects for inclusion here by sending them to the Editor.

Submissions should be tested and be of your own work. We cannot and will not publish anything we feel is Copyrighted material.

Anything is considered.

DARSN NETS!

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No DARSN Net on a Monday BUT, you are all welcome to Join in the Monday Evening Net on 145.375MHz (FM) hosted by [Poole Radio Society](#).

Check out the [NETS](#) Page for more details on Nets in the area.

DARSN would like to thank all of our volunteers who give up their time and resources to run the Nets. You are very much appreciated.

Misc News

You can now make donations to the upkeep of the repeater GB3OF. Donations are put towards the maintenance and future proofing. It does cost money to run and to keep the lights on.

We would appreciate a donation, no matter how small or insignificant you think it is. Every little bit helps.

To make a donation, scan the QR Code to the right or visit the [Donation](#) Page.

GB3OF is due to be linked with Echolink (GB3OF-R)
 Further details can be found on the official [DARSN Website](#).

Please leave a few seconds between overs to allow the Echolink system to catch up!



Wavelog has been updated to V3.1.0

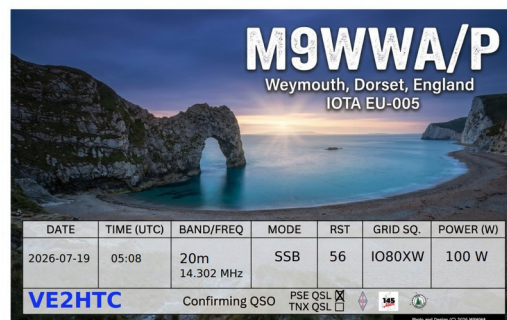
New features include a QSL card designer interface with multiple profiles for different events.

Create QSL cards based on events such as Sota, Pota Iota etc

You can also choose what QSL Card Template to use for which profile.

There really are no limits on how you configure.

[Apply for a Wavelog Account](#)



Don't forget that the Bandplans can be found on the RSGB Website in different formats. My favourite is "Tabbed HTML" which can be found here:

https://rsgb.services/public/bandplans/html/260125_rsgb_band_plan_2026.htm

Whilst I am going through some RSGB News, I would like to point out that the OLD QSL Card Address has now changed. If you are a RSGB Member and wish to use the QSL Card service, you now have to send your cards to:

RSGB QSL Bureau
 PO Box 73
 20 St. Loyes Street
 Bedford
 MK40 1ZL

If you wish to use a quicker service, you can send directly to D.A.R.C or upload your .adi file to them, there is a cost involved however and you can find out more by going to: https://qslshop.de/DARC-QSL-Service-GmbH_1

You can still pay a small fee if you are NOT a member and get your incoming cards sent to your address. For more information please go and take a look at:

<https://rsgb.org/main/operating/qsl-bureau/>

You will need to send envelopes to your [QSL Sub Manager](#)

DX News					
Start Date	End Date	DXCC	Callsign	QSL Via	Info
1 st Sep	12 th Sep	Grenada	J3	LoTW	By MM8IJU as J38LD and GM5RDX as J38DX fm IOTA NA-024; 80-6m; SSB FT8 FT4; QSL via M0OXO
3 rd Sep	7 th Sep	San Andres I	HK0	LoTW	By PY8WW fm IOTA NA-033; 20-6m; SSB CW + digital; holiday style operation; QSL via Club Log OQRS
4 th Sep	7 th Sep	Palau	T88PB	LoTW	By JA0JHQ fm Koror I (IOTA OC-009, PJ77fi); HF; CW; QRV for All Asia DX SSB; QSL via JA0JHQ direct
4 th Sep	11 th Sep	Kosovo	Z68PX	LoTW	By IZ2DPX fm Grashtice; 60-6m; SSB FT8 FT4; 100w; vertical, dipoles; QSL via Club Log OQRS or IZ2DPX (B/d)
4 th Sep	12 th Sep	Vietnam	3W9C	LoTW	By SP5APW fm Hon Son I (IOTA AS-128); focus on 6m, some 20 15 10m; QSL via Club Log OQRS
9 th Sep	25 th Sep	Franz Josef Land	RI1FJZ	LoTW	By RA1ZZ R9LR RA9USU RW6MD R9LM fm IOTA EU-019 (LR30us); 160-10m; CW SSB FT8; QSL via Club Log OQRS or R9LR
9 th Sep	30 th Sep	St Kitts & Nevis	V4	LoTW	By K0YA as V47YA and W5RCX as V47RCX fm St Kitts I; 160-6m; CW SSB FT8, V47RCX FT8 only; QSL OK via home_call
10 th Sep	24 th Sep	American Samoa	KH8WW	LoTW	By YL2GM EA5EL fm Aunu'u I; 160-10m, incl 60m; CW SSB RTTY FT8; Spiderbeam, vertical, DXCommander, inverted vee
12 th Sep	19 th Sep	Ogasawara	JD1	DK7PE (B/d)	By DK7PE as JD1/JG1PFR; HF; CW
20 th Sep	10 th Oct	Maldives	8Q7JH	LoTW	By DJ3JH fm Thulhagiri I (IOTA AS-013, MJ64me; 20 15 10m; CW SSB FT8; verticals; QSL via DJ3JH (B/d)
21 st Sep	12 th Oct	Samoa	5W0AF	LoTW	By SP5EAQ fm Apia; 40-10m, perhaps 80m; SSB
23 rd Sep23	29 th Sep	Bermuda	VP9I	LoTW	By N7NU WJ7R K7AR; @VP9GE; CQWW DX RTTY; QRV Sep 23-29 as N7NU/VP9; HF; SSB CW + digital; QSL via N7NU
24 th Sep	6 th Oct06	Ogasawara	JD1	LoTW	By JA1UII as JD1BON, JI1LET as JD1BOK, JE1NVD as JE1NVD/JD1, JI1CRM as JI1CRM/JD1 fm Chichijima I (IOTA AS-031); 160-6m; CQ SSB FT8 FT4; 200w, 50w; TA33jr, SpiderBeam, Dipole; QSL direct only
25 th Sep	28 th Sep	Mariana Is	KH0	LoTW	By JR1FKR as KH0/JR1FKR; 40 17 15 10 6m; SSB RTTY; holiday style operation; JA stns QSL via JR1FKR Buro or direct (w/ SASE)
30 th Sep	11 th Oct	Dem Rep Congo	9T0MD	LoTW	By MDXC Team; 160-6m; SSB CW FT8 RTTY; QSL via IK2VUC (B/d)

Events Guide

We are planning lots of events for 2026. I will try to dedicate a full page every issue so you can see whats coming up!



SAT NAV: DT11 9EW

WHAT 3 WORDS: ///sizing.crockery.pointed

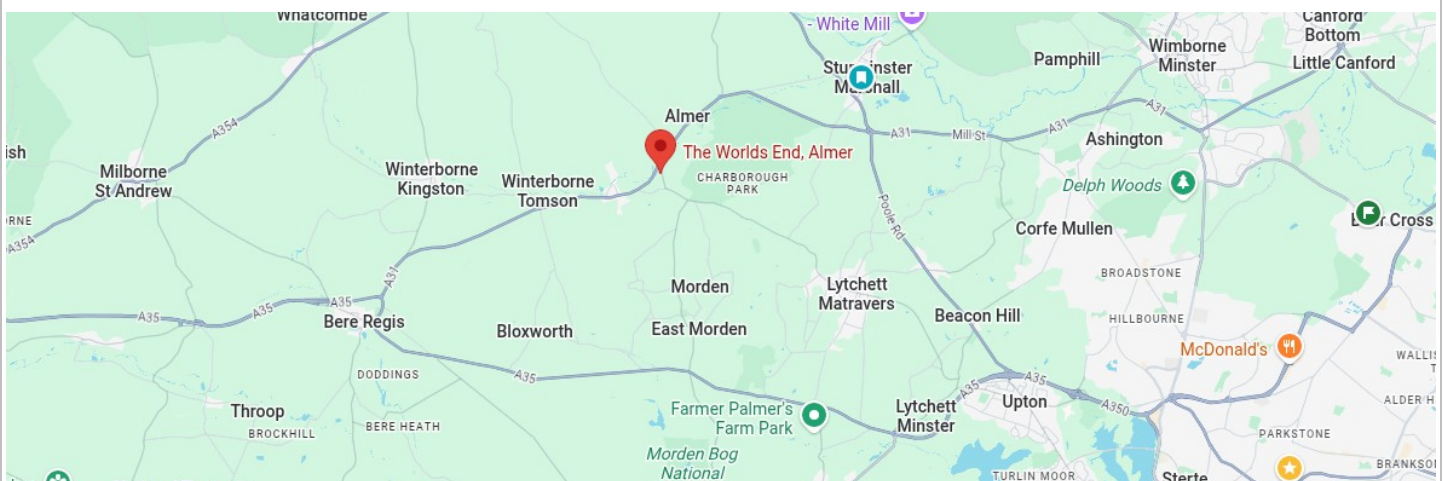
GRID REFERENCE: SY 90773 97811



The World's End, Almer, Blandford Forum, DT11 9EW

hello@worldsendalmer.co.uk

The World's End is located at the "gateway to Dorset" just off the A31 as you drive between Wimborne and Bere Regis. A perfect location to rest & refuel passengers on journeys between the London area & the South West. We're about 15 minutes' drive from Wimborne, 18 from Poole and 25 minutes from Dorchester. If you put our postcode into your Sat Nav, you'll get pretty close! Look out for the smart thatched pub and our trademark festoon lighting.



Events (Continued)



The next 145Alive event takes place on Sun 13th September 2026

The 12th July event was a huge success with 53 Nets across the UK and 10 in Norway.

2081 Contacts were made in total for this event with 1245 unique callsigns. A huge thank you to everyone who takes the time to take part in these events. Would you be interested in hosting a 145Alive net? Please take a look at <https://145alive.com/>

Three prizes were donated and awarded by [Martin Lynch and Sons](#)

Parks on the Air

Support Your Parks Weekends:

Winter - 3rd Full Weekend of January. January 16-17, 2027

Spring - 3rd Full Weekend of April. April 17-18, 2027

Summer - 3rd Full Weekend of July. July 18-19, 2026

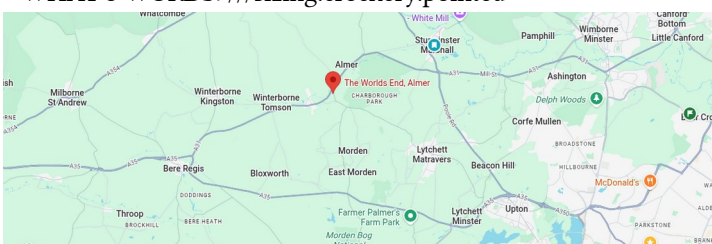
Autumn - 3rd Full Weekend of October. October 17-18, 2026



DARSN Camperham – The Worlds End 12th - 14th September
Come and join us at our Camperham event at The Worlds End Pub on the A31

The Worlds End, Almer
Almer, Blandford Forum DT11 9EW

WHAT 3 WORDS: [///sizing.crockery.pointed](http://sizing.crockery.pointed)



The Angel – Wareham - 22nd August 2026

A good time had by all at the Angel pub in Wareham forest, thanks to all those who came along including Paul G7EWY and his wife. Also great to meet G8RXR Roy & his good lady M9LIN

[Why not pop in for lunch?](#)



FRARS 2026



The Darsn crew set up a large stall at the Flight Refuelling (FRARS) Ham Fest on the 9th of August where we were promoting the G3DAR club.

We raised funds to keep the club going by selling merchandise and second hand bits and pieces, some of which were donated to the club by members.

We also showcased one of our trailers there to help advertise the group. It was a very hot day but the club raised over £200 for the club funds. A big thank you to all those who helped us set up and set down. A very successful day with lots of leaflets given out and networking achieved. Lindsay M9LIN

Mark M9LEG also took his drone and got some footage:

<https://www.youtube.com/watch?v=BGgvfwRX8aA>

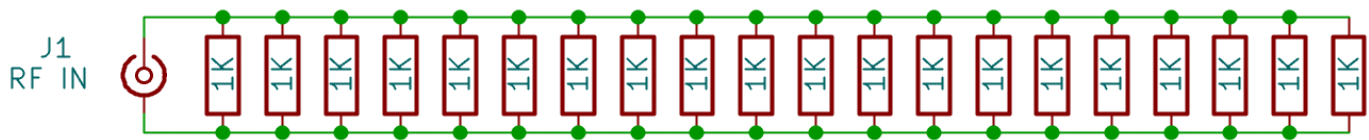
Some photographs on this page are ©Copyright M9LEG

QRP Dummy Load (50Ω)

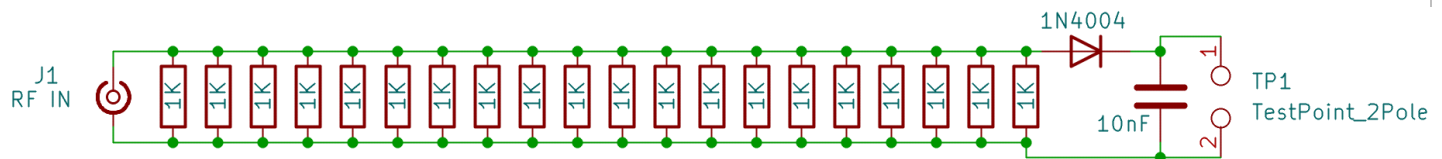
One of the most important bits of test equipment you can own is a dummy load. It's simply designed to present a 50Ω load to the device under test (DUT). This is important because a matched load impedance will enable maximum power transfer efficiency for further testing. For example, an incorrectly set bias on your transceivers final power amplifier may be specifically designed for a 50 match. This enables you to adjust power output and obtain accurate readings.

This dummy load is designed to handle 20Watts of RF power and can be easily assembled in several configurations such as stripboard, point to point or even Manhattan styles. The assembled final product should ideally be encapsulated into it's own small metal enclosure to avoid RF leakage into nearby objects and this also offers a heat dissipation method that will prolong the longevity and reliability of the load.

You will need 20 x 1K 1% 1Watt Resistors (use Metal Film or Metal Oxide), a small metal box and a connector of your choice (BNC, SO239, N Type)



This is about as simple as we can get. It would be handy to have some sort voltage measurement though and the following circuit provides this:



So how does this circuit help us?

Adding a Diode (1N4004) and a 10nF Capacitor) we can sample the voltage from the RF level. This will give us the ability to attach a Digital Volt Meter to the test points.

Put your RED probe on TP1, BLACK probe on the other.

This will give us a better understanding of what is happening when trying to troubleshoot intermittent TX issues. The voltage at the test points will not be a true linear scale but with some careful calibration and known RF power levels, you can easily enter the data into a spreadsheet to get a response curve. It is worthy to note that the second circuit is only used for low power measurement. You do not want to make a high power dummy load for a 1KW Amp and try to measure the voltage once passed through the Diode (Nasty things WILL happen)!

If you know you don't require that feature then stick with the first circuit.

When building the Dummy Load, I would advise you to obtain two pieces of board and space out the Resistors in a grid pattern. Sandwich the resistors between both pieces and leave a small gap between them for airflow. If you intend to build this into a die-cast box then may I suggest that you test the circuit in situ, it should not get hot at the full 20 Watts but it will be warm. If you replace the Resistors with 5 Watt versions, and you can, please build a simple fan control circuit or place a heatsink on the box. It would of course be better to use an extruded heatsink and mount the entire circuit to that for better Thermal relief.

You can search for "Homebrew Dummy Load" and check out what other people have built.

<https://k4eaa.com/dummy.html> is a good place to start
<https://www.hamradioworkbench.com/qrp-dummy-load.html>



PRE-RELEASE INFORMATION

NEW

**HF/VHF/UHF ALL MODE TRANSCEIVER
IC-7110**

*All band, all mode
for every operating environment.*



Photo is an image of in-vehicle use. Installation for in-vehicle use must comply with the applicable laws and regulations of each country.

**HF/VHF/UHF ALL MODE TRANSCEIVER
IC-7110**



HF/50/70*/144/430/440 MHz ALL Mode Coverage

*70 MHz for only EUR version

Real-Time Spectrum Scope and Waterfall Display

CW Decoder

Comprehensive D-STAR Functionality

4.3-inch Large Color Display with Touch Operation

Dualwatch for HF/VHF and HF/UHF

Simple Configuration for FT8 Operation

Wi-Fi® (2.4 GHz / 5 GHz) and Bluetooth® Connectivity

D-STAR



Promotion Video

HF/50/70*/144/430/440 MHz ALL Mode Coverage

*70 MHz for only EUR version

Enjoy a wide range of bands—from HF to 50/VHF/UHF MHz—in SSB, CW, RTTY, AM, FM, and D-STAR DV mode. The IC-7110 delivers 100 W output on HF/50 MHz and 50 W on VHF/UHF. FM broadcast and airband reception also supported.

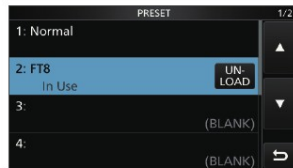
Dualwatch for HF/VHF and HF/UHF

The receiver section incorporates independent circuits for HF/50 MHz and VHF/UHF, enabling true dual-watch operation. Operating modes can be set independently for each band. You can enjoy operation on VHF or UHF while monitoring HF band conditions supporting advanced multi-band operation.



Simple Configuration for FT8 Operation

FT8 operation is made easier with the simplified FT8 preset. Selecting FT8 from the [Preset] menu automatically configures all required parameters. Switching back to normal operation is just as simple—select [Normal]. Presets 3–5 can store new preset information, allowing future digital modes, such as SSTV, to be supported.



Real-Time Spectrum Scope and Waterfall Display

The IC-7110 features a real-time spectrum scope and waterfall display. The real-time scope allows quick identification of open frequencies, band conditions, and rapid access to target signals. The waterfall display provides a graphical view of how received signals change over time.



CW Decoder

The IC-7110 includes the highly acclaimed CW decoder from the IC-7300MK2.

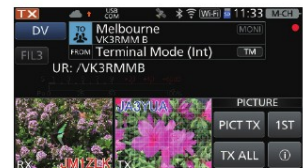
Settings include decode key speed (AUTO, LOCK, KEY SPEED link), decode filter (AUTO, FIX), and threshold (AUTO, MANUAL), allowing customization to suit operating conditions.

Note: Decoding accuracy may vary depending on reception conditions.



Comprehensive D-STAR Functions

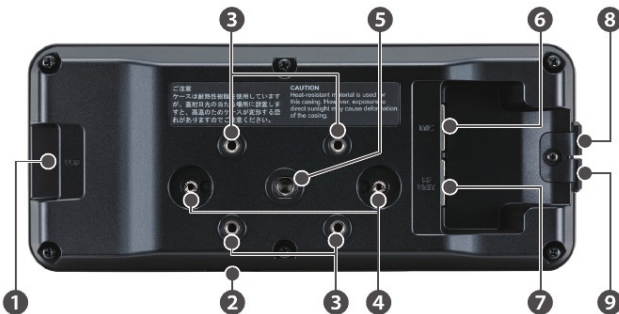
The IC-7110 offers a full suite of D-STAR features, including DR mode, Terminal/Access Point mode, and DV repeater monitor. Picture transmission, reception, and viewing are possible directly on the IC-7110 without external devices.



Wi-Fi® (2.4 GHz / 5 GHz) and Bluetooth® Connectivity

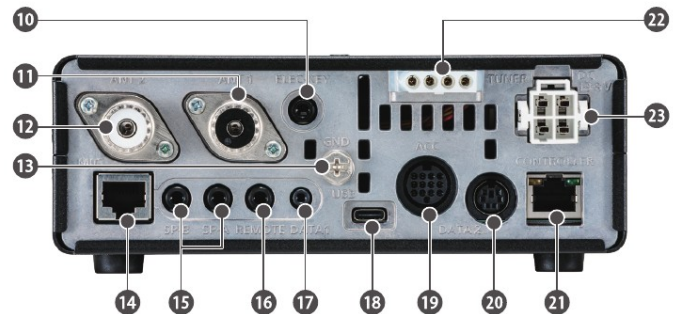
Wi-Fi® provides smooth Internet access for Terminal and Access Point modes, with stable performance. The unit connects wirelessly to a smartphone or PC for easy app use, and pairing with a Bluetooth® headset enables flexible hands-free operation. Features online updates for D-STAR repeater lists and firmware via Wi-Fi®.

Controller



- 1 USB Type-C™ port
- 2 microSD Card Slot
- 3 AMPS Hole Pattern
- 4 Magnet for Optional Accessories
- 5 1/4-20 Tripod Mount
- 6 Microphone Connector
- 7 Main Unit Connection Port
- 8 Electronic Keyer Jack
- 9 Headphone Jack

Main Unit



- 10 Electronic Keyer Jack
- 11 HF/50 MHz antenna connector
- 12 144/430 MHz antenna connector
- 13 GND Terminal
- 14 Microphone Connector
- 15 External Speaker Jack
- 16 Remote Jack
- 17 DATA1 Jack
- 18 USB Type-C™ Port
- 19 ACC Socket
- 20 DATA2 Socket
- 21 Controller Connector
- 22 Tuner Connector
- 23 DC Power Input Connector

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Well, that's this end of the September Newsletter. I hope you have enjoyed this issue.
We have had to scale back the size of the Newsletter until October then we get back to normality.

Join the [Facebook Group](#) to get the newsletter or view it online <https://www.darsn.co.uk>.
You can also download the latest issue at www.wavewizards.org/newsletter

As usual, a huge thanks to everyone who go out and participate in events and meet ups.
Until next time, keep those finals warm. 73's Tim [M9WWA - Ed]

Make a Donation <https://pay.collectiv.com/dorset-amateur-radio-social-network-running-costs-33420>

Lots of merchandise available check out the Online Store for details, let me know if you would like anything.

Caps, t-shirts, key rings, sweatshirts, hoodies, chopping boards, pens, lanyards, note books, mugs etc

We are a not for profit club and all proceeds go towards keeping the club going.



Thank you for your support M9LIN

DARSN