TOPBYTES LTD
Product brochure · topbytes.net/dxspotterpro

DESIGNED AND BUILT IN BRITAIN

DX Spotter Pro

The DX cluster and propagation, on a 7-inch touchscreen

Live DX spots, HamQSL propagation and callsign alerts on one bright screen, set up and run entirely by touch: no PC, no logging software, no phone. The flagship of the TopBytes range, now on firmware 2.1 with new themes, night mode and an on-screen settings page.



Illustration: DX Spotter Pro main screen (Classic theme), captured from the unit and shown on the TopBytes 7-inch unit. Live cluster data.

Live DX spots

Any DX cluster over Wi-Fi; tap a spot for the full detail

Live propagation

SFI, sunspots, A and K, and day/night conditions per band

DX alerts

Up to 10 callsigns or prefixes, with a pop-up the moment one is spotted

Propagation data courtesy of HamQSL.com (N0NBH); QRZ.com lookup needs your own QRZ.com subscription.

AT A GLANCE

The flagship of the TopBytes range

Every DXer runs the same loop: check the cluster, check the conditions, decide where to listen. Usually that means a PC with logging software or a phone app. DX Spotter Pro puts the whole loop on one always-on 7-inch screen beside the radio, readable from across the shack.

It is a complete unit, supplied ready to use: connect it to Wi-Fi, enter your callsign and the spots start arriving. The current firmware, 2.1.0, adds themes, night mode and an on-screen settings page, and new versions install themselves free over Wi-Fi.

What you see

- Spots, conditions and alerts on one screen, at a glance
- Solar flux, sunspots, A and K, and every band's day and night conditions
- A pop-up the moment a wanted callsign or prefix is spotted
- Full spot detail with a tap

Easy to own

- Set up in minutes on the screen itself: no laptop needed
- No PC, logging software or phone app
- Reconnects by itself after Wi-Fi or cluster drops
- Free over-the-air updates keep it current

Make it yours

- Three themes: Classic, Neon and Amber
- Five built-in clusters plus up to five of your own
- Band and mode filters, with your own presets
- Night mode switches the screen off overnight

7"	10	5+5	3
800 × 480 capacitive touch	DX alert callsigns/prefixes	built-in + custom clusters	themes, with night mode

ALWAYS IMPROVING

- Current firmware (version 2.1.0): a settings page, three themes, night mode, a Wi-Fi signal icon, an About page with update check, and QRZ.com sign-in on the screen.
- Free over-the-air updates from the TopBytes update service, checked automatically every hour.
- Full user manual online at topbytes.net/dxspotterpro, with screenshots, a setup guide and troubleshooting.

WHAT IT DOES

Every spot and the conditions, together

The screen is laid out the way a DXer thinks: the live spot list on the left, the propagation picture on the right, and the callsign, clock, cluster and Wi-Fi status across the top. Nothing to page through, nothing hidden behind menus.



Main screen (Classic theme): newest spots at the top with frequency, DX call, spotter, time and comment; propagation panel on the right. Captured from the unit.



Tap a spot for the full detail. With your own QRZ.com subscription it adds the operator's name, QTH, grid and country flag.



Tap the cluster name to switch server: five built-in clusters plus up to five of your own.

- Any standard DX cluster (DX-Spider, CC Cluster, AR-Cluster) over Telnet; logs in with your callsign
- Live spot list with time shown in your own time zone, daylight saving handled
- Spot history configurable from 8 to 128 spots
- Reconnects by itself after Wi-Fi or cluster drops; up to five Wi-Fi networks remembered
- Web portal as well as the touchscreen, for bulk edits and custom clusters
- Open standards: DX cluster Telnet and HamQSL data, no cloud account

DX ALERTS

Never miss the one you need

Enter the calls or prefixes you are chasing, such as a DXpedition or a missing country, and DX Spotter Pro watches the cluster for you. When one is spotted the screen says so straight away, even from across the room.



A DX alert: the matching spot is highlighted in amber in the list and a pop-up shows the full spot, with QRZ.com details where enabled.



Alerts are added and removed on the screen (ALERTS) or in the web portal.



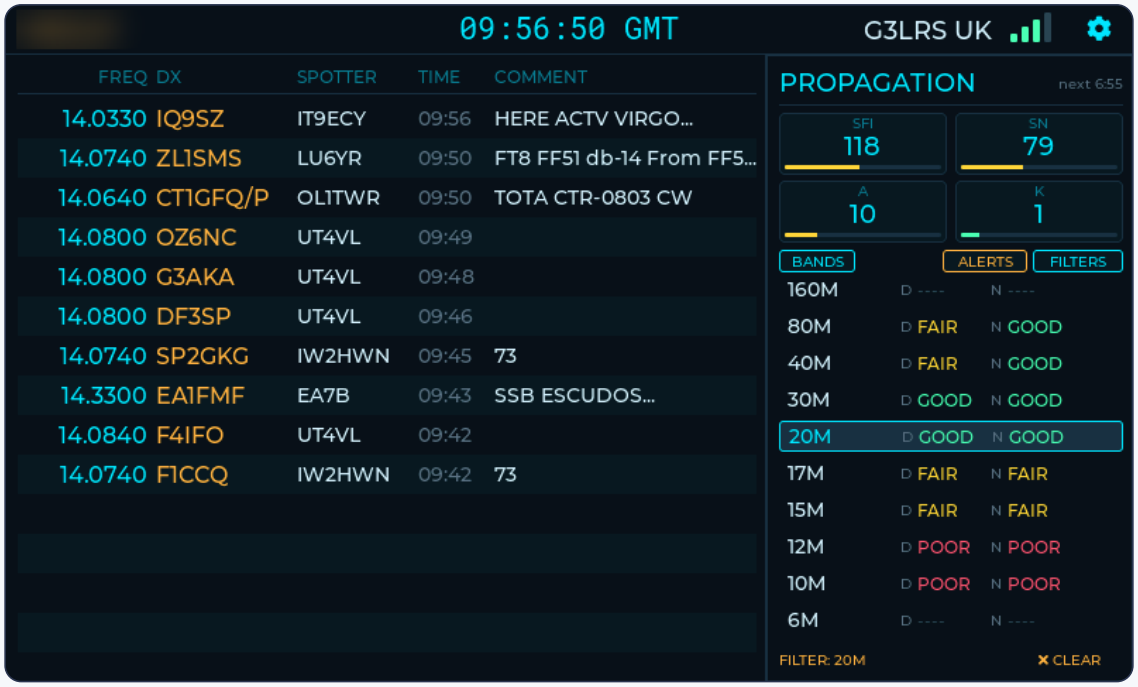
Mode filters (CW, SSB, FT8, FT4, RTTY, PSK) and your own presets.

- Up to 10 alert entries: a prefix such as 3B7 matches every 3B7 station
- Auto-dismiss timer: 60 seconds by default, or keep the pop-up until tapped
- Wakes the screen from night mode, so an overnight alert isn't missed
- Filters combine: one band and one mode at a time, applied on the cluster

PROPAGATION AND BANDS

Which bands are open right now

The right-hand panel answers the other half of the question. Solar flux, sunspot number and the A and K indices are shown with coloured gauges, and each band shows its day and night condition. Tap a band and the spot list shows only that band.



12M tapped in the propagation panel: the band is highlighted, the cluster sends only 12M spots and the footer shows FILTER: 12M.



BANDS: choose up to 10 bands, from LF through HF, VHF, UHF and microwave, plus the CB bands if turned on.



The default set, 160M to 6M, with GOOD / FAIR / POOR colour-coded for day (D) and night (N).

Propagation data

- HamQSL.com solar data (N0NBH), credited in the manual
- Served from a cached TopBytes feed and refreshed in the background
- Spots keep streaming even if the propagation feed is unavailable

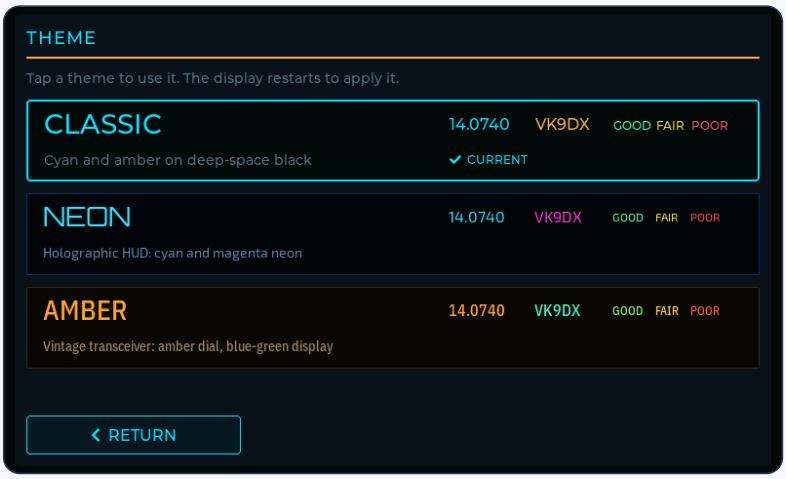
Band control

- One tap on a band applies it as a cluster filter; CLEAR removes it
- Bands HamQSL doesn't cover (e.g. 60M, 2M and up) can still be listed and used as filters
- The band choice is saved and restored after a restart

NEW IN FIRMWARE 2.1

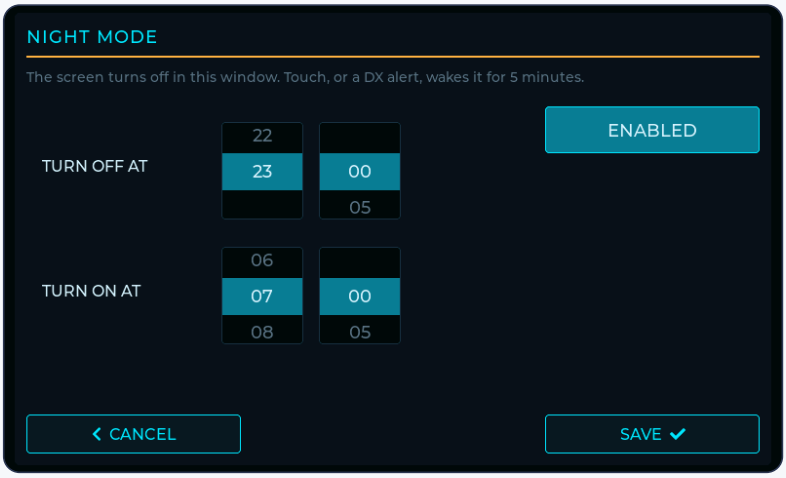
Fresh features, free to every owner

Firmware 2.1.0 is a major update, and like every update it installs itself over Wi-Fi, free. If you already own a DX Spotter Pro, these features are already on their way to you.



Themes

CLASSIC (cyan and amber, the original look), NEON (cyan and magenta) or AMBER (a vintage transceiver dial). Each is previewed in its own colours before it is applied.



Night mode

The screen switches off overnight between times you set. A touch, or a DX alert, wakes it for five minutes. Ideal for a bedroom shack.



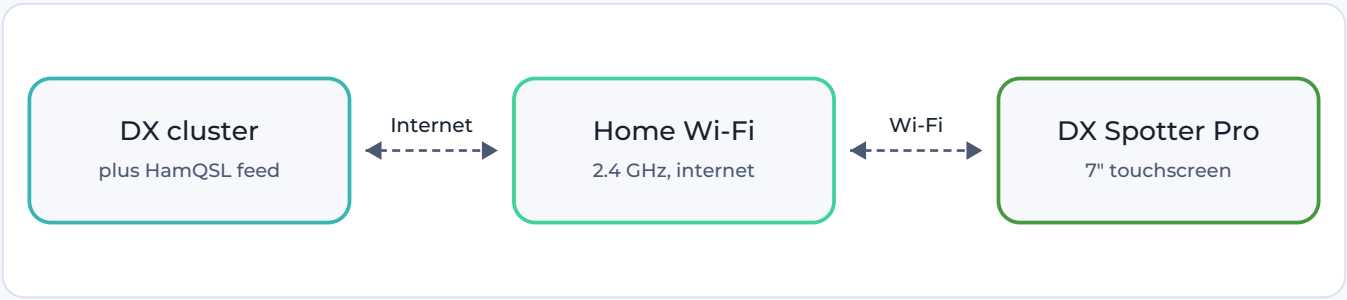
Settings page

A cog on the status bar opens every option on one page: callsign, Wi-Fi, time zone, theme, CB bands, screen rotation, QRZ.com sign-in, night mode and, where fitted, brightness.

Also new in 2.1: a Wi-Fi signal-strength icon, an About page with a CHECK FOR UPDATE button, a new on-screen keyboard, and more robust updates (retries, clear progress and a confirmation step before any beta build).

SETUP AND HOW IT WORKS

Out of the box and spotting in minutes



1 Power it up

Any 5 V, 1 A USB-C supply or power bank.

2 Pick the Wi-Fi

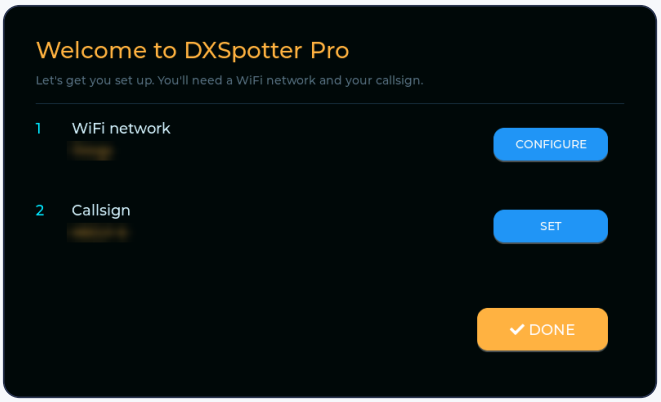
The on-screen wizard scans for networks; type the password on the keyboard.

3 Enter the callsign

On a callsign keypad, used to log in to the cluster.

4 Done

First spots arrive within 10 to 40 seconds. It reconnects by itself after power cuts.

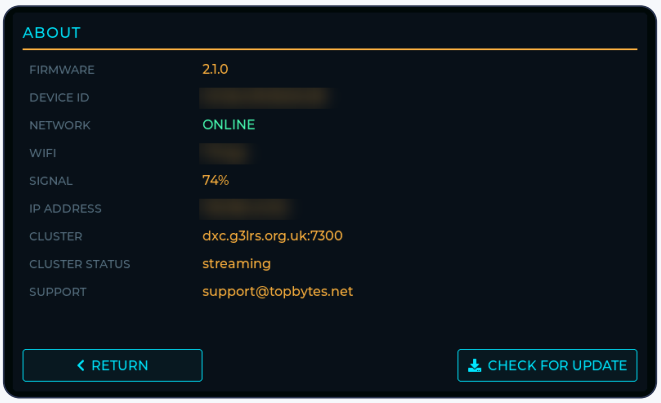


The first-run wizard: two steps, all on the touchscreen.



If Wi-Fi fails it falls back to a setup screen with QR codes for a phone.

SUPPORT BUILT IN



The About page: version, device ID, network and cluster status, and CHECK FOR UPDATE.

The About page shows the firmware version, device ID, network, signal, IP address and cluster status, so if you ever need help, everything support will ask for is on one screen.

- Updates install themselves from the TopBytes update service
- Full user manual, release notes and a web-flasher recovery tool on the product site
- Settings survive restarts and firmware updates
- Web portal for power users: custom clusters, filters and bulk Wi-Fi changes

WHO IT'S FOR

Made for the HF operator

DX Spotter Pro doesn't replace your radio or your logging software: it helps you get more out of them, by showing what is on and where, all the time.

Shack desk monitor

Sized to sit beside a transceiver and be read from across the room, without a PC or logging software running.

DXers and contesters

Alerts for wanted prefixes and multipliers; one tap to watch a single band or mode during a contest.

Clubs and Field Day

Visible from across a club room or tent. Runs from a USB-C power bank and a phone hotspot; anyone can set it up on site.

Newer licensees

A friendly window on the DX cluster and propagation, with no Telnet client or software to install.

FLAGSHIP OF THE TOPBYTES 7-INCH FAMILY



The production 7-inch unit running DX Spotter Pro.

DX Spotter Pro shares its 7-inch screen and enclosure with SatTracker, FlightRadar and MeshDisplay, and sits above the compact OLED DX Spotter. That means:

- a clear step-up from the classic DX Spotter: colour, touch, propagation and alerts
- the same USB-C power and the same simple setup across the range
- free over-the-air firmware updates, like the rest of the range
- online manuals and web-flasher recovery tools for every product

GOES WELL WITH

- FlightRadar: the aircraft overhead on a radar scope, in the same Classic, Neon and Amber themes.
- SatTracker: amateur satellites on a live world map, with pass times and Doppler-corrected frequencies.
- MeshDisplay: your Meshtastic radio's messages, nodes and map, without the phone.
- Mounting: the 1/4"-20 tripod thread fits camera tripods and articulated desk arms.

SPECIFICATION

Product details

Display	7-inch TFT, 800 × 480, capacitive multi-touch, glass surface; optional 180° rotation
Processor	ESP32-S3 dual-core, 16 MB flash, 8 MB PSRAM (ESP-IDF firmware since 2.0)
DX cluster	Telnet, any standard cluster; 5 built-in presets plus up to 5 custom
Propagation	HamQSL solar data (SFI, SN, A, K) and day/night per band, via a cached TopBytes feed
Alerts and filters	Up to 10 callsigns/prefixes with pop-up; band and mode filters plus 5 custom presets
Operator lookup	Optional QRZ.com XML lookup (your own subscription): name, QTH, grid, country
Wi-Fi	2.4 GHz 802.11 b/g/n, up to 5 networks; setup access point with QR codes; mDNS name
Configuration	Touchscreen wizard and settings page, or built-in web portal
Power	5 V USB-C, 2–4 W typical; runs from a USB-C power bank
Size and mounting	194 × 113 × 20 mm; desk, wall or 1/4"-20 tripod thread; indoor use
Themes	Classic, Neon, Amber; night mode with scheduled screen-off
Supplied as	Complete unit with firmware pre-installed, plus USB-C cable
Updates	Free over-the-air updates, checked hourly; manual check on the About page
Compliance	EU and UKCA declarations of conformity in the user manual (model DXSPOT-PRO-01)

IN THE BOX

- DX Spotter Pro unit, firmware installed and ready to go
- USB-C power cable
- Good to know: 2.4 GHz Wi-Fi only. QRZ.com operator details need your own QRZ XML subscription and are off by default.

HELP AND SUPPORT

- User manual, release notes and recovery tools at topbytes.net/dxspotterpro
- Email support@topbytes.net

Pricing and availability: Martin Lynch & Sons (ML&S)

TopBytes products are sold exclusively through Martin Lynch & Sons Ltd. For current prices and stock, visit hamradio.co.uk/topbytes.

Screenshots are captured directly from the unit's display; some personal details are blurred. Solar and propagation data courtesy of HamQSL.com (Paul L Herrman, N0NBH). QRZ.com is a trademark of its owner; DX Spotter Pro is not affiliated with or endorsed by HamQSL or QRZ.com.