

Newton E-Paper 32"

Replace Every Poster.
Reprint nothing.



reddot winner 2026



HIGHLIGHT

- Ultra-slim, ultra-light, cable-free design that mounts like a poster
- 400-day battery life with a 10,000 mAh rechargeable battery
- Full-color e-paper for print-quality, reusable retail visuals
- Award-winning design elevates stores with aesthetics and usability
- Schedule and distribute content across stores via Aims
- Aims dashboard for battery, connectivity, and content status
- Scale with Newton Gateway and ESL infrastructure

01 Overview

From Posters to Scalable Communication.

Newton E-Paper 32" transforms printed posters into a cleaner, smarter retail communication experience. Its 32-inch full-color e-paper display preserves the look of paper while eliminating the recurring costs, labor, and waste associated with print operations. With its slim, cable-free design, rechargeable battery, and versatile deployment options, it enables content updates from local operation to centralized management across store networks.

02 Customer Value

Move Campaigns Faster. Operate Stores Smarter.

Retailers need in-store communication that keeps pace with campaigns. Newton E-Paper 32" turns printing, shipping, posting, replacing, and discarding posters into a reusable digital operation that reduces cost, labor, and waste. Headquarters can schedule content across stores via Aims, while staff spend less time changing paper and more time supporting operations.



03 Features & Benefits

Thin as a Poster. Smart as a Platform.

Ultra-slim, cable-free installation for modern retail spaces. Newton E-Paper 32" features a 16.4mm slim body and lightweight 2.3 kg design, allowing it to be installed where printed posters traditionally hang. With VESA mount compatibility and wall, shelf, stand, or hanging options, retailers can upgrade static signage into connected communication points without major electrical work or infrastructure changes.

One Charge. One Year. Less Maintenance.

Long-lasting rechargeable power built for store operations. Equipped with a 10,000 mAh battery and optimized with SOLUM AC VCOM power technology, Newton E-Paper 32" operates for approximately 400 days¹ on a daily update basis. This extended life reduces charging frequency, minimizes staff intervention, and supports reliable signage operation across store networks.

Print-Quality Visuals. No Reprinting Required.

Paper-like visual impact without repeated production. Newton E-Paper 32" uses full-color e-Paper technology with SOLUM's proprietary color algorithm to deliver clear, vivid, poster-like content. Its 32-inch QHD display supports promotions, menu boards, campaign messages, brand visuals, and product communication, then changes whenever needed without reprinting.

Every Store. Every Poster. One Screen.

Centralized content management for faster, more consistent execution. Mobile app and SOLUM Web CMS support scheduling, content updates, and device monitoring across displays and stores. Dashboard visibility into battery, connectivity, and content status helps reduce missed updates, manual store checks, and execution errors.

Start with One. Scale to Thousands.

Flexible deployment for different retail environments. The Newton E-Paper 32" is available in two distinct device models: a standalone and a Newton Protocol model. The standalone model operates without a Newton Gateway, with either local mobile-app control or Aims-based business operation. The Newton Protocol model, with SOLUM Newton infrastructure, enables gateway-based management and centralized control. Retailers can choose the model that best fits their operational needs.



Type	Standalone Version		Newton Protocol Version
	Local Mode	Business Mode	
Ideal for	Single-store mobile setup	Multi-store, centralized control	Large-scale deployment
Connection	BLE + Wi-Fi Direct	BLE + Wi-Fi	Newton Gateway ² + Wi-Fi
Control	Mobile App	Mobile App or Aims ³	Aims
Content	Upload via app	Schedule via app or web	Schedule via Aims (Template-based image push)
Key Value	Plug & Play	Central control, simple setup	Scale with ESL infrastructure

Specifications

Model	Standalone Version: EL315TVW6S/WWW Newton Protocol Version: EL315HVW6S/WWW	
Mechanical	Dimension (W x H x D)	420.0 x 722.2 x 16.4 mm / 16.53 x 28.43 x 0.65 in
	Weight	2.3 kg / 82.54 oz (incl. battery)
	VESA Mount	200 x 200 mm
	VESA Mount Screw	M4 / 8-10 mm
Design	Bezel Width (Top / Bottom / Left / Right)	12.4 / 12.4 / 13.6 / 13.6 mm
	Bezel Color	White
	Dimension (W x H)	392.7 x 697.3 mm / 15.46 x 27.45 in
Display	Orientation	Portrait / Landscape
	Resolution	1440 x 2560 pixels (94 dpi, 9:16)
	Colors	KWRYGB (Black, White, Red, Yellow, Green, Blue) Dithering for additional color support
	Viewing Angle	Nearly 180°
Connectivity	Standalone Version: WLAN (802.11 a/b/g/n) 2.4Ghz & 5Ghz, BT 4.1 (BLE Standard) Newton Protocol Version: WLAN (802.11 a/b/g/n) 2.4Ghz & 5Ghz, SOLUM Proprietary Protocol	
Features	Hardware	Standalone Version: 3 Buttons (Power / Pairing / Action) Newton Protocol Version: 3 Buttons (Power / Page Down / Page Up)
	Software	SOLUM E-Paper Mobile App (Android & iOS), Web-based CMS
	Usable Pages	10 pages
Power	Input Power	USB-C (Power 5V/3A)
	Battery	Battery Pack (Lithium Rechargeable, 10,000 mAh)
Security	SHA-256 / 128-bit AES Encryption	
Communication Distance	98 feet (30 m) radius Line of Sight	
Compliance	FCC, IC, CE, UKCA, MIC, KC, RoHS, WEEE	
Operating Temperature	0–50 °C (32–122 °F) @40–70% RH	
Storage Temperature	-25–60 °C (-13–140 °F) @40–70% RH Recommended Long-Term Storage Temperature: 10°C to 30°C	
Included Accessories	USB-C Power Cable (1 m), Mounting Clip x2	

¹ Based on internal testing with one update per day on a full charge. Actual battery life may vary by usage environment.

² Newton Gateway is not included and must be purchased separately.

³ Aims is SOLUM's ESL management platform. Account registration is required.

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