RENWO 25

REAR INPUT KIT
FOR TABLETS

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DESKTOP SHORTCUTS MOBILE POSTURE

Tablets emerged between desktop computers and phones, bringing touch to a larger canvas and suiting media use.
The category was expected to do more, but early limits came from performance and power.
With many tablets now running desktop-class processors, compute is no longer the ceiling.
Input is now the limit: touch-first (finger/stylus) reduces precision and speed.

WHAT IS RENWO25
REAR INPUT KIT FOR TABLETS

RENWO25 is a rear-mounted input module integrated with a protective tablet case.
It combines tactile knobs and notched wheels,
an analog joystick and discrete keys for precise control.
It accelerates creative work in handheld or lap use,
freeing users from the desk-and-keyboard tether.
Touch and stylus remain fully available, and desktop-grade shortcuts travel with the device.

At a desk, the dual-angle stand sets up fast
and uses far less space than a laptop or a tablet plus keyboard.
It still works on tight surfaces like an airplane tray table.
Ideal for on-site sketching
and field work by mural and spatial designers.

UNIFIED CONTROL FOR ALL CREATIVE TASKS

RENWO25 raises efficiency and accuracy in digital illustration,
video editing, CAD, and sculpt-style modeling.
Its composite input system enables rapid access to deeply nested functions,
allowing creators to streamline workflows in increasingly complex tool environments.

Digital Illustration

Dial and wheel inputs enable fast brush scaling
and canvas rotation.
With modifier keys, users can adjust flow,
opacity, and blur smoothly.

Video Editing

Dials improve scrubbing and frame stepping.
Keys offer quick access to cut, zoom, undo,
and playback in touch workflows.

Image Adjustment

Dials and wheels help fine-tune exposure, contrast,
and saturation.
Keys can be mapped to masking tools,
layer switching, or brush-based dodge and burn.

Audio Editing

Dials control track volume, pan, and automation.
Keys support clip split, region select,
and toggling mute, solo, or loop.

3D Modeling

The simulated joystick allows smooth and precise
model preview during sculpting and presentation.
It offers more control and professionalism
than finger swipes.

2 GRIP MODES

Portrait Grip

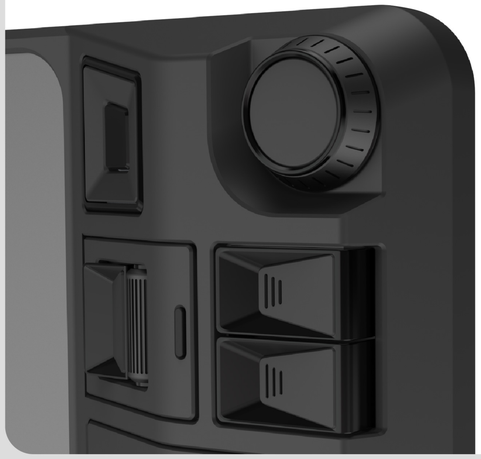
In portrait grip mode, the rear module offers a stable vertical grip when used on the lap. This orientation makes better use of screen space for vertical composition.

Landscape Grip

In landscape grip mode, the control layout supports side-hand input while the device rests on the lap. It maintains stability without a desktop, enabling seated sketching and editing.

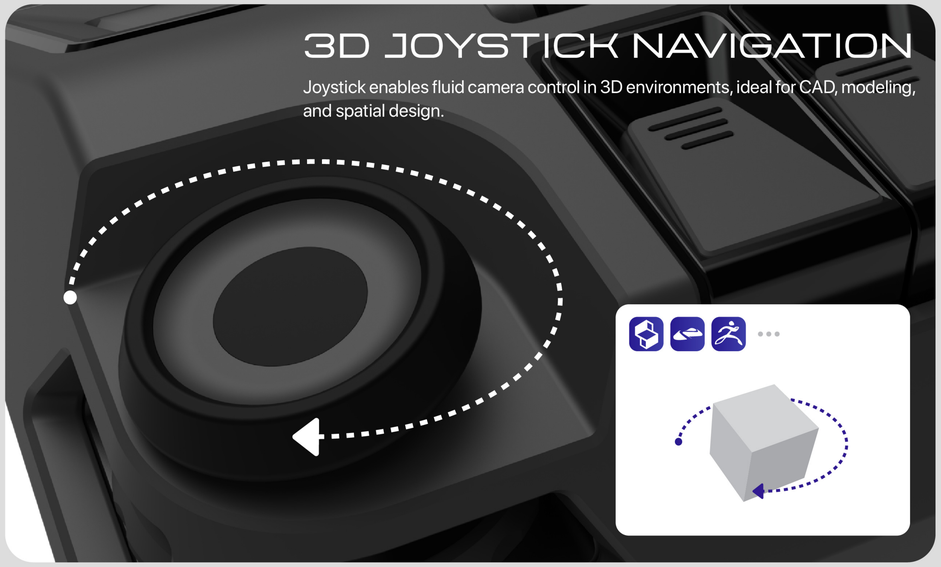
CUSTOMIZABLE BUTTON SET

Features a diverse set of tactile buttons and knobs, fully customizable for layered shortcut workflows.



3D JOYSTICK NAVIGATION

Joystick enables fluid camera control in 3D environments, ideal for CAD, modeling, and spatial design.



2 STAND ANGLES

Upright Stand

Holds the device at a stable 70° angle for review, editing, or client presentations.

Low-Angle Tilt

Angled at 20° for comfortable drawing and detailed creative tasks on the desktop.

ADJUSTABLE LINKAGE STAND

The dual-angle linkage stand enables smooth transitions between two desktop modes.It uses twin sliding rails and a triple-hinge structure to deploy a triangular support frame, distributing torque from the main hinge and ensuring stability for both low-angle drawing and upright viewing.

GLOBAL CUSTOMIZATION ENABLED BY COMPANION DRIVER SOFTWARE

RENWO HUB allows users to flexibly configure RENWO25 across a wide range of creative workflows.
Each interactive element can be mapped to different functions or key combinations depending on the application context and device orientation.
Users may assign keyboard inputs, define macro commands, and fine-tune control parameters such as sensitivity and dead zone.
Modifier relationships between elements can also be freely established, enabling compound interaction logic tailored to individual needs.
Configurations can be exported as portable strings for easy sharing, duplication, and recovery across different workflows or communities.

In the Configure Buttons interface,
RENWO HUB presents a mirrored digital view of RENWO25
to enhance users' spatial awareness during rear-module setup.
Each functional module appears in a card-based layout,
separating interaction zones while collapsing
non-essential details during the editing process.
Users can swipe across the rendered device image
to access and configure elements on different sides,
achieving full control over
RENWO25's behavior and mapping.

Customizable Settings

Each control element can be assigned different functions based on usage context, screen orientation, and trigger type. Users may choose press or release as the activation method and fine-tune repeat intervals for responsive behavior.

Adaptive Mode Switching

The system automatically applies different profiles based on portrait grip, upright stand, or low-angle tilt. Users can also disable certain modes in RENWO HUB to prevent automatic changes during device orientation shifts.

Effortless Configuration Sharing

Users can convert their custom setup into a text string, copy it to the clipboard, and share via chats or social platforms. Presets shared by illustrators or colorists in forums can also be imported into RENWO HUB through pasted strings.

MULTI-MODAL INPUTS WITHIN A UNIFIED GEOMETRIC LAYOUT

RENWO25 consists of several interaction elements—including knobs, wheels, a one-piece D-pad, tactile buttons, and an analogue joystick—plus an integrated stand system. The layout reflects ergonomic refinements to preserve spatial consistency across usage modes.

The inputs are conceptually split into left (L) and right (R) zones for landscape use. Each zone mirrors the other with a horizontal knob, a vertical wheel, a one-piece D-pad, and a cluster of tactile buttons. To favour right-handed creators, the L zone gains an analogue joystick, and the R4 button is sculpted for easier reach during portrait grip. These tweaks sharpen ergonomics without shutting left-handed users out, maintaining near-symmetry while broadening comfort across orientations.

24
INPUT ELEMENTS

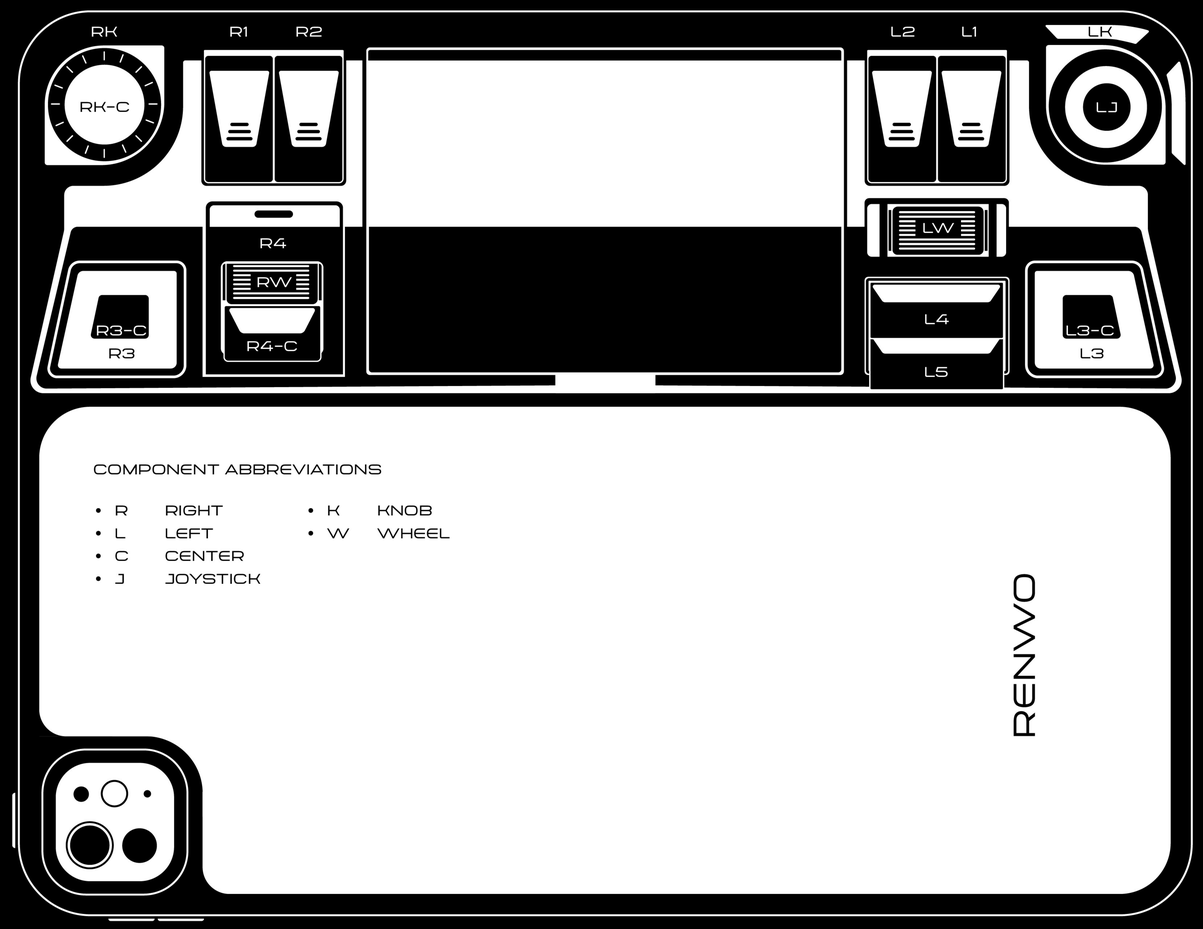
RENWO25 features 24 individual input elements—comprising rotary knobs, scroll wheels, directional controls, and discrete buttons—engineered for creative workflows. Each category includes varied switch or encoder types to shape tactile response. Mechanical keys provide firmer feedback for modifier combos, while tactile micro switches suit fast, repeatable actions.

48
MAPPABLE ACTIONS

RENWO25 enables over 48 distinct interaction modes across its 24 input elements. These include bidirectional turns on knobs and wheels, press-and-tilt inputs on the joystick, and both single- and double-tap operations on tactile buttons. Each gesture can be individually assigned to trigger shortcuts, layered commands, or macro sequences, allowing nuanced adaptation to complex creative workflows.

64
MODIFIER COMBOS

Beyond individual inputs, RENWO25 supports modifier-based combos through pairwise interactions between buttons in the same side zone. The L zone enables up to 64 valid combinations, while the R zone offers 56, covering the majority of shortcut, adjustment, and macro needs in digital workflows. This structure grants creators granular control and selective flexibility per use case.



* This diagram shows the component layout with decorative stylization; not drawn to engineering scale.

ROTARY & SCROLL INPUTS

- RK — Stepless Rotary Knob
- LK — Stepless Rotary Knob
- RW — Notched Scroll Wheel
- LW — Notched Scroll Wheel

DIRECTIONAL CONTROLS

- R3-U — Tactile Micro Switch
- R3-L — Tactile Micro Switch
- R3-D — Tactile Micro Switch
- R3-R — Tactile Micro Switch
- L3-U — Tactile Micro Switch
- L3-L — Tactile Micro Switch
- L3-D — Tactile Micro Switch
- L3-R — Tactile Micro Switch
- LJ — Analog Joystick

DISCRETE BUTTONS

- R1 — Tactile Micro Switch
- R2 — Tactile Micro Switch
- L1 — Tactile Micro Switch
- L2 — Tactile Micro Switch
- R3-C — Mechanical Key
- L3-C — Mechanical Key
- L4 — Tactile Micro Switch
- L5 — Tactile Micro Switch
- R4 — Mechanical Key
- R4-C — Tactile Micro Switch
- RK-C — Tactile Micro Switch

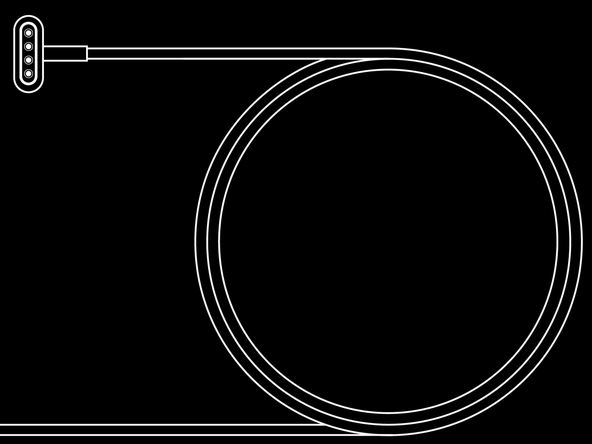
SPECIFICATIONS & ACCESSORIES OVERVIEW

The standard retail package of RENWO25 includes: the RENWO25 main unit, a 4-pin magnetic pogo-to-USB-C charging cable, a printed User Guide, a RENWO HUB beta download code, and a Warranty & Service Certificate.

The User Guide provides quick-start instructions, procedures for tailoring setup to individual workflows and environments, and essential safety information.
The included code enables installation of the latest RENWO HUB beta via TestFlight, allowing evaluation of experimental features and submission of feedback that informs ongoing improvements to RENWO HUB.

RENWO25 Comprehensive User Guide
& Safety Instructions

RENWO HUB Beta Download Code



4-Pin Magnetic Pogo-to-USB-C Charging Cable

PRODUCT INFORMATION

Product Name	RENWO25 Rear Input Kit
Product Category	Programmable/customizable macro keypad module for tablets
Compatible Device	iPad Pro 13-inch (2024)
Required OS	iPadOS 26 or later
Regional & Language Support	English, German, French, Italian, Spanish, Portuguese, Russian, Japanese, Korean, Chinese (Simplified), Chinese (Traditional)
In-box Contents	RENWO25 main unit; 4-pin magnetic pogo-to-USB-C charging cable (1.5 m); printed User Guide; RENWO HUB beta download code; Warranty & Service Certificate

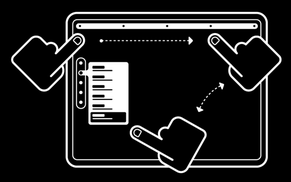
TECHNICAL SPECIFICATIONS

Attachment / Interface	4-pin magnetic pogo connector to iPad Pro; USB-C power input (pass-through)
Power & Charging	5 V ⎓ 500 mA pass-through; no internal battery
Dimensions	footprint ~290 × 244 mm; baseline height 13.5 mm; module rise +23 mm; max height ≈33 mm
Weight	≈ 490 g (iPad not included)
Materials & Finish	TPU over-mold (matte), PC (painted), ABS (high-gloss), PA-GF (textured matte), metal hardware (anodized/blackened)

WHY IT EXISTS
WHO CHOOSES RENW025

The iPad was born from multimedia entertainment, and its hardware form has remained unchanged ever since.
Used as a production tool, it has faced a persistent contradiction: the gap between powerful software and hardware input.
From the early lack of pro apps, to today's migration of desktop-class software,
the barrier now lies in interaction—the touch-first model struggles to support the complex,
nested tool systems of professional workflows.

If this gap is filled only by attaching external controllers,
the iPad is forced back to the desk. In that case, why not simply use a laptop?
The answer is that many creative professionals work in the field and on site.
They lack the conditions for desktop computers,
and traditional keyboards add little value to their workflow.



In professional apps, tool access and parameter adjustment
mirror the complexity of desktop systems.
On desktops, these actions are covered by shortcut keys.
On iPad, they often require frequent arm movements to different screen areas
and navigation into secondary menus before a function can be called.

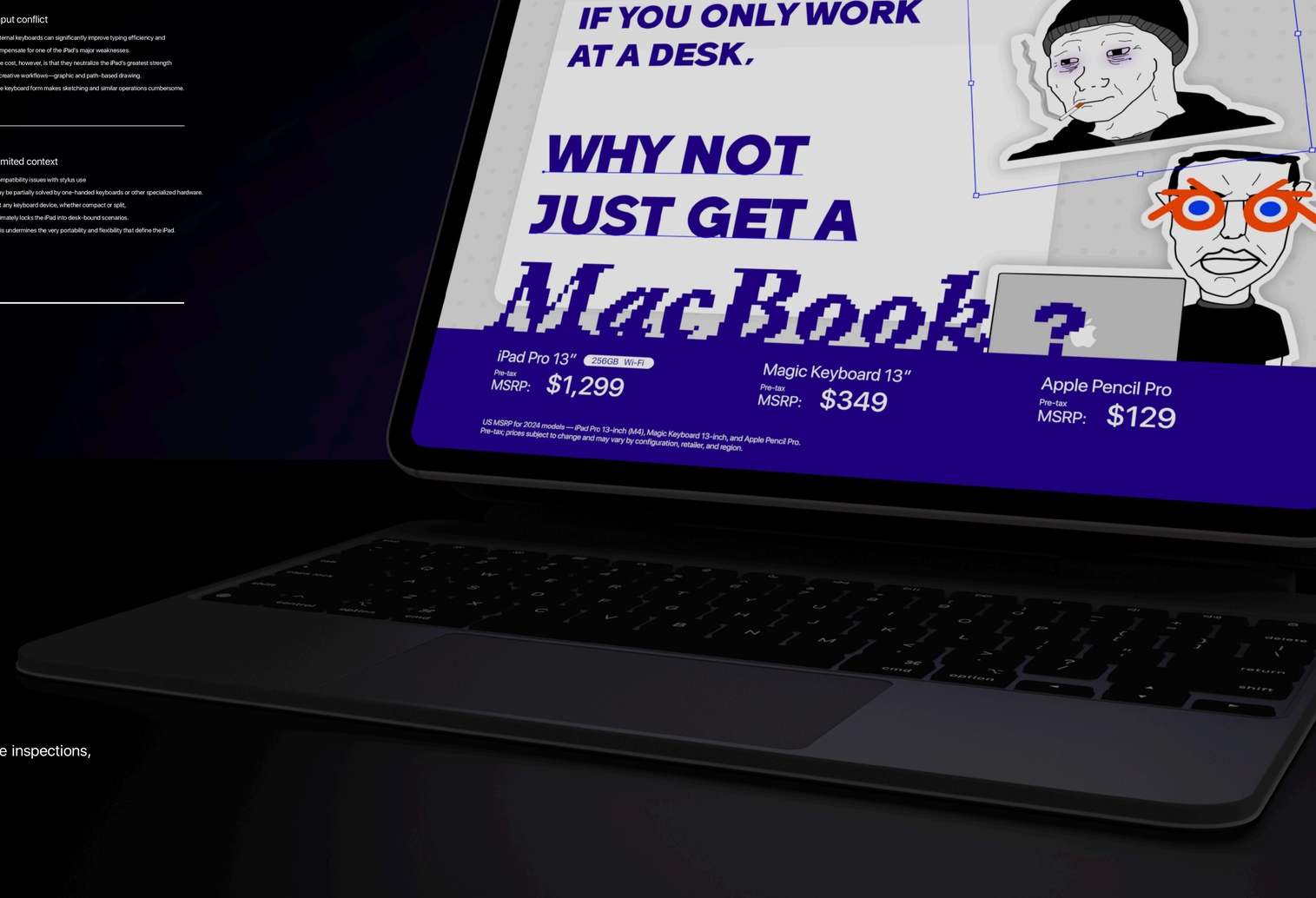
Connect Keyboard

Input conflict

External keyboards can significantly improve typing efficiency and
compensate for one of the iPad's major weaknesses.
The cost, however, is that they neutralize the iPad's greatest strength
in creative workflows—graphic and path-based drawing.
The keyboard form makes sketching and similar operations cumbersome.

Limited context

Compatibility issues with stylus use
may be partially solved by one-handed keyboards or other specialized hardware.
Yet any keyboard device, whether compact or split,
ultimately locks the iPad into desk-bound scenarios.
This undermines the very portability and flexibility that define the iPad.



Interior & spatial designer

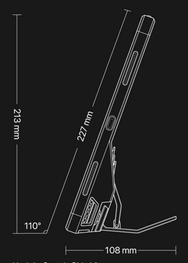
Spatial designers rely on frequent field surveys,
recording parameters that feed into precise CAD drawings.
With SketchUp they quickly add walls and assemble furniture models,
producing draft outputs on site for real-time exchanges with clients.

Muralist

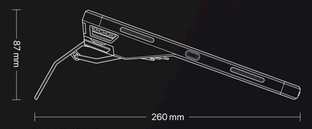
Mural studios often work without fixed offices,
moving between transit and project sites. Based on client needs and on-site inspections,
they use Procreate to quickly assemble or redraw elements,
producing draft visuals in short timeframes to advance cooperation.

MINIMAL FOOTPRINT

Productive in hand without a desk.
On a desk RENWO25 needs far less space than a laptop or tablet-plus-keyboard,
fitting easily on set or on train tray tables to keep creation flowing in the field and in transit.



Upright Stand · Side View



Low-Angle Tilt · Side View

In upright stand mode, RENWO25 occupies an area of roughly 290 × 108 mm,
which equals about 49 in².
In low-angle mode, the footprint extends to 290 × 260 mm,
or about 117 in².
Any stable tabletop larger than these values can accommodate RENWO25.

PORT FREE

Powered through rear pogo contacts,
RENWO25 frees the iPad's Thunderbolt / USB-4 port during charging,
making it available for external drives, docks, or even another computer.

FINE CONTROL

Accurate and efficient input,
optimized for creative workflows
and ready for complex professional applications.

BETTER THAN LAPTOP FOR FIELD CREATORS

Using a laptop on the lap is not only a strain on the neck but, with high power draw, even risks overheating.
In most cases, users still need a desk.
RENWO25 was created for a different premise: professional creation in handheld mode.
It can rest in the crook of the arm or sit lightly on the lap, enabling efficient and professional work without a workstation.

Today, tablets carry migrated pro apps because field work demands it,
and touchscreens are naturally suited to drawing. Once the gaps in tool access and precision are bridged,
their value for field creators can surpass desktop devices.

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