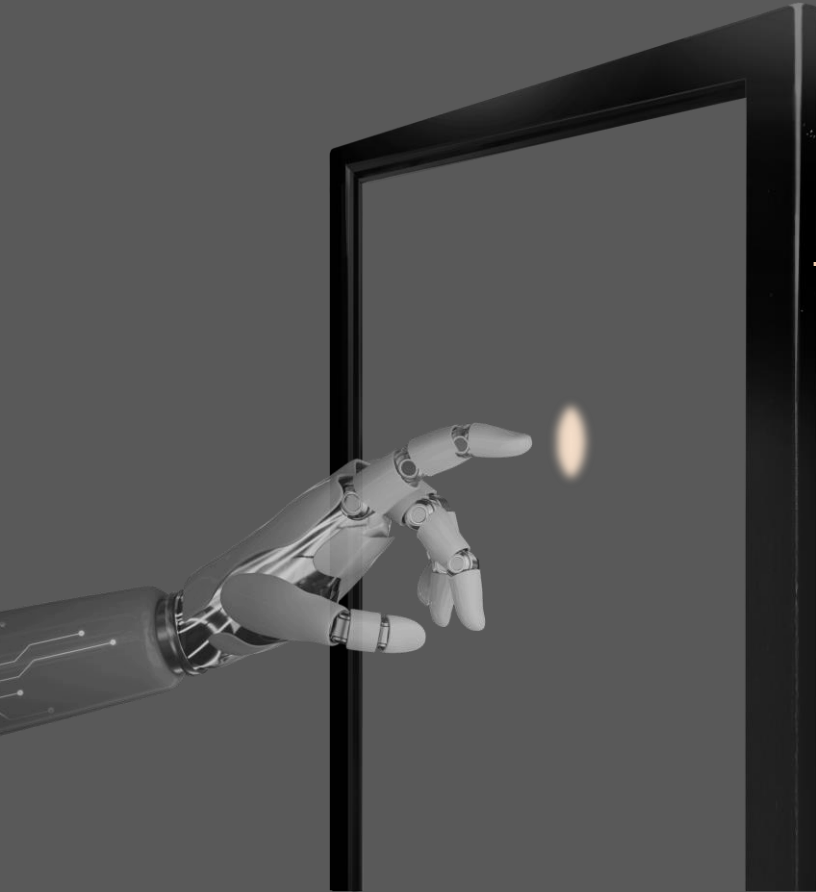


HTO + HMI

Hover Touch Overlay

Contactless Self-Service Kiosk
Upgrade





Out of All Contact-Free Techs Available, Why KOGI's HTO?

- Zero** Communication Module = No Hidden Data Collection
- Zero** Smart Phone Required = Less Cybersecurity Risks
- Zero** Downtime Digitization = No Operating Cost on Upgrade
- Zero** Internet Required = Technology Designed for Everyone

Hover Touch Overlay (HTO) Gen.2

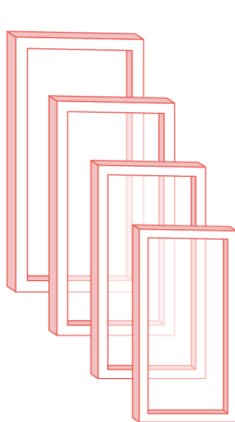


Next Generation "Zero-Contact" Touch Maneuver
"Easy, Modular, Plug & Play" Upgrade to Existing KIOSK

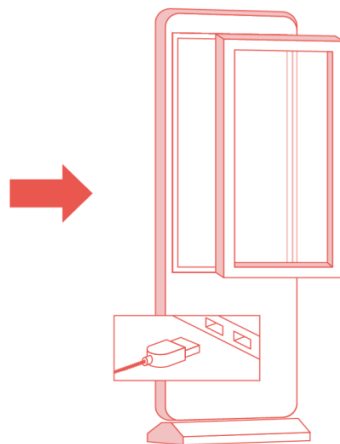
Target Applications:

Metro Ticketing | ATM | Self Service | Healthcare

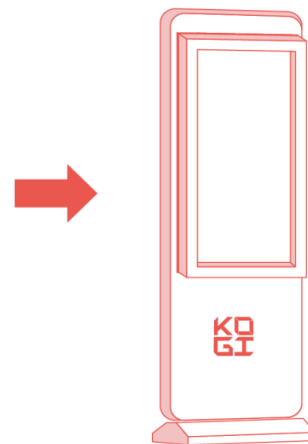
KOGI HTO Specification	
Frame Sizes	15" ~ 55" (NRE on new sizes)
Touch Haptic	Light (LED) / Sound / Visual LED Haptic Standard on Sizes <24"
Touch Type	Hover (Air) Touch
Touch Distance	20mm and above (USB length)
Operating Voltage	DC 5V (+/- 0.25) USB Power
Interface	USB Type B 2.0 HID Compatible
Response Time	5 ~ 25ms
Input Method	Finger, Gloved Hand, Pointer (7mm+)
O/S Support	Windows / Android / Linux
Mounting Method	Screw Mount / Tape Mount



Step.1
Select from our Range
of HTO Frame Sizes




Step.2
Connect HTO via USB
+ Auto Calibrate



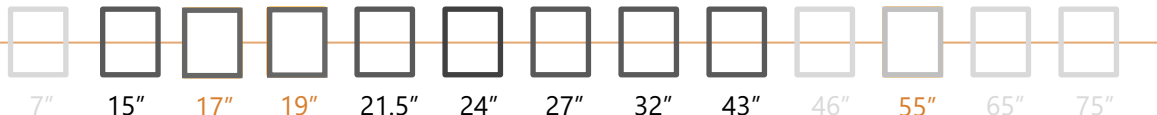
Step.3
Enjoy Zero-Contact
Operations

Hover Touch Overlay Size Support

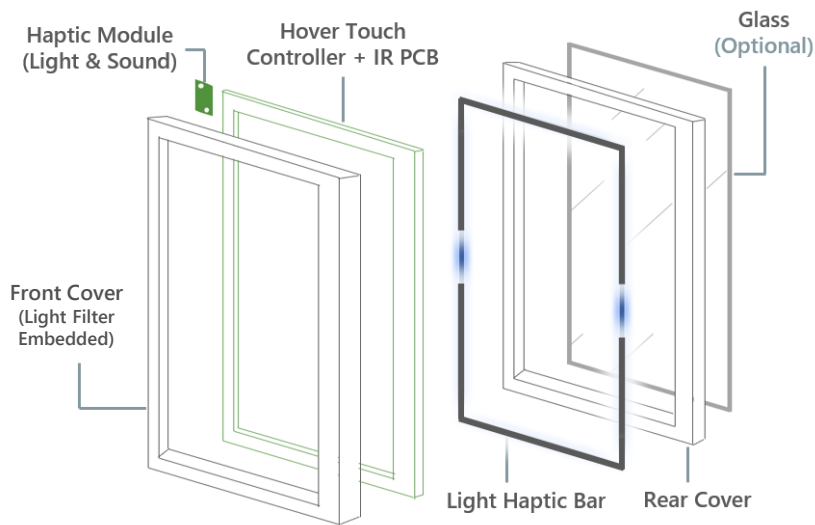
 Mass Produced and Available

 Inquired, Assessing Market Demand

HTO Size
Selector



HTO P/N	Frame Ratio	Specifications	
HTO-15-H3U	4:3	Base Detection Tech	InfraRed (IR)
HTO-17-H3U	5:4	Core Enhancement Tech	Light Filter + Enhanced IR + Haptics Feedback
HTO-19-H3U	5:4	Min. Touch Object	7mm
HTO-21-H3U	16:9	Response Time	125 RPS (30ms touch / 12ms draw)
HTO-27-H2U	16:9	Operating Temp.	-20~70°C
HTO-32-H2U	16:9	Relative Humidity	90% or lower
HTO-43-H2U	16:9	Power Source	DC 5V ±5% (USB2.0 HID)
HTO-43-H2U	16:9	Driver OS Support	Windows / Android / Linux
HTO-43-H2U	16:9	Frame Material	Metal with Black Coating
HTO-55-H2U	16:9	Certificate	CE / FCC class B



Other Potential Deployment Areas

Hygienic Digitization | Addresses Service Staff Shortage Issues | Next-Gen Interaction

Food & Beverage



Self-Ordering / Payment Kiosks



Retail & Mall



Way Finding / Information Kiosks



Clinics & Hospitals



Self Check-In / Queuing Kiosks



HTO Key Sectors & Partners

Finance

Phase 1 Touch ATM

NCR

Fortune 500 Company
No.1 ATM Supplier

Food & Beverage

Self Ordering

AbacusPOS

Trusted by Restaurants
Chains to Michelins

Healthcare

Self-Check In /Pickup

VitalHub

Canada-based Public
Listed Health Provider

Retail

Interactive Promotion

ChargeSpot

No.1 Power Sharing
Provider in Asia

Transportation

Self Ticketing

To be Identified

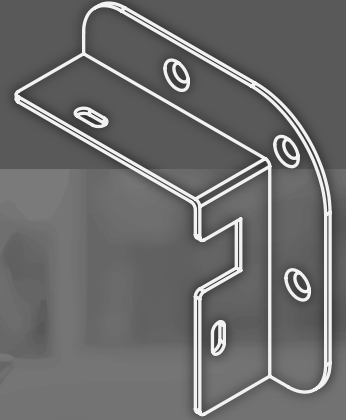
Project-based, until
securing key partner

Flexible Mounting Design

choose from our variety of mounting brackets
to adapt to your unique kiosk designs



Tape Mount

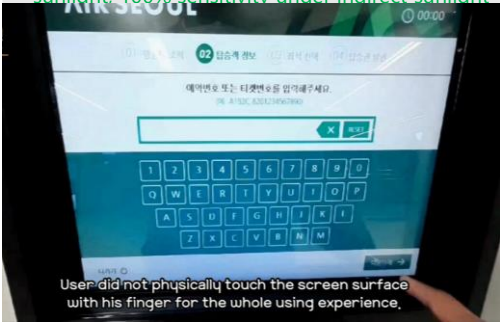



Screw Mount

How is KOGI's HTO different from IR Frames?

		IR Touch Frame	HTO Frame
System Level	Contact / Contactless	Contact (Glass Touch)	Contactless (Hover Touch)
	Enhanced IR Detect Signal	2mm	5mm
	Response per Second	30-50rps (Normal IR require glass for positioning)	115-125rps (Achieved via light filtration enhancement)
	Assembly	Required (4 piece self-assembly on site)	Not Required (Light filter embedded, can't assemble on site)
	Haptics Design-In	NO	YES- 3 tier haptics (LED/visual/sound)
	Country of Origin	China	Taiwan
	Future Proof OS Compatibility	NO (OS support range defined in spec, very limited Android & Linux version support)	YES- Future Proof Support (Dedicated Android/Linux engineers to ensure ALL past/current/future OS versions support)
Service Level	Touch Calibration Support	NO (basic factory "touchpad" Microsoft setting)	YES (tailored FW update: 5-8 workday lead time)
	Customization Support	NO	YES- low MOQ (metallic frame color change, LED color change, cabling design, size & ratio design)
	Design-In Project Support	NO (off the shelf selling standard product)	YES (dedicated engineers for design-in projects)
	Marketing Support	NO (rely on generic online materials)	YES (dedicated marcom to support in localized eDM / video / webpage graphics support)

Analysis- SAW Touch vs. Hover Touch vs. Motion Touch

	Surface Acoustic Wave (SAW) Touch	Hover Touch Overlay (HTO)	I* Company Depth Camera
Contact Method	Touch-based	Touchless	Touchless
Base Technology	Acoustic (Sound)	InfraRed Variation	InfraRed Variation
Touch Distance	0mm	20-30mm	N/A depends on multiple factors
Touch Operation	Slightly stiffened (pressure) finger gesture to trigger "acoustic wave"	Normal finger/hand gesture w/joint-level movements	Abnormal, big gestures to trigger "object leaving line of sight"
Technical Limitation	Water (Hand Sweat) High Replacement Rate on Sensors	Sunlight (emits IR wave) <i>*Proprietary IR Filtration- 85% sensitivity under full sunlight; 100% sensitivity under indirect sunlight</i>	Sunlight (emits IR wave) Spatial calibration unavoidable
In-Lab Integration	None, Plug & Play	 <p>User did not physically touch the screen surface with his finger for the whole using experience.</p>	
Onsite Calibration	SAW requires periodic calibration to maintain quality touch experience		
Connector Requirement	USB2.0 Type B or above		
Aftersales Support	Components relatively hard to find as SAW is not mainstream	the mainstream in B2B touch space	the mainstream in B2B touch space
Price Point	Starting from US\$80	Starting from US\$275	Starting from US\$350
Commercial Perk	1. Low Price Point 2. Very matured technology	1. Hygiene Control Added Value 2. Supports Deployed Kiosks	1. Hygiene Control Added Value 2. Excellent Value for XXL Displays

KOGI & World Recognition

Recent Major News Appearances:

Bloomberg | EIN Expresswire (USA)

<https://www.bloomberg.com/news/articles/2019-10-09/uniqlo-s-stylish-sister-brand-gu-breaks-out-of-fast-fashion-mold>
https://www.einnews.com/pr_news/530119623/kogi-ceo-system-ai-powered-management-solutions-for-new-era-of-remote-work

China Post | Commercial Times (Taiwan)

<https://chinapost.nownews.com/20210101-1971362>
<https://ctee.com.tw/news/policy/170348.html>

Al Jazeera (Qatar)

<https://www.youtube.com/watch?v=RvkweibLcz4>
<https://www.youtube.com/watch?v=udhcCwFnct8&feature=youtu.be>

Leading the Digital Transformation

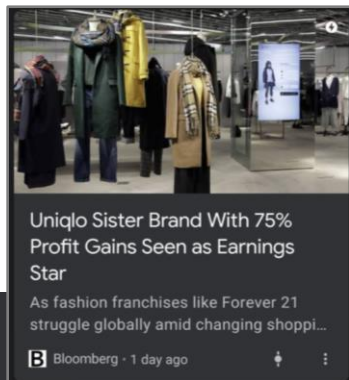
KOGI Corporation
 2020/1/28 | Taiwan

Environment
Applied IoT - AI Designer
 KOGI Corporation
<https://www.kogicorp.com/>



Leading the Digital Transformation

With projects spanning four sectors, 37 countries and more than 60 institutions, KOGI Corporation is uniquely poised to address the design challenges facing many of today's organizations as they look to rebound in a pandemic-stricken world. KOGI's flexible and creative AI and IoT design solutions help ensure that they not only bounce back, but emerge even better poised to compete in a digital economy.



Bloomberg · 1 day ago

Taiwanese Startups | KOGI drives AI-based, contactless digital transformation

By Vivian Hsiao, The China Post, Taiwan | January 1, 2021

1

Share



KOGI Corporation offers AI-based contactless technologies across five key sectors: healthcare, retail, transportation, enterprise management, and agriculture. (Courtesy of KOGI)

World Economic Forum (WEF) COVID Challenge 2020 Technology Spotlight



<https://uplink.weforum.org/uplink/s/uplink-issue/a002e00000vObOaAAK/prepare-prevent-and-detect>

Innovative solutions which address immediate effects of this crisis are much needed. These are unprecedented times, and a caution of situations to come.

How can we better respond to future crises, prevent infection, and allow for early detection?



In order to be ahead of the COVID-19 virus, we are seeking technologies, innovations and solutions that will help us increase our collective readiness to respond to future crises, prevent infection, and allow for early detection of COVID-related infections.

The submission period for the COVID Challenges 2020 is **now closed**. Find out the first [Link COVID Innovators Cohort](#) and join our [Action Group](#) to stay connected and updated.

Challenge Partners

The COVID Challenges were launched in collaboration with the [World Health Organization](#), [Goldman Sachs Foundation](#), [KOGI Startup](#), [Trio Tier Impact](#), [Impact Africa Network](#), [VillageCapital](#), and the [Global Education & Leadership Foundation](#).



Contribution Spotlight

