

# X5 Specifications

## Display Panel

<b>Diagonal Size</b>	65" 4K   75" 4K   86" 4K
<b>Screen Type</b>	TFT LCD module with DLED backlight
<b>Aspect Ratio</b>	16:9
<b>Display Colours</b>	1.07 Billion (10 bit)
<b>DC dimming (for Flicker Free)</b>	Yes
<b>Resolution</b>	3840x2160 FHD-4K@60Hz
<b>Landscape / Portrait</b>	Landscape
<b>Response Time</b>	6.5ms
<b>Refresh Rate</b>	60Hz
<b>LCD Viewing Angle</b>	H = 178, V = 178 (Typ.)
<b>Brightness</b>	400 cd
<b>Contrast Ratio</b>	65" 3000:1 75" 3000:1 86" 3000:1
<b>Dynamic Contrast Ratio</b>	65" 5000:1 75" 5000:1 86" 5000:1
<b>Glass Hardness</b>	Tempered Glass - Mohs Level 7
<b>Glass Thickness</b>	3mm
<b>Cover Glass</b>	G1S
<b>Cover Glass - Light Transmission</b>	88%
<b>Main Board</b>	MT9679 (SoC)
<b>Operating Hours</b>	7*16h
<b>NTSC</b>	72%
<b>Life of Screen</b>	50,000 Hours
<b>Light Sensor</b>	Yes
<b>Anti-reflection</b>	Yes
<b>Anti-glare</b>	Yes
<b>Blue Light Filter</b>	Yes

## Interactivity

<b>Touch Solution</b>	High Precision IR Technology
<b>Continuous Touch Points</b>	40
<b>Touch Resolution</b>	32768x32768px
<b>Touch Accuracy</b>	±1mm for 90% of screen area and ±2mm around 10% of the edges
<b>Minimum Touch Objective</b>	3mm
<b>Writing Height</b>	2mm
<b>Bonding</b>	Zero Bonding
<b>Touch Tool</b>	Finger, passive pen, opaque objects
<b>Simultaneous Writing</b>	Yes
<b>Ink In Tools</b>	Yes - LYNX
<b>Pen Type</b>	Dual Recognition Stylus
<b>Pen Holder</b>	Integrated magnetic pen holders
<b>Pen Tip Diameter</b>	3mm/7mm
<b>Pen &amp; Touch Differentiation</b>	Yes
<b>Pen Identities</b>	2
<b>Palm Rejection</b>	Yes
<b>Annotation Over Any Source</b>	Yes
<b>Classroom Essential Apps</b>	Includes Whiteboard, Annotate, Timer, Media Players, Browser, PDF Reader, Screen Record, Spinner, Voting, Maths Tools
<b>Compatibility*</b>	Windows 10, Linux, Mac, Android, Chrome

<b>Tracking Rate</b>	≥1m/s
<b>Scan Rate</b>	≥100Hz
<b>Gestures &amp; Edge Swipes</b>	Windows Supported, OSX with additional Driver

## Connectivity

<b>OPS Slot</b>	Intel Spec 80Pin
<b>HDMI In</b>	3 x HDMI 2.0, (1 x front, 2 x rear)
<b>HDMI OUT</b> (Clone content from one display to another)	1
<b>USB Touch (type B)</b>	1 x Front USB Type B 2.0 (USB Touch) 2 x Side USB Type B 2.0 (USB Touch)
<b>USB-A 2.0</b>	2 (1 x rear, 1 x android only)
<b>USB-A 3.0</b>	3 x (2 x front + 1 x rear)
<b>1 x USB Side Type C</b> (with video, audio, touch & network)	1 x USB Front Type C with video, au- dio, touch, network, and 65W charging
<b>Display Port In</b>	1
<b>VGA In</b>	1
<b>LAN In (RJ45)</b>	1 (Speed: 10/100Mbps)
<b>LAN Out (RJ45)</b>	1 (Speed: 10/100Mbps)
<b>RS-232</b>	1
<b>Wake-on-Lan</b>	Yes
<b>Wireless Adapter</b>	Yes
<b>Clevertouch WiFi Module</b>	Yes
<b>Bluetooth</b>	Yes - 5.2
<b>Audio In</b>	1 (3.5mm)
<b>Optical Out</b>	1
<b>Headphone</b>	1 (3.5mm)
<b>SPDIF</b>	1
<b>TF Card Slot</b>	1
<b>NFC Reader / Writer</b>	Optional Extra
<b>Camera</b>	Optional Extra
<b>WiFi</b>	802.11ac, 802.11n, 802.11g, 802.11b, 802.11a, 802.11ax
<b>WiFi Generation</b>	WiFi 6E
<b>WiFi Speed</b>	Capable of speeds up to 1Gbps

## Computing

<b>Operating System</b>	Android 14 (EDLA Certified)
<b>System Version</b>	Lux 14
<b>RAM</b>	8GB
<b>Internal Storage</b>	64GB
<b>Total Storage</b>	1TB (Expandable)
<b>Type</b>	eMMC
<b>CPU</b>	ARM Cortex-A73*4
<b>SoC</b>	MT9679 (ARM Cortex-A73*4)
<b>GPU</b>	Mali G52MC1
<b>Android Resolution</b>	4K
<b>Integrated Lux UI</b>	Yes
<b>System Architecture</b>	64-bit
<b>Google Certification</b>	EDLA Certified (Enterprise Device Licence Agreement)
<b>Access to Google Playstore Apps</b>	Yes (certified)
<b>Access to Microsoft Apps</b>	Yes (certified)
<b>Access to Google Cloud Services</b>	Yes (certified)

## X5 Specifications

### Audio

Speaker Capacity	2x20W
Audio Out	Yes
SPDIF / Fibre	Yes
Sound Channel	2

### Power

Power Adapter	100-240VAC +/- 10% Wide Range
Power Requirements	65" 100-240V~50/60Hz 4.0A 75" 100-240V~50/60Hz 4.0A 86" 100-240V~50/60Hz 4.5A
Power Consumption (Normal)	65" 180W 75" 230W 86" 245W
Power Consumption (Standby)	≤0.5W
Ultra Quiet Fanless Design	Yes

### Operating & Storage Environment

Operating Temperature	0° to 40°
Storage Temperature	-20° to 60°
Operating Humidity	10% to 90% RH
Storage Humidity	10% to 90% RH
Altitude	Below 5000 metres

### X5 Built-In Features

BYOM	Yes
LYNX™ App With Online Lesson Planning	Yes
Handwriting Recognition	Yes – Lynx Pro
Ecosystem of Extensive Apps (with Secure and Fast Download)	Yes
Open SDK Support	Yes
Intelligent O&M	Yes
H.264 + H.265	Yes
HD Hardware Encoding and Decoding	Yes
CleverStore App for Education	Yes
CleverLive™ Embedded Digital Signage	Yes
Clevershare™ Mirroring Any Device To The Board	Free for the life of the screen (touch back)
MiraCast (WiFi Direct)	Yes
AirPlay	Yes
ChromeCast	Yes
Cloud Account Access	OneDrive, Google Drive, Lynx Cloud
CleverLive™ Rooms Embedded Room Booking	Yes
CleverLauncher™ Customisable Welcome Page (with option to integrate logo, clocks, apps and more)	OneDrive, Google Drive, Lynx Cloud
LynxCloud™	Yes
Whiteboard Annotation	Yes
Scan QR Code For Saving Work	Yes
Alerts and Announcements	Yes
Over-the-air Updates	Yes
Remote Management Of Touchscreens (MDM)	Yes - One year license

### Physical Spec

Panel Dimensions	65" 1491×898×87mm 75" 1712×1022×87mm 86" 1957×1159.9×97.4mm
Packed Dimensions	65" 1628×185×1005mm 75" 1863×225×1148mm 86" 2110×225×1291mm
Net Weight	65" 36.15kg 75" 49.15kg 86" 53.55kg
Packed Weight	65" 41.70kg 86" 63.75kg 75" 56.60kg
VESA Mount Point	65" 600 x 400mm 75" 800 x 400mm 86" 800 x 600mm
Screws for VESA	M8 x 25mm

### Inside your Clevertouch Box

What's In The Box	(1) Clevertouch X5 (1) 3M Length HDMI Cable (1) 5M Length USB cable (A-B) (1) 1.5M USBC Cable (1) 3M Regional Power Cable (2) Batteries for Remote Control (1) Remote Control (2) Dual Recognition Stylus (1) User Guide (1) Quick Install Guide (1) Clevertouch WiFi Module
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### Warranty

Warranty term and upgrade options vary by region. Contact your local reseller or distributor for information and visit [clevertouch.com/about/warranty](http://clevertouch.com/about/warranty)

### Compliance & Certification

Regulatory Certification	CE, FCC, UL, Energy Star & EEC
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### Statement

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