



**Novo DS-110**



**Novo Interactive Board**



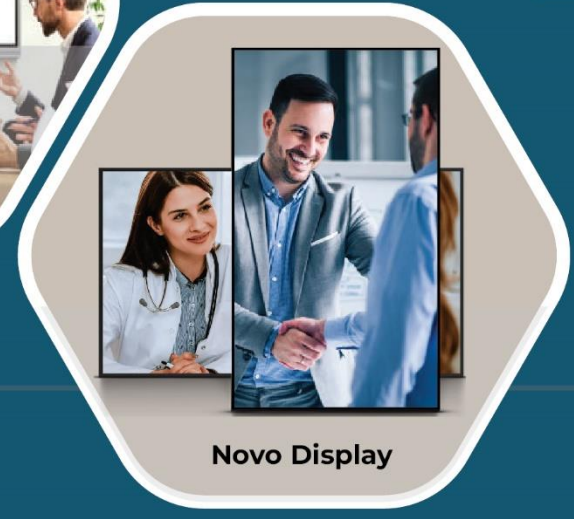
**Novo DS-210**



**Novo NC-X700**



**Novo DS-310**



**Novo Display**

# PRODUCT PROFILE



**Novo DS-110    Novo DS-210    Novo DS-310    Novo NC-X700    Novo Interactive Board    Novo Display**




**NovoDS**  
**DS110**  
**DS210**  
**DS310**

4K-UHD High-performance  
Digital Signage Player

NovoDS is network-based digital signage solution that is ideal for creating dynamic visual displays in corporate, school, and public spaces. Its latest models DS110, DS210 and DS310 offer a significant performance boost with seamless 4K@60Hz video playback, a modern web browser engine, and robust support for social media content. Robust, compact, and stylish, this series is housed in a metal chassis for rugged durability, making it ideal for signage applications in various environments.





## Key features

### 4K-UHD Resolution & Flexible Orientation



NovoDS supports 4K resolution to deliver outstanding details and stunning visuals. It accommodates both landscape and portrait orientations, catering to a variety of commercial needs.



### Dynamic Content Types



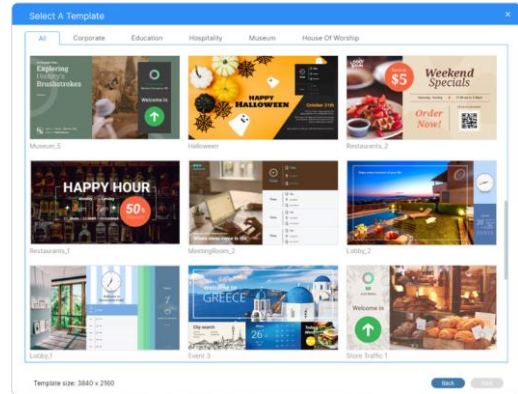
NovoDS offers a range of popular content widgets, such as YouTube, Instagram, Google Drive, and weather. All this online content is updated automatically on the signage, minimizing your administrative effort.



### Rich Designer Templates



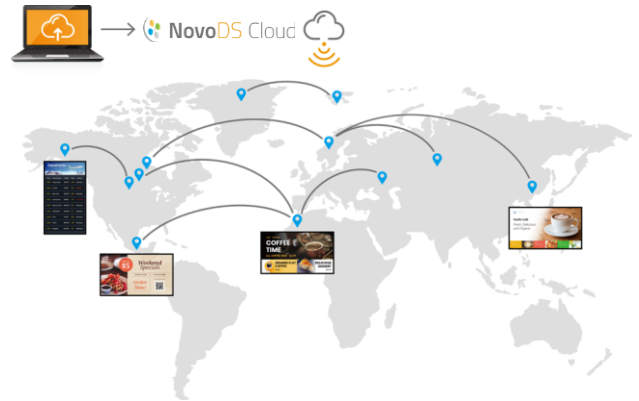
Professional designer templates are available in NovoDS Cloud, allowing you to quickly create eye-catching signage.



### NovoDS Cloud



NovoDS Cloud is a cloud service that enables users to effortlessly create, edit, and publish playlists across various platforms. With 2-factor authentication, it ensures additional protection for your content and devices. The platform's role-based access and co-editing features support large teams effectively. Its extensive library of designer templates and intuitive What-You-See-Is-What-You-Get playlist editor make content creation a seamless and easy process.



### NovoDS Studio



NovoDS Studio is software available for both Windows and MacOS, designed to empower users in managing NovoDS deployment over the Intranet. Users can seamlessly publish playlists, schedule playback, and efficiently handle device management tasks such as firmware updates and content updates.



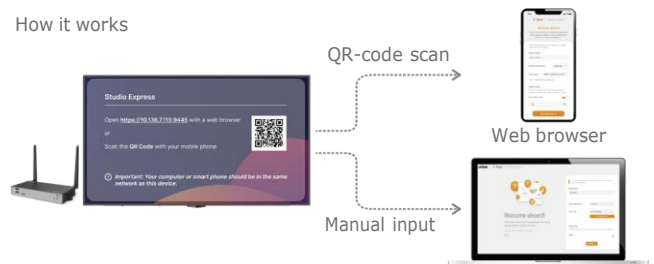
### NovoDS Studio Express



NovoDS Studio Express enables you to instantly update or create new digital signage messages on the spot, accessible through a web browser.

Whether using a mobile device or desktop, any authorized user can effortlessly update the latest messaging on the digital signage. It's a secure, yet user-friendly solution.

How it works



Web browser

## Product Specifications

Model	DS110	DS210	DS310
Product Image			
RAM	2GB	4GB	4GB
Storage	Internal: 16GB	Internal: 16GB	Internal: 32GB
	External: microSD Card (Up to 32GB), USB Drive (Up to 32GB)		
Display Output	HDMI-Out v2.0 (HDCP v2.2 Compliant)		
Display Resolution	3840 x 2160 (16:9, UHD 4K@60fps)		
Display Orientation	Landscape & Portrait		
Ethernet	RJ45 (10/100/1000 Mbps)		
Wi-Fi	N/A	Wi-Fi: 802.11 b/g/n/ac (2.4GHz & 5GHz), 2T2R,	Wi-Fi: 802.11 b/g/n/ac (2.4GHz & 5GHz), 2T2R,
Bluetooth	N/A	Bluetooth 5.0	Bluetooth 5.0
Input Connection Ports	USB(x3)		
	microSD Slot	microSD Slot	microSD Slot, RS-232 (3.5mm)
GPIO	N/A	N/A	GPIO(3.3V x1, GND x1, GPIO x4)
Audio Output	Audio-Out (3.5mm)		
Dimensions (WxDxH)	96 x 105 x 28mm (3.8' x 4.13' x 1.10')	96 x 105 x 28mm (3.8' x 4.13' x 1.10')	96 x 178 x 28mm (3.8' x 7.0' x 1.10')
Weight	316g (11.1oz)	316g (11.1oz)	490g (17.3oz)
Power Supply	DC jack: 5V/2A, 10W	DC jack: 5V/2A, 10W	DC jack: 5V/2A, 10W RJ45: Power over Ethernet (IEEE802.3 af)

## Software

Software	Studio Express	DS Studio	DS Cloud
Platform	PC & Mobile browser	Windows, MacOS	PC browser
Free/Charge	FREE – pre-installed in the device	Free	Subscription
Software installation	-	○	-
Connection method with device	Intranet	Intranet	Internet
Basic widget (text, image, video, etc.)	○	○	○
Social media widget (FB, IG)	○	○	○
Two-factor authentication	-	-	○
Emergency message	-	○	○
Role management	-	-	○
Schedule deployment	○	○	○
Designer templates	-	-	○
Support OneDrive, Google Drive	-	○	○
Remote snapshot	-	○	○



## NC-X700 is a powerful visual communication hub that transforms any display into a collaboration screen and a digital announcement board



With the NovoConnect NC-X700, meeting participants are able to mirror or wirelessly show content from any device to a larger display screen. Thanks to the cross-platform compatibility with Windows, macOS, Ubuntu, Android and iOS, the connection is smooth and easy. In addition, users can make a direct connection to the Windows 10 Miracast. Guests will benefit from an optional LauncherPlus USB, which is an extension for direct Wi-Fi connectivity from any laptop. Furthermore, The NC-X700 offers a seamless switch to Digital Signage mode in between meetings and transform idle screens into digital announcement boards.

### Features

- Wireless collaboration & digital signage
- integrated Windows 10 Miracast screen mirroring
- Split screen functionality for up to four sources to share simultaneously
- Ability to receive NT Live Screen data for display duplication in real-time
- Cross-platform compatibility with Windows, macOS, Ubuntu, Android and iOS
- Supports 4K display resolution
- Dual-Video Decoding enables two videos decode simultaneously when used in digital signage mode
- AES 256 encryption for data protection
- PIN-protected guest access
- Dual network setting to separate guest and employee network



## NC-X700 Connectivity

<b>BYOD</b>	BYOD - Supported OS	Windows 7 / 8 / 10 (32 bits and 64 bits), macOS 10.7 and above, Ubuntu 18.04 and above, iOS 11.0 and above, Android 5.0 and above
		Screen Mirroring for iOS and Android
		Windows 10 Miracast
	Split Screen	Up to 4, in dynamic layout
	Mirroring Resolution	Up to 4K-UHD, 30 fps
	Output Resolution	4K-UHD (3840 x 2160), 1080p (1920 x 1080), 720p (1280 x 720)
<b>FEATURES</b>	Collaboration	Windows 10 Extended Desktop function, Moderator function, AirNote for instant annotation from meeting participants, Novo Screennote for virtual whiteboard and NovoConnect app
	Productivity	Meeting ID, QR Code connection support, PIN connection function
	Digital Signage	NovoDS Digital Signage – Message and Announcement Board, intuitive drag-and-drop interface, flexible playlist creation, dynamic content from text, audio, photos and videos to webpages, Twitter, RSS, Google Calendar, Weather, and more
	Screen Duplication Over the Network	NT Live Receiver for wireless screen duplication
	Security	Dual network WiFi & LAN, AES-256 encryption, ISO 27001, Kensington lock
<b>CONNECTIVITY</b>	WiFi	802.11ac, b/g/n, 2.4GHz & 5GHz 2T2R with 2 external antenna
	Output	HDMI-Out Audio-Out (3.5mm jack)
	Input	Ethernet RJ45, USB Type A x 1, USB Type C x 1, microSD Slot, RS-232 jack, DC Jack Power-In
<b>SYSTEM</b>	CPU	Six-core ARM
	Storage	16GB
<b>GENERAL</b>	Power	Input to AC adapter: AC 100-240V, 50/60Hz. Output from AC adapter: 5V/3A. Consumption: 15W
	Product Dimensions (L x W x H)	151 x 117 x 24.7 mm
	Weight (Net)	270 g
	What's Included	Main Unit, 2x Antennas, HDMI Cable, USB Cable, Power Adapter, Remote Control with Batteries, Wall Mount KIT, Document KIT
	Optional Accessory	LauncherPlus(WQL-400), LauncherOne and NovoDS Cloud licence
	Warranty	3 Years





**NovoTouch**  
EK Series

4K UHD All-in-One  
Touch Panel

Wireless Collaboration  
BYOM | Digital Signage

The new NovoTouch EK series of interactive 4K displays offer the most complete solution for engaging hybrid meetings and classes.

The displays feature NovoConnect Wireless Collaboration, Video Conferencing, BYOM (optional) and NovoDS Digital Signage functionalities.

NovoTouch is available in 65", 75" and 86" display sizes, all with UHD 4K resolution.

NovoTouch is designed to take business meetings and education sessions to a new level of collaboration and interaction.







## Key Features



### NovoConnect Wireless Collaboration

The NovoTouch EK series has built-in NovoConnect wireless presentation and collaboration tools for presentations and interactive engagement in the office or classroom.

Supports connections from 64 participants and up to 4 can share their screen simultaneously.



### NT LiveScreen

Duplicate the NovoTouch screen (with NT LiveScreen\*) across the network to multiple displays (with NT LiveReceiver) in different rooms. This allows a large group of people to be split across breakout rooms and still share the same content.



NT LiveScreen

NT LiveReceiver

### NT Minutes

The NT Minutes app allows you to record any actions taken on the NovoTouch screen.





### Bring Your Own Meeting (BYOM)

The BYOM driver is an optional upgrade to the NovoTouch. It enables the meeting moderator to control mainstream meeting peripherals such as cameras or audio devices directly from their laptop.

Use with any video conferencing software such as Microsoft Teams, Zoom, Skype, Google meet or Webex for hybrid meeting and distance learning.

The BYOM driver is available for Windows and MacOS.



### NovoDS Digital Signage

The built-in digital signage solution is easy to set up and manage via the optional NovoDS Cloud service or included NovoDS Studio software.

The user can toggle between the Wireless Collaboration and Digital Signage function to maximise the use of the display at any time.



### 4K UHD display for perfect detail

When sharing single video content, the display supports 4K resolution, while in collaboration mode, each split screen is shown in 1080p Full HD resolution.



### Quality picture for optimal viewing and annotations

Backlit D-LED (IPS display) technology offers brighter pictures, flawless colours, richer textures, and extra wide viewing angles (178°/ 178°) with an incredibly sharp and crisp images. Designed with Optical Bonding for better annotation and readability – high accuracy and fast response time.



## Product Specifications

Model Name		EK655i	EK755i	EK865i
Display	Panel Size	65"	75"	86"
	Type/Technology	Backlit D-LED (IPS- ADS)		
	Brightness	500 cd/m2		
	Contrast Ratio	5000:1		
	Native Resolution	4K Ultra-HD (3840 x 2160)		
	Viewing Angle (H/V)	178° / 178°		
	Aspect Ratio	16:9		
	Refresh Rate (Hz)	60 Hz		
	Estimated Life Time	50,000 hours   Digital Light Sensor embedded to auto detect ambient light and adjust display brightness for energy saving		
	Display Color (Bit)	1.07 Billion		
	Installation Orientation	Landscape		
	Daily Operation (Hours/Days)	16/7		
Touch	Technology	Infrared Touch		
	Touch Points	Annotation	10 Points	
		Finger Touch	20 Points	
	Accuracy	Finger	±1.0mm (Over 90% area)	
		Passive Pen		
	Response Time	≤ 6ms		
	Touch Resolution	32,768 x 32,768		
	Surface Protection	4mm Thick Toughened Glass (Level 7H on Mohs Scale of Mineral Hardness)		
Touch Tools	Finger, Stylus, Glove, Opaque Objects			
Operating System	System Version	Android™ v11		
	Internal Storage	64GB (eMMC Flash)		
	Eternal USB	Yes (FAT32 / NTFS)		
Connectivity	Input	Display	HDMI v2.0 x3(HDCP v2.2 Compliant), USB-C x1, VGA-In (x1)	
		Audio	Audio-In (3.5mm) x1	
	Output	Display	HDMI-Out v1.4 x1 1080p@60Hz	
		Audio	Audio-Out (3.5mm) x1, SPDIF-Out x1	
	Internet Control	LAN (RJ45, 10/100/1000M) x2 RS232-In x1		
	Wireless	WiFi (USB Module)	WiFi 6; 802.11 a/b/g/n/ac/ax (2.4GHz/6GHz) USB dongle/ Built-in	
		Bluetooth	V5.0	
		I/R Receiver	Front x1 (±25° Angle, >8m Distance)	
	USB	Front	USB-A 2.0 x2	
		Side	USB-A 3.0 x3, USB-B 2.0 x2 (For Touch Port), USB-C 3.1 (Power 65W) x1	
Bottom		USB-A 3.0 x1, USB-B 2.0 x2 (For Touch Port)		
Default Apps	Wireless Collaboration	Screen mirroring (NovoConnect SW/App), Screen duplication (up to 6) over the corporate network (NT LiveScreen/ NT LiveReceiver), White board (Note), Screen login protection (PIN Code / RFID / NFC Tag), Screen Recording (NT Minutes), BYOM (optional), Google Play, NT App Store		
	Platform compatibility (BYOD)	Windows, Ubuntu, MacOS, Chromebook, iOS and Win 10 Miracast		
	Digital Signage	Digital signage (NovoDS)		
Expansion	Windows (OPS)	Intel Standard 80 Pin OPS (Optional)		
Audio	Speakers	16W x2 (Stereo)		
Sensor	Light Sensor	Yes		
Device Management	Software/ Command	Free Software- Remote Manager. DMD, Supports Crestron IP command		
Power	Power Supply (Internal)	AC 100 – 240V, 50/60Hz (3.0A)	AC 100 – 240V, 50/60Hz (4.0A)	AC 100 – 240V, 50/60Hz (4.5A)
	Consumption	300W	400W	450W
	Standby Mode	<0.5W (Standby)		
Physical Characteristics	Dimension (L x H x D) mm	1,488.7 x 897x 92	1,709.39 x 1,020.05 x 91.2	1,957.4 x 1,160.1 x 91.4
	Weight	40.2 kg	52.2 kg	65.75 kg
	VESA Mounting (FPMPMI)	4 - M6 x 25mm, 600 x 400mm	6 - M8 x 25mm, 800 x 400mm	6 - M8 x 25mm, 800 x 600
	Color	Silver		
Accessories	Standard	AC Power Cord (3m), WiFi 6 USB Module, HDMI Cable, Touch USB Cable, Audio Cable, Stylus (x2), Remote Control (W/Batteries), Documentation Kit, Wall Mount Kit		
	Optional	LauncherPlus, LauncherOne		
Warranty	Standard	3-Year warranty on the panel		
	Education	5-Year warranty on the panel, where end customer is a school, university or training center. Education product registration required within 180 days of purchase for extended warranty to be valid.		



## NovoDisplay DK Series

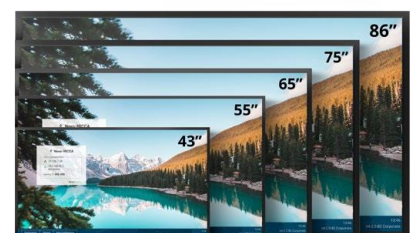
Digital Signage Display  
with Collaboration  
Functionality

The NovoDisplay DK series is an Ultra HD 4K professional display for signage applications in landscape or portrait mode.

With built-in NovoDS it is easy to create, publish and manage promotional announcements and company messages.

For meetings, the display can easily be switched to 'presentation' mode featuring NovoConnect wireless collaboration.

This series is available in various display sizes, suitable for commercial applications such as hospitality, retail, education and business.





## Key Features



### Digital Signage

The built-in digital signage solution is easy to setup and manage via the optional NovoDS Cloud service or included NovoDS Studio software.

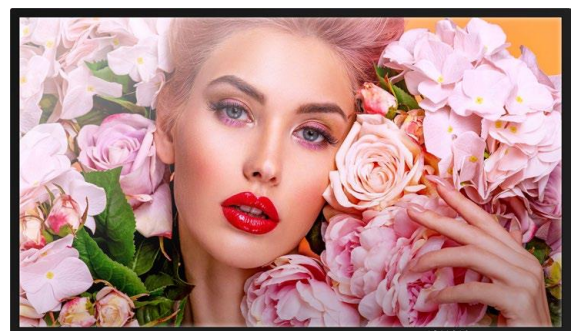
The user can toggle between the Wireless Collaboration and Digital Signage function to maximise the use of the display at any time.



### 4K-UHD Resolution

The DK series is available in 43"/55"/65"/75"/86" display size with 4K Ultra-HD (3,840 x 2,160) resolution to deliver outstanding details and stunning visuals.

The unparalleled display with 500 cd/m<sup>2</sup> brightness and 50,000 hours performance make this a truly professional signage display for many applications.





### Support Landscape & Portrait Installation

The DK series easy to install and can support landscape and portrait mode to cater for various business needs.



### Bulletin board

The Bulletin board is a template in the optional NovoDS Cloud that allows for easy creation of a pin board layout and added interactivity with documents.

Ideally suited to replace the traditional paper pin boards with up-to-date information that is easily maintained.



### Backlit D-LED Technology

Backlit D-LED (IPS panel) technology offers brighter pictures, flawless colors, richer textures, and extra wide viewing angles (178°/178°) with an incredibly sharp and crisp images.



### NovoConnect Wireless Collaboration

The DK series has built-in NovoConnect for cable-free and hassle-free presentations and collaboration in the classroom or in office.

NovoDisplay is ready for hybrid meetings with video conferencing.



## Product Specifications

Brand/ Model Name		DK433	DK553	DK653	DK753	DK863
Display	Panel Size	43"	55"	65"	75"	86"
	Type/Technology	Backlit D-LED				
	Brightness (Typ)	500 cd/m2				
	Native Resolution	4K Ultra-HD (3840 x 2160)				
	Viewing Angle (H/V)	178° / 178°				
	Aspect Ratio	16:9				
	Response Time (MS)	8 ms				
	Estimated Life Time (Typ.)	50,000 Hours				
	Installation Orientation	Portrait & Landscape				
	Daily Operation (Hours/Days)	24/7				
	Bezel Size	43"- 7.9mm/ 55"- 9.9mm/ 65"- 14.8mm/ 75"- 15.3mm/ 86"- 18mm				
Connectivity	Input	HDMI v2.0(ARC, HDCP v2.2) x2, Audio-In (3.5mm) x1 RS-232 (RJ45) x1				
	Output	HDMI-Out x1 4K@60Hz (Optional), USB-A x2 (Support up to 32GB), microSD Slot x1 (Support up to 32GB), Audio-Out (3.5mm) x1, RS-232 x1, RJ45 x1				
	WiFi	802.11ac x1				
	IR Receiver (Front)	x1 (±25° Angle, >8m Distance)				
	System	OS Version	Android™ v9.0			
Internal Storage		32GB (eMMC Flash) Standard				
Digital Signage	Supported Widget	Announcement Mode, Agenda, Social Networks, Weather, Calendar, Clocks, HTML 5Rendering, Remote Media, People Counting (camera not included)				
	Video decoding	Single 4K@60fps, Dual 1080p@30fps				
	Simultaneous Connections Simultaneous On-screen	NovoConnect Lite - 8 connections / 1, 2 split screen				
Speaker	Internal	10 x2 (Stereo)				
Power	Power Supply (Internal)	AC 100-240V, 50/60Hz				
	Consumption (without OPS)	≤198W	≤198W	≤220W	≤330W	≤410W
	Standby Mode	<0.5W (Standby)				
Physical Characteristics	Dimension (L x H x D)mm	961.6 x 567.3 x 72.8	1,243.2 x 714 x 69.6	11461.4 x 846.9 x 80.4	1682 x 962.2 x 76.3	1,714.2 x 992.4 x 97.2
	Weight Kg	8.9kg	14.2kg	22.8kg	31.2kg	42.8kg
	VESA Mounting (FPMPMI)	4 - M6, 400 x 400mm		4 - M8, 600 x 400mm		
	Frame Color	Black				
Accessories	Standard	AC Power Cord, Remote Control, Documentation Kit				
	Optional	NovoDS Cloud, OPS Package (including NovoConnect full version, NT Live 2-way, and BYOM), LauncherPlus(WQL-400), LauncherOne, VIVOTEK SC81831 camera, Wall Mount Kit				
Warranty	Standard	3 years warranty				




**NovoTouch**  
BK series

Collaborative  
Touch Panel

Wireless Collaboration  
Digital Whiteboard

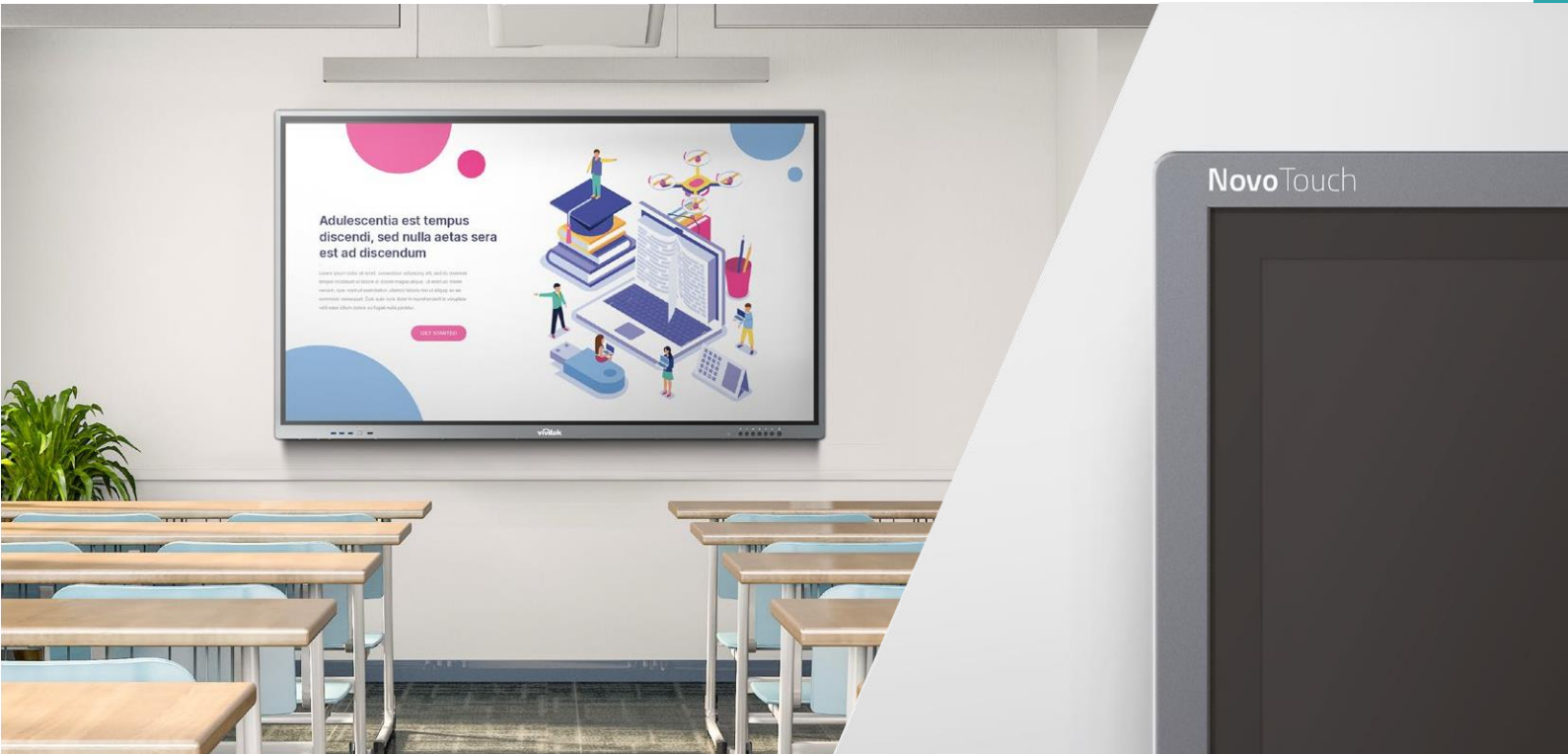
The NovoTouch BK series is a 4K-UHD collaborative touch display solution that is perfect for education, but also for business meetings, available in 65", 75", and 86" display sizes.

The NovoConnect Wireless Collaboration will make it easy for any participant to share their device screen on the NovoTouch BK display.

The digital whiteboard function completes the classroom experience with a flawless touch annotation for a truly interactive session.







## Key Features



### NovoConnect Wireless Collaboration

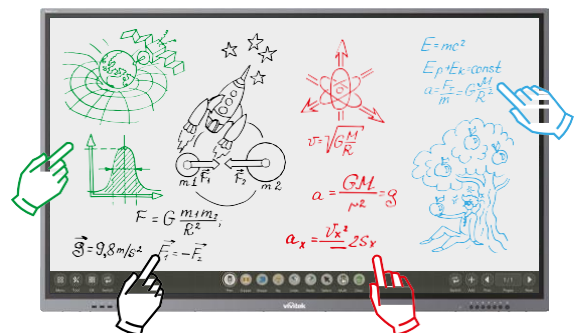
The BK series has built-in NovoConnect Litewireless presentation and collaborative tools for cable-free and hassle-free presenting in the classroom or in the office.

Up to 8 participants can be connected and 2 can share their screen, each in 1080p resolution.



### Digital Whiteboard

The BK series supports 40-point interactive touch capability. The digital whiteboard enables flawless annotation, highlighting and screen capture for easy sharing.





### Google Play enabled

Easy access to any Google Play app allows for even more flexible use and optimized working and teaching in any session.



### 4K UHD Resolution and rich connectivity

The BK series 65" / 75" / 86" display size with 4K Ultra-HD (3,840 x 2,160) resolution to deliver outstanding details and stunning visuals.

The multiple interfaces, such as USB Type-C, HDMI and USB2.0/3.0 allow easy connection to various devices.



### Backlit D-LED Technology

Backlit D-LED (IPS panel) with Optical Bonding technology delivers brighter pictures, flawless colors, richer textures, and extra wide viewing angles (178° / 178°). The result is incredibly sharp and crisp images.



### Eye Protection Technology

The BK series is TÜV Rheinland Certified to ensure the best eye protection with low Blue Light & Flicker Free feature for the best viewing experience.



## Product Specifications

Model Name		BK650i	BK750i	BK860i
Display	Panel Size	65"	75"	86"
	Type/Technology	Backlit D-LED (IPS- Panel)		
	Brightness	450 cd/m <sup>2</sup>		
	Contrast Ratio	5000:1		
	Native Resolution	4K Ultra-HD (3840 x 2160)		
	Viewing Angle (H/V)	178° / 178°		
	Aspect Ratio	16:9		
	Refresh Rate (Hz)	60 Hz		
	Estimated Life Time	50,000 Hours (Min)		
	Display Color (Bit)	1.07 Billion (10-bit)		
	Installation Orientation	Landscape		
	Daily Operation(Hours/Days)	16/7		
Touch	Technology		Infrared Touch	
	Touch Points	Annotation	10 Points	
		Touch	40 Points	
	Accuracy	Passive Pen	±2mm (Over 90% area)	
		Touch	±2mm (Over 90% area)	
	Touch Resolution		32,768 x 32,768	
	Surface Protection		4mm Thick Toughened Glass (Level 7H on Mohs Scale of Mineral Hardness)	
Touch Tools		Finger, Stylus, Glove, Opaque Objects		
Operating System	System Version		Android™ v9.0	
	Internal Storage		32GB (eMMC Flash) (About 25GB User Availability)	
Connectivity	Input	Display	HDMI v2.0 x3, VGA-In x1, Display Port 1.2 x1, AV(3.5mm) x1, YPbPr(3.5mm) x1	
		Audio	Audio-In (3.5mm) x1, Mic(3.5mm) x1	
	Output	Display	HDMI-Out v2.0 x1	
		Audio	Audio-Out (3.5mm) x1, SPDIF-Out x1	
	Internet		LAN (RJ45) x2	
	Control		RS232-In x1	
	USB		Front: USB-A 3.0 x3, Side:USB-A 3.0 x1, USB-A 2.0 x1, USB-B x5 (For Touch Port) USB-C 3.1 (15W power) x1	
Audio	Speakers		16W x2 (Stereo)	
Device Management	Software		Free Software- Remote Manager	
Power	Power Supply (Internal)		AC 100 - 240V, 50/60Hz (3.0A)	AC 100 - 240V, 50/60Hz (4.0A)
	Consumption		≤220W	≤330W
	Standby Mode		<0.5W (Standby)	
Physical Characteristics	Dimension (L x H x D) mm		1523 x 945 x 107	1744 x 1070 x 107
	Weight		45kg	62kg
	Color		Silver	
Accessories	Standard		AC Power Cord, Stylus (x2), Remote Control (W/Batteries), Wi-Fi 5 (802.11ac) Dongle, Documentation Kit	
	Optional		Wi-Fi 6 (802.11ax) Dongle, LauncherPlus, LauncherOne, HDMI Cable, USB Cable(Touch), VGA Cable, Audio Cable, Wall Mount Kit	
Warranty	Standard		3-Year warranty on the panel	
	Education		5-Year warranty on the panel, where end customer is a school, university or training center. Education product registration required within 180 days of purchase for extended warranty to be valid.	

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