

NovoTouch

NovoTouch EK865i

True 86" 4K interactive display with wireless collaboration and touch interaction for the classroom



Features

- 86" display with ultraHD 4K (3,840 x 2,160) resolution for outstanding details and stunning visuals
- Backlit D-LED (IPS panel) technology for brighter pictures, flawless colors, richer textures, and extra wide viewing angels (178°/178°)
- Preconfigured with NovoConnect wireless presentation and collaborative system for cable-free and hassle-free presenting in the classroom
- Connect up to 64 users simultaneously, and allow 4 people to present on one display to facilitate large group work
- Optional LauncherPlus wireless dongle connects to any visitor's laptop for a direct plug-n-play WiFi connection without impacting an existing network
- High contrast ratio and fast response time deliverables crisp, readable content
- Interactive functionality with up to a 20-point finger touch capabilities (10-point writing, 20-point touch) for on-screen annotation, drawing and common gesture controls
- Simple wireless display and true fast collaboration solution thanks to WiFi 6, 802.11AX dual-band 2.4/5GHz support
- Provide API or Remote Manager with IT management software with automatic discovery and configuration
- Full suite of connectivity ports including HDMI-In VGA-In, Audio-In/Out, LAN, RS232 and USB.
- Front bezel USB 3.0 ports for quick connection to USB memory drives and data
- 4mm thick toughened glass for added protection against scratches or screen damage
- Support HDMI-IN on presentation or digital signage mode
- Built-in NovoDS capability as an all-in-one digital signage solution, easy to set up and manage via Windows/Mac software or NovoDS.com Cloud service
- Daily auto-reboot and low blue light support
- VESA compliant mounting for easy installation
- Powerful front- facing stereo audio speakers with up to 32W of total power (16Wx2) and multiple audioin/out ports

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Display	Type/Technology		Backlit D-LED (IPS Panel)
	Panel Size		86"
	Brightness (Typ)		350cd/m2
	Contrast Ratio (Typ)		1,200:1
	Native Resolution		4K Ultra-HD (3840 x 2160)
	Viewing Angle (H/V)		178°/178°
Display	Aspect Ratio		16:9
	Response Time (MS)		8ms (Typ)
	Refresh Rate (Hz)		60Hz
	Estimated Life Time (Typ)		30,000 hours (Min)
	Display Color (Bit)		1.07 billion (10-bit)
	Installation Orientation		Landscape
	Daily Operation (Hours/Days)		16/7 Infrared Touch
Interactivity	Technology	\A/ritin a	
	Touch Points	Writing	10 Point (Standard)
	Politis	Touch	20 Point (Standard)
	Accuracy	Finger	±1.0mm (Over 90% area)
	Pospones T	Passive Pen	±1.0mm (Over 90% area)
	Response Time		< 10ms
	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
	System Version		Android™ v9.0
	CPU		Multi-Core High-Performance ARM®CPU
Operating	GPU		4*Mali™ G52
System	RAM		8GB DDR3
	Internal Storage		64GB (eMMC Flash)
	Input	age	HDMI v2.0 (x3) (HDCP v2.2 Compliant)
		Display	USB Type C (x1)
			VGA-In (x1)
		Audio	Audio-In (3.5mm) (x1)
	Output	Display	HDMI-Out v1.4(x1)-1080P@60Hz (option)
	Output	A !! -	Audio-Out (3.5mm) (x1)
	Output	Audio	Audio-Out (3.5mm) (x1) SPDIF-Out (x1)
	Output	Audio	, , ,
		Audio	SPDIF-Out (x1) LAN (RJ45, 10/100/1000M) (x2) RS232-ln (x1)
Connectivity	Internet		SPDIF-Out (x1) LAN (RJ45, 10/100/1000M) (x2) RS232-ln (x1) WiFi 6, IEEE 802.11 a/b/g/n/ac/ax
Connectivity	Internet Control	Wifi (USB Module)	SPDIF-Out (x1) LAN (RJ45, 10/100/1000M) (x2) RS232-ln (x1) WiFi 6, IEEE 802.11 a/b/g/n/ac/ax (2.4GHz/5GHz)
Connectivity	Internet	Wifi (USB Module) Bluetooth	SPDIF-Out (x1) LAN (RJ45, 10/100/1000M) (x2) RS232-ln (x1) WiFi 6, IEEE 802.11 a/b/g/n/ac/ax (2.4GHz/5GHz) BT 5.0
Connectivity	Internet Control	Wifi (USB Module) Bluetooth I/R Receiver	SPDIF-Out (x1) LAN (RJ45, 10/100/1000M) (x2) RS232-ln (x1) WiFi 6, IEEE 802.11 a/b/g/n/ac/ax (2.4GHz/5GHz) BT 5.0 Front (x1) (±25° Angle, >8m Distance)
Connectivity	Internet Control	Wifi (USB Module) Bluetooth	SPDIF-Out (x1) LAN (RJ45, 10/100/1000M) (x2) RS232-ln (x1) WiFi 6, IEEE 802.11 a/b/g/n/ac/ax (2.4GHz/5GHz) BT 5.0 Front (x1) (±25° Angle, >8m Distance) USB 3.0 (x2)
Connectivity	Internet Control	Wifi (USB Module) Bluetooth I/R Receiver	SPDIF-Out (x1) LAN (RJ45, 10/100/1000M) (x2) RS232-In (x1) WiFi 6, IEEE 802.11 a/b/g/n/ac/ax (2.4GHz/5GHz) BT 5.0 Front (x1) (±25° Angle, >8m Distance) USB 3.0 (x2) USB Type C (x1)
Connectivity	Internet Control	Wifi (USB Module) Bluetooth I/R Receiver	SPDIF-Out (x1) LAN (RJ45, 10/100/1000M) (x2) RS232-In (x1) WiFi 6, IEEE 802.11 a/b/g/n/ac/ax (2.4GHz/5GHz) BT 5.0 Front (x1) (±25° Angle, >8m Distance) USB 3.0 (x2) USB Type C (x1) ➤ Support up to 65W / display input
Connectivity	Internet Control Wireless	Wifi (USB Module) Bluetooth I/R Receiver Front	SPDIF-Out (x1) LAN (RJ45, 10/100/1000M) (x2) RS232-In (x1) WiFi 6, IEEE 802.11 a/b/g/n/ac/ax (2.4GHz/5GHz) BT 5.0 Front (x1) (±25° Angle, >8m Distance) USB 3.0 (x2) USB Type C (x1) > Support up to 65W / display input USB 3.0 (x2)
Connectivity	Internet Control Wireless	Wifi (USB Module) Bluetooth I/R Receiver Front Side	SPDIF-Out (x1) LAN (RJ45, 10/100/1000M) (x2) RS232-In (x1) WiFi 6, IEEE 802.11 a/b/g/n/ac/ax (2.4GHz/5GHz) BT 5.0 Front (x1) (±25° Angle, >8m Distance) USB 3.0 (x2) USB Type C (x1) ➤ Support up to 65W / display input USB 3.0 (x2) USB Type B (x2) (For Touch Port)
Connectivity	Internet Control Wireless	Wifi (USB Module) Bluetooth I/R Receiver Front Side Bottom	SPDIF-Out (x1) LAN (RJ45, 10/100/1000M) (x2) RS232-In (x1) WiFi 6, IEEE 802.11 a/b/g/n/ac/ax (2.4GHz/5GHz) BT 5.0 Front (x1) (±25° Angle, >8m Distance) USB 3.0 (x2) USB Type C (x1) > Support up to 65W / display input USB 3.0 (x2)
Connectivity	Internet Control Wireless	Wifi (USB Module) Bluetooth I/R Receiver Front Side Bottom	SPDIF-Out (x1) LAN (RJ45, 10/100/1000M) (x2) RS232-In (x1) WiFi 6, IEEE 802.11 a/b/g/n/ac/ax (2.4GHz/5GHz) BT 5.0 Front (x1) (±25° Angle, >8m Distance) USB 3.0 (x2) USB Type C (x1) > Support up to 65W / display input USB 3.0 (x2) USB Type B (x2) (For Touch Port) USB 2.0 (x1)
	Internet Control Wireless USB	Wifi (USB Module) Bluetooth I/R Receiver Front Side Bottom dule (Option)	SPDIF-Out (x1) LAN (RJ45, 10/100/1000M) (x2) RS232-In (x1) WiFi 6, IEEE 802.11 a/b/g/n/ac/ax (2.4GHz/5GHz) BT 5.0 Front (x1) (±25° Angle, >8m Distance) USB 3.0 (x2) USB Type C (x1) > Support up to 65W / display input USB 3.0 (x2) USB Type B (x2) (For Touch Port) USB 2.0 (x1) Slot 1: Standard Intel 80pin OPS (Option)
	Internet Control Wireless USB Window Mod Speakers	Wifi (USB Module) Bluetooth I/R Receiver Front Side Bottom dule (Option)	SPDIF-Out (x1) LAN (RJ45, 10/100/1000M) (x2) RS232-In (x1) WiFi 6, IEEE 802.11 a/b/g/n/ac/ax (2.4GHz/5GHz) BT 5.0 Front (x1) (±25° Angle, >8m Distance) USB 3.0 (x2) USB Type C (x1) > Support up to 65W / display input USB 3.0 (x2) USB Type B (x2) (For Touch Port) USB 2.0 (x1) Slot 1: Standard Intel 80pin OPS (Option) 16W (x2) (Stereo)
Audio	Internet Control Wireless USB Window Mod Speakers Power Supp	Wifi (USB Module) Bluetooth I/R Receiver Front Side Bottom dule (Option)	SPDIF-Out (x1) LAN (RJ45, 10/100/1000M) (x2) RS232-In (x1) WiFi 6, IEEE 802.11 a/b/g/n/ac/ax (2.4GHz/5GHz) BT 5.0 Front (x1) (±25° Angle, >8m Distance) USB 3.0 (x2) USB Type C (x1) ➤ Support up to 65W / display input USB 3.0 (x2) USB Type B (x2) (For Touch Port) USB 2.0 (x1) Slot 1: Standard Intel 80pin OPS (Option) 16W (x2) (Stereo) AC 100 - 240V, 50/60Hz (6.0A)
Audio	Internet Control Wireless USB Window Mod Speakers Power Supp Consumptio	Wifi (USB Module) Bluetooth I/R Receiver Front Side Bottom dule (Option)	SPDIF-Out (x1) LAN (RJ45, 10/100/1000M) (x2) RS232-In (x1) WiFi 6, IEEE 802.11 a/b/g/n/ac/ax (2.4GHz/5GHz) BT 5.0 Front (x1) (±25° Angle, >8m Distance) USB 3.0 (x2) USB Type C (x1) ➤ Support up to 65W / display input USB 3.0 (x2) USB Type B (x2) (For Touch Port) USB 2.0 (x1) Slot 1: Standard Intel 80pin OPS (Option) 16W (x2) (Stereo) AC 100 - 240V, 50/60Hz (6.0A) 600W
Audio	USB Window Mor Speakers Power Supp Consumptio Standby Mor	Wifi (USB Module) Bluetooth I/R Receiver Front Side Bottom dule (Option)	SPDIF-Out (x1) LAN (RJ45, 10/100/1000M) (x2) RS232-In (x1) WiFi 6, IEEE 802.11 a/b/g/n/ac/ax (2.4GHz/5GHz) BT 5.0 Front (x1) (±25° Angle, >8m Distance) USB 3.0 (x2) USB Type C (x1) ➤ Support up to 65W / display input USB 3.0 (x2) USB Type B (x2) (For Touch Port) USB 2.0 (x1) Slot 1: Standard Intel 80pin OPS (option) 16W (x2) (Stereo) AC 100 - 240V, 50/60Hz (6.0A) 600W <0.5W (Standby)
Audio Power	USB Window Mor Speakers Power Supp Consumptio Standby Mo Dimension (i	Wifi (USB Module) Bluetooth I/R Receiver Front Side Bottom dule (Option) Note: The state of the	SPDIF-Out (x1) LAN (RJ45, 10/100/1000M) (x2) RS232-In (x1) WiFi 6, IEEE 802.11 a/b/g/n/ac/ax (2.4GHz/5GHz) BT 5.0 Front (x1) (±25° Angle, >8m Distance) USB 3.0 (x2) USB Type C (x1) ➤ Support up to 65W / display input USB 3.0 (x2) USB Type B (x2) (For Touch Port) USB 3.0 (x2) USB Type B (x2) (For Touch Port) USB 2.0 (x1) Slot 1: Standard Intel 80pin OPS (Option) 16W (x2) (Stereo) AC 100 - 240V, 50/60Hz (6.0A) 600W <0.5W (Standby) 1,957 x 1,160 x 86mm
Audio Power	USB Window Mode Speakers Power Supp Consumption Standby Mode Dimension (In Weight	Wifi (USB Module) Bluetooth I/R Receiver Front Side Bottom dule (Option) Note: The state of the	SPDIF-Out (x1) LAN (RJ45, 10/100/1000M) (x2) RS232-In (x1) WiFi 6, IEEE 802.11 a/b/g/n/ac/ax (2.4GHz/5GHz) BT 5.0 Front (x1) (±25° Angle, >8m Distance) USB 3.0 (x2) USB Type C (x1) ➤ Support up to 65W / display input USB 3.0 (x2) USB Type B (x2) (For Touch Port) USB 2.0 (x1) Slot 1: Standard Intel 80pin OPS (option) 16W (x2) (Stereo) AC 100 - 240V, 50/60Hz (6.0A) 600W <0.5W (Standby) 1,957 x 1,160 x 86mm 70.8kg
Audio Power	USB Window Mode Speakers Power Supp Consumption Standby Mode Dimension (In Weight VESA Mount)	Wifi (USB Module) Bluetooth I/R Receiver Front Side Bottom dule (Option) Note: The state of the	SPDIF-Out (x1) LAN (RJ45, 10/100/1000M) (x2) RS232-In (x1) WiFi 6, IEEE 802.11 a/b/g/n/ac/ax (2.4GHz/5GHz) BT 5.0 Front (x1) (±25° Angle, >8m Distance) USB 3.0 (x2) USB Type C (x1) ➤ Support up to 65W / display input USB 3.0 (x2) USB Type B (x2) (For Touch Port) USB 2.0 (x1) Slot 1: Standard Intel 80pin OPS (option) 16W (x2) (Stereo) AC 100 - 240V, 50/60Hz (6.0A) 600W <0.5W (Standby) 1,957 x 1,160 x 86mm 70.8kg 6 - M8 × 25mm, 800 x 400mm Grey Lighting Sensor
Audio Power Physical Characteristics	USB Window Mode Speakers Power Supp Consumption Standby Mode Dimension (In Weight VESA Mount Color	Wifi (USB Module) Bluetooth I/R Receiver Front Side Bottom dule (Option) Note: The state of the	SPDIF-Out (x1) LAN (RJ45, 10/100/1000M) (x2) RS232-In (x1) WiFi 6, IEEE 802.11 a/b/g/n/ac/ax (2.4GHz/5GHz) BT 5.0 Front (x1) (±25° Angle, >8m Distance) USB 3.0 (x2) USB Type C (x1) > Support up to 65W / display input USB 3.0 (x2) USB Type B (x2) (For Touch Port) USB 2.0 (x1) Slot 1: Standard Intel 80pin OPS (Option) 16W (x2) (Stereo) AC 100 - 240V, 50/60Hz (6.0A) 600W <0.5W (Standby) 1,957 x 1,160 x 86mm 70.8kg 6 - M8 × 25mm, 800 x 400mm Grey Lighting Sensor AC Power Cord (3m), WiFi 6 USB
Audio Power Physical Characteristics	USB Window Mod Speakers Power Supp Consumptio Standby Mod Dimension (I) Weight VESA Moun Color Built-in	Wifi (USB Module) Bluetooth I/R Receiver Front Side Bottom dule (Option) Note: The state of the	SPDIF-Out (x1) LAN (RJ45, 10/100/1000M) (x2) RS232-In (x1) WiFi 6, IEEE 802.11 a/b/g/n/ac/ax (2.4GHz/5GHz) BT 5.0 Front (x1) (±25° Angle, >8m Distance) USB 3.0 (x2) USB Type C (x1) ➤ Support up to 65W / display input USB 3.0 (x2) USB Type B (x2) (For Touch Port) USB 2.0 (x1) Slot 1: Standard Intel 80pin OPS (Option) 16W (x2) (Stereo) AC 100 - 240V, 50/60Hz (6.0A) 600W <0.5W (Standby) 1,957 x 1,160 x 86mm 70.8kg 6 - M8 × 25mm, 800 x 400mm Grey Lighting Sensor AC Power Cord (3m), WiFi 6 USB Module, HDMI Cable, Touch USB Cable,
Audio Power Physical Characteristics	USB Window Mode Speakers Power Supp Consumption Standby Mode Dimension (In Weight VESA Mount Color	Wifi (USB Module) Bluetooth I/R Receiver Front Side Bottom dule (Option) Note: The state of the	SPDIF-Out (x1) LAN (RJ45, 10/100/1000M) (x2) RS232-In (x1) WiFi 6, IEEE 802.11 a/b/g/n/ac/ax (2.4GHz/5GHz) BT 5.0 Front (x1) (±25° Angle, >8m Distance) USB 3.0 (x2) USB Type C (x1) ➤ Support up to 65W / display input USB 3.0 (x2) USB Type B (x2) (For Touch Port) USB 2.0 (x1) Slot 1: Standard Intel 80pin OPS (Option) 16W (x2) (Stereo) AC 100 - 240V, 50/60Hz (6.0A) 600W <0.5W (Standby) 1,957 x 1,160 x 86mm 70.8kg 6 - M8 × 25mm, 800 x 400mm Grey Lighting Sensor AC Power Cord (3m), WiFi 6 USB Module, HDMI Cable, Touch USB Cable, Audio Cable, Stylus (x2), Remote Control
Audio Power Physical Characteristics	USB Window Mod Speakers Power Supp Consumptio Standby Mod Dimension (I) Weight VESA Moun Color Built-in	Wifi (USB Module) Bluetooth I/R Receiver Front Side Bottom dule (Option) Note: The state of the	SPDIF-Out (x1) LAN (RJ45, 10/100/1000M) (x2) RS232-In (x1) WiFi 6, IEEE 802.11 a/b/g/n/ac/ax (2.4GHz/5GHz) BT 5.0 Front (x1) (±25° Angle, >8m Distance) USB 3.0 (x2) USB Type C (x1) > Support up to 65W / display input USB 3.0 (x2) USB Type B (x2) (For Touch Port) USB 2.0 (x1) Slot 1: Standard Intel 80pin OPS (Option) 16W (x2) (Stereo) AC 100 - 240V, 50/60Hz (6.0A) 600W <0.5W (Standby) 1,957 x 1,160 x 86mm 70.8kg 6 − M8 × 25mm, 800 x 400mm Grey Lighting Sensor AC Power Cord (3m), WiFi 6 USB Module, HDMI Cable, Touch USB Cable, Audio Cable, Stylus (x2), Remote Control (W/Batteries), Documentation Kit, Wall
Audio Power Physical Characteristics	USB Window Mod Speakers Power Supp Consumptio Standby Mod Dimension (I) Weight VESA Moun Color Built-in	Wifi (USB Module) Bluetooth I/R Receiver Front Side Bottom dule (Option) Note: The state of the	SPDIF-Out (x1) LAN (RJ45, 10/100/1000M) (x2) RS232-In (x1) WiFi 6, IEEE 802.11 a/b/g/n/ac/ax (2.4GHz/5GHz) BT 5.0 Front (x1) (±25° Angle, >8m Distance) USB 3.0 (x2) USB Type C (x1) > Support up to 65W / display input USB 3.0 (x2) USB Type B (x2) (For Touch Port) USB 2.0 (x1) Slot 1: Standard Intel 80pin OPS (option) 16W (x2) (Stereo) AC 100 - 240V, 50/60Hz (6.0A) 600W <0.5W (Standby) 1,957 x 1,160 x 86mm 70.8kg 6 − M8 × 25mm, 800 x 400mm Grey Lighting Sensor 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
Audio Power Physical Characteristics Sensor	USB Window Mod Speakers Power Supp Consumptio Standby Mod Dimension (I) Weight VESA Moun Color Built-in	Wifi (USB Module) Bluetooth I/R Receiver Front Side Bottom dule (Option) Note: The state of the	SPDIF-Out (x1) LAN (RJ45, 10/100/1000M) (x2) RS232-In (x1) WiFi 6, IEEE 802.11 a/b/g/n/ac/ax (2.4GHz/5GHz) BT 5.0 Front (x1) (±25° Angle, >8m Distance) USB 3.0 (x2) USB Type C (x1) > Support up to 65W / display input USB 3.0 (x2) USB Type B (x2) (For Touch Port) USB 2.0 (x1) Slot 1: Standard Intel 80pin OPS (Option) 16W (x2) (Stereo) AC 100 - 240V, 50/60Hz (6.0A) 600W <0.5W (Standby) 1,957 x 1,160 x 86mm 70.8kg 6 − M8 × 25mm, 800 x 400mm Grey Lighting Sensor AC Power Cord (3m), WiFi 6 USB Module, HDMI Cable, Touch USB Cable, Audio Cable, Stylus (x2), Remote Control (W/Batteries), Documentation Kit, Wall
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Audio Power Physical Characteristics Sensor	USB Window More Speakers Power Supp Consumption Standby More Dimension (I Weight VESA Mount Color Built-in	Wifi (USB Module) Bluetooth I/R Receiver Front Side Bottom dule (Option) Note: The state of the	SPDIF-Out (x1) LAN (RJ45, 10/100/1000M) (x2) RS232-In (x1) WiFi 6, IEEE 802.11 a/b/g/n/ac/ax (2.4GHz/5GHz) BT 5.0 Front (x1) (±25° Angle, >8m Distance) USB 3.0 (x2) USB Type C (x1) > Support up to 65W / display input USB 3.0 (x2) USB Type B (x2) (For Touch Port) USB 2.0 (x1) Slot 1: Standard Intel 80pin OPS (Option) 16W (x2) (Stereo) AC 100 - 240V, 50/60Hz (6.0A) 600W <0.5W (Standby) 1,957 x 1,160 x 86mm 70.8kg 6 − M8 × 25mm, 800 x 400mm Grey Lighting Sensor 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 * Sensor Box (including Air Quality/ Temperature Detector, Motion Sensor,

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