

# Interactive Flat Panel Displays with the Windows Open Architecture Controller

D3210BK, D5530BK, D6520BK, D7510BK and D8600BK



Remote collaboration & video conferencing

Run Windows 10 software applications

Life-like HD & 4K resolution display

Multi-touch capabilities

## Transform Your Business Communications with Ricoh IFPDs

Now more than ever, businesses are adopting visual communications technology to enable faster information sharing and group decision making, innovative learning and brainstorming sessions, and high-definition video conferencing with remote team members to collaborate in real time with reduced costs.

At the heart of every visual communications solution is an Interactive Flat Panel Display (IFPD), a high-resolution touchscreen video monitor. Ricoh – a name you know and trust for document production solutions – offers a complete line of IFPDs in a variety of sizes from 32" to 86" to meet all of your audio/visual communication needs.



The 32" **D3210BK** is optimized for smaller huddle spaces and desktop use. Great for impromptu meetings, this portable model offers HD resolution for sharp, bright images and supports up to 10 simultaneous touch points. Eliminate contention for conference rooms; the versatile D3210BK turns any space into a meeting place. It can be used in horizontal or portrait mode, laid flat on a table, and can even double as a PC monitor on an executive's desk for added value.

The **D5530BK**, **D6520BK** and **D7510BK** offer a choice of 55", 65" or 75" screens to meet a wide range of audience and conference room sizes. These Collaboration Boards deliver life-like image quality with 4K resolution, and realize highly accurate touch response for up to 20 simultaneous touch points using FlatFrog InGlass™ technology for a light, sleek design. Equipped with a motion detection sensor that automatically wakes the system when users approach, these IFPDs are rated for IP5X dust resistance for use in frontline environments like construction sites and factory floors. The D5530BK offers a 90° rotation unit option for use in tight spaces and to display images in portrait orientation.



The **D8600BK** is a 4K resolution IFPD for life-like, life-size presentations and meetings demanding maximum visual impact. This 86" IFPD employs second-generation Shadow Sense touchscreen technology and supports up to 10 simultaneous touch points. Intended for larger, more exclusive environments such as corporate boardrooms, auditoriums, conference centers and broadcast studios, the D8600BK brings the biggest ideas to life.

### Unified Platform Approach

Whichever IFPD is the right size for your needs, Ricoh has a model to fit any room and budget while offering an identical user experience. Our *unified platform approach* means once you've learned how to operate one Ricoh IFPD, you've learned how to use them all. Every Ricoh IFPD can be mounted on a rolling stand or attached to a wall. All use a passive touch pen or finger for simplified ease of use. All offer a wide range of video interface ports to display images from virtually any source. And when equipped with the proper licenses and accessories, every Ricoh IFPD can perform every function. So whether your application calls for a stand-alone video display, interactive touchscreen capabilities, document creation and annotation, or real-time remote collaboration and video conferencing, the only difference is the size of the display.



## Open Architecture Controllers Open a World of Possibilities

If the IFPD is the heart of every visual communications solution, then the controller is its brain.

A controller enables capabilities beyond simple video display. Basic whiteboarding and computer desktop display functions can be performed using a PC as an external controller. Touchscreen capabilities are supported through a secondary USB connection.

To take full advantage of the entire spectrum of IFPD capabilities, Ricoh offers a choice of two powerful Windows 10-based controllers. Both transform the IFPD into a super-sized high definition PC with touchscreen capabilities. Their open architecture means you can install and run virtually any Windows 10-compliant software application you need, in addition to accessing their secured whiteboarding, remote collaboration and video conferencing capabilities (with the proper accessories and site licenses). Surf the web, access cloud services, and run Windows 10 software apps on a digital canvas as big as your ideas.



The **Ricoh Windows 10 i5 Controller** is the standard version best for users running office-type Windows 10 applications with visual communications needs. The **Ricoh Windows 10 i7 Controller** is the premier version recommended for more processor-intensive applications such as video rendering, 3D modeling and high-end large-scale graphic display in addition to handling your visual communications requirements. Both seamlessly install into the Open Pluggable Specification (OPS) slot on the side of every Ricoh IFPD for a completely embedded UC solution with touchscreen simplicity.

## Engaging Meetings, Lectures and Brainstorming Sessions

Make presentations and classroom exercises come alive. Ricoh open architecture controllers ship with our IWB Lt drawing and document annotation software preloaded. Ricoh also supports a growing library of native and third party software applications certified for use with these controllers including whiteboarding solutions, project management and collaboration software, IFPD application organization, and others. Ricoh even offers an Education version of the Windows 10 i5 Controller bundled with interactive software for the classroom. Or, install a Windows 10-compliant whiteboarding, project management or educational software app of your liking.



## Improve Teamwork with Remote Collaboration and Video Conferencing



Connect globally. Up to 20 Ricoh IFPDs can be installed on the same network. When a Remote License Type 1 is purchased for each site, remote team meetings with data sharing and simultaneous document viewing and markup at each endpoint is enabled. Add a camera/microphone unit and a subscription to Ricoh's optional video conferencing solution, called the Unified Communications System Advanced (UCSA) service, for real-time, face-to-face video conferencing with up to 100 participants per call. Already have a video conferencing service? Our open architecture controllers give you the freedom to use Skype® for Business, Zoom®, Microsoft Teams™ or most any cloud-based solution of your choosing. Run MS Office 365™ apps, browse the internet, and share documents, videos and data with remote team members. Accomplish in minutes what used to take hours or days while eliminating unnecessary in-person meeting and travel expenses.

Let Ricoh help you collaborate more efficiently wherever your employees are located. Our extensive national support network is the perfect match for all of your visual communications needs.

# D3210BK / D5530BK / D6520BK / D7510BK / D8600BK SYSTEM SPECIFICATIONS

Model	D3210BK	D5530BK	D6520BK	D7510BK	D8600BK
<b>IFPD Screen Specifications</b>					
Diagonal Screen Size	31.5" (28.3" H x 16.3" V)	55" (47.6" H x 26.8" V)	65" (56.2" H x 31.6" V)	75" (64.9" H x 36.5" V)	86" (74.6" H x 41.9" V)
Display Type	Liquid Crystal Display (LCD)				
Orientation	Horizontal, Vertical, Flat	Horizontal, Vertical	Horizontal		
Backlight	LED system	DLED system			LED system
Resolution	1,920 x 1,080 dpi (HD)	3,840 x 2,160 dpi (4K)			
Color	16.77 million (8 bit color)	1.07 billion (10 bit color)			
Brightness	500 cd/m <sup>2</sup>	440 cd/m <sup>2</sup>			410 cd/m <sup>2</sup>
Aspect Ratio	16:9				
Contrast Ratio	3,000:1	4,000:1	5,000:1	4,000:1	1,200:1
Pixel Pitch	0.364 x 0.364 mm	0.315 x 0.315 mm	0.372 x 0.372 mm	0.429 x 0.429 mm	0.4935 x 0.4935 mm
Response Speed	< 8 milliseconds				
Viewing Angle (H/V)	Left and Right: 178° / Up and Down: 178°				
Display Glass	2 mm thick anti-glare glass				4 mm thick anti-glare glass
Speakers	8 W x 2 - bottom	12 W x 2 - bottom	12 W x 2 - front		12 W x 2 - bottom
Motion Detection Sensor	Not Supported	Standard			Not Supported
<b>Touch Sensor Specifications</b>					
Technology	PCAP (Capacitive Touch)	InGlass™ by FlatFrog + Optical Bonding			2 <sup>nd</sup> Gen. Shadow Sense
Maximum Touch Points	10 (4 w/IWB software)	20 (4 w/IWB software)			10 (4 w/IWB software)
Touch Screen Interface	USB 3.0 Type B				
Positional Accuracy	+/- 2 mm (over 90% area)	1 mm			+/- 2 mm (over 90% area)
Operating Systems	Multi-touch: Windows 7, 8.1, 10, Single-touch: Windows 7, 8.1, 10 & Mac OS X 10.8 - 10.15				
<b>Connectivity Specifications</b>					
Video Input	Mini D-Sub 15-pin (VGA) x 1 HDMI x 1 (HDCP compliant) DisplayPort x 1 (HDCP compliant)			Mini D-Sub 15-pin (VGA) x 1 HDMI x 1 (HDCP compliant) DisplayPort x 1 (HDCP compliant) DVI-D x 1 (HDCP compliant)	
Video Output	DisplayPort x 1 (HDCP compliant)				
Audio Input	3.5 mm Line In x 1 (for use with VGA input)				
Audio Output	+/- Speaker Terminals x 1	3.5 mm Headphone Out x 1			+/- Speaker Terminals x 1
USB Device Interfaces	USB 3.0 Type A x 4 (Self-powered 7.5 W) (rear)	USB 3.0 Type A x 6 (2 rear, 4 side)			USB 2.0 Type A x 4 USB 3.0 Type A x 4 (side)
Control & Management	RS-232C x 1 (Input) / RS-232C x 1 (Output)				
OPS Slots	2 - Controller Module x 1 / Capture Module x 1				
Remote Sharing	Up to 20 interactive displays and projector systems. Plus up to 20 remote devices (iOS®, Android® and Windows®) per IFPD*				
Remote PC Operation	Supported using USB 3.0 Type B and Video Input connections				
<b>General Specifications</b>					
Dimensions (WxDxH)	31.0" x 2.75" x 18.9" (789 x 70 x 480 mm)	50.8" x 3.0" x 30.4" (1,290 x 78 x 773 mm)	59.4" x 3.3" x 36.2" (1,508 x 83 x 920 mm)	68.2" x 3.1" x 41.1" (1,733 x 79 x 1,045 mm)	79.1" x 4.9" x 47.25" (2,009 x 125 x 1,200 mm)
Weight	37.5 lbs. (17 Kg)	81.5 lbs. (37 Kg)	103.6 lbs. (47 Kg)	134.5 lbs. (61 Kg)	269 lbs. (122 Kg)
Power Source	AC 100 – 240 V / 50 – 60 Hz				
Power Consumption	< 215 W / < 0.3 W	< 255 W / < 0.5 W	< 380 W / < 0.5 W	< 500 W / < 0.5 W	< 510 W / < 0.5W
Standard Accessories	Wireless Remote Control, Touch Pen & Eraser				
IP5X Dust Resistant	Not Certified	Certified			Not Certified
Advanced Display Features	RS232C Control Daisy Chain, Picture Mode (including Low Blue Light mode), Backlight, Contrast, Brightness, Sharpness, Color Temperature, Picture-in-Picture, Picture-by-Picture, Aspect, Adjust Screen, Touch Feature, Language, Power Save, Control Setting, Touch Control Setting, Set Monitor ID, DICOM Simulation (D5530BK, D6520BK, D7510BK only), Motion Detection Sensor (D5530BK, D6520BK, D7510BK only), Advanced Information, Sound Mode, Treble, Bass, Balance, Volume, Mute, Speaker, Audio Source				
<b>Options &amp; Accessories</b>					
Stands	Type 1	Type 6 BK + Rotation Unit	Type 7 BK		Type 4 BK
Camera/Microphone	Logitech Recommended: Rally 4K Cam, MeetUp 4K Cam, Connect HD Cam or C930e HD Cam				
Spare Pen/Eraser	Touch Pen Type 2 BK	SDW-KIT			
<b>Windows 10 Open Architecture Controller Specifications</b>					
Version	Windows 10 i5 Controller			Windows 10 i7 Controller	
Type / Installation	1-piece Controller Module. Install into upper Open Pluggable Specification (OPS) Slot on side of IFPDs				
CPU	Intel Core i5 6500TE CPU @ 2.3 GHz (Base) / 3.3 GHz (Turbo)			Intel Core i7 8700TE CPU @ 2.4 GHz (Base) / 3.4 GHz (Turbo)	
Internal Storage/Memory	500 GB Hard Disk Drive (HDD) / 16 GB RAM			512 GB Solid State Drive (SSD) / 16 GB RAM	
Operating System	Windows 10 Professional - 64 bit				
Installed Software	Ricoh IWB Lt Software, Ricoh UCS Advanced (My Meeting Video), Customer can install Windows 10-compliant applications				
Network Interfaces	Wired: 10/100/1000Base-T (RJ-45) x 1 & Wireless: IEEE 802.11 ac/a/b/g/n x 1 for management, remote collaboration and video conferencing*. Plus additional audio and video input/output jacks.				
<b>Item</b>					
Item	EDP Code		Item	EDP Code	
Ricoh Interactive Whiteboard D3210BK	432424		IWB Desktop Stand Type 1 (for D3210BK)	755213	
Ricoh Collaboration Board D5530BK	432523		Ricoh Collaboration Board Stand Type 6 BK for D5530BK (2 boxes)	432534 & 432535	
Ricoh Collaboration Board D6520BK	432526		Ricoh Collaboration Board Rotation Unit Type 1 (for Stand Type 6 BK)	432542	
Ricoh Collaboration Board D7510BK	432545		Ricoh Collaboration Board Stand Type 7 BK for D6520BK & D7510 (2 boxes)	432530 & 432531	
Ricoh Interactive Whiteboard D8600BK	432447		Ricoh Collaboration Board Stand Type 4 BK for D8600BK (2 boxes)	432451 & 432452	
Windows 10 i5 Controller	432308		Touch Pen Type 2 (for D3210BK only)	755219	
Windows 10 i7 Controller	432563		Touch Pen and Eraser Kit (55" - 86")	SDW-KIT	
Ricoh IWB Remote License Type 1	431128		Logitech Wireless Keyboard/Touchpad	920-008357	

Disclaimer: Brightness will depend on input mode and other picture settings. Brightness level will decrease over time. USB with security or anti-virus software installed are not compatible. Remote sharing function requires Remote License. Remote License is required for collaborative meetings. For wall mounting, use a standard VESA mount (not supplied by Ricoh). Via intranet, required line speed: Min. 200Kbps, recommended over 512Kbps. For availability of models, options and software, please consult your local Ricoh supplier. \*When using licensed IWB Lt software.

**RICOH**  
imagine. change.

www.ricoh-usa.com

Ricoh USA, Inc., 300 Eagleview Boulevard, Exton, PA 19341, 1-800-63-RICOH  
©2020, Ricoh USA, Inc. All rights reserved. Ricoh and the Ricoh logo are registered trademarks of Ricoh Company, Ltd. All other trademarks are the property of their respective owners. The content of this document, and the appearance, features and specifications of Ricoh products and services are subject to change from time to time without notice. Products are shown with optional features. While care has been taken to ensure the accuracy of this information, Ricoh makes no representation or warranties about the accuracy, completeness or adequacy of the information contained herein, and shall not be liable for any errors or omissions in these materials. Actual results will vary depending upon use of the products and services, and the conditions and factors affecting performance. The only warranties for Ricoh products and services are as set forth in the express warranty statements accompanying them.