

## Ricoh IFPD D8600BK Competitive Matrix

Model	Ricoh D8600BK	Sharp PN-L851H	Clevertouch UX Pro 86"	Smart Board 7086 Pro	Cisco Webex Board 85s
<b>Street Price</b>	\$10,125 - IFPD only \$1,910 - Windows 10 Business Controller \$1,535 - Windows 10 i5 Controller \$1,989 - Windows 10 i7 Controller	\$9,990 - IFPD w/ Embedded Android Controller	INA - IFPD w/ Embedded Android Controller	\$9,598 w/ Embedded Windows Controller	\$15,179 plus Cisco Webex Service Subscription
<b>Display Specifications</b>					
<b>Panel Size / Aspect Ratio</b>	86" diagonal / 16:9	85" diagonal / 16:9	86" diagonal / 16:9	86" diagonal / 16:9	85" diagonal / 16:9
<b>Supported Display Orientations</b>	Horizontal	Horizontal, Vertical (Portrait)	Horizontal	Horizontal	Horizontal
<b>Screen Type</b>	LCD	LCD	LCD	LCD	LCD
<b>Back Light</b>	LED	LED, Direct Lit	LED	LED	LED
<b>Maximum Resolution</b>	3,840 x 2,160 dpi (4K)	3,840 x 2,160 dpi (4K)	3,840 x 2,160 dpi (4K)	3,840 x 2,160 dpi (4K)	3,840 x 2,160 dpi (4K)
<b>Maximum Display Colors</b>	1.07 billion (10 bit color processing)	1.07 billion	1.07 billion	NA	1.07 billion
<b>Contrast Ratio</b>	1,200:1	5,000:1	1,200:1	5,000:1	14,000:1
<b>Brightness</b>	410 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>	400 cd/m <sup>2</sup>	360 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>
<b>Angle of View</b>	Left/Right: 178°, Up/Down: 178°	Left/Right: 178°, Up/Down: 178°	Left/Right: 178°, Up/Down: 178°	Left/Right: 178°, Up/Down: 178°	Left/Right: 178°, Up/Down: 178°
<b>Touch Screen Technology</b>	Shadow Sense - 2 <sup>nd</sup> Generation	InGlass™ by FlatFrog	High Precision Technology	HyPr (proprietary)	Capacitive Touch
<b>Touch Screen Response Speed</b>	8 milliseconds	9.5 milliseconds	8 milliseconds	8 milliseconds	6.5 milliseconds
<b>Maximum Number of Simultaneous Touch Points</b>	10 points (TouchPanel) 4 points (using IWB Software)	20 points	20 points	16 points	1 or 2 points
<b>Built-in Camera</b>	No	No	No	No	Yes
<b>Built-in Microphone</b>	No	No	Standard	No	Yes
<b>Built-in Speakers</b>	12 W x 2 (Bottom)	10 x 2	15 W x 2	10 W x 2	INA W x 2
<b>Installation Type</b>	Wall mount or optional rolling stand	Wall mount or optional 3 <sup>rd</sup> Party stand	Wall mount or optional 3 <sup>rd</sup> Party stand	Wall mount or optional 3 <sup>rd</sup> Party stand	Wall mount or optional 3 <sup>rd</sup> Party stand
<b>Advanced Features</b>					
<b>Finger Writing &amp; Page Control</b>	Supported	Supported	Supported	Supported	Standard
<b>Passive Pen Writing</b>	Supported	Supported	Supported	Supported	Standard
<b>Intelligent Character Recognition</b>	Supported	Supported	Supported	Not Supported	INA
<b>Daisy Chain Display &amp; Control</b>	Supported	Not Supported	Supported	Supported	Supported
<b>Picture In Picture/Picture By Picture</b>	Supported	Supported	Supported	Supported	Supported
<b>Page Creation/Mark-up/Saving</b>	Supported	Supported	Supported	Supported	Supported
<b>Remote Interactive Collaboration</b>	Supported with IWB Remote License	Supported	Supported	Supported	Supported w/ Cisco Webex Teams app
<b>Real-time Video Conferencing</b>	Supported with IWB Remote License	3 <sup>rd</sup> Party Supported	3 <sup>rd</sup> Party Supported	Supported	Supported w/ Cisco Webex Teams app
<b>Participation via Remote Devices</b>	Supported with IWB Remote License	Supported	Supported	Supported	Supported w/ Cisco Webex Teams app
<b>Display Connectivity Terminals</b>					
<b>Display Input Terminals</b>	<ul style="list-style-type: none"> <li>▶ Mini D-Sub 15-pin (VGA) x 1</li> <li>▶ HDMI x 1 (HDCP compliant)</li> <li>▶ DisplayPort x 1 (HDCP compliant)</li> <li>▶ DVI-D x 1 (HDCP compliant)</li> <li>▶ USB 3.0 Type B x 1 (for Touchscreen)</li> <li>▶ USB 3.0 Type A x 4 (side)</li> <li>▶ USB 2.0 Type A x 4 (2 rear, 2 side)</li> <li>▶ OPS x 1 for Controller Module</li> <li>▶ OPS x 1 for Capture Module</li> <li>[Additional input &amp; network interfaces on opt. Controller &amp; Capture modules]</li> </ul>	<ul style="list-style-type: none"> <li>▶ Mini D-Sub 15-pin (VGA) x 1</li> <li>▶ HDMI x 2 (HDCP compliant)</li> <li>▶ DisplayPort x 1 (HDCP compliant)</li> <li>▶ USB 2.0 Type B x 1 (for Touchscreen)</li> <li>▶ USB 2.0 Type A x 2</li> </ul>	<ul style="list-style-type: none"> <li>▶ Mini D-Sub 15-pin (VGA) x 1</li> <li>▶ HDMI x 3</li> <li>▶ DisplayPort x 1</li> <li>▶ USB-A 2.0 x 3 (1 for upgrades)</li> <li>▶ USB-B x 1 (for Touchscreen)</li> <li>▶ USB-A 3.0 x 1</li> <li>▶ USB - C x 2</li> <li>▶ OPS x 1</li> <li>▶ Wireless Adaptor</li> <li>▶ RJ-45</li> </ul>	<ul style="list-style-type: none"> <li>▶ Mini D-Sub 15-pin (VGA) x 1</li> <li>▶ OPS x 1</li> <li>▶ HDMI x 2</li> <li>▶ USB-A 2.0 x 1</li> <li>▶ USB-A 3.0 x 3</li> <li>▶ USB-B 3.0 x 2</li> <li>▶ RJ-45 x 2</li> </ul>	<ul style="list-style-type: none"> <li>▶ HDMI x 1</li> <li>▶ Wireless LAN</li> <li>▶ Gigabit Ethernet (RJ-45) x 1</li> <li>▶ USB 3.0 Type A x 2 (for service)</li> <li>▶ Bluetooth 4.0 LE</li> </ul>
<b>Video Output</b>	▶ DisplayPort x 1	▶ Display Port x 1	▶ HDMI x 1	▶ HDMI x 1	▶ N/A
<b>Audio Input</b>	▶ 3.5 mm Line In Jack x 1	▶ 3.5 mm Line In Jack x 1	▶ 3.5 mm Line In Jack x 1	▶ 3.5 mm Line In Jack x 1	▶ N/A
<b>Audio Output</b>	▶ L/R Speaker Terminals x 1 pair	▶ 3.5 mm Line Out Jack x 1	▶ 3.5 mm Line Out Jack x 1	▶ 3.5 mm Line Out Jack x 1	▶ 3.5 mm Line Out Jack x 1
<b>Control Terminals</b>	▶ RS-232C x 2 (Input & Output) ▶ RJ-45 x 1 on Controller	▶ RS-232C x 1 Input	▶ RS-232C	▶ RS-232C In/Out	▶ N/A
<b>Physical Specifications</b>					
<b>Dimensions (WxDxH)</b>	79.1" x 4.9" x 47.25"	76.81" x 3.87" x 45.75"	77.07" x 3.73" x 46.53"	78.75" x 5.75" x 48.62"	77.4" x 3" x 48.1"
<b>Weight</b>	269 lbs.	170 lbs.	191.93 lbs.	201 lbs.	220 lbs.
<b>Product Warranty</b>	3 Years	3 Years	N/A	3 Years	90 days
<b>Notes</b>					
INA = Information not available N/A = Function not available		<ul style="list-style-type: none"> <li>▶ Includes 2 Wi-Fi antennas, Stylus x 2, Sharp Touch Viewing Software, Sharp Pen Software, Camera Mounting Kit, Sharp Display Connect License</li> </ul>	<ul style="list-style-type: none"> <li>▶ Dual Controller configuration with optional Windows Controller</li> <li>▶ NUITEQ Stage (digital signage)</li> </ul>	<ul style="list-style-type: none"> <li>▶ IQ and SmartMeeting Pro Included</li> </ul>	<ul style="list-style-type: none"> <li>▶ Monthly or annual subscription</li> <li>▶ Closed Cisco Cloud architecture</li> </ul>

This information has been compiled from several sources including specification guides, published analyst reports, product brochures, and data gathered from manufacturer/reseller Websites. Some discrepancies were found. This document represents a compilation of these sources to the best of Ricoh's ability. Information subject to change.

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