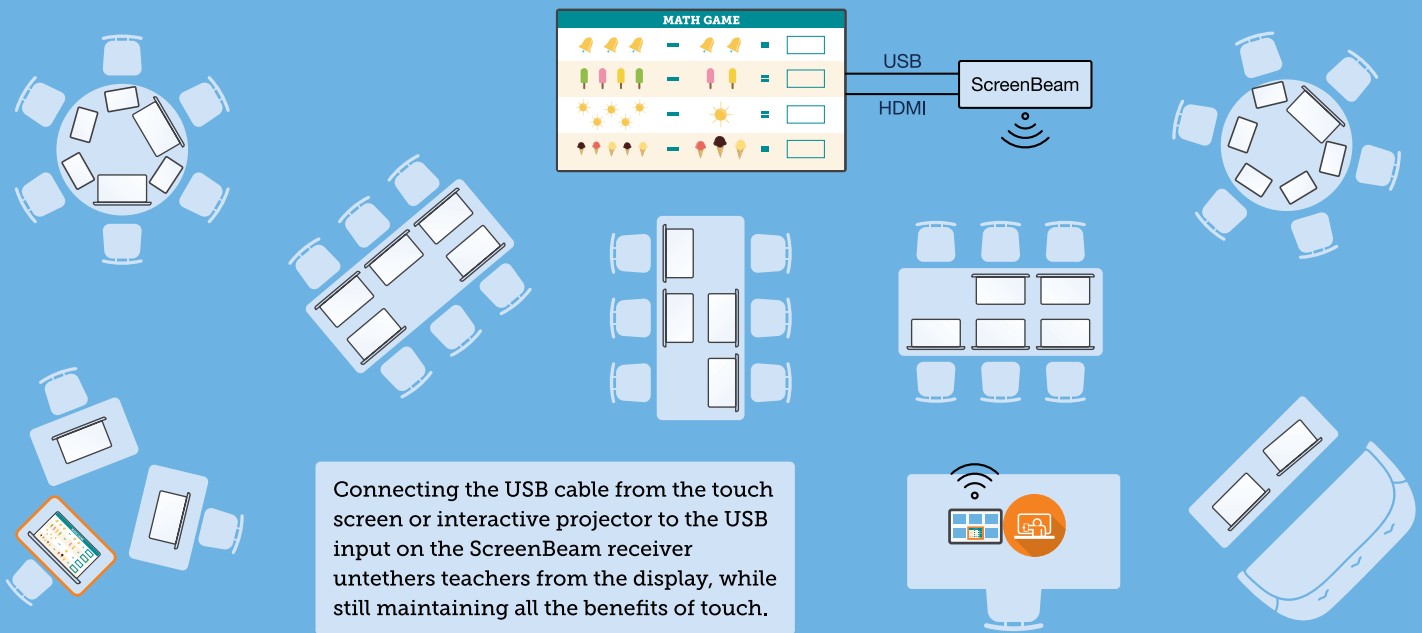# ScreenBeam Classroom Commander

Delivers classroom orchestration and wireless display for up to 50 Windows 10 student devices, without taxing your network or setting up servers

The modern classroom shouldn't rely on rows of desks, cables, wires, buttons and multiple tools to make things work. With a powerful Windows 10 device and Classroom Commander, schools are free to create and be agile in one-to-one environments—while still giving teachers just the right amount of

control to instruct, give students access to share, and orchestrate lessons and content with ease. All this for up to 50 devices at once without setting up servers, taxing your network or running more cables to make it work. Constructive feedback is easy with Windows Ink and touch display.

Connecting the USB cable from the touch screen or interactive projector to the USB input on the ScreenBeam receiver untethers teachers from the display, while still maintaining all the benefits of touch.

A Wireless Environment Made Easy

ScreenBeam Classroom Commander creates an in-room hub for wireless connectivity that is automated, extremely easy to use and eliminates network congestion.

Support for the Miracast™ technology standard enables Windows devices to connect directly to the ScreenBeam receiver while maintaining connectivity to the school network for Internet and LAN services. This enables

the wireless display functionality, student device monitoring and control to happen off the school network, eliminating the heavy bandwidth impact of traditional student device monitoring and the extraordinary cost of dedicated servers to support the application. The result: streamlined, easy-to-implement solution for wireless connectivity that saves valuable resources while optimizing instruction time.

Modern Classrooms Require Instant and Constructive Feedback

When teachers combine native Windows Inking across the Windows 10 and Office 365 applications with ScreenBeam, they can share their notes, presentations and more directly to student devices or the front of room display improving classroom collaboration.

Marking up student content and images or creating sticky notes gets a point across efficiently. Then ScreenBeam's unique support of touch displays captures and saves annotations on the student device screen.

Create flexible classrooms. Eliminate the standard "desks in a row" formation to open classroom communication and collaboration. Arrange student seating for quiet study or discussion-based group work.

Monitor student devices. View a single student screen or all the student devices and active applications in real-time to keep the classroom focused and identify disengaged students quickly.

Untether teachers. Teachers move freely and interact with students, eliminating "sage on the stage" teaching to support engaging and flexible teaching methods that improve student outcomes.

Collaborate wirelessly. Wireless inking and touch display support brings collaboration to the front-of-room display. Teachers can annotate directly onto a student screen from the classroom display, even when student devices are not touch-enabled.

Present student screens. With teacher permission, students can display their work right from their desk for the entire classroom to view and discuss together.

Guide learning. Message a student or group, blank and lock the keyboard/mouse on a single student screen, multiple student screens or the entire class to command attention.

Watch a Video
ScreenBeam Classroom Commander increases learning outcomes.
www.screenbeam.com/get-sbcc

Request a Trial
Request a demo kit supporting three connections: one teacher PC and two student PCs with complete feature set.
www.screenbeam.com/forms/request-a-trial

Three Components, One Complete Solution

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ScreenBeam 1100 Wireless Display Receiver

- Supports up to 51 simultaneous connections.
- Creates a secure in-room hub enabling local wireless connectivity with no impact on school network.
- Enables direct connection between device and ScreenBeam receiver with Miracast standard.
- Reduces the communication latency between teacher and student devices.

Classroom Commander Software License

- Software license enables wireless orchestration features.
- Teacher and student device apps are available at the Microsoft Store.
- Covers maintenance, fixes, and firmware updates for duration of one year license.

Central Management System (CMS) Software

- Receiver includes CMS software for centralized management of wireless display receivers on the network.
- School IT administrators monitor status, organize and group ScreenBeam receivers by location.
- Push firmware updates, reset and change individual preferences, change network settings and enable remote help-desk service.

Technical Specifications

Compatibility
Windows 10 device with Miracast wireless display

Requirements
- ScreenBeam wireless receiver with Classroom Commander support
- ScreenBeam Central Management System (CMS, included with the ScreenBeam)
- Display with available HDMI/VGA port
  Interactive display/projector with USB HID is required to support wireless touch/ink back
- Microsoft Store (for Classroom Commander app on teacher and student devices)
- Open Non-DFS 5GHz wireless channel (Optional)

System Requirements

Minimum		Recommended	
Teacher Device		**Teacher Device**	
OS	Windows 10 Pro/Edu/Ent/S (64-bit[1])	OS	Windows 10 Pro/Edu/Ent/S (64-bit[1])
CPU	Fourth generation Intel Core i3 or AMD equivalent	CPU	Fourth generation Intel Core i5 or AMD equivalent, or better
Wireless	802.11AC dual-band 2x2[2]	Wireless	Intel dual-band wireless AC 726x or better[2]
Memory	4 GB	Memory	4 GB or more
HD Space	150 MB	HD Space	300 MB or more
Student Device		**Student Device**	
OS	Windows 10 Pro/Edu/Ent/S (64-bit[1])	OS	Windows 10 Pro/Edu/Ent/S (64-bit[1])
CPU	Intel Celeron N3010 or AMD equivalent	CPU	Intel Celeron N3060 or AMD equivalent, or better
Wireless	802.11AC dual-band 1x1[2]	Wireless	Intel dual-band wireless AC 726x or better[2]
Memory	2 GB	Memory	4 GB or more
HD Space	150 MB	HD Space	300 MB or more

ScreenBeam Wireless Receiver Specifications

Video	H.264; supports up to 4096x2160 @ 60 fps resolution
Audio	LPCM 2.0
Interface	1 x HDMI 2.0a Output; 1 x VGA Output 1 x Analog 3.5mm audio output; 2 x USB 2.0 Host Type-A 1 x USB 3.0 Host Type-A; 1 x DC Power Jack
Ethernet	10/100/1000 RJ-45 LAN
Wireless	**Miracast P2P and AP:** 802.11ac dual-band 3x3 MIMO **Wireless Bridge:** 802.11ac dual-band 2x2 MIM | **Bluetooth:** 4.2
Authentication	WPA-PSK (TKIP); WPA2-PSK (AES); PEAP-MSCHAP V2; EAP-TLS

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1 Windows 10 Build 1607 (and newer)

2 Wireless adapter and driver with Different Channel Mode (DCM) support is required.
   Make sure your device has the latest updates for Windows 10 and device drivers.

ScreenBeam
Classroom Commander

Industry Leader
ScreenBeam wireless display is the only solution that truly enables commercial deployment of secured and IT manageable wireless display. ScreenBeam wireless display is the industry standard for benchmarking and device interoperability, making it the most broadly compatible solution available.

Actiontec is Microsoft's co-engineering partner for wireless display technologies in Windows. Because of Actiontec's status as the industry leader, and our ongoing investment in supporting industry device manufacturers, you can be assured you're deploying the most broadly compatible, feature-rich wireless display platform.

screenbeam.com

ScreenBeam™

wireless display