

SUPERBOOSTER® USB CAMERA EXTENDERS



1080P USB CAMERA EXTENDERS COMPATIBILITY TEST RESULTS

Cameras were tested with C2G54275, C2G54276 and C2G54277

Camera/Host Computer	Camera Model	Camera Max Resolution & Frame Rate	Dell Latitude 5500	Dell Inspiron 15 5000	Lenovo ThinkPad L15	Lenovo ThinkPad X1 Carbon	HP Spectre x360	Windows Surface Laptop 4	CTL Chromebook	Apple Macbook Pro M1
Logitech Meetup	V-R0007	4K30	1080/30	1080/30	1080/30	1080/30 ⁴	1080/30	1080/30	1080/30 ⁵	1080/30
Logitech Rally Bar	VR-0019	4K30	1080/30	1080/30	1080/30	1080/30	1080/30	1080/30	1080/30 ⁶	1080/30
Logitech Rally Camera	V-R0010	4K30	1080/30	1080/30	1080/30	1080/30 ⁴	1080/30	1080/30	1080/30	1080/30
Logitech BCC950	960-000866	1080/30	1080/30	1080/30	1080/30	1080/30 ⁴	1080/30	1080/30	1080/30	1080/30
Polycom Poly Studio 4K	P009	4K30	1080/30	1080/30	1080/30	1080/30	1080/30	1080/30	1080/30	1080/30
Polycom Poly Studio X50	2200-85970-001	4K30	1080/30	1080/30	1080/30	1080/30	1080/30	1080/30	1080/30	1080/30
Owl Labs Meeting Owl 3	MTW300-1000	Panoramic 1080/30	1080/30	1080/30	1080/30	1080/30	1080/30	1080/30	1080/30	1080/30
AVer TR333V2	PATR333V2	1080/60	1080/60	1080/60	1080/60	1080/60	1080/60	1080/60	1080/30 ⁷	1080/60
AVer Cam550	COMCAM550	4K30	1080/60	1080/60	1080/60	1080/60	1080/60	1080/60	N/A ⁸	1080/60
Logitech Brio 4K	V-U0040	4K30	1080/30	1080/30	1080/30	1080/30	1080/30	1080/30	1080/30	1080/30
Jabra PanaCast 50	8200-232	Panoramic-4K; 3840x1080 @ 30fps	1080/30	1080/30	1080/30	1080/30	1080/30	1080/30	1080/30	1080/30
Yealink UVC86	UVC86	4K30	4K30	4K30 ²	4K30	4K30 ⁴	4K30	4K30	4K30 ⁹	4K30
AVAYA RC100	700515495 Rev:A02	4K30	4K30	4K30	4K30	4K30	4K30	4K30	4K30	4K30
Bose Video Bar VB1	842415-1110	4K30	1080/30	1080/30 ³	1080/30	1080/30	1080/30	1080/30	1080/30	1080/30
Vaddio IntelliSHOT ¹	999-21100-000W	1080/30 max; 720/30 expected with USB 2.0	720/30	720/30	720/30	720/30	720/30	720/30	360/30 ¹⁰	720/30
Vaddio IntelliSHOT-M	999-21182-000	1080/60	1080/60	1080/60	1080/60	1080/60	1080/60	1080/60	1080/60	1080/60
Vaddio RoboSHOT ¹	999-99200-000	1080/60 max; 540/30 expected with USB 2.0	540/30	540/30	540/30	540/30	540/30	540/30	540/30	540/30
Vaddio RoboSHOT 30E-M	999-21132-000W	1080/60	1080/60	1080/60	1080/60	1080/60	1080/60	1080/60	1080/60	1080/60
Huddly IQ	H1-MBLK E44A00355	1080/30	1080/30	1080/30	1080/30	1080/30	1080/30	1080/30	1080/30	1080/30
Huddlecams	HC10X-GY-G3	1080/30	1080/30	1080/30	1080/30	1080/30	1080/30	1080/30	1080/30	1080/30

FOOTNOTES ON TEST RESULTS

- For best performance, use C2G USB 3.2 Extenders like C2G54265, C2G54266, C2G54267, or C2G54268. These particular Vaddio cameras do not perform as well with USB 2.0 because they do not use USB compression. 540p is the expected result, with the exception of the IntelliSHOT which has "light compression." Alternatively, Vaddio IntelliSHOT-M and Vaddio RoboSHOT 30E-M were optimized for USB 2.0 and will work well with the extender.
- After multiple intermittent disconnections, there was a delay of several seconds for the camera to reconnect after rebooting the PC.
- The camera's speaker did not recover from sleep state until input/output were modified (from Bose to Windows default and back to Bose) in the system settings.
- The default Windows camera app displayed a blank, black screen when the camera was toggled on. This was resolved with a hotplug or power cycle. Video and audio should work normally using other video apps.
- Intermittent disconnect during testing.
- In some test cases, camera would not successfully toggle on after a state change. This was resolved by hotplugging the source device.
- After PC went into sleep state, there was a delay of several seconds for the camera to reconnect at times when woken up.
- There was a fundamental incompatibility between these two devices, (excluding the extender) so this test case was eliminated.
- There was a several second delay for the camera to connect to the PC host.
- There were resolution inconsistencies in this test case. 360p is the max resolution achievable through the camera extender.

Key	
	Pass
	Failure
	Intermittent Failure
	Intermittent Failure; Less Pronounced

HOW TESTS WERE CONDUCTED

Source + C2G Superbooster USB Camera Extender (C2G54275, C2G54276, C2G54277) + Camera (cables in between devices were randomized).

C2G | CHIEF | DA-LITE | LUXUL | MIDDLE ATLANTIC | VADDIO | WIREMOLD

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SUPERBOOSTER® USB EXTENDER



4K USB CAMERAS COMPATIBILITY TEST RESULTS

Devices were tested with C2G54265 - Superbooster 4-Port USB over Cat6a Extender Kit - USB 3.2 Gen1 (5Gbps).

Device/Source	Model	Dell Latitude 5500	Lenovo ThinkPad T14	HP Spectre x360 2021	Windows Surface Laptop 4	CTL Chromebook	Apple MacBook Pro M1 (A to C adapter)
Cameras	AVAYA RC100	700515495 Rev:A02	Pass	Pass	Pass	Pass	Pass
	Aver Cam550	COMCAM550	Pass	Pass	Pass	Pass	Pass ⁴
	AVer TR333V2	PATR333V2	Pass	Pass	Pass	N/A	Pass
	Huddly IQ	H1-MBLK E44A00355	Pass	Pass	Pass	Pass	Pass
	Logitech Brio	V-U0040	Pass	Pass	Pass	Pass	Pass ⁵
	Logitech Meetup	V-R0007	Pass	Pass	Pass	Pass	Pass
	Logitech Rally Bar	VR-0019	Pass	Pass	Pass	Pass ³	Pass
	Owl Labs Meeting Owl 3	MTW300-1000	Pass ²	Pass	Pass ²	Pass	Pass
	Polycom Poly Studio 4K	P009	Pass	Pass	Pass	Pass	Pass
Hard Drives/ U Drives	Kingston Solid State Drive	XS2000	Pass	Pass	Pass	Pass	Pass
	PNY USB 2.0 Flash Drive	P-FD32GX5ATT4-EF	Pass	Pass	Pass	Pass	Pass
	Rocket XTRM-Q Solid State Drive	SB-XTMQ-1TB	Pass	Pass	N/A	Pass	Pass
	Sandisk Solid State Drive	SDSSDE81-1T00-G25	Pass ¹	Pass	Pass	Pass	Pass
Docks/Hubs	C2G Docking station + Logitech mouse + San Disk Flash Drive	C2G54535 + M185 + SDSSDE81-1T00-G25	Pass ¹	Pass	Pass	Pass	Pass
	C2G USB Hub + Logitech mouse	C2G54461 + M185	Pass	Pass	Pass	Pass	Pass
	Logitech USB 2.0 Mouse	M185	Pass	Pass	Pass	Pass	Pass
	xbox Core controller	M1142084-007	Pass	Pass	Pass	Pass	N/A

FOOTNOTES ON TEST RESULTS

- At the full 328 ft (100m) distance, there could be intermittent but rare occurrences of USB link disconnects that cannot be replicated reliably. When this does happen, the link will automatically reconnect. Alternatively, using a shorter cable will also resolve the issue.
- Occasional artifating not seen with passive cable.
- Camera stopped working between shutdown test. Recovered after a few minutes.
- After power cycling the Aver camera, it takes a few seconds to re-detect the camera, then works without an issue.
- Did not connect at USB 3.2 speeds at first. Power cycle resolved the issue.

Key	
	Pass
	Failure
	Intermittent Failure
	Intermittent Failure; Less Pronounced

HOW TESTS WERE CONDUCTED

Source->3.3ft (1m) B-A Cable or 10ft (3m)
B-C Cable->C2G54265 USB 3.2 Extender
TX->328ft (100m) Cat6a U/FTP->RX->
Device (powered at rx) (1)

SUPERBOOSTER® USB EXTENDER



4K USB CAMERAS COMPATIBILITY TEST RESULTS

Devices were tested with C2G54265 - Superbooster 4-Port USB over Cat6a Extender Kit - USB 3.2 Gen1 (5Gbps).

Device/Source	Model	Dell Inspiron 14	Microsoft Surface Laptop 4 AMD	MacBook Air A1932	Asus Vivobook 14 Intel	Samsung Chromebook Plus V2
Keyboards/Mice/SSD/Flash Drive	Kingston Hard Drive	xs2000	Pass	Pass	Pass	Pass
	SanDisk Hard Drive	SDSSDE81-1T00	Pass	Pass	Pass	Pass
	SanDisk U Disk	SDDDC3	Pass	Pass	Pass	Pass ⁶
	SanDisk U Disk	SDCZ74	Pass	Pass	Pass	Pass
	Corsair Keyboard	RGP0057	Pass	Pass	Pass ⁷	Pass ⁸
	Logitech Keyboard	Y-U0009	Pass	Pass	Pass	Pass
	A4TECH Wireless Keyboard/Mouse	FG1010 Combo	Pass	Pass	Pass	Pass
	Apple Mouse	A1152	Pass	Pass	Pass	Pass
	DELL Wireless Keyboard/Mouse	KM117 Combo	Pass	Pass	Pass	Pass ⁹
	HP Wireless Keyboard/Mouse	CS10 Combo	Pass	Pass	Pass	Pass
	Logitech Wireless Keyboard/Mouse	MK270 Combo	Pass	Pass	Pass	Pass ⁹
	RAPOO Wireless Keyboard/Mouse	X336M Combo	Pass	Pass	Pass	Pass
	Razer Mouse	RZ01-0321	Pass	Pass	Pass	Pass

FOOTNOTES ON TEST RESULTS

- During hotplug testing, the devices were not detected 7 out of 50 times. Unplugging the host device or RJ45 cable resolved the issue.
- During hotplug testing, the USB Keyboard/Mouse could not wake up the laptop 4 out of 50 times. Rebooting the laptop resolved the issue.
- During hotplug testing, the devices were not detected 6 out of 50 times. Unplugging the host device or RJ45 cable resolved the issue.
- During hotplug testing, the devices were not detected 7 out of 50 times. Rebooting the laptop resolved the issue.

Key	
Pass	
Failure	
Intermittent Failure	
Intermittent Failure; Less Pronounced	

HOW TESTS WERE CONDUCTED

Source->3.3ft (1m) B-A Cable or 10ft (3m)
B-C Cable->C2G54265 USB 3.2 Extender
TX->295ft (90m) Cat6a U/FTP or 328ft (100m) F/FTP->RX->Device (powered at rx)

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4K USB CAMERAS COMPATIBILITY TEST RESULTS

Cameras were tested with C2G54266, C2G54267, C2G54268 and C2G54269

Cabling: 100m Cat6a U/FTP Device \ Source	Acer Spin 714 Chromebook	Macbook Pro M3	Macbook Air 2019	Microsoft Surface Laptop 7	Dell Latitude 5410	HP Spectre x360 2023	Lenovo ThinkPad X1 Carbon Gen 9	Asus Vivobook	Microsoft Surface Laptop 4	Dell Inspiron 14 7430
Vaddio RoboSHOT 30E-M	pass ³	pass	pass	pass ⁶	pass	pass	pass	pass	pass	pass ⁸
Bose Videobar VB1	pass ³	pass	pass	pass	pass ⁷	pass	pass	pass	pass	pass
Logitech Rally Camera	pass	pass	pass	pass	pass	pass ⁷	pass	pass	pass ⁷	pass
Owl Labs Meeting Owl 3	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass ⁸
Polycorn Studio Camera	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
AVer CAM550	N/A ¹	pass	pass	pass	pass	pass	pass	pass	pass ⁸	pass
Avaya RC100	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
Perrix USB-C Keyboard	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
Kingston SSD	N/A ²	pass	pass	pass	pass	pass	pass	pass	pass	pass
SanDisk SSD	N/A ²	pass	pass ⁴	pass	pass	pass	pass	pass ⁵	pass ⁵	pass ⁵

KEY NOTES

1. Incompatible with passive cables.
2. ChromeOS does not offer an SSD speed test app, but files will still be accessible.
3. Limited to 1080p 30Hz.
4. Slower speeds after waking from sleep. Restart of the computer may be needed to regain full speeds.
5. Some speeds are slower than expected, but the device is still functional.
6. Occasional sensitivity to the movement of the category cable may cause the HDBT link to briefly disconnect and then reconnect after a few seconds. This issue is typically minimized by using a category cable that is 60 meters or shorter in length, as the problem is rare at these distances.
7. Resolution is occasionally limited to below its maximum; typically re-plugging the cable on the PC or restarting the PC will fix.
8. The camera app software may occasionally encounter issues like the video feed not displaying or exhibiting lag. Restarting the application will typically resolve these issues when they occur.

GENERAL NOTES

- Dropouts can occur while stressing the system (running multiple cameras at max resolution and external SSD speedtest simultaneously) but all devices work individually
- Cameras are tested at their maximum resolution and framerate
- USB SSD storage devices should exceed 350 MB/s for reliable performance

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HOW TESTS WERE CONDUCTED

Source->3.3ft (1m) C-C Cable or 10ft (3m) A-C Cable->USB 3.2 Extender TX->328ft (100m) Cat6a U/FTP->RX->Device

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