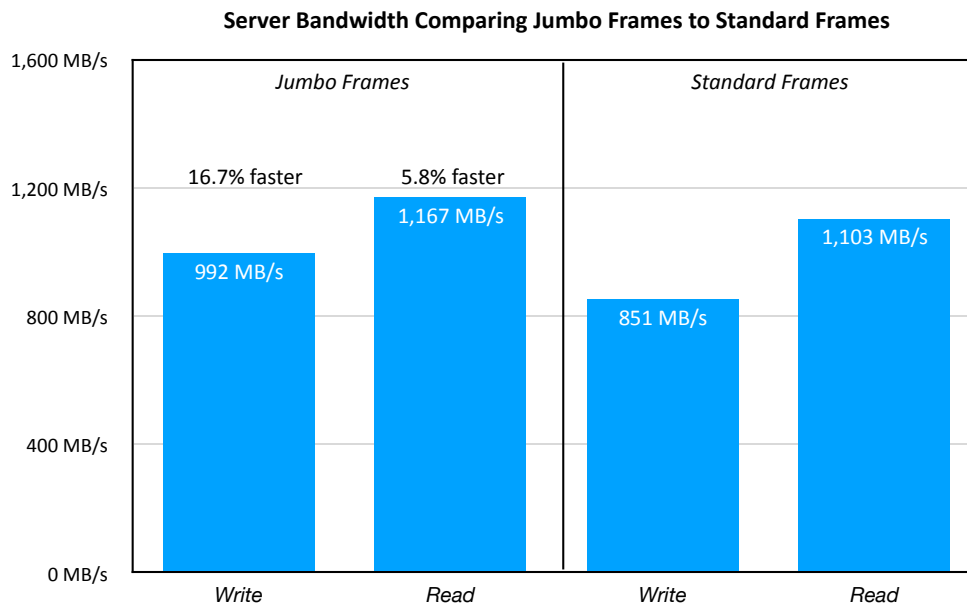


Server Bandwidth Comparing Jumbo Frames to Standard Frames

	Jumbo Frames		Standard Frames		Difference	
	Write	Read	Write	Read	Write	Read
Average	992.3	1167.3	850.7	1103.3	16.7%	5.8%
<i>Maximum</i>	997	1168	877	1105		
<i>Minimum</i>	986	1167	811	1101		
<i>Standard Deviation</i>	5.7	0.6	35.0	2.1		
<i>Test 1</i>	986	1167	877	1104		
<i>Test 2</i>	997	1168	811	1101		
<i>Test 3</i>	994	1167	864	1105		



Speeds measured using AJA System Test.

Average Writing Speed by File Size - 10G Connection

	Small Files (Stills)	Medium Files	Large Files
	Write	Write	Write
<i>Average</i>	133.1	508.0	682.7
<i>Maximum</i>	328.0	1150.0	1130.0
<i>Minimum</i>	51.7	150.7	25.9
<i>Standard Deviation</i>	111.2	408.0	495.3
<i>Test 1</i>	100.8	290	244
<i>Test 2</i>	107.7	150.7	893.8
<i>Test 3</i>	77.1	1150	1120
<i>Test 4</i>	328.0	279.2	1130
<i>Test 5</i>	51.7	669.9	25.9
<i>Test 6</i>			1130

Small:
357 still images

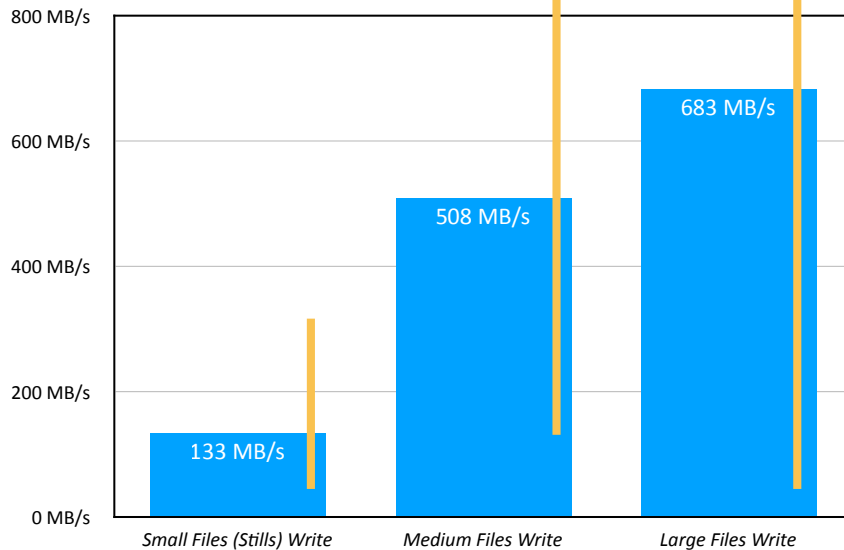
Medium:
Walker undersea

Large:
98 4K videos 89 GB

Average Writing Speed by File Size - 1 G Connection

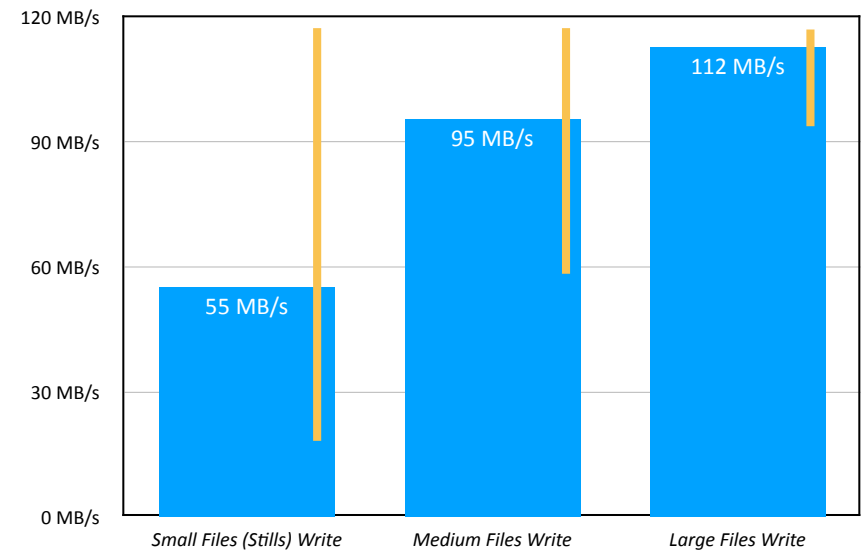
	Small Files (Stills)	Medium Files	Large Files
	Write	Write	Write
<i>Average</i>	54.7	95.1	112.4
<i>Maximum</i>	114.0	119.0	119.0
<i>Minimum</i>	21.0	59.0	92.0
<i>Standard Deviation</i>	31.6	26.0	8.4
<i>Test 1</i>	60	116	116
<i>Test 2</i>	21	79	114
<i>Test 3</i>	44	119	115
<i>Test 4</i>	46	118	113
<i>Test 5</i>	43	88	119
<i>Test 6</i>	114	59	92
		63	116
		119	114

Average Write Speed by File Size (10G Connection)



Orange bar indicates the amount of speed variation during the transfer.

Average Write Speed by File Size (1G Connection)

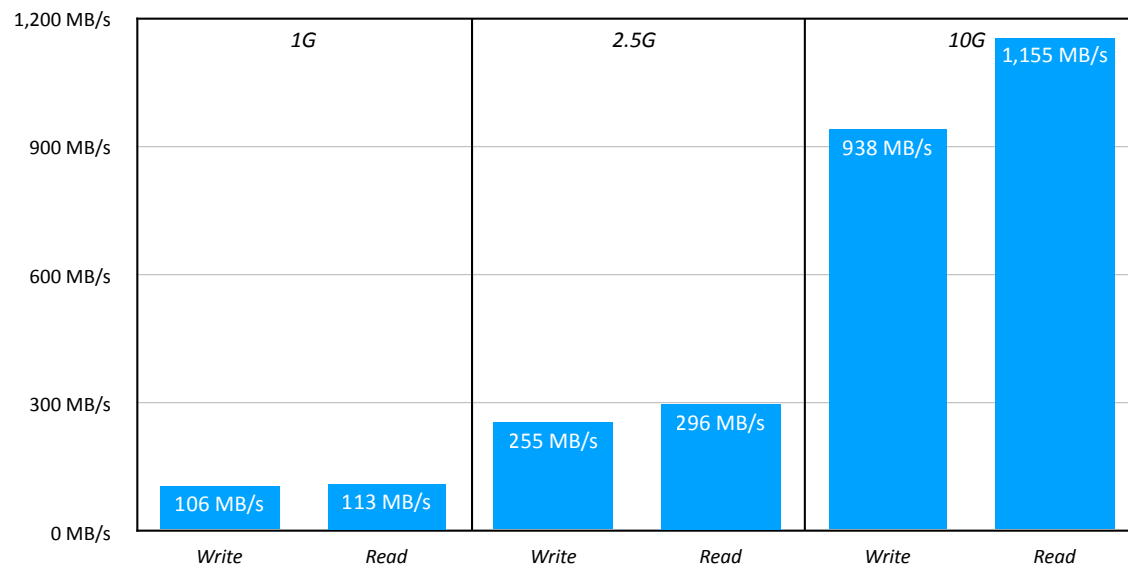


Orange bar indicates the amount of speed variation during the transfer.

Server Bandwidth by Connection Protocol

	1G		2.5G		10G	
	Write	Read	Write	Read	Write	Read
Average	106.3	112.5	255.0	295.7	938.0	1155.0
Maximum	109	113	256	296	945	1157
Minimum	104	112	254	295	925	1153
Standard Deviation	2.6	0.6	1.0	0.6	11.3	2.0
Test 1	104	113	255	296	944	1157
Test 2	104	113	254	296	945	1153
Test 3	108	112	256	295	925	1155
Test 4	109	112				

Optimum Server Bandwidth by Connection Protocol



Only one computer accessed the server at a time.
Speeds measured by AJA System Test.

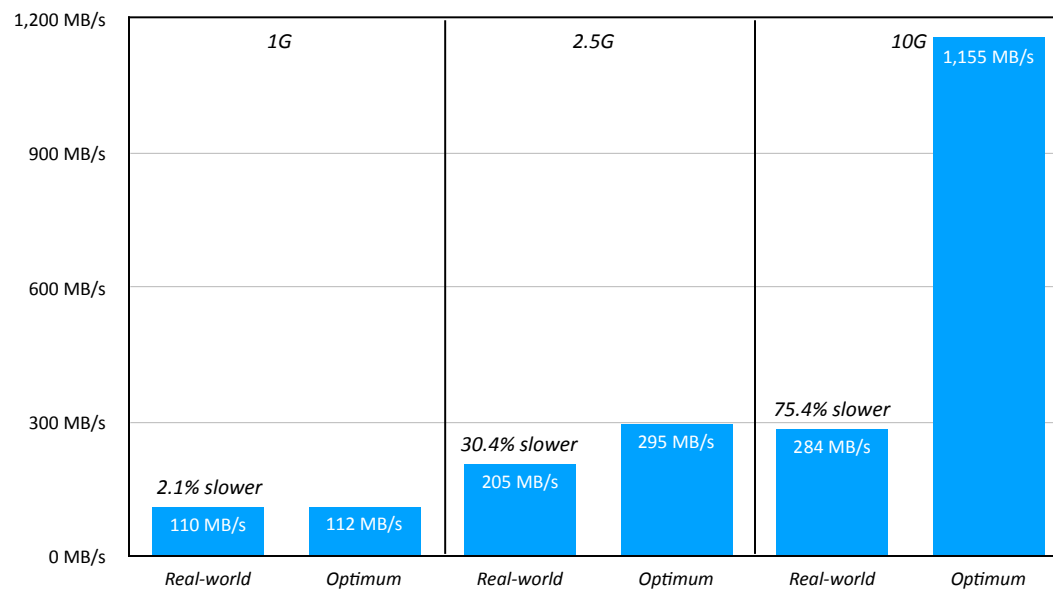
Server Download Speeds Using 3 Computers Running Large Files Constantly

	1G	2.5G	10G
	<i>Read</i>	<i>Read</i>	<i>Read</i>
Average	109.6	205.4	283.9
<i>Maximum</i>	122.6	281.2	498
<i>Minimum</i>	89.2	120.5	150.9
<i>Standard Deviation</i>	9.8	55.2	106.3
<i>Test 1</i>	118	218	318
<i>Test 2</i>	89.2	251.1	150.9
<i>Test 3</i>	109	215	160.5
<i>Test 4</i>	122.6	179.6	278.4
<i>Test 5</i>	101.3	140.5	236
<i>Test 6</i>	113	264.4	498
<i>Test 7</i>	114.6	178.7	285.3
<i>Test 8</i>	111.2	120.5	370.1
<i>Test 9</i>	107.2	281.2	258.0

Real-world vs. Optimal Download Speeds

1G			2.5G			10G		
<i>Real-world</i>	<i>Optimum</i>	<i>Difference</i>	<i>Real-world</i>	<i>Optimum</i>	<i>Difference</i>	<i>Real-world</i>	<i>Optimum</i>	<i>Difference</i>
109.6	112	-2.1%	205.4	295	-30.4%	283.9	1155	-75.4%

Real-World vs. Optimal Download Speeds



All three computers were downloading the same 98 4K videos (89 GB) at the same time.

Server Bandwidth When Missing One Drive

	1 G				2.5 G				10 G			
	All Drives		Missing One Drive		All Drives		Missing One Drive		All Drives		Missing One Drive	
	<i>Write</i>	<i>Read</i>	<i>Write</i>	<i>Read</i>	<i>Write</i>	<i>Read</i>	<i>Write</i>	<i>Read</i>	<i>Write</i>	<i>Read</i>	<i>Write</i>	<i>Read</i>
Average	108.3	112.0	108.7	112.0	255.0	295.7	254.7	294.3	938.0	1155.0	1004.0	1159.0
<i>Maximum</i>	109	112	109	112	256	296	255	296	945	1157	1037	1161
<i>Minimum</i>	108	112	108	112	254	295	254	293	925	1153	970	1157
<i>Standard Deviation</i>	0.6	0.0	0.6	0.0	1.0	0.6	0.6	1.5	11.3	2.0	33.5	2.0
<i>Test 1</i>	108	112	109	112	255	296	255	293	944	1157	1037	1157
<i>Test 2</i>	108	112	109	112	254	296	254	294	945	1153	970	1159
<i>Test 3</i>	109	112	108	112	256	295	255	296	925	1155	1005	1161