

Barracks	Total Video	Date System Went Online	1 Month Increase (May->June) in TB	# Cameras
Westminster	6.76 TB	11/30/2017	1.21	23
Rutland	3.32 TB	1/8/2018	1.19	22
Royalton	2.12 TB	1/17/2018	0.45	18
Williston	2.14 TB	2/13/2018	0.71	21
St. Johnsbury	1.73 TB	2/28/2018	0.63	23
Middlesex	1.38 TB	3/13/2018	0.48	16
St. Albans	.64 TB	3/26/2018	0.32	20
Derby	.52 TB	4/18/2018	0.42	14
Shaftsbury	.15 TB	5/23/2018	0.15	14
New Haven	.28 TB	5/29/2018	0.28	14
Totals			5.8	185

Data Calculations			
Monthly video - 217 cameras (TB)		6.85	
Monthly video - 217 cameras + 20% buffer		8.22	
Total video (yearly, TB)		98.6	
Critical video (yearly, TB)		19.7	
Non-critical video (yearly, TB)		78.9	
Archive Parameters			
critical %:		20%	
standard %:		80%	

Storage Cost Estimate

Yearly dashcam data (TB): 98.6
 Yearly body-worn data (TB): 200
 Application Cost/GB: \$4.65

Archive Cost/GB: \$2.90

Year	New Video (TB)				Archive (TB)				Totals	
	New	Critical	Non-Critical	Cost	Critical	Non-Critical	Total	Cost	Storage (TB)	Cost
1	298.6	59.73	238.91	\$ 1,422,015.34	0	0	0.00	\$0.00	298.64	\$ 1,422,015.34
2	298.6	59.73	238.91	\$ 1,422,015.34	59.73	238.91	298.64	\$886,848.28	597.28	\$ 2,308,863.62
3	298.6	59.73	238.91	\$ 1,422,015.34	119.46	477.83	597.28	\$1,773,696.56	895.93	\$ 3,195,711.90
4	298.6	59.73	238.91	\$ 1,422,015.34	179.19	716.74	895.93	\$2,660,544.84	1194.57	\$ 4,082,560.18
5	298.6	59.73	238.91	\$ 1,422,015.34	238.91	716.74	955.66	\$2,837,914.49	1254.30	\$ 4,259,929.83
6	298.6	59.73	238.91	\$ 1,422,015.34	298.64	716.74	1015.38	\$3,015,284.15	1314.03	\$ 4,437,299.49
7	298.6	59.73	238.91	\$ 1,422,015.34	358.37	716.74	1075.11	\$3,192,653.80	1373.75	\$ 4,614,669.15

Updated real-world storage consumption - July 2018

	Date online	Total Storage	July Storage Increase	
Westminster	11/30/2017	8.89	1	23
Rutland	1/8/2018	4.49	0.73	22
Royalton	1/17/2018	3.12	0.63	18
Williston	2/13/2018	4.11	0.95	21
St. Johnsbury	2/28/2018	2.99	0.71	23
Middlesex	3/13/2018	2.65	0.74	16
St. Albans	3/26/2018	1.22	0.33	20
Derby	4/18/2018	1.51	0.54	14
Shaftsbury	5/23/2018	1.12	0.5	14
New Haven	5/29/2018	0.82	0.44	14
			6.57	185
	Avg. TB/month (adjusted for 217 cameras)		7.71	
	Avg. w/ 10% buffer		8.48	
	Yearly (TB)		101.72	

Storage Cost Estimate - All Devices, Private Cloud

Yearly dashcam data (TB): 100.0
 Yearly body-worn data (TB): 200.0
 Annual Application Cost/GB: \$4.65

Annual Cost/GB (Archive): \$2.90

critical %: 20%
 standard %: 80%

Year	New Video (TB)				Archive (TB)				Totals	
	New	Critical	Non-Critical	Cost	Critical	Non-Critical	Total	Cost	Storage (TB)	Cost
1	300.0	60.00	240.00	\$ 1,428,480.00	0	0	0.00	\$0.00	300.00	\$ 1,428,480.00
2	300.0	60.00	240.00	\$ 1,428,480.00	60.00	240.00	300.00	\$890,880.00	600.00	\$ 2,319,360.00
3	300.0	60.00	240.00	\$ 1,428,480.00	120.00	480.00	600.00	\$1,781,760.00	900.00	\$ 3,210,240.00
4	300.0	60.00	240.00	\$ 1,428,480.00	180.00	720.00	900.00	\$2,672,640.00	1200.00	\$ 4,101,120.00
5	300.0	60.00	240.00	\$ 1,428,480.00	240.00	720.00	960.00	\$2,850,816.00	1260.00	\$ 4,279,296.00
6	300.0	60.00	240.00	\$ 1,428,480.00	300.00	720.00	1020.00	\$3,028,992.00	1320.00	\$ 4,457,472.00
7	300.0	60.00	240.00	\$ 1,428,480.00	360.00	720.00	1080.00	\$3,207,168.00	1380.00	\$ 4,635,648.00

Storage Cost Estimate - All Devices, Hybrid Cloud, Worst case local storage

Yearly dashcam data (TB): 100.0
 Yearly body-worn data (TB): 200.0
 Application Cost/GB: \$4.65

Annual Cost/GB (Archive): \$0.36

critical %: 20%
 standard %: 80%

Year	New Video (TB)				Archive (TB)				Totals	
	New	Critical	Non-Critical	Cost	Critical	Non-Critical	Total	Cost	Storage (TB)	Cost
1	300.0	60.00	240.00	\$ 1,428,480.00	0	0	0.00	\$0.00	300.00	\$ 1,428,480.00
2	300.0	60.00	240.00	\$ 1,428,480.00	60.00	240.00	300.00	\$110,592.00	600.00	\$ 1,539,072.00
3	300.0	60.00	240.00	\$ 1,428,480.00	120.00	480.00	600.00	\$221,184.00	900.00	\$ 1,649,664.00
4	300.0	60.00	240.00	\$ 1,428,480.00	180.00	720.00	900.00	\$331,776.00	1200.00	\$ 1,760,256.00
5	300.0	60.00	240.00	\$ 1,428,480.00	240.00	720.00	960.00	\$353,894.40	1260.00	\$ 1,782,374.40
6	300.0	60.00	240.00	\$ 1,428,480.00	300.00	720.00	1020.00	\$376,012.80	1320.00	\$ 1,804,492.80
7	300.0	60.00	240.00	\$ 1,428,480.00	360.00	720.00	1080.00	\$398,131.20	1380.00	\$ 1,826,611.20

Storage Cost Estimate - All Devices, Hybrid Cloud, Best case local storage

Yearly dashcam data (TB): 100.0
 Yearly body-worn data (TB): 200.0
 Application Cost/GB: \$3.18

Annual Cost/GB (Archive): \$0.36

critical %: 20%
 standard %: 80%

Year	New Video (TB)				Archive (TB)				Totals	
	New	Critical	Non-Critical	Cost	Critical	Non-Critical	Total	Cost	Storage (TB)	Cost
1	300.0	60.00	240.00	\$ 976,896.00	0	0	0.00	\$0.00	300.00	\$ 976,896.00
2	300.0	60.00	240.00	\$ 976,896.00	60.00	240.00	300.00	\$110,592.00	600.00	\$ 1,087,488.00
3	300.0	60.00	240.00	\$ 976,896.00	120.00	480.00	600.00	\$221,184.00	900.00	\$ 1,198,080.00
4	300.0	60.00	240.00	\$ 976,896.00	180.00	720.00	900.00	\$331,776.00	1200.00	\$ 1,308,672.00
5	300.0	60.00	240.00	\$ 976,896.00	240.00	720.00	960.00	\$353,894.40	1260.00	\$ 1,330,790.40
6	300.0	60.00	240.00	\$ 976,896.00	300.00	720.00	1020.00	\$376,012.80	1320.00	\$ 1,352,908.80
7	300.0	60.00	240.00	\$ 976,896.00	360.00	720.00	1080.00	\$398,131.20	1380.00	\$ 1,375,027.20