

**(4) Long Time Acquisition (MiCAM03: Option)**

This mode acquires data once. Acquired data is written directly to SSD and automatically saved, in parallel to data acquisition. Maximum continuous acquisition time is longer than (3) single trial acquisition.



Maximum continuous acquisition time depends on frame rate, number of pixels, number of connected camera, CPU usage etc. Table 2 shows approximate number of recordable frames and recordable time (Yellow-filled cells show MiCAM03 options).

Table 2: Approximate number of recordable frames and recordable time

Camera Head	Pixels	Acquisition Mode	Storage and Capacity	Frame Rate (fps)	MiCAM05		MiCAM03	
					Number of recordable frames	Recordable time (min)	Number of recordable frames	Recordable time (min)
N256 1 camera	256x256	Normal Mode	RAM 16GB	500	78,168	2.6	78,168	2.6
				1,000	78,168	1.3	78,168	1.3
				1,818	78,168	0.7	78,168	0.7
		Long Time Recording Mode	SSD 1TB	500	7,328,244	244.3	7,328,244	244.3
				1,000	7,328,244	122.1	7,328,244	122.1
				1,818	7,328,244	67.2	7,328,244	67.2
	128x128	Normal Mode	RAM 16GB	500	320,000	10.7	320,000	10.7
				1,000	320,000	5.3	320,000	5.3
				5,263	320,000	1.0	320,000	1.0
		Long Time Recording Mode	SSD 1TB	500	30,000,000	1,000	30,000,000	1,000
				1,000	30,000,000	500	30,000,000	500
				5,263	30,000,000	95	30,000,000	95
N256 2 camera	256x256	Normal Mode	RAM 16GB	500	39,084	1.3	39,084	1.3
				1,000	39,084	0.7	39,084	0.7
				1,087	39,084	0.6	25,000	0.4
		Long Time Recording Mode	SSD 1TB	500	3,664,122	122.1	3,664,122	122.1
				1,000	3,664,122	61.1	3,664,122	61.1
				1,087	194,922	3.0	51,000	0.8
	128x128	Normal Mode	RAM 16GB	500	157,538	5.3	157,538	5.3
				1,000	157,538	2.6	157,538	2.6
				3,704	157,538	0.7	157,538	0.7
		Long Time Recording Mode	SSD 1TB	500	14,769,231	492.3	14,769,231	492.3
				1,000	14,769,231	246.2	14,769,231	246.2
				3,704	14,769,231	64.0	14,769,231	64.0

Number of recordable frames and recordable time shown in Table 2 are averaged values obtained with the following equipment and there is no guarantee that the same results can be obtained in all PC environments.

Measurement Equipment

- PC : Dell Precision T1700
- CPU : Intel Xeon CPU E3-1226 v3 @ 3.3GHz 4 core
- RAM : 16GB (assumed that 10GB of 16GB is usable)
- OS : Windows 7 Professional 64bit
- SSD : Plextor PCI Express SSD 1TB (assumed that 900MB is usable)