



ACS-3 Preset Table

ACS-3 Series	2
Image Sensor	3
Recorder	5
ACS-3E	6
ACS-3	22
ACS-3 M16E	38
ACS-3 M16	58
Revision History	78
Contacts	80

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Please refer to the MEMRECAM ACS User's Manual for instructions on how to use the MEMRECAM ACS system.

This document contains the description of Ver. 2.14 of the ACS-3 firmware.

ACS-3 Series

■ ACS-3 Series

ACS-3 Series	Memory	Recording Time
ACS-3E	16GB, 32GB, 64GB	(▶▶▶ 10)
ACS-3	16GB, 32GB, 64GB	(▶▶▶ 26)
ACS-3 M16E	16GB, 32GB, 64GB	(▶▶▶ 43)
ACS-3 M16	16GB, 32GB, 64GB	(▶▶▶ 63)

Image Sensor

■ Imaging Element

Format	About 2.15 inch CMOS sensor (monochrome,color)
Pixel size	22μm square pixel
Valid Pixels	1280 × 896 pixels (1,140,000 pixels)
Maximum Area	28.16 × 19.712 mm
Optical Axis Center Accuracy	±0.5 mm

■ Sensitivity

Mono	Mono ISO 40,000	: ACS-3 /ACS-3E (QUALITY)
	Mono ISO 50,000	: ACS-3 /ACS-3E
	Mono ISO 100,000	: ACS-3 /ACS-3E /ACS-3 M16E /ACS-3 M16 (SENSITIVE)
Color	Color ISO 8,000	: ACS-3 /ACS-3E /ACS-3 M16E /ACS-3 M16 (QUALITY)
	Color ISO 20,000	: ACS-3 M16E /ACS-3 M16 (SENSITIVE)
(About 51,980lx Digital gain: MID, aperture: F4, Frame rate: 1000 frames/sec , Shutter: 16μs)		



- When the output signals for the subject have a reflectance of 89% become 100%, the illumination and aperture value for the subject are the aperture for the lens at that time.

■ Shutter

Shutter Format	Global electronic shutter
Method for Setting the Shutter Time	Select from presets / set custom
Presets	OPEN (50 frames, 60 frames is not possible, 1/100, 1/500, 1/1,000, 1/2,000, 1/5,000, 1/10,000, 1/20,000, 1/50,000, 1/100,000, 1/200,000, 1/333,333, 1/500,000
Custom Settings	0.6 to 10000 μ s (= 10ms = 1/100s) :ACS-3/ACS-3 M16 1.1 to 10000 μ s (= 10ms = 1/100s) :ACS-3E/ACS-3 M16E Exposure times longer than 1/frame rate cannot be set
Automatic Exposure	Setting: ON/OFF Function: Automatically adjusts the exposure time between 10 μ s and the shutter speed

Recorder

■ Recording Memory

Installed Memory	16GB / 32GB / 64GB	
Memory Segment Partitions	16GB model	17GBx1, 8.5GBx2, 4.2GBx4, 2.1GBx8 1.0GBx16, 535MBx32, 267MBx64
	32GB model	34GBx1, 17GBx2, 8.5GBx4, 4.2GBx8 2.1GBx16, 1.0GBx32, 536MBx64
	64GB model	68GBx1, 34GBx2, 17GBx4, 8.5GBx8 4.2GBx16, 2.1GBx32, 1.0GBx64

■ Pixel Bit Length

Image Sensor Output	12 bit	
Recording bits per pixel	Select from 8 / 10 / 12 bit	
	12 bit	Record image sensor output of 12 bit (high image quality)
	10 bit	Record image sensor output of high 10 bit
	8 bit	Record image sensor output of high 8 bit (long time)

ACS-3E

■ Frame Rates and Valid Pixels ACS-3E Normal mode (1/3)

Maximum Frame Rate (fps)	Valid Pixels		Valid Image Area (mm)		Horizontal-Vertical Ratio (Size)
	Horizontal	Vertical	Horizontal	Vertical	
14,000 or less	1280	896	28.16	19.712	Split
	1280	720	28.16	15.84	16:9
	1008	768	22.176	16.896	Split
	672	512	14.784	11.264	Split
	512	512	11.264	11.264	1:1
	640	480	14.08	10.56	VGA (4:3)
	336	256	7.392	5.632	Split
15,000	1280	800	28.16	17.6	Split
	1280	720	28.16	15.84	16:9
	1008	768	22.176	16.896	Split
	672	512	14.784	11.264	Split
	512	512	11.264	11.264	1:1
	640	480	14.08	10.56	VGA (4:3)
	336	256	7.392	5.632	Split
17,000	1280	720	28.16	15.84	Split
	1008	720	22.176	15.84	Split
	672	512	14.784	11.264	Split
	512	512	11.264	11.264	1:1
	640	480	14.08	10.56	VGA (4:3)
	336	256	7.392	5.632	Split



• 14,000 or less includes 10,000, 5,000, 2,000, 1,000, 500, 100, 60 and 50 fps.

Custom Frame Size : In units of 16 horizontal pixels and 16 vertical pixels



■ Frame Rates and Valid Pixels ACS-3E Normal mode (2/3)

Maximum Frame Rate (fps)	Valid Pixels		Valid Image Area (mm)		Horizontal-Vertical Ratio (Size)
	Horizontal	Vertical	Horizontal	Vertical	
20,000	1280	608	28.16	13.376	Split
	1280	576	28.16	12.672	Split
	1008	608	22.176	13.376	Split
	672	576	14.784	12.672	Split
	672	512	14.784	11.264	Split
	512	512	11.264	11.264	1:1
	640	480	14.08	10.56	VGA (4:3)
	336	256	7.392	5.632	Split
	1280	480	28.16	10.56	Split
25,000	1280	448	28.16	9.856	Split
	1008	480	22.176	10.56	Split
	672	480	14.784	10.56	Split
	672	448	14.784	9.856	Split
	640	480	14.08	10.56	VGA (4:3)
	336	256	7.392	5.632	Split
	1280	384	28.16	8.448	Split
30,000	1280	320	28.16	7.04	Split
	1008	384	22.176	8.448	Split
	672	384	14.784	8.448	Split
	672	320	14.784	7.04	Split
	336	256	7.392	5.632	Split
	1280	272	28.16	5.984	Split
40,000	1280	256	28.16	5.632	Split
	1008	272	22.176	5.984	Split
	672	272	14.784	5.984	Split
	336	256	7.392	5.632	Split
	1280	224	28.16	4.928	Split
50,000	1280	192	28.16	4.224	Split
	1008	224	22.176	4.928	Split
	672	224	14.784	4.928	Split
	336	224	7.392	4.928	Split
	336	192	7.392	4.224	Split

■ Frame Rates and Valid Pixels ACS-3E Normal mode (3/3)

Maximum Frame Rate (fps)	Valid Pixels		Valid Image Area (mm)		Horizontal-Vertical Ratio (Size)
	Horizontal	Vertical	Horizontal	Vertical	
65,000	1280	160	28.16	3.52	Split
	1008	160	22.176	3.52	Split
	672	160	14.784	3.52	Split
	336	160	7.392	3.52	Split
80,000	1280	128	28.16	2.816	Split
	1280	96	28.16	2.112	Split
	1008	128	22.176	2.816	Split
	672	128	14.784	2.816	Split
	336	128	7.392	2.816	Split
100,000	336	96	7.392	2.112	Split
	1280	80	28.16	1.76	Split
	1280	64	28.16	1.408	Split
	336	80	7.392	1.76	Split
150,000	336	64	7.392	1.408	Split
	1280	48	28.16	1.056	Split
180,000	336	48	7.392	1.056	Split
	1280	32	28.16	0.704	Split
220,000	336	32	7.392	0.704	Split
	1280	16	28.16	0.352	Split
	336	16	7.392	0.352	Split

Frame Rates and Valid Pixels ACS-3E Boost mode

Maximum Frame Rate (fps)	Valid Pixels		Valid Image Area (mm)		Horizontal-Vertical Ratio (Size)
	Horizontal	Vertical	Horizontal	Vertical	
25,000 or less	1280	896	28.16	19.712	Split
30,000	1280	800	28.16	17.6	Split
40,000	1280	576	28.16	12.672	Split
	672	576	14.784	12.672	Split
50,000	1280	448	28.16	9.856	Split
	672	448	14.784	9.856	Split
65,000	1280	320	28.16	7.04	Split
	672	320	14.784	7.04	Split
80,000	1280	256	28.16	5.632	Split
	336	256	7.392	5.632	Split
100,000	1280	192	28.16	4.224	Split
	336	192	7.392	4.224	Split
150,000	1280	96	28.16	2.112	Split
	336	96	7.392	2.112	Split
180,000	1280	64	28.16	1.408	Split
	336	64	7.392	1.408	Split
220,000	1280	32	28.16	0.704	Split
	336	32	7.392	0.704	Split



- Boost mode supports only Mono, not color.
- 25,000 or less includes 15,000, 17,000, and 20,000 fps.
- Boost mode is preset only.
- Custom frame rate and custom frame size functions cannot be used.

■ Recording Time

ACS-3E 16GB model Nomal mode (1/3)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
14,000 or less	1280	896	0.67	0.81	1.01
	1280	720	0.84	1.01	1.26
	1008	768	1.05	1.26	1.58
	672	512	2.37	2.84	3.56
	512	512	2.37	2.84	3.56
	640	480	2.53	3.03	3.79
	336	256	9.49	11.39	14.24
15,000	1280	800	0.70	0.85	1.06
	1280	720	0.78	0.94	1.18
	1008	768	0.98	1.18	1.47
	672	512	2.21	2.65	3.32
	512	512	2.21	2.65	3.32
	640	480	2.36	2.83	3.54
	336	256	8.86	10.63	13.29
17,000	1280	720	0.69	0.83	1.04
	1008	720	0.92	1.11	1.39
	672	512	1.95	2.34	2.93
	512	512	1.95	2.34	2.93
	640	480	2.08	2.50	3.12
	336	256	7.81	9.38	11.72
20,000	1280	608	0.69	0.83	1.04
	1280	576	0.73	0.88	1.10
	1008	608	0.93	1.11	1.39
	672	576	1.47	1.77	2.21
	672	512	1.66	1.99	2.49
	512	512	1.66	1.99	2.49
	640	480	1.77	2.12	2.65
	336	256	6.64	7.97	9.96

ACS-3E 16GB model Nomal mode (2/3)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
25,000	1280	480	0.70	0.85	1.06
	1280	448	0.75	0.91	1.13
	1008	480	0.94	1.13	1.41
	672	480	1.41	1.70	2.12
	672	448	1.51	1.82	2.27
	640	480	1.41	1.70	2.12
	336	256	5.31	6.38	7.97
30,000	1280	384	0.73	0.88	1.10
	1280	320	0.88	1.06	1.32
	1008	384	0.98	1.18	1.47
	672	384	1.47	1.77	2.21
	672	320	1.77	2.12	2.65
	336	256	4.43	5.31	6.64
40,000	1280	272	0.78	0.93	1.17
	1280	256	0.83	0.99	1.24
	1008	272	1.04	1.25	1.56
	672	272	1.56	1.87	2.34
	336	256	3.32	3.98	4.98
50,000	1280	224	0.75	0.91	1.13
	1280	192	0.88	1.06	1.32
	1008	224	1.01	1.21	1.51
	672	224	1.51	1.82	2.27
	336	224	3.03	3.64	4.55
	336	192	3.54	4.25	5.31
65,000	1280	160	0.81	0.98	1.22
	1008	160	1.09	1.30	1.63
	672	160	1.63	1.96	2.45
	336	160	3.27	3.92	4.90

ACS-3E 16GB model Nomal mode (3/3)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
80,000	1280	128	0.83	0.99	1.24
	1280	96	1.10	1.32	1.66
	1008	128	1.10	1.32	1.66
	672	128	1.66	1.99	2.49
	336	128	3.32	3.98	4.98
	336	96	4.43	5.31	6.64
100,000	1280	80	1.06	1.27	1.59
	1280	64	1.32	1.59	1.99
	336	80	4.25	5.10	6.38
	336	64	5.31	6.38	7.97
150,000	1280	48	1.18	1.41	1.77
	336	48	4.72	5.67	7.08
180,000	1280	32	1.47	1.77	2.21
	336	32	5.90	7.08	8.86
220,000	1280	16	2.41	2.90	3.62
	336	16	9.66	11.60	14.50

ACS-3E 16GB model Boost mode

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
20,000	1280	896	0.75	0.91	1.13
30,000	1280	800	0.70	0.85	1.06
40,000	1280	576	0.73	0.88	1.10
	672	576	1.47	1.77	2.21
50,000	1280	448	0.75	0.91	1.13
	672	448	1.51	1.82	2.27
65,000	1280	320	0.81	0.98	1.22
	672	320	1.63	1.96	2.45
80,000	1280	256	0.83	0.99	1.24
	336	256	3.32	3.98	4.98
100,000	1280	192	0.88	1.06	1.32
	336	192	3.54	4.25	5.31
150,000	1280	96	1.18	1.41	1.77
	336	96	4.72	5.67	7.08
180,000	1280	64	1.47	1.77	2.21
	336	64	5.90	7.08	8.86
220,000	1280	32	2.41	2.90	3.62
	336	32	9.67	11.60	14.50

ACS-3E 32GB model Nomal mode (1/3)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
14,000 or less	1280	896	1.35	1.62	2.03
	1280	720	1.68	2.02	2.53
	1008	768	2.11	2.53	3.16
	672	512	4.75	5.70	7.12
	512	512	4.75	5.70	7.12
	640	480	5.06	6.08	7.60
	336	256	19.00	22.80	28.50
15,000	1280	800	1.41	1.70	2.12
	1280	720	1.57	1.89	2.36
	1008	768	1.97	2.36	2.95
	672	512	4.43	5.32	6.65
	512	512	4.43	5.32	6.65
	640	480	4.73	5.67	7.09
	336	256	17.73	21.28	26.60
17,000	1280	720	1.39	1.66	2.08
	1008	720	1.85	2.22	2.78
	672	512	3.91	4.69	5.86
	512	512	3.91	4.69	5.86
	640	480	4.17	5.00	6.26
	336	256	15.65	18.78	23.47
20,000	1280	608	1.40	1.68	2.10
	1280	576	1.47	1.77	2.21
	1008	608	1.86	2.24	2.80
	672	576	2.95	3.54	4.43
	672	512	3.32	3.99	4.98
	512	512	3.32	3.99	4.98
	640	480	3.54	4.25	5.32
	336	256	13.30	15.96	19.95

ACS-3E 32GB model Nomal mode (2/3)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
25,000	1280	480	1.41	1.70	2.12
	1280	448	1.52	1.82	2.28
	1008	480	1.89	2.27	2.83
	672	480	2.83	3.40	4.25
	672	448	3.04	3.64	4.56
	640	480	2.83	3.40	4.25
	336	256	10.64	12.77	15.96
30,000	1280	384	1.47	1.77	2.21
	1280	320	1.77	2.12	2.66
	1008	384	1.97	2.36	2.95
	672	384	2.95	3.54	4.43
	672	320	3.54	4.25	5.32
	336	256	8.86	10.64	13.30
40,000	1280	272	1.56	1.87	2.34
	1280	256	1.66	1.99	2.49
	1008	272	2.08	2.50	3.13
	672	272	3.13	3.75	4.69
	336	256	6.65	7.98	9.97
50,000	1280	224	1.52	1.82	2.28
	1280	192	1.77	2.12	2.66
	1008	224	2.02	2.43	3.04
	672	224	3.04	3.64	4.56
	336	224	6.08	7.29	9.12
	336	192	7.09	8.51	10.64
65,000	1280	160	1.63	1.96	2.45
	1008	160	2.18	2.61	3.27
	672	160	3.27	3.92	4.91
	336	160	6.54	7.85	9.82

ACS-3E 32GB model Nomal mode (3/3)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
80,000	1280	128	1.66	1.99	2.49
	1280	96	2.21	2.66	3.32
	1008	128	2.21	2.66	3.32
	672	128	3.32	3.99	4.98
	336	128	6.65	7.98	9.97
	336	96	8.86	10.64	13.30
100,000	1280	80	2.12	2.55	3.19
	1280	64	2.66	3.19	3.99
	336	80	8.51	10.21	12.77
	336	64	10.64	12.77	15.96
150,000	1280	48	2.36	2.83	3.54
	336	48	9.46	11.35	14.19
180,000	1280	32	2.95	3.54	4.43
	336	32	11.82	14.19	17.73
220,000	1280	16	4.83	5.80	7.25
	336	16	19.35	23.22	29.02

ACS-3E 32GB model Boost mode

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
25,000	1280	896	1.52	1.82	2.28
30,000	1280	800	1.41	1.70	2.12
40,000	1280	576	1.47	1.77	2.21
	672	576	2.95	3.54	4.43
50,000	1280	448	1.52	1.82	2.28
	672	448	3.04	3.64	4.56
65,000	1280	320	1.63	1.96	2.45
	672	320	3.27	3.92	4.91
80,000	1280	256	1.66	1.99	2.49
	336	256	6.65	7.98	9.97
100,000	1280	192	1.77	2.12	2.66
	336	192	7.09	8.51	10.64
150,000	1280	96	2.36	2.83	3.54
	336	96	9.46	11.35	14.19
180,000	1280	64	2.95	3.54	4.43
	336	64	11.82	14.19	17.73
220,000	1280	32	4.83	5.80	7.25
	336	32	19.35	23.22	29.02

ACS-3E 64GB model Nomal mode (1/4)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
14,000 or less	1280	896	2.71	3.25	4.07
	1280	720	3.38	4.05	5.07
	1008	768	4.22	5.07	6.33
	672	512	9.50	11.40	14.26
	512	512	9.50	11.40	14.26
	640	480	10.14	12.16	15.21
	336	256	38.02	45.63	57.04
15,000	1280	800	2.83	3.40	4.25
	1280	720	3.15	3.78	4.73
	1008	768	3.94	4.73	5.91
	672	512	8.87	10.64	13.30
	512	512	8.87	10.64	13.30
	640	480	9.46	11.35	14.19
	336	256	35.49	42.59	53.23
17,000	1280	720	2.78	3.34	4.17
	1008	720	3.71	4.45	5.56
	672	512	7.82	9.39	11.74
	512	512	7.82	9.39	11.74
	640	480	8.35	10.02	12.52
	336	256	31.31	37.57	46.97
20,000	1280	608	2.80	3.36	4.20
	1280	576	2.95	3.54	4.43
	1008	608	3.73	4.48	5.60
	672	576	5.91	7.09	8.87
	672	512	6.65	7.98	9.98
	512	512	6.65	7.98	9.98
	640	480	7.09	8.51	10.64
	336	256	26.61	31.94	39.92

ACS-3E 64GB model Nomal mode (2/4)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
25,000	1280	480	2.83	3.40	4.25
	1280	448	3.04	3.65	4.56
	1008	480	3.78	4.54	5.67
	672	480	5.67	6.81	8.51
	672	448	6.08	7.30	9.12
	640	480	5.67	6.81	8.51
	336	256	21.29	25.55	31.94
30,000	1280	384	2.95	3.54	4.43
	1280	320	3.54	4.25	5.32
	1008	384	3.94	4.73	5.91
	672	384	5.91	7.09	8.87
	672	320	7.09	8.51	10.64
	336	256	17.74	21.29	26.61
40,000	1280	272	3.13	3.75	4.69
	1280	256	3.32	3.99	4.99
	1008	272	4.17	5.01	6.26
	672	272	6.26	7.51	9.39
	336	256	13.30	15.97	19.96
50,000	1280	224	3.04	3.65	4.56
	1280	192	3.54	4.25	5.32
	1008	224	4.05	4.86	6.08
	672	224	6.08	7.30	9.12
	336	224	12.16	14.60	18.25
	336	192	14.19	17.03	21.29
65,000	1280	160	3.27	3.93	4.91
	1008	160	4.36	5.24	6.55
	672	160	6.55	7.86	9.82
	336	160	13.10	15.72	19.65

ACS-3E 64GB model Nomal mode (3/4)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
80,000	1280	128	3.32	3.99	4.99
	1280	96	4.43	5.32	6.65
	1008	128	4.43	5.32	6.65
	672	128	6.65	7.98	9.98
	336	128	13.30	15.97	19.96
	336	96	17.74	21.29	26.61
100,000	1280	80	4.25	5.11	6.38
	1280	64	5.32	6.38	7.98
	336	80	17.03	20.44	25.55
	336	64	21.29	25.55	31.94
150,000	1280	48	4.73	5.67	7.09
	336	48	18.92	22.71	28.39
180,000	1280	32	5.91	7.09	8.87
	336	32	23.66	28.39	35.49
220,000	1280	16	9.67	11.61	14.51
	336	16	38.71	46.46	58.07

ACS-3E 64GB model Boost mode


Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
25,000	1280	896	3.04	3.65	4.56
30,000	1280	800	2.83	3.40	4.25
40,000	1280	576	2.95	3.54	4.43
	672	576	5.91	7.09	8.87
50,000	1280	448	3.04	3.65	4.56
	672	448	6.08	7.30	9.12
65,000	1280	320	3.27	3.93	4.91
	672	320	6.55	7.86	9.82
80,000	1280	256	3.32	3.99	4.99
	336	256	13.30	15.97	19.96
100,000	1280	192	3.54	4.25	5.32
	336	192	14.19	17.03	21.29
150,000	1280	96	4.73	5.67	7.09
	336	96	18.92	22.71	28.39
180,000	1280	64	5.91	7.09	8.87
	336	64	23.66	28.39	35.49
220,000	1280	32	9.67	11.61	14.51
	336	32	38.71	46.46	58.07

ACS-3

■ Frame Rates and Valid Pixels ACS-3 Normal mode (1/3)

Maximum Frame Rate (fps)	Valid Pixels		Valid Image Area (mm)		Horizontal-Vertical Ratio (Size)
	Horizontal	Vertical	Horizontal	Vertical	
14,000 or less	1280	896	28.16	19.712	Split
	1280	720	28.16	15.84	16:9
	1008	768	22.176	16.896	Split
	672	512	14.784	11.264	Split
	512	512	11.264	11.264	1:1
	640	480	14.08	10.56	VGA (4:3)
	336	256	7.392	5.632	Split
15,000	1280	800	28.16	17.6	Split
	1280	720	28.16	15.84	16:9
	1008	768	22.176	16.896	Split
	672	512	14.784	11.264	Split
	512	512	11.264	11.264	1:1
	640	480	14.08	10.56	VGA (4:3)
	336	256	7.392	5.632	Split
17,000	1280	720	28.16	15.84	Split
	1008	720	22.176	15.84	Split
	672	512	14.784	11.264	Split
	512	512	11.264	11.264	1:1
	640	480	14.08	10.56	VGA (4:3)
	336	256	7.392	5.632	Split

 • 14,000 or less includes 10,000, 5,000, 2,000, 1,000, 500, 100, 60 and 50 fps.

Custom Frame Size : In units of 16 horizontal pixels and 16 vertical pixels

■ Frame Rates and Valid Pixels ACS-3 Normal mode (2/3)

Maximum Frame Rate (fps)	Valid Pixels		Valid Image Area (mm)		Horizontal-Vertical Ratio (Size)
	Horizontal	Vertical	Horizontal	Vertical	
20,000	1280	608	28.16	13.376	Split
	1280	576	28.16	12.672	Split
	1008	608	22.176	13.376	Split
	672	576	14.784	12.672	Split
	672	512	14.784	11.264	Split
	512	512	11.264	11.264	1:1
	640	480	14.08	10.56	VGA (4:3)
	336	256	7.392	5.632	Split
25,000	1280	480	28.16	10.56	Split
	1280	448	28.16	9.856	Split
	1008	480	22.176	10.56	Split
	672	480	14.784	10.56	Split
	672	448	14.784	9.856	Split
	640	480	14.08	10.56	VGA (4:3)
	336	256	7.392	5.632	Split
30,000	1280	384	28.16	8.448	Split
	1280	320	28.16	7.04	Split
	1008	384	22.176	8.448	Split
	672	384	14.784	8.448	Split
	672	320	14.784	7.04	Split
	336	256	7.392	5.632	Split
40,000	1280	272	28.16	5.984	Split
	1280	256	28.16	5.632	Split
	1008	272	22.176	5.984	Split
	672	272	14.784	5.984	Split
	336	256	7.392	5.632	Split
50,000	1280	224	28.16	4.928	Split
	1280	192	28.16	4.224	Split
	1008	224	22.176	4.928	Split
	672	224	14.784	4.928	Split
	336	224	7.392	4.928	Split
	336	192	7.392	4.224	Split

■ Frame Rates and Valid Pixels ACS-3 Normal mode (3/3)

Maximum Frame Rate (fps)	Valid Pixels		Valid Image Area (mm)		Horizontal-Vertical Ratio (Size)
	Horizontal	Vertical	Horizontal	Vertical	
65,000	1280	160	28.16	3.52	Split
	1008	160	22.176	3.52	Split
	672	160	14.784	3.52	Split
	336	160	7.392	3.52	Split
80,000	1280	128	28.16	2.816	Split
	1280	96	28.16	2.112	Split
	1008	128	22.176	2.816	Split
	672	128	14.784	2.816	Split
	336	128	7.392	2.816	Split
	336	96	7.392	2.112	Split
100,000	1280	80	28.16	1.76	Split
	1280	64	28.16	1.408	Split
	336	80	7.392	1.76	Split
	336	64	7.392	1.408	Split
150,000	1280	48	28.16	1.056	Split
	336	48	7.392	1.056	Split
180,000	1280	32	28.16	0.704	Split
	336	32	7.392	0.704	Split
350,000	1280	16	28.16	0.352	Split
	336	16	7.392	0.352	Split

Frame Rates and Valid Pixels ACS-3 Boost mode

Maximum Frame Rate (fps)	Valid Pixels		Valid Image Area (mm)		Horizontal-Vertical Ratio (Size)
	Horizontal	Vertical	Horizontal	Vertical	
25,000 or less	1280	896	28.16	19.712	Split
30,000	1280	800	28.16	17.6	Split
40,000	1280	576	28.16	12.672	Split
	672	576	14.784	12.672	Split
50,000	1280	448	28.16	9.856	Split
	672	448	14.784	9.856	Split
65,000	1280	320	28.16	7.04	Split
	672	320	14.784	7.04	Split
80,000	1280	256	28.16	5.632	Split
	336	256	7.392	5.632	Split
100,000	1280	192	28.16	4.224	Split
	336	192	7.392	4.224	Split
150,000	1280	96	28.16	2.112	Split
	336	96	7.392	2.112	Split
180,000	1280	64	28.16	1.408	Split
	336	64	7.392	1.408	Split
350,000	1280	32	28.16	0.704	Split
	336	32	7.392	0.704	Split



- Boost mode supports only Mono, not color.
- 25,000 or less includes 15,000, 17,000, and 20,000 fps.
- Boost mode is preset only.
- Custom frame rate and custom frame size functions cannot be used.

■ Recording Time

ACS-3 16GB model Nomal mode (1/3)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
14,000 or less	1280	896	0.67	0.81	1.01
	1280	720	0.84	1.01	1.26
	1008	768	1.05	1.26	1.58
	672	512	2.37	2.84	3.56
	512	512	2.37	2.84	3.56
	640	480	2.53	3.03	3.79
	336	256	9.49	11.39	14.24
15,000	1280	800	0.70	0.85	1.06
	1280	720	0.78	0.94	1.18
	1008	768	0.98	1.18	1.47
	672	512	2.21	2.65	3.32
	512	512	2.21	2.65	3.32
	640	480	2.36	2.83	3.54
	336	256	8.86	10.63	13.29
17,000	1280	720	0.69	0.83	1.04
	1008	720	0.92	1.11	1.39
	672	512	1.95	2.34	2.93
	512	512	1.95	2.34	2.93
	640	480	2.08	2.50	3.12
	336	256	7.81	9.38	11.72
20,000	1280	608	0.69	0.83	1.04
	1280	576	0.73	0.88	1.10
	1008	608	0.93	1.11	1.39
	672	576	1.47	1.77	2.21
	672	512	1.66	1.99	2.49
	512	512	1.66	1.99	2.49
	640	480	1.77	2.12	2.65
	336	256	6.64	7.97	9.96

ACS-3 16GB model Nomal mode (2/3)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
25,000	1280	480	0.70	0.85	1.06
	1280	448	0.75	0.91	1.13
	1008	480	0.94	1.13	1.41
	672	480	1.41	1.70	2.12
	672	448	1.51	1.82	2.27
	640	480	1.41	1.70	2.12
	336	256	5.31	6.38	7.97
30,000	1280	384	0.73	0.88	1.10
	1280	320	0.88	1.06	1.32
	1008	384	0.98	1.18	1.47
	672	384	1.47	1.77	2.21
	672	320	1.77	2.12	2.65
	336	256	4.43	5.31	6.64
40,000	1280	272	0.78	0.93	1.17
	1280	256	0.83	0.99	1.24
	1008	272	1.04	1.25	1.56
	672	272	1.56	1.87	2.34
	336	256	3.32	3.98	4.98
50,000	1280	224	0.75	0.91	1.13
	1280	192	0.88	1.06	1.32
	1008	224	1.01	1.21	1.51
	672	224	1.51	1.82	2.27
	336	224	3.03	3.64	4.55
	336	192	3.54	4.25	5.31
65,000	1280	160	0.81	0.98	1.22
	1008	160	1.09	1.30	1.63
	672	160	1.63	1.96	2.45
	336	160	3.27	3.92	4.90

ACS-3 16GB model Nomal mode (3/3)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
80,000	1280	128	0.83	0.99	1.24
	1280	96	1.10	1.32	1.66
	1008	128	1.10	1.32	1.66
	672	128	1.66	1.99	2.49
	336	128	3.32	3.98	4.98
	336	96	4.43	5.31	6.64
100,000	1280	80	1.06	1.27	1.59
	1280	64	1.32	1.59	1.99
	336	80	4.25	5.10	6.38
	336	64	5.31	6.38	7.97
150,000	1280	48	1.18	1.41	1.77
	336	48	4.72	5.67	7.08
180,000	1280	32	1.47	1.77	2.21
	336	32	5.90	7.08	8.86
350,000	1280	16	1.51	1.82	2.27
	336	16	6.07	7.29	9.11

ACS-3 16GB model Boost mode

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
20,000	1280	896	0.75	0.91	1.13
30,000	1280	800	0.70	0.85	1.06
40,000	1280	576	0.73	0.88	1.10
	672	576	1.47	1.77	2.21
50,000	1280	448	0.75	0.91	1.13
	672	448	1.51	1.82	2.27
65,000	1280	320	0.81	0.98	1.22
	672	320	1.63	1.96	2.45
80,000	1280	256	0.83	0.99	1.24
	336	256	3.32	3.98	4.98
100,000	1280	192	0.88	1.06	1.32
	336	192	3.54	4.25	5.31
150,000	1280	96	1.18	1.41	1.77
	336	96	4.72	5.67	7.08
180,000	1280	64	1.47	1.77	2.21
	336	64	5.90	7.08	8.86
350,000	1280	32	1.51	1.82	2.27
	336	32	6.08	7.29	9.11

ACS-3 32GB model Nomal mode (1/3)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
14,000 or less	1280	896	1.35	1.62	2.03
	1280	720	1.68	2.02	2.53
	1008	768	2.11	2.53	3.16
	672	512	4.75	5.70	7.12
	512	512	4.75	5.70	7.12
	640	480	5.06	6.08	7.60
	336	256	19.00	22.80	28.50
15,000	1280	800	1.41	1.70	2.12
	1280	720	1.57	1.89	2.36
	1008	768	1.97	2.36	2.95
	672	512	4.43	5.32	6.65
	512	512	4.43	5.32	6.65
	640	480	4.73	5.67	7.09
	336	256	17.73	21.28	26.60
17,000	1280	720	1.39	1.66	2.08
	1008	720	1.85	2.22	2.78
	672	512	3.91	4.69	5.86
	512	512	3.91	4.69	5.86
	640	480	4.17	5.00	6.26
	336	256	15.65	18.78	23.47
20,000	1280	608	1.40	1.68	2.10
	1280	576	1.47	1.77	2.21
	1008	608	1.86	2.24	2.80
	672	576	2.95	3.54	4.43
	672	512	3.32	3.99	4.98
	512	512	3.32	3.99	4.98
	640	480	3.54	4.25	5.32
	336	256	13.30	15.96	19.95

ACS-3 32GB model Nomal mode (2/3)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
25,000	1280	480	1.41	1.70	2.12
	1280	448	1.52	1.82	2.28
	1008	480	1.89	2.27	2.83
	672	480	2.83	3.40	4.25
	672	448	3.04	3.64	4.56
	640	480	2.83	3.40	4.25
	336	256	10.64	12.77	15.96
30,000	1280	384	1.47	1.77	2.21
	1280	320	1.77	2.12	2.66
	1008	384	1.97	2.36	2.95
	672	384	2.95	3.54	4.43
	672	320	3.54	4.25	5.32
	336	256	8.86	10.64	13.30
40,000	1280	272	1.56	1.87	2.34
	1280	256	1.66	1.99	2.49
	1008	272	2.08	2.50	3.13
	672	272	3.13	3.75	4.69
	336	256	6.65	7.98	9.97
50,000	1280	224	1.52	1.82	2.28
	1280	192	1.77	2.12	2.66
	1008	224	2.02	2.43	3.04
	672	224	3.04	3.64	4.56
	336	224	6.08	7.29	9.12
	336	192	7.09	8.51	10.64
65,000	1280	160	1.63	1.96	2.45
	1008	160	2.18	2.61	3.27
	672	160	3.27	3.92	4.91
	336	160	6.54	7.85	9.82

ACS-3 32GB model Nomal mode (3/3)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
80,000	1280	128	1.66	1.99	2.49
	1280	96	2.21	2.66	3.32
	1008	128	2.21	2.66	3.32
	672	128	3.32	3.99	4.98
	336	128	6.65	7.98	9.97
	336	96	8.86	10.64	13.30
100,000	1280	80	2.12	2.55	3.19
	1280	64	2.66	3.19	3.99
	336	80	8.51	10.21	12.77
	336	64	10.64	12.77	15.96
150,000	1280	48	2.36	2.83	3.54
	336	48	9.46	11.35	14.19
180,000	1280	32	2.95	3.54	4.43
	336	32	11.82	14.19	17.73
350,000	1280	16	3.04	3.64	4.56
	336	16	12.16	14.59	18.24

ACS-3 32GB model Boost mode

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
25,000	1280	896	1.52	1.82	2.28
30,000	1280	800	1.41	1.70	2.12
40,000	1280	576	1.47	1.77	2.21
	672	576	2.95	3.54	4.43
50,000	1280	448	1.52	1.82	2.28
	672	448	3.04	3.64	4.56
65,000	1280	320	1.63	1.96	2.45
	672	320	3.27	3.92	4.91
80,000	1280	256	1.66	1.99	2.49
	336	256	6.65	7.98	9.97
100,000	1280	192	1.77	2.12	2.66
	336	192	7.09	8.51	10.64
150,000	1280	96	2.36	2.83	3.54
	336	96	9.46	11.35	14.19
180,000	1280	64	2.95	3.54	4.43
	336	64	11.82	14.19	17.73
350,000	1280	32	3.04	3.64	4.56
	336	32	12.16	14.59	18.24

ACS-3 64GB model Nomal mode (1/3)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
14,000 or less	1280	896	2.71	3.25	4.07
	1280	720	3.38	4.05	5.07
	1008	768	4.22	5.07	6.33
	672	512	9.50	11.40	14.26
	512	512	9.50	11.40	14.26
	640	480	10.14	12.16	15.21
	336	256	38.02	45.63	57.04
15,000	1280	800	2.83	3.40	4.25
	1280	720	3.15	3.78	4.73
	1008	768	3.94	4.73	5.91
	672	512	8.87	10.64	13.30
	512	512	8.87	10.64	13.30
	640	480	9.46	11.35	14.19
	336	256	35.49	42.59	53.23
17,000	1280	720	2.78	3.34	4.17
	1008	720	3.71	4.45	5.56
	672	512	7.82	9.39	11.74
	512	512	7.82	9.39	11.74
	640	480	8.35	10.02	12.52
	336	256	31.31	37.57	46.97
20,000	1280	608	2.80	3.36	4.20
	1280	576	2.95	3.54	4.43
	1008	608	3.73	4.48	5.60
	672	576	5.91	7.09	8.87
	672	512	6.65	7.98	9.98
	512	512	6.65	7.98	9.98
	640	480	7.09	8.51	10.64
	336	256	26.61	31.94	39.92

ACS-3 64GB model Nomal mode (2/3)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
25,000	1280	480	2.83	3.40	4.25
	1280	448	3.04	3.65	4.56
	1008	480	3.78	4.54	5.67
	672	480	5.67	6.81	8.51
	672	448	6.08	7.30	9.12
	640	480	5.67	6.81	8.51
	336	256	21.29	25.55	31.94
30,000	1280	384	2.95	3.54	4.43
	1280	320	3.54	4.25	5.32
	1008	384	3.94	4.73	5.91
	672	384	5.91	7.09	8.87
	672	320	7.09	8.51	10.64
	336	256	17.74	21.29	26.61
40,000	1280	272	3.13	3.75	4.69
	1280	256	3.32	3.99	4.99
	1008	272	4.17	5.01	6.26
	672	272	6.26	7.51	9.39
	336	256	13.30	15.97	19.96
50,000	1280	224	3.04	3.65	4.56
	1280	192	3.54	4.25	5.32
	1008	224	4.05	4.86	6.08
	672	224	6.08	7.30	9.12
	336	224	12.16	14.60	18.25
	336	192	14.19	17.03	21.29
65,000	1280	160	3.27	3.93	4.91
	1008	160	4.36	5.24	6.55
	672	160	6.55	7.86	9.82
	336	160	13.10	15.72	19.65

ACS-3 64GB model Nomal mode (3/3)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
80,000	1280	128	3.32	3.99	4.99
	1280	96	4.43	5.32	6.65
	1008	128	4.43	5.32	6.65
	672	128	6.65	7.98	9.98
	336	128	13.30	15.97	19.96
	336	96	17.74	21.29	26.61
100,000	1280	80	4.25	5.11	6.38
	1280	64	5.32	6.38	7.98
	336	80	17.03	20.44	25.55
	336	64	21.29	25.55	31.94
150,000	1280	48	4.73	5.67	7.09
	336	48	18.92	22.71	28.39
180,000	1280	32	5.91	7.09	8.87
	336	32	23.66	28.39	35.49
350,000	1280	16	6.08	7.30	9.12
	336	16	24.33	29.20	36.50

ACS-3 64GB model Boost mode

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
25,000	1280	896	3.04	3.65	4.56
30,000	1280	800	2.83	3.40	4.25
40,000	1280	576	2.95	3.54	4.43
	672	576	5.91	7.09	8.87
50,000	1280	448	3.04	3.65	4.56
	672	448	6.08	7.30	9.12
65,000	1280	320	3.27	3.93	4.91
	672	320	6.55	7.86	9.82
80,000	1280	256	3.32	3.99	4.99
	336	256	13.30	15.97	19.96
100,000	1280	192	3.54	4.25	5.32
	336	192	14.19	17.03	21.29
150,000	1280	96	4.73	5.67	7.09
	336	96	18.92	22.71	28.39
180,000	1280	64	5.91	7.09	8.87
	336	64	23.66	28.39	35.49
350,000	1280	32	6.08	7.30	9.12
	336	32	24.33	29.20	36.50

ACS-3 M16E

■ Frame Rates and Valid Pixels ACS-3 M16E Normal mode (1/3)

Maximum Frame Rate (fps)	Valid Pixels		Valid Image Area (mm)		Horizontal-Vertical Ratio (Size)
	Horizontal	Vertical	Horizontal	Vertical	
14,000 or less	1280	896	28.16	19.712	Split
	1280	720	28.16	15.84	16:9
	1008	768	22.176	16.896	Split
	672	512	14.784	11.264	Split
	640	480	14.08	10.56	VGA (4:3)
	512	512	11.264	11.264	1:1
	336	256	7.392	5.632	Split
16,000	1280	800	28.16	17.6	Split
	1280	720	28.16	15.84	16:9
	1008	768	22.176	16.896	Split
	672	512	14.784	11.264	Split
	640	480	14.08	10.56	VGA (4:3)
	512	512	11.264	11.264	1:1
	336	256	7.392	5.632	Split
17,000	1280	720	28.16	15.84	Split
	1280	640	28.16	14.08	Split
	1008	720	22.176	15.84	Split
	672	640	14.784	14.08	Split
	672	512	14.784	11.264	Split
	640	480	14.08	10.56	VGA (4:3)
	512	512	11.264	11.264	1:1
	336	256	7.392	5.632	Split



• 14,000 or less includes 10,000, 5,000, 2,000, 1,000, 500, 100, 60 and 50 fps.

Custom Frame Size : In units of 16 horizontal pixels and 16 vertical pixels



■ Frame Rates and Valid Pixels ACS-3 M16E Normal mode (2/3)

Maximum Frame Rate (fps)	Valid Pixels		Valid Image Area (mm)		Horizontal-Vertical Ratio (Size)
	Horizontal	Vertical	Horizontal	Vertical	
20,000	1280	624	28.16	13.728	Split
	1280	576	28.16	12.672	Split
	1280	512	28.16	11.264	Split
	1008	624	22.176	13.728	Split
	672	576	14.784	12.672	Split
	672	512	14.784	11.264	Split
	640	480	14.08	10.56	VGA (4:3)
	512	512	11.264	11.264	1:1
	336	256	7.392	5.632	Split
25,000	1280	496	28.16	10.912	Split
	1280	448	28.16	9.856	Split
	1008	496	22.176	10.912	Split
	672	496	14.784	10.912	Split
	672	448	14.784	9.856	Split
	640	480	14.08	10.56	VGA (4:3)
	336	256	7.392	5.632	Split
30,000	1280	400	28.16	8.8	Split
	1280	320	28.16	7.04	Split
	1280	384	28.16	8.448	Split
	1008	400	22.176	8.8	Split
	672	400	14.784	8.8	Split
	672	384	14.784	8.448	Split
	672	320	14.784	7.04	Split
	336	256	7.392	5.632	Split
40,000	1280	288	28.16	6.336	Split
	1280	256	28.16	5.632	Split
	1008	288	22.176	6.336	Split
	672	288	14.784	6.336	Split
	336	288	7.392	6.336	Split
	336	256	7.392	5.632	Split
50,000	1280	224	28.16	4.928	Split
	1280	192	28.16	4.224	Split
	1008	224	22.176	4.928	Split
	672	224	14.784	4.928	Split
	336	224	7.392	4.928	Split
	336	192	7.392	4.224	Split

■ Frame Rates and Valid Pixels ACS-3 M16E Normal mode (3/3)


Maximum Frame Rate (fps)	Valid Pixels		Valid Image Area (mm)		Horizontal-Vertical Ratio (Size)
	Horizontal	Vertical	Horizontal	Vertical	
65,000	1280	160	28.16	3.52	Split
	1008	160	22.176	3.52	Split
	672	160	14.784	3.52	Split
	336	160	7.392	3.52	Split
75,000	1280	144	28.16	3.168	Split
	1280	128	28.16	2.816	Split
	1008	144	22.176	3.168	Split
	672	144	14.784	3.168	Split
	336	144	7.392	3.168	Split
	336	128	7.392	2.816	Split
100,000	1280	96	28.16	2.112	Split
	336	96	7.392	2.112	Split
120,000	1280	80	28.16	1.76	Split
	1280	64	28.16	1.408	Split
	336	80	7.392	1.76	Split
	336	64	7.392	1.408	Split
150,000	1280	48	28.16	1.056	Split
	336	48	7.392	1.056	Split
200,000	1280	32	28.16	0.704	Split
	336	32	7.392	0.704	Split
220,000	1280	16	28.16	0.352	Split
	336	16	7.392	0.352	Split



■ Frame Rates and Valid Pixels ACS-3 M16E Boost mode

Maximum Frame Rate (fps)	Valid Pixels		Valid Image Area (mm)		Horizontal-Vertical Ratio (Size)
	Horizontal	Vertical	Horizontal	Vertical	
25,000 or less	1280	896	28.16	19.712	Split
30,000	1280	800	28.16	17.6	Split
40,000	1280	576	28.16	12.672	Split
	672	576	14.784	12.672	Split
50,000	1280	448	28.16	9.856	Split
	672	448	14.784	9.856	Split
65,000	1280	320	28.16	7.04	Split
	672	320	14.784	7.04	Split
75,000	1280	288	28.16	6.336	Split
	336	288	7.392	6.336	Split
100,000	1280	192	28.16	4.224	Split
	336	192	7.392	4.224	Split
120,000	1280	160	28.16	3.52	Split
	336	160	7.392	3.52	Split
150,000	1280	96	28.16	2.112	Split
	336	96	7.392	2.112	Split
200,000	1280	64	28.16	1.408	Split
	336	64	7.392	1.408	Split
220,000	1280	32	28.16	0.704	Split
	336	32	7.392	0.704	Split

 Attention • Boost mode supports only Mono, not color.

-  CHECK
- 25,000 or less includes 15,000, 17,000, and 20,000 fps.
 - Boost mode is preset only.
 - Custom frame rate and custom frame size functions cannot be used.

■ Frame Rates and Valid Pixels ACS-3 M16E Boost 4 mode

Maximum Frame Rate (fps)	Valid Pixels		Valid Image Area (mm)		Horizontal-Vertical Ratio (Size)
	Horizontal	Vertical	Horizontal	Vertical	
30000	1280	896	28.16	19.712	Split
40000	1280	896	28.16	19.712	Split
50000	1280	896	28.16	19.118	Split
65000	1280	640	28.16	14.08	Split
	672	640	14.784	14.08	Split
75000	1280	512	28.16	11.264	Split
	672	512	14.784	11.264	Split
100000	1280	384	28.16	8.448	Split
	672	384	14.784	8.448	Split
120000	1280	256	28.16	5.632	Split
	336	256	7.392	5.632	Split
150000	1280	192	28.16	4.224	Split
	336	192	7.392	4.224	Split
200000	1280	128	28.16	2.816	Split
	336	128	7.392	2.816	Split
220000	1280	64	28.16	1.408	Split
	336	64	7.392	1.408	Split



- Boost 4 mode supports only Mono, not color.
- Please contact us or our distributors for models compatible with Boost 4 mode.



- Boost 4 mode is preset only.
- Custom frame rate and custom frame size functions cannot be used.

■ Recording Time

ACS-3 M16E 16GB model Nomal mode (1/3)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
14,000 or less	1280	896	0.67	0.81	1.01
	1280	720	0.84	1.01	1.26
	1008	768	1.05	1.26	1.58
	672	512	2.37	2.84	3.56
	640	480	2.53	3.03	3.79
	512	512	2.37	2.84	3.56
	336	256	9.49	11.39	14.24
16,000	1280	800	0.66	0.79	0.99
	1280	720	0.73	0.88	1.10
	1008	768	0.92	1.10	1.38
	672	512	2.07	2.49	3.11
	640	480	2.21	2.65	3.32
	512	512	2.07	2.49	3.11
	336	256	8.30	9.96	12.46
17,000	1280	720	0.69	0.83	1.04
	1280	640	0.78	0.93	1.17
	1008	720	0.92	1.11	1.39
	672	640	1.56	1.87	2.34
	672	512	1.95	2.34	2.93
	640	480	2.08	2.50	3.12
	512	512	1.95	2.34	2.93
	336	256	7.81	9.38	11.72

ACS-3 M16E 16GB model Nomal mode (2/3)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
20,000	1280	624	0.68	0.81	1.02
	1280	576	0.73	0.88	1.10
	1280	512	0.83	0.99	1.24
	1008	624	0.90	1.09	1.36
	672	576	1.47	1.77	2.21
	672	512	1.66	1.99	2.49
	640	480	1.77	2.12	2.65
	512	512	1.66	1.99	2.49
	336	256	6.64	7.97	9.96
25,000	1280	496	0.68	0.82	1.02
	1280	448	0.75	0.91	1.13
	1008	496	0.91	1.09	1.37
	672	496	1.37	1.64	2.05
	672	448	1.51	1.82	2.27
	640	480	1.41	1.70	2.12
	336	256	5.31	6.38	7.97
30,000	1280	400	0.70	0.85	1.06
	1280	384	0.73	0.88	1.10
	1280	320	0.88	1.06	1.32
	1008	400	0.94	1.13	1.41
	672	400	1.41	1.70	2.12
	672	384	1.47	1.77	2.21
	672	320	1.77	2.12	2.65
	336	256	4.43	5.31	6.64
40,000	1280	288	0.73	0.88	1.10
	1280	256	0.83	0.99	1.24
	1008	288	0.98	1.18	1.47
	672	288	1.47	1.77	2.21
	336	288	2.95	3.54	4.43
	336	256	3.32	3.98	4.98

ACS-3 M16E 16GB model Nomal mode (3/3)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
50,000	1280	224	0.75	0.91	1.13
	1280	192	0.88	1.06	1.32
	1008	224	1.01	1.21	1.51
	672	224	1.51	1.82	2.27
	336	224	3.03	3.64	4.55
	336	192	3.54	4.25	5.31
65,000	1280	160	0.81	0.98	1.22
	1008	160	1.09	1.30	1.63
	672	160	1.63	1.96	2.45
	336	160	3.27	3.92	4.90
75,000	1280	144	0.73	0.88	1.10
	1280	128	0.83	0.99	1.24
	1008	144	0.98	1.18	1.47
	672	144	1.47	1.77	2.21
	336	144	2.95	3.54	4.43
	336	128	3.32	3.98	4.98
100,000	1280	96	0.88	1.06	1.32
	336	96	3.54	4.25	5.31
120,000	1280	80	0.88	1.06	1.32
	1280	64	1.10	1.32	1.66
	336	80	3.54	4.25	5.31
	336	64	4.43	5.31	6.64
150,000	1280	48	1.18	1.41	1.77
	336	48	4.72	5.67	7.08
200,000	1280	32	1.32	1.59	1.99
	336	32	5.31	6.38	7.97
220,000	1280	16	2.41	2.90	3.62
	336	16	9.66	11.60	14.50

ACS-3 M16E 16GB model Boost mode

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
16,000	1280	896	1.18	1.42	1.78
17,000	1280	896	1.11	1.34	1.67
20,000	1280	896	0.94	1.13	1.42
25,000	1280	896	0.75	0.91	1.13
30,000	1280	800	0.70	0.85	1.06
40,000	1280	576	0.73	0.88	1.10
	672	576	1.47	1.77	2.21
50,000	1280	448	0.75	0.91	1.13
	672	448	1.51	1.82	2.27
65,000	1280	320	0.81	0.98	1.22
	672	320	1.63	1.96	2.45
75,000	1280	288	0.78	0.94	1.18
	336	288	3.15	3.78	4.72
100,000	1280	192	0.88	1.06	1.32
	336	192	3.54	4.25	5.31
120,000	1280	160	0.88	1.06	1.32
	336	160	3.54	4.25	5.31
150,000	1280	96	1.18	1.41	1.77
	336	96	4.72	5.67	7.08
200,000	1280	64	1.32	1.59	1.99
	336	64	5.31	6.38	7.97
220,000	1280	32	2.41	2.90	3.62
	336	32	9.67	11.60	14.50

ACS-3 M16E 16GB model Boost 4 mode

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
30,000	1280	896	1.26	1.51	1.89
40,000	1280	896	0.94	1.13	1.42
50,000	1280	896	0.75	0.91	1.13
65,000	1280	640	0.81	0.98	1.22
	672	640	1.63	1.96	2.45
75,000	1280	512	0.88	1.06	1.32
	672	512	1.77	2.12	2.65
100,000	1280	384	0.88	1.06	1.32
	672	384	1.77	2.12	2.65
120,000	1280	256	1.10	1.32	1.66
	336	256	4.43	5.31	6.64
150,000	1280	192	1.18	1.41	1.77
	336	192	4.72	5.67	7.08
200,000	1280	128	1.32	1.59	1.99
	336	128	5.31	6.38	7.97
220,000	1280	64	2.41	2.90	3.62
	336	64	9.67	11.60	14.50

ACS-3 M16E 32GB model Nomal mode (1/3)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
14,000 or less	1280	896	1.35	1.62	2.03
	1280	720	1.68	2.02	2.53
	1008	768	2.11	2.53	3.16
	672	512	4.75	5.70	7.12
	640	480	5.06	6.08	7.60
	512	512	4.75	5.70	7.12
	336	256	19.00	22.80	28.50
16,000	1280	800	1.33	1.59	1.99
	1280	720	1.47	1.77	2.21
	1008	768	1.84	2.21	2.77
	672	512	4.15	4.98	6.23
	640	480	4.43	5.32	6.65
	512	512	4.15	4.98	6.23
	336	256	16.62	19.95	24.94
17,000	1280	720	1.39	1.66	2.08
	1280	640	1.56	1.87	2.34
	1008	720	1.85	2.22	2.78
	672	640	3.13	3.75	4.69
	672	512	3.91	4.69	5.86
	640	480	4.17	5.00	6.26
	512	512	3.91	4.69	5.86
	336	256	15.65	18.78	23.47
20,000	1280	624	1.36	1.63	2.04
	1280	576	1.47	1.77	2.21
	1280	512	1.66	1.99	2.49
	1008	624	1.81	2.18	2.72
	672	576	2.95	3.54	4.43
	672	512	3.32	3.99	4.98
	640	480	3.54	4.25	5.32
	512	512	3.32	3.99	4.98
	336	256	13.30	15.96	19.95

ACS-3 M16E 32GB model Nomal mode (2/3)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
25,000	1280	496	1.37	1.64	2.05
	1280	448	1.52	1.82	2.28
	1008	496	1.83	2.19	2.74
	672	496	2.74	3.29	4.11
	672	448	3.04	3.64	4.56
	640	480	2.83	3.40	4.25
	336	256	10.64	12.77	15.96
30,000	1280	400	1.41	1.70	2.12
	1280	384	1.47	1.77	2.21
	1280	320	1.77	2.12	2.66
	1008	400	1.89	2.27	2.83
	672	400	2.83	3.40	4.25
	672	384	2.95	3.54	4.43
	672	320	3.54	4.25	5.32
40,000	336	256	8.86	10.64	13.30
	1280	288	1.47	1.77	2.21
	1280	256	1.66	1.99	2.49
	1008	288	1.97	2.36	2.95
	672	288	2.95	3.54	4.43
	336	288	5.91	7.09	8.86
	336	256	6.65	7.98	9.97
50,000	1280	224	1.52	1.82	2.28
	1280	192	1.77	2.12	2.66
	1008	224	2.02	2.43	3.04
	672	224	3.04	3.64	4.56
	336	224	6.08	7.29	9.12
	336	192	7.09	8.51	10.64

ACS-3 M16E 32GB model Nomal mode (3/3)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
65,000	1280	160	1.63	1.96	2.45
	1008	160	2.18	2.61	3.27
	672	160	3.27	3.92	4.91
	336	160	6.54	7.85	9.82
75,000	1280	144	1.47	1.77	2.21
	1280	128	1.66	1.99	2.49
	1008	144	1.97	2.36	2.95
	672	144	2.95	3.54	4.43
	336	144	5.91	7.09	8.86
	336	128	6.65	7.98	9.97
100,000	1280	96	1.77	2.12	2.66
	336	96	7.09	8.51	10.64
120,000	1280	80	1.77	2.12	2.66
	1280	64	2.21	2.66	3.32
	336	80	7.09	8.51	10.64
	336	64	8.86	10.64	13.30
150,000	1280	48	2.36	2.83	3.54
	336	48	9.46	11.35	14.19
200,000	1280	32	2.66	3.19	3.99
	336	32	10.64	12.77	15.96
220,000	1280	16	4.83	5.80	7.25
	336	16	19.35	23.22	29.02

ACS-3 M16E 32GB model Boost mode

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
16,000	1280	896	2.37	2.85	3.56
17,000	1280	896	2.23	2.68	3.35
20,000	1280	896	1.90	2.28	2.85
25,000	1280	896	1.52	1.82	2.28
30,000	1280	800	1.41	1.70	2.12
40,000	1280	576	1.47	1.77	2.21
	672	576	2.95	3.54	4.43
50,000	1280	448	1.52	1.82	2.28
	672	448	3.04	3.64	4.56
65,000	1280	320	1.63	1.96	2.45
	672	320	3.27	3.92	4.91
75,000	1280	288	1.57	1.89	2.36
	336	288	6.30	7.56	9.46
100,000	1280	192	1.77	2.12	2.66
	336	192	7.09	8.51	10.64
120,000	1280	160	1.77	2.12	2.66
	336	160	7.09	8.51	10.64
150,000	1280	96	2.36	2.83	3.54
	336	96	9.46	11.35	14.19
200,000	1280	64	2.66	3.19	3.99
	336	64	10.64	12.77	15.96
220,000	1280	32	4.83	5.80	7.25
	336	32	19.35	23.22	29.02

ACS-3 M16E 32GB model Boost 4 mode

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
30,000	1280	896	2.53	3.04	3.80
40,000	1280	896	1.90	2.28	2.85
50,000	1280	896	1.52	1.82	2.28
65,000	1280	640	1.63	1.96	2.45
	672	640	3.27	3.92	4.91
75,000	1280	512	1.77	2.12	2.66
	672	512	3.54	4.25	5.32
100,000	1280	384	1.77	2.12	2.66
	672	384	3.54	4.25	5.32
120,000	1280	256	2.21	2.66	3.32
	336	256	8.86	10.64	13.30
150,000	1280	192	2.36	2.83	3.54
	336	192	9.46	11.35	14.19
200,000	1280	128	2.66	3.19	3.99
	336	128	10.64	12.77	15.96
220,000	1280	64	4.83	5.80	7.25
	336	64	19.35	23.22	29.02



ACS-3 M16E 64GB model Nomal mode (1/3)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
14,000 or less	1280	896	2.71	3.25	4.07
	1280	720	3.38	4.05	5.07
	1008	768	4.22	5.07	6.33
	672	512	9.50	11.40	14.26
	640	480	10.14	12.16	15.21
	512	512	9.50	11.40	14.26
	336	256	38.02	45.63	57.04
16,000	1280	800	2.66	3.19	3.99
	1280	720	2.95	3.54	4.43
	1008	768	3.69	4.43	5.54
	672	512	8.31	9.98	12.47
	640	480	8.87	10.64	13.30
	512	512	8.31	9.98	12.47
	336	256	33.27	39.92	49.91
17,000	1280	720	2.78	3.34	4.17
	1280	640	3.13	3.75	4.69
	1008	720	3.71	4.45	5.56
	672	640	6.26	7.51	9.39
	672	512	7.82	9.39	11.74
	640	480	8.35	10.02	12.52
	512	512	7.82	9.39	11.74
	336	256	31.31	37.57	46.97

ACS-3 M16E 64GB model Nomal mode (2/3)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
20,000	1280	624	2.73	3.27	4.09
	1280	576	2.95	3.54	4.43
	1280	512	3.32	3.99	4.99
	1008	624	3.64	4.36	5.46
	672	576	5.91	7.09	8.87
	672	512	6.65	7.98	9.98
	640	480	7.09	8.51	10.64
	512	512	6.65	7.98	9.98
	336	256	26.61	31.94	39.92
25,000	1280	496	2.74	3.29	4.12
	1280	448	3.04	3.65	4.56
	1008	496	3.66	4.39	5.49
	672	496	5.49	6.59	8.24
	672	448	6.08	7.30	9.12
	640	480	5.67	6.81	8.51
	336	256	21.29	25.55	31.94
30,000	1280	400	2.83	3.40	4.25
	1280	384	2.95	3.54	4.43
	1280	320	3.54	4.25	5.32
	1008	400	3.78	4.54	5.67
	672	400	5.67	6.81	8.51
	672	384	5.91	7.09	8.87
	672	320	7.09	8.51	10.64
	336	256	17.74	21.29	26.61
40,000	1280	288	2.95	3.54	4.43
	1280	256	3.32	3.99	4.99
	1008	288	3.94	4.73	5.91
	672	288	5.91	7.09	8.87
	336	288	11.83	14.19	17.74
	336	256	13.30	15.97	19.96

ACS-3 M16E 64GB model Nomal mode (3/3)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
50,000	1280	224	3.04	3.65	4.56
	1280	192	3.54	4.25	5.32
	1008	224	4.05	4.86	6.08
	672	224	6.08	7.30	9.12
	336	224	12.16	14.60	18.25
	336	192	14.19	17.03	21.29
65,000	1280	160	3.27	3.93	4.91
	1008	160	4.36	5.24	6.55
	672	160	6.55	7.86	9.82
	336	160	13.10	15.72	19.65
75,000	1280	144	2.95	3.54	4.43
	1280	128	3.32	3.99	4.99
	1008	144	3.94	4.73	5.91
	672	144	5.91	7.09	8.87
	336	144	11.83	14.19	17.74
	336	128	13.30	15.97	19.96
100,000	1280	96	3.54	4.25	5.32
	336	96	14.19	17.03	21.29
120,000	1280	80	3.54	4.25	5.32
	1280	64	4.43	5.32	6.65
	336	80	14.19	17.03	21.29
	336	64	17.74	21.29	26.61
150,000	1280	48	4.73	5.67	7.09
	336	48	18.92	22.71	28.39
200,000	1280	32	5.32	6.38	7.98
	336	32	21.29	25.55	31.94
220,000	1280	16	9.67	11.61	14.51
	336	16	38.71	46.46	58.07

ACS-3 M16E 64GB model Boost mode

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
16,000	1280	896	4.75	5.70	7.13
17,000	1280	896	4.47	5.36	6.71
20,000	1280	896	3.80	4.56	5.70
25,000	1280	896	3.04	3.65	4.56
30,000	1280	800	2.83	3.40	4.25
40,000	1280	576	2.95	3.54	4.43
	672	576	5.91	7.09	8.87
50,000	1280	448	3.04	3.65	4.56
	672	448	6.08	7.30	9.12
65,000	1280	320	3.27	3.93	4.91
	672	320	6.55	7.86	9.82
75,000	1280	288	3.15	3.78	4.73
	336	288	12.61	15.14	18.92
100,000	1280	192	3.54	4.25	5.32
	336	192	14.19	17.03	21.29
120,000	1280	160	3.54	4.25	5.32
	336	160	14.19	17.03	21.29
150,000	1280	96	4.73	5.67	7.09
	336	96	18.92	22.71	28.39
200,000	1280	64	5.32	6.38	7.98
	336	64	21.29	25.55	31.94
220,000	1280	32	9.67	11.61	14.51
	336	32	38.72	46.46	58.07

ACS-3 M16E 64GB model Boost 4 mode


Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
30,000	1280	896	5.07	6.08	7.60
40,000	1280	896	3.80	4.56	5.70
50,000	1280	896	3.04	3.65	4.56
65,000	1280	640	3.27	3.93	4.91
	672	640	6.55	7.86	9.82
75,000	1280	512	3.54	4.25	5.32
	672	512	7.09	8.51	10.64
100,000	1280	384	3.54	4.25	5.32
	672	384	7.09	8.51	10.64
120,000	1280	256	4.43	5.32	6.65
	336	256	17.74	21.29	26.61
150,000	1280	192	4.73	5.67	7.09
	336	192	18.92	22.71	28.39
200,000	1280	128	5.32	6.38	7.98
	336	128	21.29	25.55	31.94
220,000	1280	64	9.67	11.61	14.51
	336	64	38.72	46.46	58.07

ACS-3 M16

■ Frame Rates and Valid Pixels ACS-3 M16 Normal mode (1/3)

Maximum Frame Rate (fps)	Valid Pixels		Valid Image Area (mm)		Horizontal-Vertical Ratio (Size)
	Horizontal	Vertical	Horizontal	Vertical	
14,000 or less	1280	896	28.16	19.712	Split
	1280	720	28.16	15.84	16:9
	1008	768	22.176	16.896	Split
	672	512	14.784	11.264	Split
	640	480	14.08	10.56	VGA (4:3)
	512	512	11.264	11.264	1:1
	336	256	7.392	5.632	Split
16,000	1280	800	28.16	17.6	Split
	1280	720	28.16	15.84	16:9
	1008	768	22.176	16.896	Split
	672	512	14.784	11.264	Split
	640	480	14.08	10.56	VGA (4:3)
	512	512	11.264	11.264	1:1
	336	256	7.392	5.632	Split
17,000	1280	720	28.16	15.84	Split
	1280	640	28.16	14.08	Split
	1008	720	22.176	15.84	Split
	672	640	14.784	14.08	Split
	672	512	14.784	11.264	Split
	640	480	14.08	10.56	VGA (4:3)
	512	512	11.264	11.264	1:1
	336	256	7.392	5.632	Split

 • 14,000 or less includes 10,000, 5,000, 2,000, 1,000, 500, 100, 60 and 50 fps.

Custom Frame Size : In units of 16 horizontal pixels and 16 vertical pixels



■ Frame Rates and Valid Pixels ACS-3 M16 Normal mode (2/3)

Maximum Frame Rate (fps)	Valid Pixels		Valid Image Area (mm)		Horizontal-Vertical Ratio (Size)
	Horizontal	Vertical	Horizontal	Vertical	
20,000	1280	624	28.16	13.728	Split
	1280	576	28.16	12.672	Split
	1280	512	28.16	11.264	Split
	1008	624	22.176	13.728	Split
	672	576	14.784	12.672	Split
	672	512	14.784	11.264	Split
	640	480	14.08	10.56	VGA (4:3)
	512	512	11.264	11.264	1:1
	336	256	7.392	5.632	Split
25,000	1280	496	28.16	10.912	Split
	1280	448	28.16	9.856	Split
	1008	496	22.176	10.912	Split
	672	496	14.784	10.912	Split
	672	448	14.784	9.856	Split
	640	480	14.08	10.56	VGA (4:3)
	336	256	7.392	5.632	Split
30,000	1280	400	28.16	8.8	Split
	1280	384	28.16	8.448	Split
	1280	320	28.16	7.04	Split
	1008	400	22.176	8.8	Split
	672	400	14.784	8.8	Split
	672	384	14.784	8.448	Split
	672	320	14.784	7.04	Split
	336	256	7.392	5.632	Split
40,000	1280	288	28.16	6.336	Split
	1280	256	28.16	5.632	Split
	1008	288	22.176	6.336	Split
	672	288	14.784	6.336	Split
	336	288	7.392	6.336	Split
	336	256	7.392	5.632	Split
50,000	1280	224	28.16	4.928	Split
	1280	192	28.16	4.224	Split
	1008	224	22.176	4.928	Split
	672	224	14.784	4.928	Split
	336	224	7.392	4.928	Split
	336	192	7.392	4.224	Split

■ Frame Rates and Valid Pixels ACS-3 M16 Normal mode (3/3)

Maximum Frame Rate (fps)	Valid Pixels		Valid Image Area (mm)		Horizontal-Vertical Ratio (Size)
	Horizontal	Vertical	Horizontal	Vertical	
65,000	1280	160	28.16	3.52	Split
	1008	160	22.176	3.52	Split
	672	160	14.784	3.52	Split
	336	160	7.392	3.52	Split
75,000	1280	144	28.16	3.168	Split
	1280	128	28.16	2.816	Split
	1008	144	22.176	3.168	Split
	672	144	14.784	3.168	Split
	336	144	7.392	3.168	Split
	336	128	7.392	2.816	Split
100,000	1280	96	28.16	2.112	Split
	336	96	7.392	2.112	Split
120,000	1280	80	28.16	1.76	Split
	1280	64	28.16	1.408	Split
	336	80	7.392	1.76	Split
	336	64	7.392	1.408	Split
150,000	1280	48	28.16	1.056	Split
	336	48	7.392	1.056	Split
200,000	1280	32	28.16	0.704	Split
	336	32	7.392	0.704	Split
400,000	1280	16	28.16	0.352	Split
	336	16	7.392	0.352	Split



■ Frame Rates and Valid Pixels ACS-3 M16 Boost mode

Maximum Frame Rate (fps)	Valid Pixels		Valid Image Area (mm)		Horizontal-Vertical Ratio (Size)
	Horizontal	Vertical	Horizontal	Vertical	
25,000 or less	1280	896	28.16	19.712	Split
30,000	1280	800	28.16	17.6	Split
40,000	1280	576	28.16	12.672	Split
	672	576	14.784	12.672	Split
50,000	1280	448	28.16	9.856	Split
	672	448	14.784	9.856	Split
65,000	1280	320	28.16	7.04	Split
	672	320	14.784	7.04	Split
75,000	1280	288	28.16	6.336	Split
	336	288	7.392	6.336	Split
100,000	1280	192	28.16	4.224	Split
	336	192	7.392	4.224	Split
120,000	1280	160	28.16	3.52	Split
	336	160	7.392	3.52	Split
150,000	1280	96	28.16	2.112	Split
	336	96	7.392	2.112	Split
200,000	1280	64	28.16	1.408	Split
	336	64	7.392	1.408	Split
400,000	1280	32	28.16	0.704	Split
	336	32	7.392	0.704	Split



Attention • Boost mode supports only Mono, not color.



• 25,000 or less includes 15,000, 17,000, and 20,000 fps.

• Boost mode is preset only.

• Custom frame rate and custom frame size functions cannot be used.

■ Frame Rates and Valid Pixels ACS-3 M16 Boost 4 mode

Maximum Frame Rate (fps)	Valid Pixels		Valid Image Area (mm)		Horizontal-Vertical Ratio (Size)
	Horizontal	Vertical	Horizontal	Vertical	
30000	1280	896	28.16	19.712	Split
40000	1280	896	28.16	19.712	Split
50000	1280	896	28.16	19.712	Split
65000	1280	640	28.16	14.08	Split
	672	640	14.784	14.08	Split
75000	1280	512	28.16	11.264	Split
	672	512	14.784	11.264	Split
100000	1280	384	28.16	8.448	Split
	672	384	14.784	8.448	Split
120000	1280	256	28.16	5.632	Split
	336	256	7.392	5.632	Split
150000	1280	192	28.16	4.224	Split
	336	192	7.392	4.224	Split
200000	1280	128	28.16	2.816	Split
	336	128	7.392	2.816	Split
400000	1280	64	28.16	1.408	Split
	336	64	7.392	1.408	Split



- Boost 4 mode supports only Mono, not color.
- Please contact us or our distributors for models compatible with Boost 4 mode.



- Boost 4 mode is preset only.
- Custom frame rate and custom frame size functions cannot be used.

■ Recording Time Calculations

ACS-3 M16 16GB model Nomal mode (1/3)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
14,000 or less	1280	896	0.67	0.81	1.01
	1280	720	0.84	1.01	1.26
	1008	768	1.05	1.26	1.58
	672	512	2.37	2.84	3.56
	640	480	2.53	3.03	3.79
	512	512	2.37	2.84	3.56
	336	256	9.49	11.39	14.24
16,000	1280	800	0.66	0.79	0.99
	1280	720	0.73	0.88	1.10
	1008	768	0.92	1.10	1.38
	672	512	2.07	2.49	3.11
	640	480	2.21	2.65	3.32
	512	512	2.07	2.49	3.11
	336	256	8.30	9.96	12.46
17,000	1280	720	0.69	0.83	1.04
	1280	640	0.78	0.93	1.17
	1008	720	0.92	1.11	1.39
	672	640	1.56	1.87	2.34
	672	512	1.95	2.34	2.93
	640	480	2.08	2.50	3.12
	512	512	1.95	2.34	2.93
	336	256	7.81	9.38	11.72

ACS-3 M16 16GB model Nomal mode (2/3)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
20,000	1280	624	0.68	0.81	1.02
	1280	576	0.73	0.88	1.10
	1280	512	0.83	0.99	1.24
	1008	624	0.90	1.09	1.36
	672	576	1.47	1.77	2.21
	672	512	1.66	1.99	2.49
	640	480	1.77	2.12	2.65
	512	512	1.66	1.99	2.49
	336	256	6.64	7.97	9.96
25,000	1280	496	0.68	0.82	1.02
	1280	448	0.75	0.91	1.13
	1008	496	0.91	1.09	1.37
	672	496	1.37	1.64	2.05
	672	448	1.51	1.82	2.27
	640	480	1.41	1.70	2.12
	336	256	5.31	6.38	7.97
30,000	1280	400	0.70	0.85	1.06
	1280	384	0.73	0.88	1.10
	1280	320	0.88	1.06	1.32
	1008	400	0.94	1.13	1.41
	672	400	1.41	1.70	2.12
	672	384	1.47	1.77	2.21
	672	320	1.77	2.12	2.65
	336	256	4.43	5.31	6.64
40,000	1280	288	0.73	0.88	1.10
	1280	256	0.83	0.99	1.24
	1008	288	0.98	1.18	1.47
	672	288	1.47	1.77	2.21
	336	288	2.95	3.54	4.43
	336	256	3.32	3.98	4.98

ACS-3 M16 16GB model Nomal mode (3/3)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
50,000	1280	224	0.75	0.91	1.13
	1280	192	0.88	1.06	1.32
	1008	224	1.01	1.21	1.51
	672	224	1.51	1.82	2.27
	336	224	3.03	3.64	4.55
	336	192	3.54	4.25	5.31
65,000	1280	160	0.81	0.98	1.22
	1008	160	1.09	1.30	1.63
	672	160	1.63	1.96	2.45
	336	160	3.27	3.92	4.90
75,000	1280	144	0.73	0.88	1.10
	1280	128	0.83	0.99	1.24
	1008	144	0.98	1.18	1.47
	672	144	1.47	1.77	2.21
	336	144	2.95	3.54	4.43
	336	128	3.32	3.98	4.98
100,000	1280	96	0.88	1.06	1.32
	336	96	3.54	4.25	5.31
120,000	1280	80	0.88	1.06	1.32
	1280	64	1.10	1.32	1.66
	336	80	3.54	4.25	5.31
	336	64	4.43	5.31	6.64
150,000	1280	48	1.18	1.41	1.77
	336	48	4.72	5.67	7.08
200,000	1280	32	1.32	1.59	1.99
	336	32	5.31	6.38	7.97
400,000	1280	16	1.32	1.59	1.99
	336	16	5.31	6.38	7.97

ACS-3 M16 16GB model Boost mode

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
25,000	1280	896	0.75	0.91	1.13
30,000	1280	800	0.70	0.85	1.06
40,000	1280	576	0.73	0.88	1.10
	672	576	1.47	1.77	2.21
50,000	1280	448	0.75	0.91	1.13
	672	448	1.51	1.82	2.27
65,000	1280	320	0.81	0.98	1.22
	672	320	1.63	1.96	2.45
75,000	1280	288	0.78	0.94	1.18
	336	288	3.15	3.78	4.72
100,000	1280	192	0.88	1.06	1.32
	336	192	3.54	4.25	5.31
120,000	1280	160	0.88	1.06	1.32
	336	160	3.54	4.25	5.31
150,000	1280	96	1.18	1.41	1.77
	336	96	4.72	5.67	7.08
200,000	1280	64	1.32	1.59	1.99
	336	64	5.31	6.38	7.97
400,000	1280	32	1.32	1.59	1.99
	336	32	5.32	6.38	7.97



ACS-3 M16 16GB model Boost 4 mode

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
30,000	1280	896	1.26	1.51	1.89
40,000	1280	896	0.94	1.13	1.42
50,000	1280	896	0.75	0.91	1.13
65,000	1280	640	0.81	0.98	1.22
	672	640	1.63	1.96	2.45
75,000	1280	512	0.88	1.06	1.32
	672	512	1.77	2.12	2.65
100,000	1280	384	0.88	1.06	1.32
	672	384	1.77	2.12	2.65
120,000	1280	256	1.10	1.32	1.66
	336	256	4.43	5.31	6.64
150,000	1280	192	1.18	1.41	1.77
	336	192	4.72	5.67	7.08
200,000	1280	128	1.32	1.59	1.99
	336	128	5.31	6.38	7.97
400,000	1280	64	1.32	1.59	1.99
	336	64	5.32	6.38	7.97

ACS-3 M16 32GB model Nomal mode (1/3)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
14,000 or less	1280	896	1.35	1.62	2.03
	1280	720	1.68	2.02	2.53
	1008	768	2.11	2.53	3.16
	672	512	4.75	5.70	7.12
	640	480	5.06	6.08	7.60
	512	512	4.75	5.70	7.12
	336	256	19.00	22.80	28.50
16,000	1280	800	1.33	1.59	1.99
	1280	720	1.47	1.77	2.21
	1008	768	1.84	2.21	2.77
	672	512	4.15	4.98	6.23
	640	480	4.43	5.32	6.65
	512	512	4.15	4.98	6.23
	336	256	16.62	19.95	24.94
17,000	1280	720	1.39	1.66	2.08
	1280	640	1.56	1.87	2.34
	1008	720	1.85	2.22	2.78
	672	640	3.13	3.75	4.69
	672	512	3.91	4.69	5.86
	640	480	4.17	5.00	6.26
	512	512	3.91	4.69	5.86
	336	256	15.65	18.78	23.47

ACS-3 M16 32GB model Nomal mode (2/3)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
20,000	1280	624	1.36	1.63	2.04
	1280	576	1.47	1.77	2.21
	1280	512	1.66	1.99	2.49
	1008	624	1.81	2.18	2.72
	672	576	2.95	3.54	4.43
	672	512	3.32	3.99	4.98
	640	480	3.54	4.25	5.32
	512	512	3.32	3.99	4.98
	336	256	13.30	15.96	19.95
25,000	1280	496	1.37	1.64	2.05
	1280	448	1.52	1.82	2.28
	1008	496	1.83	2.19	2.74
	672	496	2.74	3.29	4.11
	672	448	3.04	3.64	4.56
	640	480	2.83	3.40	4.25
	336	256	10.64	12.77	15.96
30,000	1280	400	1.41	1.70	2.12
	1280	384	1.47	1.77	2.21
	1280	320	1.77	2.12	2.66
	1008	400	1.89	2.27	2.83
	672	400	2.83	3.40	4.25
	672	384	2.95	3.54	4.43
	672	320	3.54	4.25	5.32
	336	256	8.86	10.64	13.30
40,000	1280	288	1.47	1.77	2.21
	1280	256	1.66	1.99	2.49
	1008	288	1.97	2.36	2.95
	672	288	2.95	3.54	4.43
	336	288	5.91	7.09	8.86
	336	256	6.65	7.98	9.97

ACS-3 M16 32GB model Nomal mode (3/3)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
50,000	1280	224	1.52	1.82	2.28
	1280	192	1.77	2.12	2.66
	1008	224	2.02	2.43	3.04
	672	224	3.04	3.64	4.56
	336	224	6.08	7.29	9.12
	336	192	7.09	8.51	10.64
65,000	1280	160	1.63	1.96	2.45
	1008	160	2.18	2.61	3.27
	672	160	3.27	3.92	4.91
	336	160	6.54	7.85	9.82
75,000	1280	144	1.47	1.77	2.21
	1280	128	1.66	1.99	2.49
	1008	144	1.97	2.36	2.95
	672	144	2.95	3.54	4.43
	336	144	5.91	7.09	8.86
	336	128	6.65	7.98	9.97
100,000	1280	96	1.77	2.12	2.66
	336	96	7.09	8.51	10.64
120,000	1280	80	1.77	2.12	2.66
	1280	64	2.21	2.66	3.32
	336	80	7.09	8.51	10.64
	336	64	8.86	10.64	13.30
150,000	1280	48	2.36	2.83	3.54
	336	48	9.46	11.35	14.19
200,000	1280	32	2.66	3.19	3.99
	336	32	10.64	12.77	15.96
400,000	1280	16	2.66	3.19	3.99
	336	16	10.64	12.77	15.96

ACS-3 M16 32GB model Boost mode

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
25,000	1280	896	1.52	1.82	2.28
30,000	1280	800	1.41	1.70	2.12
40,000	1280	576	1.47	1.77	2.21
	672	576	2.95	3.54	4.43
50,000	1280	448	1.52	1.82	2.28
	672	448	3.04	3.64	4.56
65,000	1280	320	1.63	1.96	2.45
	672	320	3.27	3.92	4.91
75,000	1280	288	1.57	1.89	2.36
	336	288	6.30	7.56	9.46
100,000	1280	192	1.77	2.12	2.66
	336	192	7.09	8.51	10.64
120,000	1280	160	1.77	2.12	2.66
	336	160	7.09	8.51	10.64
150,000	1280	96	2.36	2.83	3.54
	336	96	9.46	11.35	14.19
200,000	1280	64	2.66	3.19	3.99
	336	64	10.64	12.77	15.96
400,000	1280	32	2.66	3.19	3.99
	336	32	10.64	12.77	15.96

ACS-3 M16 32GB model Boost 4 mode

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
30,000	1280	896	2.53	3.04	3.80
40,000	1280	896	1.90	2.28	2.85
50,000	1280	896	1.52	1.82	2.28
65,000	1280	640	1.63	1.96	2.45
	672	640	3.27	3.92	4.91
75,000	1280	512	1.77	2.12	2.66
	672	512	3.54	4.25	5.32
100,000	1280	384	1.77	2.12	2.66
	672	384	3.54	4.25	5.32
120,000	1280	256	2.21	2.66	3.32
	336	256	8.86	10.64	13.30
150,000	1280	192	2.36	2.83	3.54
	336	192	9.46	11.35	14.19
200,000	1280	128	2.66	3.19	3.99
	336	128	10.64	12.77	15.96
400,000	1280	64	2.66	3.19	3.99
	336	64	10.64	12.77	15.96

ACS-3 M16 64GB model Nomal mode (1/3)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
14,000 or less	1280	896	2.71	3.25	4.07
	1280	720	3.38	4.05	5.07
	1008	768	4.22	5.07	6.33
	672	512	9.50	11.40	14.26
	640	480	10.14	12.16	15.21
	512	512	9.50	11.40	14.26
	336	256	38.02	45.63	57.04
16,000	1280	800	2.66	3.19	3.99
	1280	720	2.95	3.54	4.43
	1008	768	3.69	4.43	5.54
	672	512	8.31	9.98	12.47
	640	480	8.87	10.64	13.30
	512	512	8.31	9.98	12.47
	336	256	33.27	39.92	49.91
17,000	1280	720	2.78	3.34	4.17
	1280	640	3.13	3.75	4.69
	1008	720	3.71	4.45	5.56
	672	640	6.26	7.51	9.39
	672	512	7.82	9.39	11.74
	640	480	8.35	10.02	12.52
	512	512	7.82	9.39	11.74
	336	256	31.31	37.57	46.97
20,000	1280	624	2.73	3.27	4.09
	1280	576	2.95	3.54	4.43
	1280	512	3.32	3.99	4.99
	1008	624	3.64	4.36	5.46
	672	576	5.91	7.09	8.87
	672	512	6.65	7.98	9.98
	640	480	7.09	8.51	10.64
	512	512	6.65	7.98	9.98
	336	256	26.61	31.94	39.92

ACS-3 M16 64GB model Nomal mode (2/3)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
25,000	1280	496	2.74	3.29	4.12
	1280	448	3.04	3.65	4.56
	1008	496	3.66	4.39	5.49
	672	496	5.49	6.59	8.24
	672	448	6.08	7.30	9.12
	640	480	5.67	6.81	8.51
	336	256	21.29	25.55	31.94
30,000	1280	400	2.83	3.40	4.25
	1280	384	2.95	3.54	4.43
	1280	320	3.54	4.25	5.32
	1008	400	3.78	4.54	5.67
	672	400	5.67	6.81	8.51
	672	384	5.91	7.09	8.87
	672	320	7.09	8.51	10.64
40,000	336	256	17.74	21.29	26.61
	1280	288	2.95	3.54	4.43
	1280	256	3.32	3.99	4.99
	1008	288	3.94	4.73	5.91
	672	288	5.91	7.09	8.87
	336	288	11.83	14.19	17.74
	336	256	13.30	15.97	19.96
50,000	1280	224	3.04	3.65	4.56
	1280	192	3.54	4.25	5.32
	1008	224	4.05	4.86	6.08
	672	224	6.08	7.30	9.12
	336	224	12.16	14.60	18.25
	336	192	14.19	17.03	21.29

ACS-3 M16 64GB model Nomal mode (3/3)

Preset. The recording time is without segment or block partitioning

Frame Rate (fps)	Frame size		Recording Time (sec)		
	Horizontal	Vertical	12bit	10bit	8bit
65,000	1280	160	3.27	3.93	4.91
	1008	160	4.36	5.24	6.55
	672	160	6.55	7.86	9.82
	336	160	13.10	15.72	19.65
75,000	1280	144	2.95	3.54	4.43
	1280	128	3.32	3.99	4.99
	1008	144	3.94	4.73	5.91
	672	144	5.91	7.09	8.87
	336	144	11.83	14.19	17.74
	336	128	13.30	15.97	19.96
100,000	1280	96	3.54	4.25	5.32
	336	96	14.19	17.03	21.29
120,000	1280	80	3.54	4.25	5.32
	1280	64	4.43	5.32	6.65
	336	80	14.19	17.03	21.29
	336	64	17.74	21.29	26.61
150,000	1280	48	4.73	5.67	7.09
	336	48	18.92	22.71	28.39
200,000	1280	32	5.32	6.38	7.98
	336	32	21.29	25.55	31.94
400,000	1280	16	5.32	6.38	7.98
	336	16	21.29	25.55	31.94

Revision History

ACS-3 Preset Table Revision History

Revision	Date of issue	Changes
A	April 2020	First edition
B	August 2020	Change USA Contact Information
C	July 2021	Supported firmware Ver2.14.
D	March 2023	Change European Contact Information
E	February 2024	Change Contact Information



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