

**Replacement Cycle (Guideline)
SD Memory Card for Business use in the case of
continuous H.264/H.265 writing**

May, 2021

■ About this document

- In this document, it is described as "SD memory card" as a generic name of (micro)SD memory card / (micro)SDHC memory card / (micro)SDXC memory card.
- SD memory card is consumable item that has an upper limit of rewritings.
- This document shows the replacement cycle (guideline) of the SD memory card when SD memory card is attached to the camera and continuous writing is performed by H.264 method (H.264/H.265 in Groups 5, 6, 7 and 8).
- In JPEG writing, please note that the replacement cycle (guideline) is much shorter than the one in H.264/H.265.

■ Notes on replacement cycle (guideline)

- It is calculated based on the upper limit of the number of times of rewriting of the SD memory card as a guide and **does not guarantee the endurance period**.
The endurance period will vary depending on the installation environment, operational environment, etc.
- On SD memory cards, media and stored data may be damaged due to power off during access. Faults on the SD memory card are notified to the outside by mail / alarm notification / LED etc.
Please periodically check the operation if these cannot be received and confirmed.
- If you record the data on the SD memory card for a long time, it may be lost.
We recommend you to backup data that you need to save promptly.
- The replacement cycle (guideline) is an estimated value **applied only to the SD memory cards for business use with part numbers listed in the table.**

- Continuous H.264 (H/264/H.265 in Group 5, 6, 7, 8, and 9) recording onto SD memory card, the files of video are divided by prior defined maximum file size.
- There are 2 sizes depends on the model as follow.
- The replacement cycle (Guideline) is depending on the file size, above.

Group Numbers	Models	Versions	File Sizes
1	WV-SW395A/SW395/SC385/SC384/SW155MA/SW155/SW152M/SW152/SW115 WV-SW175/SW172/ST165/ST162	V1.81 and later	2MB
2	WV-SW458MA/SW458/SF438/SF448E/SW158/SF138 WV-SW598/SW598A/SW397B/SC588A/SC387A	V1.02 and later	Choice between 2MB/20MB (Default: 20MB)
3	WV-SFN631L/SFN611L/SFV631L/SFV611L/SFV631LT/SFR631L/SFR611L/SPN631/SPN611 WV-SPW631LT/SPW631L/SPW611L/SPW611/SFV531/SFN531/SFR531/SPW532L/SPW531AL/SPN531A WV-SFV311A/SFV310A/SFR311A/SFR310A/SFN311L/SFN311A/SFN310A/SPW312L/SPW311AL WV-SPN311A/SPN310A/SFV130M/SFV130/SFV110M/SFV110/SFN130/SFN110/SBV131M/SBV111M	V1.19 and later	20MB
4	WV-SFV481/SFN480/SFV781L/SPV781L	V1.02 and later	20MB
5	WV-S2531LTN/S2531LN/S2511LN/S2231L/S2211L/S2131L/S2131/S2111L/S1531LTN/S1531LN WV-S1531LNS/S1511LN/S1132/S1131/S1112/S1111	V1.42 and later	20MB
6	WV-X6531NS/X6531N/X6511N/S6530N/S6131/S6111/S6130/X6533LN(S)/S6532LN(S)	V1.11 and later	20MB
7	WV-S4550L(M)/S4150/X4571L(M)/X4171/X4170/S2550L/S1550L/S2250L/X8570N/S8530N/X8571N/S8531N WV-S1570L/S2270L/S2570L/S1552L/S2252L/S2552L/S1572L/S2272L/S2572L/X1551LN/X2251L/X2551LN/ WV-X1571LN/X2271L/X2571LN/S4551L(M)/S4151/X4573L(M)/X4173/X4172	V1.01 and later	20MB
8	WV-S3531L/S3511L/S3131L/S3111L/S3532LM/S3512LM	V4.00 and later	20MB
9	WV-U2542L/U2540L/U2532L/U2530L/U2142L/U2140L/U2132L/U2130L/U1542L/U1532L/U1142/U1132/U1130	V1.00 and later	20MB

Replacement Cycle (Guideline) for SD Memory Card by Panasonic i-PRO Sensing Solutions Co., Ltd. - Continuous H.264/H.265 writing -

■ Important

Setting the bit rate that exceeds the upper limit of the camera in use may cause a recording loss.
For details on the restriction, refer to “Restriction on use of i-PRO SD Memory Card 【C0134】”.

Group 1 or Choose "2MB" in Group 2

- It is calculated based on the upper limit of the number of times of rewriting of the SD memory card as a guide and **does not guarantee the endurance period**.
- The endurance period will vary depending on the installation environment, operational environment, etc.

Bandwidth (kbps)	SD Memory Card		
	WV-SDA032G	* WV-SDA064G	* WV-SDA128G
64	5-year	5-year	5-year
128			
256			
384			
512			
768	4-year 4-month	5-year	5-year
1,024			
1,536			
2,048			

*: Not usable on the cameras of Group 1.

Group 3 or Choose "20MB" in Group 2

- It is calculated based on the upper limit of the number of times of rewriting of the SD memory card as a guide and **does not guarantee the endurance period**.
- The endurance period will vary depending on the installation environment, operational environment, etc.

Bandwidth (kbps)	SD Memory Card		
	WV-SDA032G	WV-SDA064G	WV-SDA128G
64	5-year	5-year	5-year
128			
256			
384			
512			
768			
1,024	4-year 6-month	3-year	5-year
1,536			
2,048			
* 3,072	3-year	2-year 3-month	5-year
* 4,096	2-year 3-month		
* 6,144	1-year 6-month	3-year 10-month	<p>Please set the bitrate of recording stream less than 6,144 kbps</p>
* 8,192			
* 10,240			
* 12,288			
* 14,336			
* 16,384			

*: Not usable on the cameras of Group 2.

- It is calculated based on the upper limit of the number of times of rewriting of the SD memory card as a guide and **does not guarantee the endurance period**.
- The endurance period will vary depending on the installation environment, operational environment, etc.

Bandwidth (kbps)	SD Memory Card			
	WV-SDA032G	WV-SDA064G	WV-SDA128G	
64	5-year	5-year	5-year	
128				
256				
384				
512				
768				
1,024				
1,536	4-year 6-month			
2,048				
3,072				3-year
4,096				2-year 3-month
6,144	1-year 6-month	3-year 10-month		
8,192	1-year 1-month	2-year 11-month		
10,240	Please set the bitrate of recording stream less than 8,192 kbps			
12,288				
14,336				
16,384				

- It is calculated based on the upper limit of the number of times of rewriting of the SD memory card as a guide and **does not guarantee the endurance period**.
- The endurance period will vary depending on the installation environment, operational environment, etc.

Bandwidth (kbps)	SD Memory Card				
	WV-SDA032G	WV-SDA064G	WV-SDA128G	WV-SDA256G	WV-SDA512G
64	5-year	5-year	5-year	5-year	5-year
96					
128					
192					
224					
256					
320					
352					
384					
448					
480					
512					
640					
768					
1,024					
1,280					
1,536					
1,792					
2,048	4-year 6-month				
3,072	3-year				
4,096	2-year 3-month				
6,144	1-year 6-month	3-year 10-month			
8,192	Please set the bitrate of recording stream less than 6,144 kbps				
10,240					
12,288					

- It is calculated based on the upper limit of the number of times of rewriting of the SD memory card as a guide and **does not guarantee the endurance period**.
- The endurance period will vary depending on the installation environment, operational environment, etc.

Bandwidth (kbps)	SD Memory Card				
	WV-SDA032G	WV-SDA064G	WV-SDA128G	WV-SDA256G	WV-SDA512G
64	5-year	5-year	5-year	5-year	5-year
96					
128					
192					
224					
256					
320					
352					
384					
448					
480					
512					
640					
768					
1,024					
1,280					
1,536					
1,792					
2,048	4-year 6-month				
3,072	3-year				
4,096	2-year 3-month				
6,144	1-year 6-month	3-year 10-month			
8,192	1-year 1-month	2-year 11-month			
10,240	Please set the bitrate of recording stream less than 8,192 kbps				
12,288					

- It is calculated based on the upper limit of the number of times of rewriting of the SD memory card as a guide and **does not guarantee the endurance period**.
- The endurance period will vary depending on the installation environment, operational environment, etc.

Bandwidth (kbps)	SD Memory Card			
	WV-SDB032G	WV-SDB064G	WV-SDB128G	WV-SDB256G
64	5-year	5-year	5-year	5-year
96				
128				
192				
224				
256				
320				
352				
384				
448				
480				
512				
640				
768				
1,024				
1,280				
1,536				
1,792				
2,048	4-year 6-month	3-year 10-month		
3,072	3-year			
4,096	2-year 3-month			
6,144	1-year 6-month			
8,192	Please set the bitrate of recording stream less than 6,144 kbps			
10,240				
12,288				

Replacement Cycle (Guideline) for SD Memory Card
by Panasonic Corporation
- Continuous H.264/H.265 writing -

Group 1 or Choose “2MB” in Group 2

- It is calculated based on the upper limit of the number of times of rewriting of the SD memory card as a guide and **does not guarantee the endurance period**.
- The endurance period will vary depending on the installation environment, operational environment, etc.

Bandwidth (kbps)	SD Memory Card		
	RP-SDGD32DA1	* RP-SDGD64DA1	* RP-SDUE12DA1
64	5-year	5-year	5-year
128			
256			
384			
512			
768	3-year 6-month	4-year	
1,024	2-year 7-month		
1,536	1-year 9-month		
2,048	1-year 4-month		

*: Not usable on the cameras of Group 1.

- It is calculated based on the upper limit of the number of times of rewriting of the SD memory card as a guide and **does not guarantee the endurance period**.
- The endurance period will vary depending on the installation environment, operational environment, etc.

Bandwidth (kbps)	SD Memory Card		
	RP-SDGD32DA1	RP-SDGD64DA1	RP-SDUE12DA1
64	5-year	5-year	5-year
128			
256			
384			
512			
768			
1,024			
1,536		4-year 4-month	
2,048	3-year 11-month	3-year 3-month	
* 3,072	2-year 7-month	2-year 2-month	3-year 9-month
* 4,096	1-year 11-month	1-year 7-month	2-year 10-month
* 6,144	1-year 3-month	1-year 1-month	1-year 10-month
* 8,192	1-year	10-month	1-year 5-month
* 10,240	9-month	8-month	1-year 1-month
* 12,288	8-month	6-month	11-month
* 14,336	7-month	5-month	10-month
* 16,384	6-month	5-month	8-month

*: Not usable on the cameras of Group 2.

- It is calculated based on the upper limit of the number of times of rewriting of the SD memory card as a guide and **does not guarantee the endurance period**.
- The endurance period will vary depending on the installation environment, operational environment, etc.

Bandwidth (kbps)	SD Memory Card			
	RP-SDGD32DA1	RP-SDGD64DA1	RP-SDUE12DA1	RP-SDXE25DA1
64	5-year	5-year	5-year	5-year
96				
128				
192				
224				
256				
320				
352				
384				
448				
480				
512				
640				
768				
1,024				
1,280		4-year 10-month		
1,536	4-year 7-month	4-year 4-month		
1,792	3-year 10-month	3-year 9-month		
2,048	3-year 5-month	3-year 3-month		
3,072	2-year 3-month	2-year 2-month	4-year 4-month	
4,096	1-year 9-month	1-year 7-month	3-year 3-month	
6,144	1-year 1-month	1-year 1-month	2-year 2-month	4-year 3-month
8,192	10-month	9-month	1-year 6-month	3-year 8-month
10,240	8-month	7-month	1-year 3-month	3-year 4-month
12,288	6-month	6-month	1-year	3-year

- It is calculated based on the upper limit of the number of times of rewriting of the SD memory card as a guide and **does not guarantee the endurance period**.
- The endurance period will vary depending on the installation environment, operational environment, etc.

Bandwidth (kbps)	SD Memory Card	
	RP-SMTT32DA1 ^{*1}	RP-SMTT64DA1 ^{*1}
64	5-year	5-year
96		
128		
192		
224		
256		
320		
352		
384		
448		
480	3-year 11-month	
512	3-year 5-month	
640	2-year 8-month	
768	2-year 4-month	
1,024	1-year 7-month	4-year 10-month
1,280	1-year 3-month	4-year 1-month
1,536	1-year 1-month	3-year
1,792	11-month	2-year 8-month
2,048	10-month	2-year 4-month
3,072	8-month	1-year 6-month
4,096	5-month	1-year 2-month
6,144	5-month	10-month
8,192	4-month	8-month
10,240	3-month	7-month
12,288	2-month	6-month

^{*1}:RP-SMTT32DA1 is microSDHC memory card and RP-SMTT64DA1 is microSDXC memory card. Compared under the same writing conditions, the replacement cycle (estimate) is same or shorter than SDHC / SDXC memory cards of the same capacity.

iii-PRO