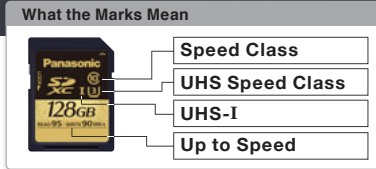


Ultra High Speed – UHS-I

Fast transfer of a maximum 104 MB/s*1 is possible by the speed standards of the SD memory card.



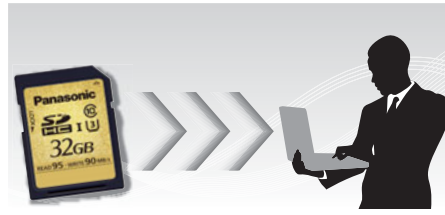
Ultra High-Speed Writing (WRITE: Up to 90 MB/s) For High-Speed Burst Shooting

Catch the moment without worrying about frame-drops with 4 times*2 faster writing speed.



Ultra High-Speed Reading (READ: Up to 95 MB/s) For Smart Transmission & Editing

Makes it easy to handle heavy data with 3 times*2 faster reading speed.



Reliable Speed Class Implementation (UHS Speed Class 3 U3) For Smooth 4K Video Recording

An accurate and constant write speed based on speed class ensures smooth video recording even with superior video quality.



*1 Speed varies depending on the environment and condition of host devices. *2 SDUD Series comparing with conventional high speed (HS) model.

High Performance and Reliability

PROOF 7 Tough & Safe- in All Panasonic SD Cards and microSD Cards

Water Proof WATER	Electrostatic Proof ELECTROSTATIC	Shock Proof SHOCK	Plus Protect against unexpected problems.
Magnetic Proof MAGNETIC FIELD	Temperature Proof TEMPERATURE	X-ray Proof X-RAY	

Excluding use with the microSD adapter. Twisting torque resistance.

Smart Guard The Data Protect Function Prevents Data From Being Damaged

POWER FAILURE GUARD Protects data from damages due to sudden power interruptions.	DATA DAMAGE GUARD Equalizes rewrite frequency in each writing block in order to reduce defect risks.
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MLC Long Lasting MLC (Multi-Level Cell) Flash Memory for saving your precious memories longer

MLC flash memory can be rewritten to **10 times longer** than TLC flash memory.

• SD, SDHC, SDXC, and microSD Card utilize a portion of the memory for copy protection and other purposes. Therefore usable capacity will be less than the viewing capacity. (1GB means 1,073,741,824 bytes)
• SD, SDHC, SDXC, microSDHC and microSDXC Logos are trademarks of SD-3C, LLC.



Supporting 4K Video and Burst Shooting!

SDUD Series

Great for 4K Video and Burst Shooting



SD XC I	SD HC I
(128/64GB)	(32GB)
Speed Class	
•UHS Speed Class 3	U3
•Speed Class 10	CLASS 10
Speed Performance*	
•UHS-I Mode	
READ	Up to 95 MB/s
WRITE	Up to 90 MB/s

RP-SDUD128AK RP-SDUD64GAK RP-SDUD32GAK

128GB 64GB 32GB

PROOF 7 Smart Guard MLC

4K Video Support

* With a non-compliant UHS-I device, the speed of the table above is not performed. In that case, high speed mode or default mode is implemented.
 • The UHS Speed Class 3 (U3) is only possible when used with the U3 compliant host devices.

UHS Speed Class 3 (U3) is specifically designed for 4K2K video recording.

Types of Speed Class

UHS Speed Class (UHS bus only)	Speed Class	Min. Constant Write Speed*	Capable Application			
			4K Video	Full HD Video	HD Video	SD Video
UHS Speed Class 3 (U3)	Speed Class 10 CLASS 10	30MB/s (240Mbps)				
UHS Speed Class 1 (U1)	Speed Class 10 CLASS 10	10MB/s (80Mbps)				
—	Speed Class 6 CLASS 6	6MB/s (48Mbps)				
—	Speed Class 4 CLASS 4	4MB/s (32Mbps)				
—	Speed Class 2 CLASS 2	2MB/s (16Mbps)				

* This speed performance is achieved under the conditions specified by the SD Association.

U3 4K Video Support

Min. write speed of 30 MB/s (240 Mbps)

Ideal for all shooting needs, from 4K and HD to standard video.

SMGB Series

Ideal for Action Cameras!



micro SD XC I	micro SD HC I
(64GB)	(32/16GB)
Speed Class	
•UHS Speed Class 3	U3
•Speed Class 10	CLASS 10
Speed Performance*	
•UHS-I Mode	
READ	Up to 95 MB/s
WRITE	Up to 90 MB/s (16GB: Up to 45 MB/s)

RP-SMGB64GAK RP-SMGB32GAK RP-SMGB16GAK

64GB 32GB 16GB

PROOF 7 Smart Guard MLC

4K Video Support

* With a non-compliant UHS-I device, high speed mode or default mode is implemented.

Capacity Chart

Quality	8GB	16GB	32GB	64GB	128GB
Still Images [JPEG] Aspect ratio 4:3					
RAW 4,608 x 3,456 pixels (16M)	400	810	1,600	3,190	6,390
High/L 4,320 x 3,240 pixels (14M)	1,800	3,630	7,140	13,890	27,950
Normal/S 2,048 x 1,536 pixels (3M)	5,330	10,740	21,270	37,630	75,250
Motion Image [4K] Aspect ratio 16:9					
MP4 (LPCM) *1 3,840 x 2,160 60p (150 Mbps)	—	12 min	25 min	55 min	1 h 50 min
MOV/MP4 (LPCM) *2 3,840 x 2,160 30p (100 Mbps)	—	21 min	40 min	1 h 20 min	2 h 50 min
MP4 *3 3,840 x 2,160 30p (72 Mbps)	14 min	28 min	55 min	1 h 50 min	—
Motion Image (Full-HD) Aspect ratio 16:9					
MOV/MP4 (All-Intra) (LPCM) *2 60p (200 Mbps)	—	10 min	18 min	40 min	1 h 20 min
AVCHD Progressive (DSC) 60p (28 Mbps)	35 min	72 min	2 h 30 min	5 h	9 h 55 min
MP4 (DSC) 30p (20 Mbps)	45 min	1 h 40 min	3 h 15 min	6 h 45 min	13 h 20 min

*1 Using HC-X1000. *2 Using DMC-GH4. *3 Using HX-A500.
 • Recording time and the number of images may vary depending on the particular device. Numbers are approximate.