

timeMAX Solution 2.0

Designed For Extra Long Recording Time

TeleEye



Flagship Solution for Extra Long Recording Time

TeleEye timeMAX Solution 2.0 provides an extra long recording time and is definitely the best solution that meets a variety of your needs! With the combination of TeleEye GN series DVRs and MP series IP Cameras, you can have the real time recording of 1080p videos for up to 277 days*.

Benefits

Powerful Storage
80 TB/ 277 days*

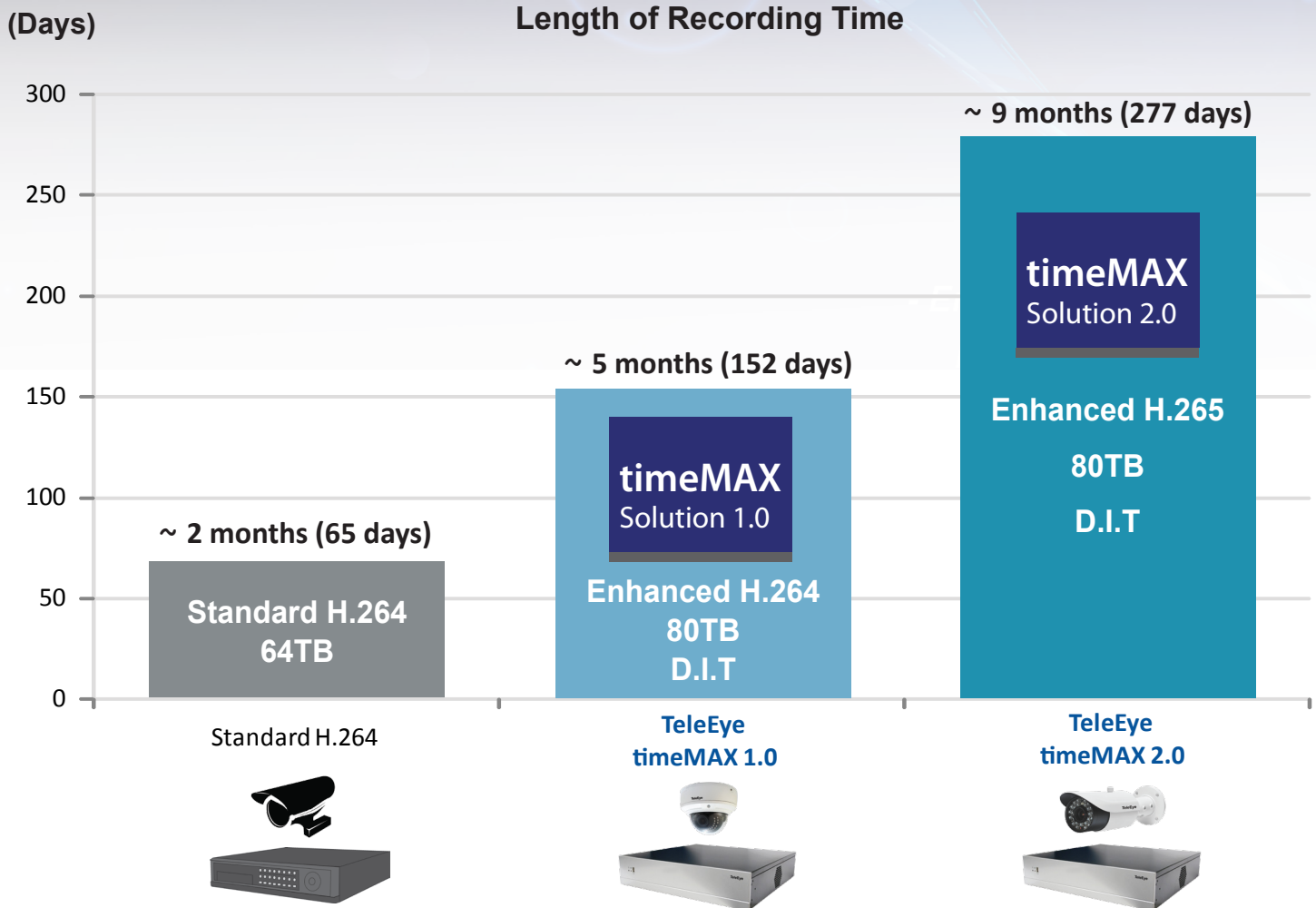
Excellent Video Quality
Up to 4K Resolution

Hacker Resistant
Secure Data Transmission

Simple Configuration
All-in-One Storage System

*Remarks: (a) The estimated days were measured under 1080p in 25fps with 16 cameras. (b) Recording data with TeleEye timeMAX Solution 2.0 were measured using TeleEye MP8/ MP4 IP cameras. (c) The video quality in GN was set to "medium" in all above measurements. (d) The actual recording performance may vary subject to the real environment under surveillance. (e) The above estimated recording time for timeMAX Solution 2.0 was measured under office conditions.

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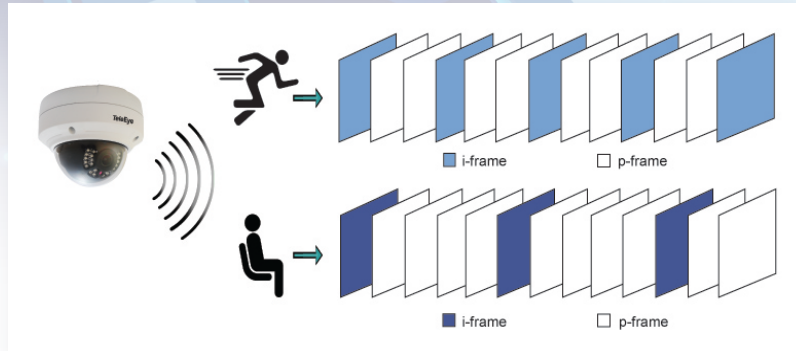


Remarks: (a) Recording data with TeleEye timeMAX Solution 2.0 were measured using TeleEye MP8 IP cameras and TeleEye GN8 DVR. (b) Recording data with TeleEye timeMAX Solution 1.0 were measured using TeleEye MP4 IP cameras and TeleEye GN6 DVR. (c) Recording data with standard H.264 were measured using third-party's ONVIF cameras. (d) The video quality in GN was set to "medium" in all above measurements. (e) The actual recording performance may vary subject to the real environment under surveillance. (f) The above estimated recording time for timeMAX Solution was measured under office conditions.

Most of the digital video recorders found in the market support H.264 with storage of 12TB hard disk size, which results in a very limited length of about 2 weeks recording time. Even if some bigger recorders supporting greater storage as large as 64TB are installed, the maximum recording time can only be up to 2 months.

With TeleEye timeMAX Solution 2.0, you can have the longest recording time ever! TeleEye timeMAX Solution 2.0 supports 10TB x 8 hard disks as well as our Enhanced H.265 video compression technology, in which the video compression is 30% more efficient than the standard H.265. Together with TeleEye's newly-developed Dynamic I-frame Technology (D.I.T), it further extends the storage time of about 25%, enabling a maximum recording time of about 9 months (277 days) to be reached, while the most commonly found products in the market is only about 2 months (65 days).

TeleEye Dynamic I-frame Technology (D.I.T)



Dynamic I-frame Technology (D.I.T) is a new technology developed by TeleEye to enhance recording time by optimizing the frequency of I-frame (Intra-frame) and P-frame (Predictive frame).

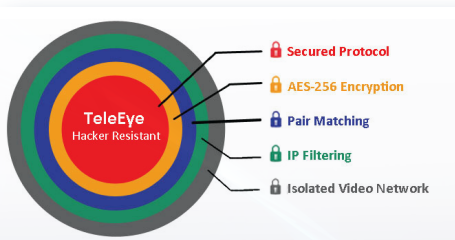
I-frame is a fully specified picture while P-frame holds only the changes in the image from the previous frame. As such, the data size of I-frame is much bigger than P-frame and therefore I-frame takes up more space on data storage.

With D.I.T, the system can intelligently do the data analysis based on the scene to adjust the frequencies of I-frames and P-frames. In times of more detected motions, the frequency of I-frames will be increased automatically. Oppositely, I-frames will be decreased to save storage when fewer motions are detected. Meanwhile, the quality of the video can still remain at the best quality with fewer I-frames under TeleEye's unique technology - D.I.T.

This smart feature automatically adjusts the I-frames and P-frames in accordance to the motion sequence of the scene, enabling more data storage for a longer recording time.

Hacker Resistant

Apart from longer recording time, your security is also of our utmost concern:



Many ordinary H.264 IP cameras are proven to be insecure, where hackers are able to bypass the security and access the live video footages remotely. Data security is always an important factor in the TeleEye product design.

The TeleEye Hacker Resistant technology is incorporated in the TeleEye video surveillance solution, shielding off hackers' attacks via the Internet through 5 Layers of Protection: AES 256-bit encryption, specific IP access, secure protocol, pair matching architecture and isolated video network.

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Estimated Recording Time for timeMAX Solution in 4K

Table 1

Resolution		4K		
Frame Rate		25 fps	12 fps	5 fps
Setup	Coding	timeMAX 2.0		
16 cams; 10 TB x 8		86 days	147 days	241 days
16 cams; 8 TB x 8		69 days	117 days	193 days
8 cams; 10 TB x 8		173 days	294 days	482 days
8 cams; 8 TB x 8		138 days	235 days	386 days

Remarks: (a) Recording data with TeleEye timeMAX Solution 2.0 were measured using TeleEye MP8 IP cameras and TeleEye GN8 DVR. (b) The video quality in GN was set to "medium" in all above measurements. (c) The actual recording performance may vary subject to the real environment under surveillance. (d) The above estimated recording time for timeMAX Solution was measured under office conditions.

Estimated Recording Time for timeMAX Solution in 1080p

Table 2

Resolution		1080p					
Frame Rate		25 fps		12 fps		5 fps	
Setup	Coding	timeMAX 2.0	timeMAX 1.0	timeMAX 2.0	timeMAX 1.0	timeMAX 2.0	timeMAX 1.0
16 cams; 10 TB x 8		277 days	152 days	470 days	259 days	771 days	424 days
16 cams; 8 TB x 8		221 days	121 days	376 days	207 days	617 days	339 days
8 cams; 10 TB x 8		554 days	304 days	941 days	518 days	1544 days	849 days
8 cams; 8 TB x 8		443 days	243 days	753 days	414 days	1235 days	679 days

Remarks: (a) Recording data with TeleEye timeMAX Solution 2.0 were measured using TeleEye MP8 IP cameras and TeleEye GN8 DVR. (b) Recording data with TeleEye timeMAX Solution 1.0 were measured using TeleEye MP4 IP cameras and TeleEye GN6 DVR. (c) The video quality in GN was set to "medium" in all above measurements. (d) The actual recording performance may vary subject to the real environment under surveillance. (e) The above estimated recording time for timeMAX Solution was measured under office conditions.

Estimated Recording Time for timeMAX Solution in 720p

Table 3

Resolution		720p					
Frame Rate		25 fps		12 fps		5 fps	
Setup	Coding	timeMAX 2.0	timeMAX 1.0	timeMAX 2.0	timeMAX 1.0	timeMAX 2.0	timeMAX 1.0
16 cams; 10 TB x 8		454 days	250 days	771 days	424 days	1264 days	695 days
16 cams; 8 TB x 8		363 days	199 days	617 days	339 days	1011 days	556 days
8 cams; 10 TB x 8		909 days	499 days	1544 days	849 days	2524 days	1391 days
8 cams; 8 TB x 8		727 days	399 days	1235 days	679 days	2020 days	1113 days

Remarks: (a) Recording data with TeleEye timeMAX Solution 2.0 were measured using TeleEye MP8 IP cameras and TeleEye GN8 DVR. (b) Recording data with TeleEye timeMAX Solution 1.0 were measured using TeleEye MP4 IP cameras and TeleEye GN6 DVR. (c) The video quality in GN was set to "medium" in all above measurements. (d) The actual recording performance may vary subject to the real environment under surveillance. (e) The above estimated recording time for timeMAX Solution was measured under office conditions.



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