

Title:	Recommended Bitrates				
Date:	8/3/2012	Version:	1.0	Pages	1
Product:	All NVR's and Hybrid DVR's				
Action Required:	Information Only				

Recommended Bitrate in Kbps					
Resolution	Pixels	Frame rate	Best	Better	Good
5MP	2560*1920	30fps	16384Kbps[1]	16062	12047
		15fps	10039	8031	6023
		8fps	5701	4560	3420
3MP	2048*1536	30fps	15360	10240	8192
		15fps	7680	5120	4096
		8fps	4361	2907	2326
2MP	HD 1080P(1920*1080)	30fps	10240	7168	5120
		15fps	5120	3584	2560
		8fps	2907	2035	1453
	UXGA(1600*1200)	30fps	9481	6637	4740
		15fps	4740	3318	2370
		8fps	2692	1884	1345
1.3MP	HD 900P(1600*912)	30fps	9728	6485	4864
		15fps	4864	3242	2432
		8fps	2725	1817	1362
	HD 960P(1280*960)	30fps	8192	5461	4096
		15fps	4096	2730	2048
		8fps	2326	1550	1163
1.0MP	HD 720P(1280*720)	30fps	6144	4096	3072
		15fps	3072	2048	1536
		8fps	1744	1163	872
Standard Resolution	XVGA(1024*768)	30fps	5242	3495	2621
		15fps	2621	1747	1310
		8fps	1488	992	744
	SVGA(800*600)	30fps	4363	2909	2181
		15fps	2181	1454	1090
		8fps	1238	826	619
	4CIF(704*480) @ 30fps	30fps	3072	2048	1536
		15fps	1536	1024	768
		8fps	872	581	436
	VGA(640*480) @ 30fps	30fps	2048	1536	1280
		15fps	1024	768	640
		8fps	581	436	363

[1]: In theory, 5MP@30fps needs around 20078 Kbps to get best quality. But NVR/HDVR is currently limited to 16K maximum.

[2]: We used to have 6 levels in our Image quality settings: Highest, High, medium, low, lower, lowest. We are keeping the first three levels here and renaming them as Good, Better, Best.