Vidéo

Application	Typical Screen Resolution (pixels)	Typical FPS (Frames per Second)	CODEC	Typical Upstream Bandwidth per Camera* (bits per second)	Image
Monitoring	176x120 QCIF	30	MPEG4	150 kbps	• Good Image • Smooth motion • Some text legible
	176x120 QCIF	10	MPEG4	50 kbps	• Cloudy Image • Step Motion • Some text legible
Emergency Response	352x240 CIF	30	MPEG4	600 kbps	• Clear Image • Full Motion • Clear Text
	352x240 CIF	5	MPEG4	100 kbps	• Some blurring • Step motion • Text is legible
Investigations	640x480 4CIF	30	MPEG4	11,200 kbps	• Sharp Image • Full motion • Text is legible
	640x480 4CIF	10	H.264	350 kbps	• Sharp Image • Step motion • Text is legible

* Recommended Bandwidth Allocation set for 80% upstream and 20% upstream.

Audio

Codec Information				Bandwidth Calculations					
Codec & Bit Rate (Kbps)	Codec Sample Size (Bytes)	Codec Sample Interval (ms)	Mean Opinion Score (MOS)	Voice Payload Size (Bytes)	Voice Payload Size (ms)	Packets Per Second (PPS)	Bandwidth MP or FRF.12 (Kbps)	Bandwidth w/cRTP MP or FRF.12 (Kbps)	Bandwidth Ethernet (Kbps)
G.711 (64 Kbps)	80 Bytes	10 ms	4.1	160 Bytes	20 ms	50	82.8 Kbps	67.6 Kbps	87.2 Kbps
G.729 (8 Kbps)	10 Bytes	10 ms	3.92	20 Bytes	20 ms	50	26.8 Kbps	11.6 Kbps	31.2 Kbps
G.723.1 (6.3 Kbps)	24 Bytes	30 ms	3.9	24 Bytes	30 ms	33.3	18.9 Kbps	8.8 Kbps	21.9 Kbps
G.723.1 (5.3 Kbps)	20 Bytes	30 ms	3.8	20 Bytes	30 ms	33.3	17.9 Kbps	7.7 Kbps	20.8 Kbps
G.726 (32 Kbps)	20 Bytes	5 ms	3.85	80 Bytes	20 ms	50	50.8 Kbps	35.6 Kbps	55.2 Kbps
G.726 (24 Kbps)	15 Bytes	5 ms			20 ms	50	42.8 Kbps	27.6 Kbps	47.2 Kbps
G.728 (16 Kbps)	10 Bytes	5 ms	3.61	60 Bytes	30 ms	33.3	28.5 Kbps	18.4 Kbps	31.5 Kbps
G722_64k (64 Kbps)	80 Bytes	10 ms	4.13	160 Bytes	20 ms	50	82.8 Kbps	67.6 Kbps	87.2 Kbps