

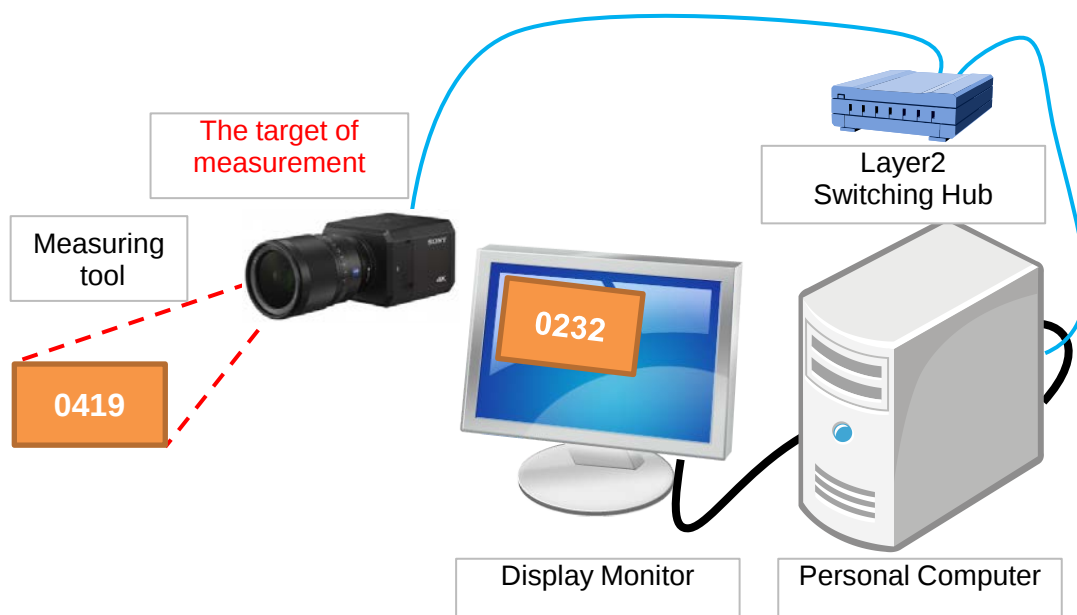
About this document

This document describes “video latency” which occurs when Sony network camera is used for shooting a subject. Numerical values shown in this document are based on actual measured values in our measurement environment. So we cannot guarantee that the same performance will be achieved in your customer's environment. Please note that performance may also differ according to specification change of software.

Definition of “video latency”

Video latency indicates the time interval between the time when a subject is shot by a network camera and the time when the actually shot image is displayed on a display device. It also contains the time for data to be transmitted via a network, and that for the image to be displayed on a display device as well as the processing times inside the network camera and inside the computer for monitoring.

System configuration



Measuring method

Shoot a measuring tool which reads time, with the target network camera. Using a PC which ActiveX viewer was installed in, display the shot image on the viewer. Video latency is measured by evaluating the time difference between the time actually displayed on the tool and the displayed one on the viewer.

Video Latency for SNC-VB770

Measurement environment:

Personal Computer
Vendor/Model Name: Dell/Optiplex 990
CPU: Intel (R) Core(TM) i7-2600 CPU @ 3.4GHz
Memory: 8GB
Operating System: Microsoft Windows 8.1 Pro 64bit
Browser: Microsoft Internet Explorer 11

Video Adaptor Settings:
Resolution: 3840x2160 Pixels
Colors: 32bit
Refresh Rate: 60Hz

Display device (monitor):
Vendor/Model name: DELL/P2415Q
Maximum Resolution: 3840x2160 Pixels

Network Camera Condition/Settings:
Firmware Version : 56111_00.2016051001
Audio function: OFF
Transmission mode: TCP (HTTP)

		Test conditions							Delay time (ms)			Test results (ms) *Frequency of test performed: 5 times				
Model	Hardware Acceleration	Output Mode	Image size	Codec	Image size	B picture	Frame rate	Image quality (level)/Bit rate(kbps)	MIN	AVERAGE	MAX	1/5	2/5	3/5	4/5	5/5
SNC-VB770	ON	EvidenceShot	Image1	JPEG	5472x3648	-	2.5	5	850	960.00	1060	950	890	850	1060	1050
			Image2	H.264	1440x960	-	5	4000	1540	1588.40	1660	1540	1560	1540	1642	1660
		4K 30fps	Image1	H.264	3840x2160	ON	30	16000	660	690.00	740	680	740	700	660	670
			Image1	H.264	3840x2160	OFF	30	16000	590	622.00	640	620	640	620	640	590
		4K Multi	Image1	H.264	3840x2160	ON	10	16000	1140	1212.00	1270	1200	1190	1270	1260	1140
			Image1	H.264	3840x2160	OFF	10	16000	920	984.00	1050	1050	1010	940	920	1000
			Image2	H.264	1920x1080	-	10	4000	850	890.00	960	870	920	850	960	850
			Image3	H.264	640x360	-	10	512	1050	1086.00	1130	1120	1130	1080	1050	1050
			Image4	H.264	320x180	-	10	512	720	750.00	790	790	720	730	790	720
			Image1	H.264	1920x1080	-	10	4000	760	810.00	830	820	760	820	830	820
		Intelligent Cropping(FHD)	Image2	H.264	1920x1080	-	10	4000	780	798.00	810	780	810	780	810	810
			Image3	H.264	1920x1080	-	10	4000	780	796.00	810	780	790	810	790	810
			Image1	H.264	1920x1080	-	10	4000	740	778.00	810	810	780	740	750	810
		Intelligent Cropping(VGA)	Image2	H.264	640x480	-	10	512	920	976.00	1010	970	1010	920	970	1010
			Image3	H.264	640x480	-	10	512	940	970.00	990	980	940	950	990	990
			Image4	H.264	640x480	-	10	512	900	966.00	1000	1000	1000	930	900	1000
			Image5	H.264	640x480	-	10	512	940	966.00	1010	980	960	940	1010	940
		Full HD	Image1	H.264	1920x1080	-	30	4000	380	396.00	430	380	380	430	410	380
	OFF	EvidenceShot	Image2	H.264	1440x960	-	5	4000	560	638.00	750	750	620	600	660	560
		4K 30fps	Image1	H.264	3840x2160	ON	30	16000	600	670.00	770	640	670	770	670	600
			Image1	H.264	3840x2160	OFF	30	16000	530	582.00	620	610	540	620	530	610
		4K Multi	Image1	H.263	3840x2160	ON	10	16000	1060	1132.00	1160	1160	1060	1150	1140	1150
			Image1	H.263	3840x2160	OFF	10	16000	930	966.00	1000	1000	930	970	960	970
			Image2	H.264	1920x1080	-	10	4000	460	508.00	530	530	490	530	460	530
			Image3	H.264	640x360	-	10	512	420	450.00	460	420	450	460	460	460
			Image4	H.264	320x180	-	10	512	450	466.00	480	480	480	460	450	460
		Intelligent Cropping(FHD)	Image1	H.264	1920x1080	-	10	4000	330	370.00	400	330	400	360	400	360
			Image2	H.264	1920x1080	-	10	4000	390	422.00	450	450	430	390	390	450
			Image3	H.264	1920x1080	-	10	4000	370	430.00	530	530	430	370	390	430
		Intelligent Cropping(VGA)	Image1	H.264	1920x1080	-	10	4000	320	348.00	390	320	320	320	390	390
			Image2	H.264	640x480	-	10	512	330	344.00	350	350	330	350	350	340
			Image3	H.264	640x480	-	10	512	360	380.00	390	390	380	380	390	360
			Image4	H.264	640x480	-	10	512	330	368.00	400	350	390	400	330	370
			Image5	H.264	640x480	-	10	512	360	382.00	400	380	360	380	400	390
		Full HD	Image1	H.264	1920x1080	-	30	4000	350	384.00	420	390	420	390	350	370