Title: Image Quality (Day and Night)
Objective: Verify system is installed using acceptable standards and practices, communicates properly, and meets or exceeds the contract performance specification.
Applicability: Closed Circuit Television (CCTV) System, Video Management Software (VMS)
Notes: 1. If this test is performed on a camera system displaying multiple cameras on the same monitor, then view the video from each camera in full screen mode. 2. Perform all tests on every camera. 3. For pan, tilt, zoom cameras, perform these tests using the default/home positions. 4. In some cases, if acceptable to end user and contract documents, it is appropriate to conduct these tests based on recorded video. 5. In locations where specific weather patterns (such as frequent rain) typically occur, consider performing the same steps from the day/night testing for that weather condition. 6. Nighttime test can be done in either pre-dawn or post-sunset, preferably not during a full moon in order to better test worst-case conditions. 7. Verify that security lighting is operating according to the site's standard operating procedures. 8. Real-time voice communications between the workstation operator and the field technician are required.

Steps	Actions	Expected Results
1.0	**Daytime Video Quality Test**	
1.1	If applicable direct a test subject (person or vehicle) to enter the field of view.	
1.2	Once image is brought to full screen, verify the following:	The video image is clear. Test subject's movement in the video image is smooth, not choppy.
1.3	The video image is in focus.	The video image is sharp, clear and distinct.
1.4	The video image is stable.	The video image does not move or sway.
1.5	The video image has sufficient resolution and quality.	The video image meets the contract performance specifications and is without pixilation, rolling, flickering, discoloration, and glare from light sources.
2.0	**Nighttime Video Quality Test**	
2.1	If applicable direct a test subject (person or vehicle) to enter the field of view.	
2.2	Once image is brought to full screen, verify the following:	The video image is clear. Test subject's movement in the video image is smooth, not choppy. If applicable, the camera has shifted to the correct day/night mode.
2.3	The video image is in focus.	The video image is sharp, clear and distinct.
2.4	The video image is stable.	The video image does not move or sway.

Steps	Actions	Expected Results
2.5	The video image has sufficient resolution and quality.	The video image meets the contract performance specifications and is without pixilation, rolling, flickering, discoloration, and glare from light sources.
3.0	**Video Specifications Validation Test**	
3.1	Open the camera options menu and verify the following settings are set in accordance with the contract requirements:	
3.2	Frame Rate	The camera is recording at the specified frame rate. The frame rate is sufficient for the video to meet its intent.
3.3	Recording Resolution	The camera is being recorded at the resolution required by the contract.
4.0	**Field of View Test**	
4.1	Verify that the camera field of view meets the intent of the camera and satisfies the contract requirements.	Required areas are covered. Video does not show significant dead space (for example: ceilings).
5.0	**Video Loss Detection Test**	
5.1	Disconnect the camera from the video storage device.	The video image goes blank, and the video lost message appears.
5.2	Reconnect the camera to the video storage device.	The video image returns, and the video lost message is no longer present.