

ADDENDUM #1

CITY HALL SECURITY & AUDIO VISUAL UPGRADES - N2M17-69

1. The pre-qualification deadline has been extended from Monday July 10th to Wednesday July 12th.
2. Remove Sections 2.1 and 2.3 and replace with the revised versions below.

PART 2 - PRODUCTS

2.1 CAMERA TECHNICAL PERFORMANCE SPECIFICATIONS

- A. Camera Type "A" – IP Compatible Ceiling/Wall Mount Fixed Dome, Interior, Color / BW Operation 2MP (1080P) resolution:
1. Shall have 1/2.7 progressive CMOS sensor
 2. Shall be housed in a vandal-resistant aluminum alloy enclosure
 3. Shall be capable of providing at least 2 independently configurable streams at a minimum of 12 FPS each in either h.264 or mjpeg
 4. Shall provide a minimum of 1080P resolution
 5. Shall have a minimum illumination level of .5 lux color
 6. Shall not have proprietary encoding and shall be compatible with the proposed DVRMS solution
 7. Shall be UL listed for the intended purpose
 8. Shall have WDR as a feature
 9. Shall have an RJ45 connection
 10. Shall have an auto-iris lens
 11. Lens shall be vari-focal with a minimum 3-6MM range
 12. Shall have automatic gain control
 13. Shall have auto-white balance mode
 14. Shall meet ONVIF Profile S
 15. Shall be capable of the following network protection methods as a minimum: HTTPS / IP Filter / IEEE 802.1x
 16. Shall have the following network interfaces - IEEE 802.3 and IETF standards: 10/100 Base-T Ethernet, IPv4/IPv6, TCP, UDP, RTP, RTSP, ICMP, IGMP, SNMP, HTTP, HTTPS, SSH, PPPoE, uPnP, QoS, DHCP
 17. Shall have user configurable bit-rate
- B. Camera Type "B" – IP Compatible Ceiling Mount Fixed Dome, Interior/Exterior, Color / BW Operation, minimum 4MP Resolution:
1. Shall have 1/3 progressive CMOS sensor
 2. Shall be housed in a vandal-resistant aluminum alloy enclosure
 3. Shall be rated for exterior use
 4. Shall be capable of providing at least 2 independently configurable streams at a minimum of 12 FPS each in either h.264 or MJPEG
 5. Shall provide a minimum of 4MP resolution
 6. Shall have a minimum illumination level of .1 lux color, .01 B/W
 7. Shall not have proprietary encoding and shall be compatible with the proposed DVRMS solution
 8. Shall be capable of 2-way audio over the network
 9. Shall have trip-wire analytics
 10. Shall be UL listed for the intended purpose
 11. Shall have WDR as a feature
 12. Shall have an RJ45 connection
 13. Shall have an auto-iris lens

Alhambra City Hall Access Control & CCTV Project

14. Lens shall be vari-focal with a minimum 3-6MM range
15. Shall have automatic gain control
16. Shall have auto-white balance mode
17. Shall meet ONVIF Profile S
18. Shall be capable of the following network protection methods as a minimum: HTTPS / IP Filter / IEEE 802.1x
19. Shall have the following network interfaces - IEEE 802.3 and IETF standards: 10/100 Base-T Ethernet, IPv4/IPv6, TCP, UDP, RTP, RTSP, ICMP, IGMP, SNMP, HTTP, HTTPS, SSH, PPPoE, uPnP, QoS, DHCP
20. Shall have user configurable bit-rate
21. Microphone and Speaker utilized for 2-Way communication between monitoring authorities and camera location shall be any common off the shelf equipment regularly utilized for 2-way IP communications and compatible with the proposed system

2.3 Digital Video Management and Recording System (DVRMS)

- A. The DVRMS shall provide storage as follows: 12 FPS retained for a period of 30 calendar days and 1 FPS retained for a period of 365 days.
- B. DVRMS may be a single unit located within the 1st Floor MDF or distributed units linked by the software platform located within the IDF on each floor
- C. The DVRMS shall have the capability of recording video and audio streams directly from IP cameras and/or encoders at the cameras maximum resolution. The streams may originate from any devices or devices complying with the ONVIF standard.
- D. The DVRMS shall provide the function of recording video and audio streams from cameras and/or encoders for those devices that are supported.
- E. The DVRMS shall be codec agnostic and support a number of standard codecs
- F. The DVRMS shall provide the function of reviewing video and audio streams on-demand to system workstation(s).
- G. The DVRMS shall provide the function of storing alarms generated by any supported device on the system, including panic / duress buttons
- H. The DVRMS shall provide the function of notifying workstations on the system of any alarms. Workstations provided by the Owner. Contractor shall provide workstation performance and configuration requirements to the Owner.
- I. The DVRMS shall support the function of indexing recordings for rapid display of time, alarm or motion based thumbnails
- J. The DVRMS shall provide the function of notifying Recording and logging of bookmarks in association with recordings
- K. The DVRMS shall support recording and playback of motion analysis data from supported cameras
- L. The DVRMS shall have a policy-based management option to control space and/or time-based reaping of old recordings as well as having the ability to ignore the reaping of protected recordings.
- M. The DVRMS shall have the option to digitally sign recordings at the moment of recording and automatically verify this signature on export.
- N. The DVRMS shall have the option of a Linux or a Windows operating system.
- O. The DVRMS shall provide self-diagnostics including: Disk status, CPU usage, motherboard temperature, network status, fan status.

2.01 Transmission

- A. The DVRMS shall have 4 RJ-45 connectors and comply with IEEE802.3 and IETF standards: 10/1000 Base-T Ethernet.
- B. The DVRMS shall support a maximum video throughput of 500Mb/s (for details see table below).

- C. The DVRMS shall support the following network protocols: TCP, UDP, IGMP, SNMP, HTTP, IGMP, SNMP, HTTP, NTP, Telnet, FTP.

2.02 Electrical

- A. The operating voltage: shall be 100-240V, ~ 50/60Hz, with a maximum current of 1A.
- B. The principal power supply shall be internal with an external IAC connection
- C. The DVRMS shall have an option for redundant internal power supply
- D. Power consumption shall be:
 - 1. 1U (Linux)- 250W maximum
 - 2. 1U (Windows)- 350W maximum
 - 3. 2U (Windows and Linux)- 750W maximum

2.03 Environmental

- A. The operating temperature shall be 10°C (50°F) to 35°C (95°F)
- B. The storage temperature shall be -40°C (-40°F) to +65°C (149°F)

2.04 Regulatory

- A. EN 55022:2006 + A1:2007
- B. EN61000-3-2 Mains Harmonics – Class A
- C. EN61000-3-3 Voltage Fluctuation
- D. EN55024 ITE immunity standard
- E. UL 60950-1, Information Technology Equipment
- F. IEC 60950-1:2005 Ed2
- G. CISPR 22:2005 + A1:2005
- H. CISPR 24:1997 (modified)+A1:2001 + A2:2002

2.05 Storage

- A. The DVRMS shall utilise nearline SATA drives
- B. The DVRMS shall support up to 16 drives
- C. The drives shall have a 3-year warranty independent of the DVRMS
- D. The DVRMS shall support 2, 3, 4, 6 and 8TB drives
- E. The DVRMS shall have options for RAID5 & 6
- F. The DVRMS shall support a maximum of 200 recorded streams and 20 playback streams with a maximum playback bitrate of 400Mb/s
- G. The DVRMS shall have the additional specifications depending on variant:

	Available Storage (GB)	Max. Recording Streams with Digital water Marking	Max Recording Bitrate (Mbps)	Max Recording Bitrate with digital watermarking (Mbps)
RA6TB Raid 5	6TB	100	128	128
RA9TB Raid 5	9TB	100	128	128
RA12TB Raid 5	12TB	100	128	128
RA18TB Raid 5	18TB	100	128	128
RA24TB Raid 5	24TB	100	128	128
RA24TB Raid 6	24TB	200	500	500
RA40TB Raid 6	40TB	200	500	500
RA60TB Raid 6	60TB	200	500	500
RA80TB Raid 6	80TB	200	500	500