

(قرار وزاري رقم 5003 لسنة 2015)

بشأن: المواصفات الفنية لكاميرات وأجهزة المراقبة الأمنية

نائب رئيس مجلس الوزراء ووزير الداخلية

- بعد الاطلاع على قانون الجزاء الصادر بالقانون رقم 16 لسنة 1960 وتعديلاته.
- وعلى قانون الاجراءات والمحاکمات الجزائية الصادر بالقانون رقم 17 لسنة 1960 وتعديلاته.
- وعلى القانون رقم 23 لسنة 1968 بشأن نظام قوة الشرطة وتعديلاته.
- وعلى القانون رقم 111 لسنة 2013 في شأن تراخيص المحلات التجارية.
- وعلى القانون رقم 37 لسنة 2014 بإنشاء هيئة تنظيم الاتصالات وتقنية المعلومات.
- وعلى القانون رقم 61 لسنة 2015 في شأن تنظيم وتركيب كاميرات وأجهزة المراقبة الأمنية.
- وعلى القانون رقم 63 لسنة 2015 في شأن مكافحة جرائم تقنية المعلومات.
- وعلى القرار الوزاري رقم 2411 لسنة 2008 بشأن الهيكل والدليل التنظيمي لوزارة الداخلية وتعديلاته.
- وعلى القرار الوزاري رقم 3057 لسنة 2015 بشأن تحديد الجهة المختصة.
- وعلى كتاب وكيل الوزارة المساعد لشؤون العمليات (رئيس اللجنة الفنية) المشكلة بالقرار رقم (2015/2481) رقم (11/6811) المؤرخ 2015/11/12 ومرفقاته.
- وبناء على عرض وكيل الوزارة .

قرر

مادة (1) :

يعمل بالمواصفات الفنية لكاميرات وأجهزة المراقبة الأمنية ، المرافقة لهذا القرار .

مادة (2) :

تحدد الجهة المختصة في وزارة الداخلية أماكن ونقاط وضع كاميرات وأجهزة المراقبة الأمنية وعددها .

مادة (3) :

يتعين على مالكي المنشآت والمسؤولين عن إدارتها اتخاذ ما يلزم

حيال صيانة كاميرات وأجهزة المراقبة الأمنية وتحديثها ، بصفة دورية ومستمرة ، لضمان حسن أدائها لأغراضها ، واستمرارية مطابقتها للمواصفات الفنية .

مادة (4) :

على وكيل الوزارة تنفيذ هذا القرار ويعمل به اعتباراً من تاريخ نشره في الجريدة الرسمية .

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## **Technical specification for CCTV system:**

### **1- Indoor Fixed Full HD Cameras**

1. The camera shall be 3MP @ 20fps Resolution and be 2MP @ 25 fps resolution for advances picture quality supporting H.264 @ 25fps.
2. Dual-codec: H.264 & MJPEG formats (configurable for each stream)
3. The camera shall have 3MP CMOS Progressive Scan Image Sensor for high quality image quality and low noise for surveillance.
4. Vari-Focal lens (2.7 – 12 mm) shall be provided as per site condition.
5. Wide Dynamic Range up to 120dB
6. Noise Reduction for clear image in low light environment
7. Day & Night with True Night Function and IR Cut Filter
8. Privacy Masking and Motion Detection
9. It shall be possible to program the camera to output a variety of lower resolution images
10. The camera shall have Auto Gain control, White balance mode, Back Light Compensation.
11. The cameras shall be equipped with a 100 Mbps LAN connector
12. The camera shall compliance with ONVIF
13. The camera's primary power source shall be Power over Ethernet
14. Housing dome type with optional wall mount bracket
15. IR LED built-in with illumination distance minimum 20 meters and to see in complete darkness.

## 2- Outdoor Fixed Full HD Cameras

1. The camera shall be 3MP @ 20fps Resolution and be 2MP @ 25 fps resolution for advanced picture quality supporting H.264 @ 25fps.
2. The camera shall support Dual streaming capability.
3. Dual-codec: H.264 & MJPEG formats (configurable for each stream)
4. The camera shall have 3MP CMOS Progressive Scan Image Sensor for high quality image quality.
5. Vari-Focal lens (2.7 – 12 mm) shall be provided as per site condition.
6. Wide Dynamic Range up to 120 dB
7. Day & Night with True Night Function and IR Cut Filter
8. The Camera shall have image enhancement feature.
9. The camera shall have auto gain control and White balance mode.
10. The cameras shall be equipped with a 100 Mbps LAN connector
11. The camera shall comply with ONVIF
12. The camera's primary power source shall be Power over Ethernet
13. Outdoor weatherproof housing shall be provided with minimum spec as :
  - IP66 rating, waterproof, with easy camera servicing
  - IR LED (built in or separate) with illumination distance minimum 30 meters and weather proof (IP 66) rating to see in complete darkness.

3- In/Out door 2 MP -Auto Speed Dome Camera.

1. IP Day/Night, 2.0MP
2. Resolution 2MP @ 25 FPS
3. CMOS Progressive Scan Sensor
4. Pan 360<sup>0</sup> continuous rotation
5. H.264/MJPEG, configurable Dual Stream Encoder
6. 2.0MP with 30X ( 4.3 to 129mm) Optical,10x Digital Zoom
7. Low Light with IR Cut Filter and Wide Dynamic Range
8. 10/100 Mbps Ethernet Compatible; RJ-45 LAN Port
9. Supports RTP/RTSP Unicast/Multicast
10. Variable Bit Rate and Constant Bit Rate
11. PTZ Data RS-422,
12. OSD Display of Camera ID, PTZ Coordinates
13. IR LEDs Distance: minimum 100m
14. Bracket / Pole Concealed cable entry within the bracket / pole
15. The camera shall comply with ONVIF
16. For Outdoor camera : shall have Outdoor weather proof dome housing (IP 66) rating

#### 4-Video Management software

Complete Video Management system (Hardware & Software) shall be compatible with each other.

1. System shall be open IP based platform for video managing, streaming, transmission, switching and recording.
2. Video Management system shall be modular system for surveillance application containing video streams, transmission, switches, recording and video management.
3. Management and control of unlimited video streams across the network
4. Integration to Gigabit Ethernet backbone to provide multicasting and quality of service.
5. Network design to allow for dynamic bandwidth control between network nodes and system resilience and redundancy.
6. Decoding of the video streams and still pictures to the internet.
7. Remote real time monitoring control for diagnostics and maintenance
8. The Intuitive GUI shall allow user to show only the dialogs preferred or needed or surveillance tasks or hide them all for a pure full screen mode of viewing if desired.
9. The software shall offer new innovative combination of tools for improving the user's expansion and efficiency on the job, which translate to more rapid response and better security.
10. Public/Private video switching – In Public mode video shall be available for all user having access rights to the camera, In private mode video is available for users having the access right to both the camera and the camera current position. This is very important for viewing the areas not to be seen by all operators.

## 5-Server / Network Video Recorder With Storage System

- 1. All the Cameras shall be recorded for minimum 120 days @ maximum Resolution @ 15 fps @ 50% motion**
- 2. High performance Dual Core Microprocessor.**
- 3. Synchronized playback of multiple recording**
- 4. Storage browser presents recording and associated alarms on a time line**
- 5. Global view of multiple recorders in the network**
- 6. Single Click snapshot for visual verification, printing and sending**
- 7. Search criteria such as Camera, Location, time, alarm etc.**
- 8. The video archive exported from the recorder should be in multiple formats like avi, mov, mkv etc.**
- 9. The maximum number of cameras connected to each NVR/ server shall not exceed 64 cameras with 3MP resolution for each camera.**
- 10. The video should be played by general open standard video players.**
- 11. Support alarm and event triggered recording.**
- 12. Possibility to check the validity and authentication of the exported material. (This is used to proof that the recording is original and not tempered in case of any criminal activity and for the law of court).**
- 13. The storage system should support data access over minimum 10 Gigabit Ethernet.**
- 14. A Central Management Server Appliance shall manage the Storage System with Server and Client Software capable of receiving Video Alarms.**
- 15. System shall provide the highest level of reliability & availability to the video surveillance application with 99.9% availability**
- 16. The system must have interface development, without any secondary software or hardware.**
- 17. The storage system must provide the ability to change the protection settings on the fly while in production with no downtime.**
- 18. System must be able to delete or rename permission settings, which cannot be changed on the client computer's operating system.**
- 19. The system must be able to change available space of each directory in the same namespace within the system, without any downtime and cannot be changed on the client computer's operating system.**
- 20. Must have an automatic alarm system to notify the administrator of the system health status anytime by either Email or SMS Text.**

## 6-Full HD CCTV Monitors

1. The monitor should be a high resolution LCD/LED Monitors.
2. Monitor shall be for the use of 24/7.
3. Monitor Size minimum 24"

## 7-Client Workstation

1. Specifications for Client Workstation Hardware shall be according to CCTV System Manufacturer
2. Ability to present and control system component from a geographical map (GIS)
3. The Client Operation Terminal shall have facility to connect CCTV Keyboard
4. The Client PC workstation shall include the Joystick for the easy operation for the Operator
5. Camera position presentation on the Graphical map.
6. PTZ camera control: virtual joystick, computer keyboard and from GIS map (for cameras with PTZ feedback). Also possibility to connect traditional CCTV keyboard and/or USB joystick.
7. PTZ Camera presets: possibility to use cameras own presets, virtual presets (both global virtual presets available for all users and user specific local virtual presets).
8. ISO/IEC complaint MPEG2-4, H.264 video decoding
9. Password protected access based on user rights
10. Drag and Drop function for moving component in system hierarchy
11. Export material to DVD format, which can be played with standard DVD player.
12. Support Multiple IP video devices from multiple manufacturers.
13. Snapshot of recorded material.

## 8-Gigabit Ethernet switches

1. the system shall have core switch for networking connection design
2. Edge switch shall be minimum one Gigabit and it can be 8/12/16/24 port as per the design
3. Minimum 10 Gigabit Ethernet uplinks for control room if the system include 50 cameras or more
4. The system shall be fully integrated with any control room equipment
5. The control room will be determined by the specialized department.

## 9-Security Control Room

### **Console**

1. The control console allows the staff to monitor the video pictures from CCTV System and Intrusion Alarm signals (24/7).
2. All equipment except keyboards and monitors / display screens, shall be rack mounted in consoles
3. Modules shall be provided with quick disconnect features and features which permit the withdrawal of the item without removing the item from service.
4. Individual elements shall be self-supported when partially removed from the console so that trouble shooting and repair can be accomplished with the units connected into their corresponding circuits

## 10-Interruptible power supply (UPS)

1. The complete security system receives Power from MEW source / emergency power supply of the project site.
2. All the Power to the Security system shall be powered from the UPS with (1/2) Hour Battery backup + minimum 30% spare capacity.
3. In case of failure of MEW, power source the UPS shall provide power to the security equipment for the complete security system without interruption until the generator has start up and provides a stable voltage.



## 11-Environmental Specification

1- As the whole system is exposed to the outdoor climate, the system should comply with the following environmental specification to withstand its operation in Kuwait climatic conditions.

2- Operating Temperature Range:

3- Outdoor Components  $-5^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$

4- Indoor Components  $0^{\circ}\text{C}$  to  $+40^{\circ}\text{C}$

5- Humidity Operating :

10% to 95%, Non- Condensing