

Preventative Systems Manual

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Chapter -1 Security Requirements and General Technical Specifications

Section -1 – Video Surveillance Systems

1. General Specifications

1.1. VSS Cameras:

1. Must be colored.
2. Must be visible and not hidden. SIRA approval is required for hidden/covert cameras.
3. Cameras must be intended for security applications only and are manufactured to work for extended periods without interruption.
4. Outdoor cameras, the housing must be of at least IP66 rating, or cameras can be contained in special housings not less than IP66 rating and should be suited to the Gulf region environment, i.e. high temperatures, humidity and dust.
5. It is required that any camera facing a natural or artificial light source, whether directly or reflected from polished surfaces, must be a Wide Dynamic Range (WDR) camera, with at least 110 dB gain ratio, or the equivalent.
6. Auto Iris must be used for sites where there are changing lights conditions.
7. IR Cut Filter is required with the ability to self-switch to monochrome night imaging when the visible light disappears.
8. Cameras installed at height of 4 meters and above must have remote zoom and focus ability.
9. Cameras fitted with audio facilities (microphone) are prohibited and cannot be used unless permission obtained from SIRA.

1.2. VSS Recording Devices:

1. Only digital recording devices are to be used.

2. They must be able to do the three basic functions simultaneously: (1) Live viewing; (2) Recording; and (3) Playback with the performance of any of these functions is neither impaired nor adversely affected.
3. The number of frames per second for the live view must be at least 25 FPS per camera.
4. Copy feature must be provided for some or all of the recorded clips and for any required period whether for one camera, or a set of or for all cameras connected to a recording device, with ability to convert them into standard storage media format, enabling playback using a standard player.
5. The maximum period for transmission of the recorded video to the standard medium must be ratio of 1/10 of the time of displaying the same recording at the normal speed.
6. Effective and efficient search tools must be provided to quickly and simply access-desired clips, including the search through the compound selection for both date and time specifying the cameras included in the search. Search results for all cameras included in the search are displayed simultaneously. Fast and slow viewing, with progressive and reverse time directions, must be provided.
7. Continuous and non-continuous recording must be provided (non-continuous recording is associated with a specific event such as detection of motion or a signal from an external device such as intruder alarm sensors). In the case of non-continuous recording VMD, the device must be able to record at least ten (10) seconds prior to the event, applicable to all cameras connected to the recording device can be operated on individual cameras.
8. The minimum recording setting VMD recording at a rate of not less than 70% of the day per camera, not less than 10 frames per second for each camera and not less than 31 days.
9. The recording devices must be computed with 20% extra capacity.
10. The device must accept the addition of external storage devices for increasing the total storage capacity.
11. The device must be able to display the name of the camera and the real time and date clearly and without affecting the camera view. (The system should preferably accept Arabic lettering). The camera position name should be clearly indicating the name of the location with no vague or ambiguous use of symbols.

12. The device must have effective feature of automatic self-recording when it shuts down, for whatever reason (mistake, servicing, maintenance, system fault etc); so, when restarting the device after shutdown no recording is lost.
13. Only variable bit rate must be enabled. Fixed bit rate is not accepted.
14. Software Development Kit (SDK) must be made available and to be provided to SIRA upon request.
15. It must be compatible with ONVIF 2.0 standards.
16. It must support live viewing through the Real Time Streaming Protocol (RTSP).
17. It must support the Central Time feature (Network Time Protocol (NTP)).
18. It must support the feature of sending an alarm in case of storage disk failure.
19. It must support a warning feature if the hard drive is full and overwriting the data feature is not activated.
20. It must support sending a status notification when recording is turned On and Off.
21. It must support sending a status notification of changes in the recording schedule.
22. It must support sending a warning notification in case of the interruption or malfunction of the VSS camera.
23. It must support sending a status notification of a user login to the device with identification of the user.
24. It must support sending a pulse signal that the device is running.
25. It must be able to recognize and store on a storage media compatible with the operating system (Windows), with its various capacities.
26. Recording files must be in standard formats that can be viewed directly on the multimedia player software available in Windows operating system.
27. In the case of recording file formats for the system or factory settings or that are encrypted or non-standard, software for viewing them must be offered on standard Windows operating system.

1.3. Monitors:

1. At least two monitors must be available to each security systems operator, the size of each must not be less than 21 inches.
2. Wall monitors must be provided in the Control rooms. The number of monitors required for displaying cameras' imaging must be calculated with taking into account critical and normal cameras in accordance with Part 2 (Monitors Specifications) of this document.
3. Monitors must be specific to surveillance and not television screens.
4. All monitors must be of high operational specifications to be suitable for continuous operations without interruptions for a period not less than three years.

1.4. Connectors:

1. All connections must be kept safe and away from tampering, manipulation or unauthorized connection.
2. High and good quality cables and connectors must be used.
3. The good appearance of the connection should be taken into account and visible wiring and connections should be avoided whenever possible.
4. The protection of wiring, plastic pipes to be used for indoor connections and metal pipes specially designed for outdoors to be used.
5. The connections must be numbered, named and labelled at all ends of the wires.
6. All plans, drawings, charts, designs, devices, schedules, names tables, and wiring schedules must match the devices that are actually installed.
7. It is prohibited to use wireless communications except with the prior written approval from SIRA.
8. International engineering Standards and conditions must be followed with regards the extension, installation, numbering and management of connections.

1.5. Network:

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1. An independent private network dedicated only to security systems must be established and installed.
2. The network must have the characteristics of sustainability and abundance to avoid single main breakpoints that are irreplaceable. NOTE Does this mean – “The network should be designed to avoid any single points of failure.”
3. The main connection of the network (backbone) must have a secondary backup line to act as replacement if and when it stops or cut off.
4. The network supporting more than 200 devices must be equipped with a network management system NMS, provided that this system must include all means of monitoring the network, identifying the interruptions and self-reporting them.
5. The network should be divided into segments and clusters if the number of networked devices exceeds 200 devices to avoid the formation of a big flat network.
6. The network must be compatible with both IPv4 and IPv6, the existing standard IP and management systems.
7. The network devices must be computed with 20% extra capacity.

1.6. Power Supply:

1. Security systems must be powered by Uninterruptible Power Supply (UPS) devices, so that the systems can operate on their own when main power cut occurs for minimum period of 30 minutes.
2. All recording devices in VSS systems must be connected to UPS devices. The connection of the rest of the VSS devices to the UPS devices is detailed in the relevant annexes.
3. The recording devices and UPS devices must be integrated so that UPS devices can signal for safe shut down once the remainder of the UPS power supply batteries reaches 25% of the total charge.

1.7. Control and Management:

1. Video management system (VMS) software must be provided in any VSS system with 64 or more connected cameras or 4 or more recording devices.
2. Control security features must be provided through passwords and with different rights levels.
3. Control workstations must be designed and dedicated to these tasks only.
4. When it is necessary to integrate different systems with security systems (such as the integration of VSS with access control, alarms and BMS), Physical Security Information Management (PSIM) should be used after obtaining the prior written approval from SIRA.

2. Analogue Systems Specifications:

2.1. Cameras:

1. Must be coloured.
2. The resolution of cameras must not be less than Full HD1080p on the analogue system.
3. Its colour scheme must be compatible with the PAL colour scheme adopted in the UAE.
4. The signal-to-noise ratio must not be less than 48 dB.

2.2. Recording Devices:

1. The recording accuracy should not be less than Full HD1080p.
2. The live streaming resolution should not be less than Full HD 1080p in single-display mode on a single monitor, and at least 2CIF for each camera in multi-display mode.
3. The recording device should have a connection to digital information networks.
4. Only variable bit rate must be enabled. Fixed bit rate is not accepted.
5. The recording devices must be computed with 20% extra capacity.

2.3. Monitors:

1. The resolution of monitors must be at least a Full HD1080p and must have PAL colour system.
2. Aspect ratio should be taken into consideration for the images and scenes displayed so that they match. Images and scenes with a 4:3 ratios must be displayed on a monitor with the same 4:3 aspect ratio. The same also applies to images and scenes with 16:9 ratio and other standard ratios. In addition, images and scenes must be displayed on monitors that have similar aspect ratios

2.4. Connectors:

1. When using coaxial cables to transmit the analogue signal to the VSS cameras, these cables must be 75 Ohm in impedance (such as RG59, RG6, RG11) and must be completely made of copper.
2. When using coaxial cables to transmit the analogue signal from VSS cameras, termination connectors must be 75 Ohm impedance and must be high quality Crimping Type BNC.
3. When using Twisted Pairs to transmit the balanced signal or to transmit the control signal to the PTZ cameras through the serial port, they must be made of copper and not less than CAT 6.

2.5. Network:

1. When connecting to a digital network for any reason, the network recommendations and requirements as detailed in (Section 1.5 page 9) must be taken into consideration.
2. The network storage recording devices must be computed with 20% extra capacity.

2.6. Control and Management:

1. Video management system (VMS) software must be provided in any VSS analogue system with 64 or more connected cameras or 4 or more recording devices.
2. Control of PTZ cameras through serial ports is achieved through serial ports RS-232, RS-422, RS-485, with compatibility with all analogue devices and equipment associated with this serial analogue network.

3. Digital Systems Specifications:

3.1. Cameras:

1. They must be coloured.
2. The resolution of cameras must not be less than Full HD1080p.
3. Variable bit rate must be activated. Fixed bit rate must not be used or activated, without maximum speed limits
4. They must be compatible with all standard security systems management software operating in the market or capable of linking directly with well-known standard systems.
5. The signal-to-noise ratio must not be less than 48 dB.

3.2. Recording Devices:

1. The recording accuracy should not be less than Full HD 1080p.
2. The live streaming resolution should not be less than Full HD 1080p in single-display mode on a single monitor, and at least 2CIF for each camera in multi-display mode.
3. The recording devices must be computed with 20% extra capacity.

3.3. Monitors:

1. The resolution of monitors must be at least Full HD 1080p.

3.4. Connectors:

1. Where twisted pairs are used without interfering with the interconnection system, the quality of Twisted Pairs used should contain the minimum high-quality copper known as CAT 6. (Aluminium-coated copper cables) and (Copper-coated steel cables) are not allowed.
2. Range extenders may be used only if the image quality and signal are not adversely affected.

3. All system connections must be secured against tampering or accidental interruptions.

3.5. Network:

1. Any method of connection to the network infrastructure (Topology) can be used in accordance with the technical design and the security systems requirements. the network recommendations and requirements as detailed in (Section 5.1 page 9) must be taken into consideration.
2. The Network storage devices must be computed with 20% extra capacity.

Section- 2 General Specifications:

1. Access Control Systems:

1. They should be integradable with all fire alarm systems adopted by the Civil Defense.
2. They should be central.
3. They should be able to deal with analogue and digital systems.

1.1. Lock Mechanisms:

1. Lock mechanisms should open automatically in an emergency. The use of electromagnetic or electromechanical locks is allowed.
2. They should be self-locking in an emergency. Only electromechanical locks may be used if installed on the following doors:
 - Cash and Precious items Safes;
 - Safes containing hazardous substances;
 - Safes containing narcotic and specialized substances;
 - Arms and ammunition safes;
 - Detention and restraint sites;

3. Any place that uses self-locking locks in emergencies and it is possible that people will operate it. The lock should have a manual opening function in case of emergency and this feature should be limited to the protected area of the lock.

1.2. Identification Devices:

1. All of the following identification methods are acceptable:
 - PIN Number panel;
 - Electronic identification such as online and offline ID cards;
 - Biometric Readers provided that they are fingerprint readers, retina scanners or vascular network reader. No other readers may be used without prior written consent of SIRA.
2. It is not acceptable to rely on the secret password/code alone.
3. Wireless identification devices must not be relied on.

1.3. Connectors:

1. Wireless connections may not be used without the consent of SIRA.
2. Aluminium-coated copper cables and copper-coated steel cables are not allowed.
3. All internal connections of the system must be secured against tampering or damage.
4. All cables must be hidden or routed in electrical containment (plastic internally, galvanized metal externally).
5. All cables must be numbered, labelled and specified on both ends. All system plans, charts, and schedules must be consistent with what is already installed.
6. All cables and connectors must be installed according to cable-type standards, in accordance with international specifications and standards.

1.4. Control Panel:

- All control panels must be provided with a spare battery that ensures continuity of operation for at least 4 hours if main power failure occurs.
- Systems must be based on IT network connectivity.

- They must be equipped with the ability to save all operations internally when the central controller is disconnected and to complete the data update automatically when the connection is back.

1.5. Management and Control Software:

- It must work on various platforms and operating systems.
- It must maintain entry and exit login details for all connected devices for at least one year.
- The enrolment station must be installed in a secure and safe place.
- It must contain an interactive electronic map of system control.
- Full software development kit (SDK) must be provided for all parts of the access control systems, which enables effective integration with any other systems.

2. Alarm and Intruders Detection Systems

2.1. All parts of the system must be Grade - 3 as a minimum requirement.

2.2. Sensors:

- The sensors field must cover whole protected areas with no uncovered zone that may be penetrated to disable the system.
- Dual motion detector sensors (by infrared and microwave) must be used.
- Vibration detection sensors must be used.
- Drilling detectors must be used.
- Glass break sensors must be used.
- Panic buttons must be provided to the concerned persons, must be easily accessible and hidden.
- Door contacts installed for both normal and fortified doors.

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2.3. Audio-Visual Alarms

- A siren with a loud speaker and strobe light should be installed.
- The siren must be equipped with an additional internal power supply (UPS) that will run for period not less than 8 hours, if the power cable to the control panel is cut.
- The audio-visual alarm to be installed (minimum 110 dBA at 1m distance) so that it is audible and its strobes are visible from outside.

2.4. Connectors

- Connectors must be hard-wired. Wireless connectors of sensors may be used only after obtaining the prior written consent of SIRA.
- Each sensor should be connected to the control panel and alarm in one individual zone.
- All system wires must be extended by dedicated conduits.
- Except for strobe light and sirens, all alarms components to be installed in protected area inside the establishment.
- The entire system must be equipped with an additional internal power supply (UPS) that will run at least 8 hours if power cut occurs.
- Aluminium-coated copper cables and copper-coated steel cables are not allowed.
- All cables must be numbered, labelled and specified on both ends.
- All system plans, charts, and schedules must match with the alarm devices that are installed.
- All inter-connectors must be installed in accordance with international specifications and standards.

2.5. Control and Alarm Panels

- The alarm control panel must be approved by SIRA.
- The control panel must be connected to the central alarm monitoring station.

- Each sensor must be programmed separately on a separate zone, and named according to the installation location.
- They must have the communication devices approved by SIRA.
- They must be connected to the establishment lighting system so that establishment lights come on when alarm is triggered.
- The control panel must be installed in a secure, hidden and not easily accessible.
- The keypad must be installed away from the control panel and near the entry or exit doors.
- The alarm systems have features for triggering in cases of damage, sensors tamper, control panel opened or removed, disconnection, failure in the power supply.
- The time prescribed to disarm the alarm system should not exceed one minute. If a longer period is required, the prior written consent of SIRA must be obtained.
- The number of wrong attempts to disarm system should not exceed (3) successive attempts.
- The Keyholder must arm the alarm system after the end of working day in case of building evacuation.
- The Keyholder must immediately respond to the police call, by attending the site, upon receiving any notification of alarm activation.

Section- 3

1. Operational Requirements:

Image Operational Requirements

1.1. Definitions

- **Camera view:** the view captured by the camera and displayed on the monitor
- **Target measure:** the body view at scale height of 1.6 meters as represented by a human body or a standard test target.

- **Pixel density:** The calculation of the number of pixels per meter at the target
- **Number plate view:** The view of the plate number of a vehicle with a size of 330 x 160 mm.

1.2. Inspection:

It is used to study the face expressions of the persons (Target), the face must be the important section of the image the face of people (targets). The image size of the target must not be less than 400% and the pixel density should not be less than 1000 pixels per meter. The size of the target image is proportional to the resolution of the imaging used as follows:

- Full HD 1080p: 400%
- It is required to install the camera exactly at front of the object (target) so that the center of the image is the spot between the eyes of the " target measure", which has a height rate of 1.6 meters. The camera can be installed at a horizontal angle not exceeding 10 degrees to the right or left and a vertical angle not exceeding 10 degrees above or below the horizon line.

1.3. Identification:

It is used to identify the persons (targets) that are not previously identified as they enter the establishment. Target face must be the most important part of the image. The size of the target image must not be less than **120%** of the display size on the monitor. In exceptional cases, and with the approval of SIRA, the pixel density of the image should not be less than **300 pixels** per meter.

- It is required to install the camera exactly at front of the person (target). The camera can be installed at a horizontal angle not exceeding 45 degrees to the right or left and at vertical angle not exceeding 20 degrees above or below the horizon line.
- The wide dynamic range (WDR) is also required feature in these cameras, which is used for identification regardless of the location in which the cameras are installed. WDR ratio should not be less than 110 dB.

1.4. Recognition:

It is used to recognize and follow the persons (targets) that are previously identified. That is why the whole body and the surrounding area must be the most important part of the image. The size of the target image must not be less than **50%** of the display size on the monitor. In exceptional cases, and with the approval of SIRA, the pixel density of the image should not be less than **125 pixels** per meter. The camera should be installed to monitor a 1.6-meter "standard target" from any left or right angle and a vertical angle not exceeding 45 degrees above the horizon line unless otherwise specified by SIRA.

1.5. Observation:

It is used to control and guide crowds, gatherings and observe public events of people. That is why the whole body and the surrounding area must be the most important part of the image. The size of the target image must not be less than **25%** of the display size on the monitor. In exceptional cases, and with the approval of SIRA, the pixel density of the image should not be less than **63.5** pixels per meter. The camera can be installed to monitor a 1.6 meters "standard target" from any left or right angle and a vertical angle not exceeding 45 degrees above the horizon line unless otherwise specified.

1.6. Detection:

They are used to detect key events such as the nature of movement, direction and overall appearance. That is why the whole body and the surrounding area at an average distance must be the most important part of the image. The size of the target image must not be less than **10%** of the display size on the monitor. In exceptional cases, and with the approval of SIRA, the pixel density of the image should not be less than 25 pixels per meter. The camera can be installed to monitor a 1.6-meter "standard target" from any left or right angle and a vertical angle not exceeding 75 degrees above the horizon line unless otherwise specified.

1.7. Monitoring:

It is used to detect the existence of targets without recognition for early warning purposes. That is why the whole body and the wide and distant surrounding area must be the most important part of the image. The size of the target image must not be less than 5% of the display size on the monitor. In exceptional cases, and with the

approval of SIRA, the pixel density of the image should not be less than 12.5 pixels per meter. The camera can be installed to monitor a 1.6-meter "standard target" from any left or right angle and a vertical angle above the horizon line unless otherwise specified by SIRA.

1.8. Reading Vehicle Number Plates

- Automatic Electronic Methods
- To install the system approved by SIRA.

Visual Methods

1. Visual methods are used to provide a clear image enabling the operator to read the vehicle registration number accurately. That is why the height of the apparent letters and numbers (the target) must be completely displayed on the screen and must not be less than 20% of the display size on the monitor. In exceptional cases, and with the approval of SIRA, the pixel density of the image should not be less than 400 pixels per meter.

2. The camera can be installed for surveillance at an angle not exceeding 30 degrees above the horizon line and a horizontal angle not exceeding 30 degrees unless otherwise specified by SIRA.

2. Monitors Specifications

2.1. General Specifications

- Monitors must be designed for continuous work 24/7 – 365 days.
- The monitor's resolution should not be less than Full HD 1080p.
- The image size of each camera should not be less than 12 x 6.7 cm in the display monitor.
 - Monitors must be provided to display all cameras feeds, except for the establishment that do not require the provision of a control room and where the number of cameras is less than 64 or the number

of recording devices is less than 4, and where one monitor can be provided with a KVM switch.

2.2. Monitors at Workstations

- The monitor should not be less than 21 inches.
- For each workstation, there must be at least 2 monitors.
- The aspect ratio of the display on the monitor must be compatible with the aspect ratio of the capturing view of the camera (4:3, 16:9, 16:10).

2.3. Wall Monitors

- The thickness of the outer frame of wall monitors must not exceed 4 mm.
- Wall monitors must allow the control of the display modes (number of cameras to display).
- Wall monitors must allow the display of data and maps.
- Critical cameras imaging must be displayed in the central area of the full wall monitor continuously, including cameras on entrances, reception, help desks, passenger's drop-off areas, elevator lobby, staircases in the main floors, main lobby and any other cameras deemed as important by the security officer or as per the instructions of SIRA.
- Standard cameras imaging must be displayed in the terminal areas of the full wall monitor in the form of sets of serial cameras, provided that the total cycle time does not exceed 60 seconds and the number of sets does not exceed 6 sets. Then, the serial cycle returns to the first set of cameras. (Definition of "set": A matrix of different cameras arranged to occupy the display space on the monitor).

3. Remote Access Requirement

- The VSS system must be connected to the VideoGuard system.
- Alarm systems and intruders' detection systems must be connected with the central alarm system.

- Electronic registration systems for vehicles' plate numbers must be connected with City Ring System approved by SIRA.

4. Security of the External Perimeter

4.1. Hostile Vehicle Mitigation (HVM)

4.1.1. These are used to control the movement of vehicles and resist breakthrough in Crowded Places They are based on two standards:

- PAS68:2013 Impact test specifications for vehicle security barriers
- PAS69:2013 Guidance for the selection, installation and use of vehicle security barrier systems

4.1.2. In terms of shape, they are of different shapes and patterns designed for this purpose, including:

- Strong fortified fences;
- Bollards;
- Road Blockers;
- Planter Boxes;
- Assets and equipment of road reserve;
- Water basins and fountains,
- Columns, whatever their use.

4.1.3. Landscape elements such as rocks, highlands, dunes and water bodies.

In terms of operation:

- They are a controllable barrier, i.e. barriers that can be temporarily removed (by moving, folding or pulling them out) to allow vehicles to pass through them, and then return them back to their position, either manually or automatically.
- They are fixed barriers, i.e. permanent non-removable barriers.

1. Any security barrier listed in item **4.1.2** above must fulfil the following requirements:

- Controllable barriers: they must have a certificate of compliance with international standards from authorized entities. This certificate must be certified and approved by SIRA according to the regulations in force for

this purpose, taking into consideration the minimum shock resilience required under item 4.1.

- Fixed barriers: they must have a certificate of compliance with international standards from authorized entities. This certificate must be certified and approved by SIRA according to the regulations in force for this purpose. Otherwise, the full engineering calculations under which these barriers are designed and implemented must be provided as issued by a security-engineering consultant, taking into consideration the minimum shock resilience required under item 4.1.
- The prior written consent of SIRA must be obtained about the locations, design and calculation of all types of barriers for each project.

4.2. Classification of Strength for Vehicle Resistance

4.2.1. Light

- Vehicle weight: 1,500 kg
- Vehicle description: Light, 4x2, with 1 rigid axle
- Collision speed: 110 km/h
- Collision angle: 90 degrees
- Breakthrough distance: 1.7 meter

4.2.2. Average

- Vehicle weight: 7,500 kg
- Vehicle description: Average, 4x4, with 2 rigid axles
- Collision speed: 80 km/h
- Collision angle: 90 degrees
- Breakthrough distance: 2 meters

4.2.3. Heavy

- Vehicle weight: 32,000 kg
- Vehicle description: Heavy, 6 x 6, with 4 rigid axles
- Collision speed: 80 km/h
- Collision angle: 90 degrees

- Breakthrough distance: 2.5 meter

4.3. Other Requirements and Controls

4.3.1. Management and Operation

- An official must be present continuously. He should be familiar with the use and operation of the systems and the implementation of all operational processes such as copying, searching, downloading clips and dealing with the parts of the systems efficiently. This official should also be responsible for ensuring that the systems are functioning properly and that any malfunctions are reported promptly according to the established procedure.
- SIRA-approved standard warning banners and signs to indicate that there is VSS surveillance operational and must be placed at all main entrances and inside the elevators.
- A record of each copying process must be provided so that it contains all data related to the copying process, who conducted it, where it was saved, and who received it, according to the approved form.
- The time and date in which all security systems operate must be true, correct and corresponding to reality. All different parts of systems must be synchronized and update the time and date in an automatic manner that is consistent with the relevant systems operating in SIRA.

4.3.2. Security Lighting

- Scenes to provide range of the VSS cameras must be fully visible and have no dark spots.
- Invisible infrared security light may be used in secondary surrounding areas that are not primarily used or where visible light is not sufficient for surveillance by VSS cameras so that the infrared light covers the range of VSS cameras and no infrared light is reflected in the camera.
- The use of security lighting must not result in a negative impact on the safety of others (such as the impact of lighting on drivers' vision).

4.3.3. Image acceptance

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- The image must be clear and can be interpreted and read easily by the observer and straight lines must be recognized without any distortions of the image.
- The image must be stable and should not vibrate even in moderate wind conditions.
- The camera's field of view must be clear and free from obstructions that blocks a part of the image. If the blocking ratio exceeds 5% of the total image area, the image must be considered unacceptable. The center of the image should be free from any blocking or obstructions and the sides of the image must not exceed 5% of the total area of the image.

4.3.4. Maintenance and Sustainability of Security Systems

- All digital recording devices must be installed in secured, clean, and continuously controlled locations. The access to them must be limited to authorized personnel and tampering with them must be prevented. The establishment is fully responsible for providing a sustainable and audited record of entry and exit details and events related to the location where these devices are installed. The establishment is fully responsible for reporting immediately when any incident prevents the functioning of the security systems. SIRA must be notified by e-mail and the registered maintenance company must be notified by such means of communication as agreed upon in the official maintenance contract registered at SIRA.
- All security system connections must be independent and dedicated only to the security systems. These connections may not be part of an external network or may be connected to only if the connection is for integration purposes (with other relevant security systems). If so, a firewall must be provided to secure it after obtaining a prior written consent from SIRA.
- All active parts of the IT network that serve the security systems must be installed in secure, clean locations. Access to them must be limited to

authorized personnel only and tampering with them must be prevented (whether the main and secondary zoning and distribution rooms or the dedicated shelves). The establishment is fully responsible for providing a sustainable and audited record of entry and exit details and events related to the location where these devices are installed. The establishment is fully responsible for reporting immediately when any incident prevents the functioning of the security systems. SIRA must be notified by e-mail and the registered maintenance company must be notified by such means of communication as agreed upon in the official maintenance contract registered at SIRA.

- All wires and connections must be invisible, contained within containment devices for wires, and they must be extended such as pipes, ducts, buried vessels and others. Wires must not be exposed.
- Power sockets that supply the security systems and their terminals of camera controls and others must be protected from tampering to avoid getting them intentionally turned off by intruders.
- If the building or establishment is likely to be exposed to lightning, security systems must be fully protected against lightning and the charges reflected from ground connections.
- The installation of security equipment and devices must be in secure locations away from tampering, damage or accidents such as objects falling on or colliding with them.
- If the installation conditions require that the security equipment and devices be accessible to standard persons (i.e. persons who are 1.6 meter-tall and not equipped with additional equipment), these security equipment and devices must be equipped with features of protection against tampering and damage (less than 2.5 meters) and with shock resistant features not less than IK10 according to the international standard classification.

4.3.5. Maintenance, Development and Modification of Security Systems

- The establishment must be bound to have an annual maintenance contract with one of the companies registered at SIRA. The contract must include the response program and the legal penalties in case of any breach thereof.

- The establishment will be responsible for notifying SIRA when the execution of the provisions of the maintenance contract fails.
- event
- The user, the establishment and the maintenance and installation service provider must provide a sustainable record and must inform SIRA in the of any action, procedure or event that leads to a complete or partial change, even if it is simple, including without limitation to the following:
 1. The design of security systems;
 2. Specifications or components of the security systems;
 3. Arrangement, definition and programming of the security systems devices;
 4. Maps of the site monitored by the security systems;
 5. The levels of lighting that affect the security systems;
 6. The presence or addition of obstacles impeding the operation of security systems;
 7. Expanding or shrinking the establishment in terms of buildings and spaces, and adding or merging buildings or commercial licenses;
 8. Adding or removing entrances, exits, fences or open areas to public spaces;
 9. Changing activities or business;
 10. The existence of adjacent projects of facilities that have an impact on the security systems.
 11. Any other action not mentioned here but has an impact on the efficiency, comprehensiveness or effectiveness of the security systems.
 12. The entire technical maintenance staff must be registered at SIRA, and the service providers must update the information of their technical staff directly and continuously at SIRA.
- external

4.3.6. Prohibitions

- view
- It is prohibited to use cameras with zoom in and out on places of privacy except after obtaining the approval of SIRA.
 - It is prohibited to use hidden cameras except after obtaining the approval of SIRA.
 - It is prohibited to install external cameras on the roof whose detection exceeds the boundaries of the concerned establishment except after obtaining the approval of SIRA.
 - It is prohibited to install and use cameras with sound capturing feature except after obtaining the approval of SIRA.

4.3.7. Exceptional Cases

- If there are facilities or common premises in an establishment that has more than one activity, the maximum requirements must be applied to them.
- All that is provided for in the Preventative Manual is the minimum specifications and requirements which must be complied with. In no case shall the equipment, installation or implementation be carried out with less than the minimum specifications or requirements. Failure to comply with any of its provisions is not allowed except with written consent of SIRA.
- SIRA may impose any additional security measures, services, study, analysis, evaluation, specifications, requirements, design or modification of security, engineering and architectural designs as required by the security situation and as it deems fit.
- Installation of security equipment and devices must not result in the loss of the features approved by the Civil Defense such as fire-resistant doors or service outlets designated to prevent the spread of flame and fire and other specialized equipment. The Civil Defense vehicles may not be obstructed.
- The maximum standards and requirements are applied to the areas and services that are common to facilities of different activities or uses within a single compound.

4.3.8. Work and Installation Quality

- The appearance should not be distorted by messy security systems. The installation must be carried out to provide standard formal controls in terms of hiding or encasing wires and the use of installation footing specially designed for the installation of security equipment.
- All connectors and wires on both sides must be numbered and marked with standard marks and numbers that are specifically made for this purpose. Safety procedures must be observed. Individuals and properties must not be harmed. Warning and guiding signs must be placed to avoid harming others.

Chapter -2

Special Security Requirements and Technical Specifications

1. Hotels and Similar Facilities

1.1. Hotels and Similar Facilities include:

- a) Five stars hotels;

- b) Four stars hotels;
- c) Three stars hotels;
- d) Two stars hotels;
- e) One star hotels;
- f) Hostels;
- g) Floating hotels;
- h) Resort;
- i) Vacation homes; and
- j) Hotel apartments, including:
 - 1. Luxury
 - 2. Tourist
 - 3. Listed.

1.2. Technical Specifications and Requirements

Fixed coloured cameras must be provided in the following locations:

1. On all entrances to the establishment so that a person's image is to provide identification view.
2. On all reception desks so that a person's image is to provide recognition view.
3. In the elevator lobbies for all floors to provide recognition view.
4. Inside elevators to provide recognition view with an angle that shows the floor number, and using a lens with a wide angle so that it covers all parts of the elevator.
5. On all emergency exit doors on the ground floor and parking lots that lead outside the building to provide identification view.
6. On all emergency exit doors among floors to provide recognition view.
7. At the entrances and exits of the vehicles of the establishment to provide recognition view.
8. On safe and bag deposit rooms to provide recognition view.
9. On all the entrances leading to the bars, discos, nightclubs and the doors of ballrooms to provide identification view.
10. On all entrances to business centres to provide recognition view.
11. Inside the business centre to provide detection view

12. On all discharge and loading areas to provide detection view.
13. On guest's drop-off area to provide detection view.
14. On all the corridors overlooking the rooms to provide detection view.
15. Cameras on ATMs must be installed to provide recognition view.
16. On all outdoor corridors to provide detection view, and all cameras must be with IR to provide night vision.
17. Residential units that have a back entrance overlooking a garden or a terrace; public areas outside the area designated for these units must be covered to provide detection view.
18. On the corridors that have restaurants or shops to provide detection view.
19. On the entrances of restaurants, cafes and shops that have an outside entrance and are to provide boundaries of the establishment to provide identification view.
20. In the pathways of parking lots to provide detection view.
21. In the main lobby area to provide detection view.
22. On the gas tanks storage area to provide recognition view.
23. On the entrance to the electricity room to provide recognition view.
24. In the water tanks room to provide recognition view.
25. On the entrances to the fresh air treatment units of the air conditioning system to provide recognition view.
26. On the fuel tanks of backup generators to provide detection view.

1.3. Automatic car plate number reading cameras approved by SIRA must be installed on entrances of the establishment's vehicles (if there is more than one entrance, the cameras must be installed in the following locations):

1. Entrances and exits of the establishment's vehicles.
 2. Entrances and exits of vehicles' parking lots.
 3. Entrances and exits of passengers' drop-off areas.
1. Digital recording must be kept for at least 31 days for all cameras.
 2. Recording quality and cameras must not be less than 1080P.

3. The recording mode must be set to at least 10 frames per second per camera.
4. The VSS surveillance system must be maintained and managed where there is mobile network coverage.
5. All incoming and outgoing calls should be recorded by the system, including internal calls. The data must be stored for a period of not less than six months.
6. A central monitoring system (VideoGuard) must be installed.
7. Five, four and three star hotels and luxury and tourist hotel apartments must provide the following: -

1.4. Electronic system for entering rooms with the following features:

- a) Log in and out on the lock with at least 3000 actions.
- b) Linking all locks to a central system and keeping records of actions for at least six months.

1.5. An independent, closed VSS surveillance room that is non-exposed from outside must be provided.

- a) Five, four, three-star hotels and luxury and tourist hotel apartments must use only a digital VSS surveillance system.

1.6. Luxury and tourist hotel apartments must fulfil the following requirements:

- a) Providing security guards 24/7.
- b) Providing a security operations manager or security supervisor 24/7.

1.7. The following requirements must be met for the five and four-stars hotels and the hotels specified by the competent department:

- a) A special operations room to control and manage cameras, which is equipped with all means of communication with guards and officials of the hotel, emergency and rescue entities, the ambulance and all means of assistance to manage or control the security system must be provided, with a security systems supervisor.
- b) A security manager must be provided.
- c) A security operations manager or security supervisor must be provided 24/7.
- d) Security guards must be provided 24/7.

- e) The female guards must also be provided.

2. Shopping Centre's

2.1. Shopping Centre's include the following economic activities

- a) Shopping Centre's
b) Shopping malls.

2.2. Technical Specifications and Requirements

Fixed coloured cameras must be installed in the following locations:

1. All entrances to the establishment so that a person's image is to provide identification view.
2. All assistance desks and reception desks so that a person's image is to provide recognition view.
3. In the elevator lobbies to provide recognition view.
4. Inside elevators to provide recognition view with an angle that shows the floor number, and using a lens with a wide angle so that it covers most parts of the elevator.
5. All ATMs, public phones and public phone charging stations to provide recognition view.
6. Landing area of the stairs and escalators to provide recognition view.
7. All emergency exit doors on the ground floor and parking lots that lead outside the building to provide identification view.
8. All emergency exit doors among floors to provide recognition view.
9. At the entrances and exits of vehicles to provide recognition view.
10. Safe and bag deposit rooms and temporary storage service to provide recognition view.
11. Automatic car plate number reading cameras approved by SIRA must be installed on entrances of vehicles (if there is more than one entrance, the cameras must be installed in the following locations):
 - a) Entrances and exits of vehicles;
 - b) Entrances and exits of vehicles' parking lots;
 - c) Entrances and exits of passenger's drop-off areas;
 - d) The entrance and exit of the loading and unloading area.

12. All loading and unloading areas to provide detection view.
13. Guest's drop-off to provide detection view.
14. All corridors (for visitors and service) to provide detection view.
15. In seating areas to provide detection view
16. The corridors of prayer rooms to provide detection view
17. Installing cameras inside men's prayer rooms to provide detection view
18. In the pathways of parking lots to provide detection view.
19. In the main lobby area to provide detection view.
20. In outdoor spaces, performance areas and crowd gathering areas to provide detection view and PTZ cameras to support.
21. Liquefied gas storage area and filling areas to provide recognition view.
22. The entrance to the electricity room to provide recognition view.
23. The entrance to the water tanks room to provide recognition view or on water tanks to provide detection view
24. The entrances to the fresh air treatment units of the air conditioning system to provide recognition view or on the fresh air treatment units of the air conditioning system to provide detection view.
25. The fuel tanks of backup generators to provide detection view.
26. Only the digital system should be used and the quality of the recording and cameras should not be less than 1080P.
27. A central monitoring system (VideoGuard) must be installed.
28. A special operations room to control and manage cameras, which is equipped with all means of communication with guards and officials, emergency and rescue entities, the ambulance and all means of assistance to manage or control the security system must be provided, with a security systems supervisor.
29. A security manager must be provided.
30. A security operations manager or security supervisor must be provided 24/7.
31. Security guards must be provided 24/7.
32. Female guards must also be provided during the official working hours.

2.3. Third: Special Security Requirements:

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1. Passive or active HVM barriers that are approved must be installed in front of the main gates and the areas where guests and visitors gather.
2. Static security guard posts on areas or corridors where shops of gold, jewelry and precious goods are located must be provided.

2.4. Special Cases:

If the establishment is open air, which means that the entrances and the lobby areas are unspecified, the pixel density method can be used after obtaining the approval of SIRA.

3. Recreation Parks

3.1. Recreation parks include the following economic activities

- a) Amusement park
- b) Aqua parks.

3.2. Technical Specifications and Requirements

Fixed coloured cameras must be installed in the following locations:

1. All entrances to the establishment so that a person's image is to provide identification view.
2. All assistance desks and reception desks so that a person's image is to provide recognition view.
3. In the elevator lobbies to provide recognition view.
4. Inside elevators to provide recognition view with an angle that shows the floor number.
5. All ATMs and public phones to provide recognition view.
6. Landing area of the stairs and escalators to provide recognition view.
7. All emergency exit doors on the ground floor and parking lots that lead outside the building to provide identification view.
8. All emergency exit doors among floors to provide recognition view.
9. At the entrances and exits of vehicles to provide recognition view.
10. On all loading and unloading areas to provide detection view;
11. Guest's drop-off area to provide detection view;
12. All corridors (for visitors and service) to provide detection view;

13. In seating areas to provide detection view;
14. The corridors of prayer rooms to provide detection view;
15. Inside men's prayer rooms to provide detection view
16. In the driveways of parking lots to provide detection view.
17. In the main lobby area to provide detection view.
18. In outer spaces, performance areas and crowd gathering areas to provide detection view; and PTZ cameras to support
19. Liquefied gas storage area and filling areas to provide recognition view;
20. The entrance to the electricity room to provide recognition view;
21. In the water tanks room to provide recognition view;
22. The entrances to the fresh air treatment units of the air conditioning system to provide recognition view;
23. The fuel tanks of backup generators to provide detection view;
24. Automatic car plate number reading cameras approved by SIRA must be installed in the following locations:
 - a) Entrances and exits of the vehicles to establishment;
 - b) Entrances and exits of vehicles' parking lots;
 - c) Passengers drop-off areas;
 - d) Loading and unloading areas;
25. Only the digital system should be used and the quality of the recording and cameras should not be less than 1080P.
26. A central monitoring system (VideoGuard) must be installed.
27. A special operations room to control and manage cameras, which is equipped with all means of communication with guards and officials, emergency and rescue entities, the ambulance and all means of assistance to manage or control the security system must be provided, with a security systems supervisor.
28. A security manager must be provided.
29. A security operations manager or security supervisor must be provided 24/7.
30. Security guards must be provided 24/7.
31. Female guards must also be provided during the official working hours.

3.3. Special Security Requirements:

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Passive or active HVM that are approved must be installed in front of the main gates and the areas where guests and visitors gather.

3.4. Special Cases:

1. If the establishment is open air, which means that the entrances and the lobby areas are unidentified, the pixel density method can be used after obtaining the approval of SIRA.
2. In aqua parks, cameras to provide recognition view must be installed, with access control system installed in the following locations:
 - a) Chemicals storage rooms;
 - b) Water treatment rooms.

4. Financial and Monetary Institutions

4.1. Financial and monetary institutions include the following economic institutions:

- a) Banks.
- b) Currencies exchange.
- c) Travelers checks trading.
- d) Carrying out transfers in local and foreign currencies.

4.2. Technical Specifications and Requirements

Fixed coloured cameras must be provided in the following locations:

1. All entrances to the establishment and emergency exits so that a person's image is to provide identification view;
2. All cash trading desks and tables so that a person's image is to provide recognition view;
3. All safe rooms to provide recognition view;
4. On the lobby to provide detection view;
5. Inside all ATMs;
6. All ATMs in the establishment to provide recognition view;
7. On safe deposit rooms to provide recognition view.
8. The external area of the establishment to provide detection view, provided that the camera's angle of view is not less than 110 degrees.

9. All cameras and recording devices must be connected to uninterruptible power supply (UPS).
10. The recording mode must be set to at least ten frames per second (10fps) per camera.
11. Recordings must be kept for at least 31 days for all cameras.
12. Recordings must be kept for at least 75 days for all ATM cameras.

4.3. An alarm system must be installed in the establishment under the following conditions:

1. The requirements and standards of the General Specifications (Part 2 page 15) on alarm and intruders detection systems must be applied.
2. The sensors field must cover the protected areas so that there is no zone that can be penetrated to disrupt or disable the security system.
3. All glass facades of the establishment must be equipped with glass break sensors or motion detectors.
4. The main and secondary entrances and emergency exits, if any, must be equipped with magnetic keys or motion detectors.
5. The safe must be equipped with a seismic detector sensor or motion detector sensor.
6. The cashier, seller and manager must be provided with panic button to be used in case of any emergency so that the panic button must be at a level that is easily accessible and is not visible at the same time for the visitors.
7. The control panel must be installed in a secure, invisible and inaccessible place.
8. The alarm keypad should not be installed near the alarm control panel and should preferably be installed near the entry door.
9. The control panel must be connected to the central alarm station.
10. Except for strobe light and sirens, no alarms shall be installed outside the establishment.
11. The control panel and the siren or strobe light must be equipped with a backup battery that operates for 8 hours continuously.
12. All parts of the alarm systems must feature damage or tampering detection.

13. The establishment administrator must activate the alarm system after the end of the working hours and evacuation of the establishment.
14. The establishment administrator must respond to the police call by moving to the establishment for inspection and ensuring the safety of the site in the event of an intrusion or theft warning.
15. The alarm must immediately activate the establishment's lighting system in the event of a theft warning or an intrusion into the establishment.

4.4. General Requirements

1. Security guards must be provided during the official working hours.
2. A central monitoring system (VideoGuard) must be installed.
3. A fixed iron window grill must be installed on all external vents (which are not in the display area such as the windows of service rooms, bathrooms and ventilation rooms).
4. Iron shutters that are closed after the official working hours must be installed.
5. Penetration-resistant glass or films installed on the outside frame must be used on the glass facades of the establishment to prevent penetration of the glass for at least 3 minutes.
6. Locks that are resistant to puncture, knocking off, and cutting off and high-quality lock keys for the iron shutters must be installed.
7. The glass separator between the employee and the client must reach up to the ceiling.
8. An access control system must be installed in the cashier areas and its affiliated rooms.

5. Manufacture and Sale of Precious Metals and Precious Stones

The manufacture and sale of precious metals and precious stones include the following economic activities:

- a) Trade in gold trade and fine jewelry;
- b) Trade in metal alloys.
- c) Trade in gold and silver jewelry;
- d) Trade in pearls and precious stones;

- e) Foundry of gold and precious metals;
- f) Manufacture of jewelry made of gold and precious metals;
- g) Manufacture of precious jewelry;
- h) Jeweler of gold and precious jewelry;
- i) Repair of jewelry, jewels and artefacts.

5.1. Technical Specifications and Requirements

Fixed coloured cameras must be installed in the following locations:

1. All entrances to the establishment and emergency exits to provide identification view;
2. Display and sale tables to provide recognition view;
3. Cashier to provide recognition view;
4. The safe to provide recognition view;
5. All display tables and boxes extending beyond the boundaries of the establishment or displayed elsewhere to provide recognition view;
6. The outdoor area of the establishment to provide detection view, provided that the camera's angle of view is not less than 110 degrees;
7. The lobby to provide detection view.
8. All cameras and recording devices must be connected to uninterruptible power supply (UPS).
9. The recording mode must be set to at least ten frames per second per camera.
10. The recordings must be kept for at least 31 days for all cameras.

5.2. An alarm system must be provided in the establishment, subject to the following conditions:

1. The requirements of (Part 2 page 15) on alarm and intruders detection systems must be applied.
2. All areas must be covered by motion detectors, including without limitation, the protected areas, offices and management spaces directly related to the shop so that there are no zones that can be penetrated to switch off or disable the security system.

3. All glass facades of the establishment must be equipped with glass break sensor.
4. The main and secondary entrances and emergency exits, if any, must be equipped with magnetic door contact or motion detectors.
5. The safe must be equipped with a seismic detector sensor or motion detector sensor.
6. The cashier, seller and manager must be provided with panic button to be used in case of any emergency so that the panic button must be at a level that is easily accessible and is not visible at the same time for the visitor.
7. The control panel must be installed in a secure, invisible and inaccessible place.
8. The alarm keypad should not be installed near the alarm control panel and should preferably be installed near the entry door.
9. The control panel must be connected to the central alarm station.
10. Except for strobe light and sirens, no alarms shall be installed outside the establishment.
11. The control panel and the siren or strobe light must be equipped with a spare battery that operates for 8 hours continuously.
12. The establishment administrator must activate the alarm system after the end of the working hours and evacuation of the establishment.
13. The establishment administrator must respond to the police call by attending the site for inspection and ensuring the safety of the site in the event of an intrusion or theft warning.
14. The alarm must immediately activate the establishment's lighting system in the event of a theft warning or an intrusion into the establishment.

5.3. General Requirements

1. A security guard must be provided during the official working hours for places containing pieces that are worth more than one million dirhams.
2. A central monitoring system (VideoGuard) must be installed.

3. A fixed iron grill must be installed on all external vents (which are not in the display area such as the windows of service rooms, bathrooms and ventilation rooms).
4. Metal window shutters that are closed after the official working hours must be installed.
5. Penetration-resistant glass or films installed on the outside frame must be used on the glass facades of the establishment to prevent penetration of the glass for at least 3 minutes.
6. Vision blocking system should be used only after obtaining the approval of SIRA. (optional)
7. Locks that are resistant to puncture, knocking off and cutting off and high-quality lock keys for the iron shutter must be installed.

6. Cinemas and Theatres

Cinemas and theatres include the following economic activities:

- a) Cinemas.
- b) Theatres.

6.1. Technical Specifications and Requirements

Fixed coloured cameras must be installed in the following locations:

1. All entrances to the establishment so that a person's image is to provide identification view;
2. All help desks and reception and sale tables so that a person's image is to provide recognition view;
3. Money deposit rooms to provide recognition view;
4. Inside elevators to provide recognition view with an angle that shows the floor number, and using a lens with a wide angle so that it covers all parts of the elevator;
5. In the lift lobby hall to provide recognition view;
6. All ATMs and public phones to provide recognition view;
7. The landing area of the stairs and escalators to provide recognition view;
8. All emergency exit doors on the ground floor and parking lots that lead outside the building to provide identification view;
9. All emergency exit doors among floors to provide recognition view;

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10. The corridors of the establishment to provide detection view;
11. The seating and streaming areas of the theatre only to provide detection view;
12. At the entrances and exits of the vehicles of the establishment to provide recognition view;
13. On all loading and unloading areas to provide detection view;
14. Drop off areas to provide detection view;
15. Parking lots drive ways to provide detection view;
16. The main lobby area to provide detection view;
17. The gas tanks storage area to provide recognition view;
18. The corridors of prayer rooms to provide detection view;
19. Installing cameras inside men's prayer rooms to provide detection view.
20. Automatic car plate numbers reading cameras approved by SIRA must be installed in the following locations:
 - a) Entrances and exits of the vehicles to the establishment's;
 - b) Entrances and exits of the parking lots of the vehicles;
 - c) Drop-off areas;
21. Digital recording must be kept for at least 31 days for all cameras.
22. The quality of the recording and cameras must not be less than 1080P.
23. A central monitoring system (VideoGuard) must be installed.
24. An independent, closed VSS operation room that is non-exposed from outside must be provided.
25. Security guards must also be provided during the official working hours.
26. Female guards must also be provided during the official working hours.

7. Important complexes

Important complexes include:

- a) Any clusters of residential or office units,
- b) Including buildings, towers and villa compounds.

7.1. Technical Requirements for the VSS System

1. The following areas must be covered with fixed VSS systems as follows:
2. All entrances to the establishment so that a person's image is to provide identification view;

3. All main and secondary emergency exits leading inside or outside the establishment so that a person's image is to provide identification view;
4. All the lobby areas to provide detection view;
5. In the elevator lobby so that a person's image is to provide recognition view;
6. All reception areas so that a person's image is to provide recognition view;
7. Inside elevators to provide recognition view with an angle shows the floor number, and using a lens with a wide angle so that it covers all parts of the elevator;
8. All emergency exit doors among floors to provide recognition view;
9. The corridors leading to the residential units within detection view;
10. All entrances of gyms to provide recognition view;
11. All swimming pools to provide detection view;
12. All entrances and exits of parking lots to provide view of reading plate numbers;
13. In the parking drive ways to provide detection view;
14. Outdoor cameras in the surrounding area of the building must be installed to provide detection view.
15. The recordings must be kept for at least 31 days for all cameras.
16. A central monitoring system (VideoGuard) must be installed.

7.2. Security Guarding

Security guards must be provided for all buildings, towers and villa compounds, except for buildings used for housing only, with a total number of units less than 50 residential units.

7.3. A central monitoring system (VideoGuard)

A central monitoring system (VideoGuard) must be provided for all buildings, towers and villa compounds, except for buildings used for housing only, with a total number of units less than 50 residential units.

8. Workers' Residential Compounds

8.1. Technical Requirements for the VSS System

1. The following areas must be covered with fixed VSS systems as follows:
2. All entrances to the establishment so that a person's image is to provide identification view;

3. All main and secondary emergency exits leading inside or outside the establishment so that a person's image is to provide identification view;
4. All the lobby areas to provide detection view;
5. In the elevator lobby and stairs so that a person's image is to provide recognition view;
6. Inside elevators to provide recognition view with an angle that shows the floor number, and using a lens with a wide angle so that it covers all parts of the elevator;
7. In all reception areas so that a person's image is to provide recognition view;
8. All emergency exit doors among floors to provide recognition view;
9. In the corridors of the building to provide detection view;
10. All entrances of gyms to provide recognition view;
11. All swimming pools to provide detection view;
12. All entrances and exits of parking lots to provide view of reading plate numbers;
13. In the parking lots drive ways to provide detection view;
14. The outdoors surrounding areas of the building to provide detection view;
15. In outdoor yards to provide detection view.
16. The recordings must be kept for at least 31 days for all cameras.
17. A central monitoring system (VideoGuard) must be installed.
18. Security guards must be provided.

9. Art Galleries

Art galleries include the following economic activities:

- Galleries designed to display Art-work

9.1. Technical Specifications and Requirements

1. Fixed coloured cameras must be installed in the following locations:
2. All entrances to the establishment and emergency exits so that a person's image is to provide identification view;
3. All reception and display tables and showrooms so that a person's image is to provide detection view;

4. The collection tables to provide recognition view;
5. At the entrances and exits of the vehicles of the establishment to provide view of reading plate numbers;
6. The main lobby area to provide detection view.
7. Digital recording must be kept for at least 31 days for all cameras.

9.2. Special security requirements for an establishment that contains piece that is worth more than one million dirhams

1. An alarm system must be provided in the establishment, subject to the following conditions:
 2. The sensor field coverage must be secured in the protected areas, offices and the management areas directly related to the establishment so that there are no zones that can be penetrated to switch off or disable the security system.
 3. All glass facades of the establishment must be equipped with glass break detectors or motion detectors.
 4. The main and secondary entrances and emergency exits, if any, must be equipped with magnetic door contact or motion detectors.
 5. The safe must be equipped with a vibration detector sensor or motion detector sensor.
 6. The cashier, seller and manager must be provided with panic button to be used in case of any emergency so that the panic button is at a level that is easily accessible and is not visible at the same time for the visitors.
 7. The control panel must be installed in a secure, invisible and inaccessible place.
 8. The alarm keypad should not be installed near the alarm control panel and should preferably be installed near the entry door.
 9. The control panel must be connected to the central alarm station.
 10. Except for strobe light and sirens, no alarms shall be installed outside the establishment.
 11. The control panel and the siren or strobe light must be equipped with a backup battery that operates for 8 hours continuously.
 12. All sensors must be equipped with tamper detection.

13. The establishment administrator must activate the alarm system after the end of the working hours and evacuation of the establishment.
14. The establishment administrator must respond to the police call by moving to the establishment for inspection and ensuring the safety of the site in the event of an intrusion or theft warning.
15. Security guards must be provided during the official working hours.
16. A central monitoring system (VideoGuard) must be installed.

10. Warehouses

10.1. Technical Requirements for the VSS System

Fixed cameras must be installed in the following locations:

1. All entrances to provide identification view.
2. All emergency exits, if any, to provide identification view.
3. Reception desks must be installed to provide recognition view.
4. All entrances and exits of the vehicles to provide view of reading plate numbers.
5. Loading and unloading areas to provide detection view.
6. Shelving aisles to provide detection view.
7. Surrounding area of the warehouse to provide detection view.

10.2. Alarm System

An alarm system must be installed in the establishment, subject to the following conditions:

1. All areas and rooms that have windows in the establishment must be secured with motion detectors.
2. The entrances and emergency exits must be equipped with magnetic door contact.
3. The control panel must be installed in a secure, invisible and inaccessible place.
4. The alarm keypad must not be installed near the alarm control panel and should be installed near the entry door.
5. The control panel must be connected to the central alarm station.
6. Except for strobe light and sirens, no alarms shall be installed outside the establishment.

7. The control panel and the siren or strobe light must be equipped with a backup battery that operates for 8 hours continuously.
8. All sensors must be equipped with tamper detections.
9. The establishment administrator must activate the alarm system after the end of the working hours and evacuation of the establishment.
10. The establishment administrator must respond to the police call by attending the site for inspection and ensuring the safety of the site in the event of an intrusion or theft warning.
11. The alarm must immediately activate the establishment's lighting system in the event of a warning or an intrusion into the establishment.
12. A central monitoring system (VideoGuard) must be installed.

11. Warehouses of Hazardous and Precious Substances

Technical Requirements for the Alarm System of the VSS System

11.1. Cameras must be installed in the following locations:

1. All entrances to provide identification view.
2. All emergency exits, if any, to provide identification view.
3. Reception desks must be installed to provide recognition view.
4. All entrances and exits of the vehicles to provide view of reading plate numbers.
5. Loading and unloading areas to provide detection view.
6. All indoor area of the warehouse to provide detection view.
7. Shelving aisles to provide detection view.
8. The surrounding area of the warehouse to provide detection view.
9. A central monitoring system (VideoGuard) must be installed.

11.2. Alarm System

An alarm system must be installed in the establishment, subject to the following conditions:

1. All areas and rooms that have windows in the establishment must be secured with motion detectors.

2. The entrances and emergency exits must be equipped with magnetic door contact.
3. The control panel must be installed in a secure, invisible and inaccessible place.
4. The alarm keypad must not be installed near the alarm control panel and should be installed near the entry door.
5. The control panel must be connected to the central alarm station.
6. Except for strobe light and sirens, no alarms shall be installed outside the establishment.
7. The control panel and the siren or strobe light must be equipped with a backup battery that operates for 8 hours continuously.
8. All sensors must be equipped with tamper detections.
9. The establishment administrator must activate the alarm system after the end of the working hours and evacuation of the establishment.
10. The establishment administrator must respond to the police call by attending the site for inspection and ensuring the safety of the site in the event of an intrusion or theft warning.
11. The alarm must immediately activate the establishment's lighting system in the event of a warning or an intrusion into the establishment.

11.3. Other Requirements for Warehouses of Hazardous Substances

Cameras must be provided on the doors of hazardous substances containers to provide recognition view.

12. Hazardous Substances Factories

12.1. Requirements for the VSS System

Fixed cameras must be installed in the following locations:

1. All entrances to provide identification view.
2. All emergency exits, if any, to provide identification view.
3. Reception desks to provide recognition view.
4. All entrances and exits of the vehicles to provide view of reading plate numbers.

5. The loading and unloading areas to provide detection view.
6. The indoor area of the factory to provide detection view.
7. The corridors to provide detection view.
8. The surrounding area of the factory to provide detection view.
9. Doors of hazardous substances containers to provide recognition view.

12.2. Alarm System

An alarm system must be installed in the establishment, subject to the following conditions:

1. All areas and rooms that have windows in the establishment must be secured with motion detectors.
2. The entrances and emergency exits must be equipped with magnetic door contact.
3. They must be provided with panic button to be used in case of any emergency so that the panic button is at a level that is easily accessible and is not visible
4. The control panel must be installed in a secure, invisible and inaccessible place.
5. The alarm keypad must not be installed near the alarm control panel and should be installed near the entry door.
6. The control panel must be connected to the central alarm station.
7. Except for strobe light and sirens, no alarms shall be installed outside the establishment.
8. The control panel and the siren or strobe light must be equipped with a backup battery that operates for 8 hours continuously.
9. All sensors must be equipped with tamper detections.
10. The establishment administrator must activate the alarm system after the end of the working hours and evacuation of the establishment.
11. The establishment administrator must respond to the police call by attending the site for inspection and ensuring the safety of the site in the event of an intrusion or theft warning.

12. The alarm must immediately activate the establishment's lighting system in the event of a warning or an intrusion into the establishment.
13. A central monitoring system (VideoGuard) must be installed.

13. Gas Stations

13.1. Technical Requirements for the VSS System

VSS cameras must be installed and distributed as follows:

1. The vehicle fuel supply lines to provide detection view.
2. Station fuel supply lines to provide detection view.
3. Automatic plate numbers reading cameras, which are approved by SIRA, must be installed on the entrances and exits of gas stations.
4. All parking lots to provide detection view.
5. All entrances to outdoor toilets to provide recognition view.
6. All entrance to the convenience store so that a visitor's image is to provide identification view.
7. Cashier desk to provide recognition view.
8. ATMs to provide recognition view.
9. The recordings must be kept for at least 31 days for all cameras.
10. The recording speed of outdoor cameras must not be less than 25 frames per second and the indoor cameras must not be less than 10 frames per second.
11. A central monitoring system (VideoGuard) must be installed.

14. Internet Services Shops

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Internet services include establishment that provide Internet services to the public and the establishment that have internet services

14.1. Technical Requirements for the VSS System

Fixed VSS cameras must be installed and distributed as follows:

1. All entrances to provide identification view.
2. All computer uses locations to provide detection view.
3. The seating and waiting areas to provide detection view.
4. Games tables to provide detection view.
5. Cashier box to provide recognition view.
6. The recordings must be kept for at least 31 days for all cameras.
7. A central monitoring system (VideoGuard) must be installed.

15. Self-Storage

Deposit services include the following economic activities

- a) Self-Storage
- b) Rental of safes to save precious deposits.

15.1. Definitions:

1. Safes area: is the area that contains the iron safes and which is surrounded by a concrete wall.
2. Storerooms area: is an area that contains a group of storerooms.
3. Reception and waiting area: are the areas where customers are received and dealt with or the area where they wait to be served.
4. Viewing area: is the area where the client views his items privately and is to provide protected area.
5. Secure area: is the area that separates the safes area from the rest of the areas and is its only entrance.

15.2. General Specifications of the Facilities

Deposit facilities for the deposit of precious items must contain the following divisions:

- Reception and waiting area;
- Safes area;
- Viewing area;

- Secure area;
- Management area.

Automatic deposit facilities must contain the following divisions:

- Reception and waiting area;
- Storerooms area;
- Management area.

- other
1. The locked area must have at the entrance, at least two doors that are opened alternately, where the door cannot be opened until after the door is closed.
 2. Doors should have electric locks to open doors only when supplied with electricity.
 3. There must be spare power supply (UPS) to operate the systems in case of power failure as follows:
 - Alarm system: 8 hours;
 - VSS system: 8 hours;
 - Doors system: 8 hours.

15.3. Specifications of the VSS System

Fixed coloured cameras must be installed in the following areas:

1. All entrances to the establishment and emergency exits to provide identification view;
2. The reception area to provide recognition view;
3. The lobby to provide detection view;
4. The secure area to provide recognition view;
5. The safes area, including all spaces within detection view
6. the viewing area to provide detection view.
7. The recordings must be kept for at least 90 days.
8. Recording rate must be at least 10 frames per second.

15.4. Alarm System

1. The requirements of (Part 2 page 15) on alarm and intruders detection systems must be applied
2. The safes room must feature motion and vibration detectors.
3. The main door must have magnetic door contact.

4. The reception area, secure area and safes room must have motion detectors.
5. A panic button or emergency call must be provided at the reception desk, the manager's office and the security guard.

15.5. Security Procedures and Requirements:

1. Security guards must be provided 24/7.
2. A central monitoring system (VideoGuard) must be installed.
3. The data of safe renters must be obtained with a copy of their identity proof (such as ID cards or passports).
4. There must be a system to verify the identity of the safe renter.
5. All renters must be bound by contracts in which they are committed to:
6. Refrain from storing any harmful or prohibited substances;
7. Refrain from storing any substances that are flammable or explosive.
8. Refrain from storing stolen goods or goods that are obtained as a result of a crime.

16. Automatic Self Storage

Automatic deposit services include the following economic activities

- a) Automatic storage services;
- b) Rental of safes to save precious deposits.

This refers to fully automated storage facilities with no human intervention at site.

16.1. Definitions:

1. Safes area: is the area that contains the iron safes and which is surrounded by a concrete wall.
2. Reception and waiting area: are the areas where customers are received and dealt with or the area where they wait to be served.
3. Viewing area: is the area where the client views his items privately and is to provide protected area.

16.2. General Specifications of the Facilities

Automatic deposit facilities must contain the following divisions:

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- a) Reception and waiting area;
 - b) Storerooms area; and
 - c) Management area.
1. Doors should have electric locks to open doors only when supplied with electricity.
 2. There must be spare power supply (UPS) to operate the systems in case of power failure as follows:
 - a) Alarm system: 8 hours;
 - b) VSS system: 8 hours;
 - c) Doors system: 8 hours.

16.3. VSS System

Fixed coloured cameras must be installed in the following locations:

1. All entrances to the establishment and emergency exits to provide identification view;
2. On reception desks to provide recognition view;
3. The lobby to provide detection view;
4. The entrance to the maintenance of the safes and any outlet leading to them to provide identification view;
5. Viewing area to provide detection view.
6. The recordings must be kept for at least 90 days.
7. Recording speed must be at least 10 frames per second.

16.4. Alarm System

1. The requirements of (Part 2 page 15) on alarm and intruders detection systems must be applied
2. The safes room must feature motion and vibration sensors.
3. The main door must have magnetic door contact.
4. The maintenance door of the locker room and any entrance to it must contain a magnetic door contact.
5. The reception area and lock area must have motion detectors.
6. A panic button or emergency call must be provided at the reception desk, the manager's office and the security guard.

16.5. Security Procedures and Requirements:

1. Security guards must be provided 24/7.

2. A central monitoring system (VideoGuard) must be installed.
3. The data of safe renters must be obtained with a copy of their identity proof (such as ID cards or passports).
4. There must be a system to verify the identity of the safe renter.
5. All renters must be bound by contracts in which they are committed to:
6. Refrain from storing any harmful or prohibited substances;
7. Refrain from storing any substances that are flammable or explosive.
8. Refrain from storing stolen goods or goods that are obtained as a result of a crime.

17. SIM Cards Shops

Include all commercial facilities that are licensed to sell cell phones SIM cards.

17.1. Security and Technical Requirements:

1. Dedicated table(s) to sell cell phones SIM cards must be provided.
2. Fixed coloured cameras must be provided viewing the table(s) dedicated to sell cell phones SIM cards as follows:
 - a) the purchaser's image is to provide identification view;
 - b) the purchaser's image is to provide recognition view.
3. The recordings must be kept for at least 31 days for all cameras.
4. A central monitoring system (VideoGuard) must be installed.

18. Shooting Ranges

Shooting ranges include the following economic activities

- a) Shooting ranges,
- b) Shooting clubs.

18.1. Technical Specifications and Requirements

1. Fixed coloured cameras must be installed in the following locations:
2. All entrances to the establishment and emergency exits so that a person's image is to provide identification view;
3. All cash desks, reception desks and arms and ammunition handover tables so that a person's image is to provide recognition view;
4. Inside the gun store so that a person's image is to provide recognition view;

5. All ranges so that a person's image is to provide detection view;
6. The entrances and exits of the parking lots of vehicles to provide view of reading plate numbers;
7. Drive way of the parking lots of the vehicles to provide detection view;
8. Corridors of toilets to provide detection view;
9. Corridors so that a person's image is to provide detection view.
10. Digital recording must be kept for at least 31 days for all cameras.
11. A central monitoring system (VideoGuard) must be installed.
12. Shooting clubs software must be used.

19. Shops of Precious Goods

Shops of precious goods include all commercial facilities selling precious items worth up to AED 10,000 and above.

19.1. Second: Security and Technical Requirements:

1. Fixed coloured cameras must be installed in the following areas:
2. All entrances to the establishment and emergency exits so that a person's image is to provide identification view;
3. Cash desks so that a person's image is to provide recognition view;
4. Display tables so that a person's image is to provide detection view;
5. Covering the hall of the establishment so that a person's image is to provide detection view.
6. The recordings must be kept for at least 31 days for all cameras.
7. A central monitoring system (VideoGuard) must be installed.
8. If the establishment displays items worth more than AED 100,000, an alarm system should be provided as follows:
9. The requirements of (Part 2 page 15) on alarm and intruders detection systems must be applied
10. The sensors field must cover the protected areas, offices and the management areas directly related to the establishment so that there are no zones that can be penetrated to switch off or disable the security system.

11. All glass facades of the establishment must be equipped with glass break detectors or motion detectors.
12. The main and secondary entrances and emergency exits, if any, must be equipped with magnetic door contact or motion detectors.
13. The safe must be equipped with a vibration detector sensor or motion detector sensor.
14. The cashier, seller and manager must be provided with panic button to be used in case of any emergency so that the panic button is at a level that is easily accessible and is not visible at the same time for the visitor.
15. The control panel must be installed in a secure, invisible and inaccessible place.
16. The alarm keypad should not be installed near the alarm control panel and should preferably be installed near the entry door.
17. The control panel must be connected to the central alarm station.
18. Except for strobe light and sirens, no alarms shall be installed outside the establishment.
19. The control panel and the siren or strobe must be equipped with a backup battery that operates for 8 hours continuously.
20. All sensors must be equipped with tamper detection.
21. The establishment administrator must activate the alarm system after the end of the working hours and evacuation of the establishment.
22. The establishment administrator must respond to the police call by attending the site for inspection and ensuring the safety of the site in the event of an intrusion or theft warning.

20. Large and Diverse Stores

Large and diverse stores include the following economic activities

- a) Department stores,
- b) Supermarkets.

20.1. Security and Technical Requirements:

Fixed coloured cameras must be installed in the following areas:

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1. All entrances to the establishment and emergency exits so that a person's image is to provide identification view;
2. Cash desks so that a person's image is to provide recognition view;
3. All display tables so that a person's image is to provide detection view;
and
4. Covering the hall of the store or the display shelves aisles so that a person's image is to provide detection view.
5. The recordings must be kept for at least 31 days for all cameras.
6. A central monitoring system (VideoGuard) must be installed.

21. Military and Hunting Equipment Stores

These stores include the following economic activities

- a) Military Equipment Stores,
- b) Hunting Equipment Stores.

21.1. Technical Specifications and Requirements

1. Fixed coloured cameras must be installed in the following locations:
2. Entrances to the establishment and emergency exits so that a person's image is to provide identification view;
3. Cash desks and reception and sale desks so that a person's image is to provide recognition view;
4. Storage areas so that a person's image is to provide detection view;
5. Covering the hall of the establishment so that a person's image is to provide detection view.
6. Digital recording must be kept for at least 31 days for all cameras.
7. A central monitoring system (VideoGuard) must be installed.
8. Shooting clubs software must be used.

22. Places of Worship

The following requirements and specifications must be met:

22.1. VSS cameras must be installed in the following locations:

1. All entrances to the establishment so that a person's image is to provide identification view;
2. All main and secondary emergency exits leading inside or outside the establishment so that a person's image is to provide identification view;
3. In all places of worship so that a person's image is to provide detection view;
4. Any annexes or overflow areas of the place of worship so that a person's image is to provide detection view;
5. All the areas surrounding the place of worship so that a person's image is to provide detection view;
6. All parking lots of the vehicles to provide detection view;
7. Elevator lobby and stairs so that a person's image is to provide recognition view;
8. Entrances and exits of parking lots to provide view of reading plate numbers.
9. The recordings must be kept for a period of no less than 31 days.
10. IR cameras for the dark spots and outdoor cameras must be used.

23. Car Rental Facilities

23.1. Technical Requirements for the VSS System

Coloured cameras must be installed as follows:

1. Entrances to the establishment and emergency exits to provide identification view;
2. Reception desks and contracts conclusion desks to provide recognition view; and
3. The public area of the establishment to provide detection view.
4. The recordings must be kept for at least 31 days for all cameras.
5. A central monitoring system (VideoGuard) must be installed.

24. Vehicle Security and Protection

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Vehicle security and protection include the following:

- a) Vehicles transporting hazardous substances
- b) Vehicles transporting fireworks
- c) Vehicles transporting explosives
- d) Vehicles transporting fuels
- e) Vehicles transporting liquefied gas
- f) Safari vehicles
- g) Rental vehicles
- h) Rental buses
- i) Luxury vehicles transporting passengers

All vehicles must install protection and security systems (secure path) that are approved by SIRA. Such systems must be renewed annually.

25. Money Transport Vehicles

The technical standards and requirements that must be fulfilled in money transport vehicles:

25.1. They must be fully armored, from all directions, to resist any potential attack, emergency or fire, provided that the armoring level must be B4 at least, as per the international standards, or equivalent.

25.2. The interior of the vehicle must be divided into three sections as follows:

1. A front section for the driver + an assistant, a middle section for the guard, and a rear section for the safe.
2. The sections designated for the guards must be air conditioned and equipped with appropriate seats and seat belts for every individual in the vehicle.
3. Only one door (the side door) must be used for getting on and off, in addition to the front doors, which must be used in emergencies only.
4. The front view for the vehicle crew must be no less than 200 degrees with the naked eye.

5. All wheels must be equipped with an internal rubber frame to ensure that the vehicle keeps moving for no less than (100) one-hundred kilometers in case any of the tyres were punctured or damaged.
6. The evacuation hole measurements must be no less than 60 cm x 60 cm.
7. The locks must be secure and cannot be unlocked or tampered with using normal ways.
8. All doors must be connected to one electromechanical lock system that works by exchange (exchange system: the safe door will not open if there is another door is open in the rear section).
9. All door hinges must be inside the vehicle and must be very durable.
10. The safe lock must feature a digital key with fingerprint reader that can be unlocked by the ID card and a digital keypad.
11. The engine starter must be connected to the vehicle entry system and an electronic operation system that works with the ID card and a digital keypad.
12. The vehicle must be equipped with a GPS tracker, which is approved by SIRA, to identify the location of the vehicle.
13. The GPS tracker of the vehicle's location must be connected to the central monitoring station of the service provider.
14. The vehicle must be equipped with an alarm system against intrusion or theft. The panic/attack alarm must be within reach of the driver and his assistant, and it must be linked to the central monitoring station of the service provider.

25.3. Requirements of the visual surveillance system:

1. The vehicle must be equipped with no less than 5 surveillance cameras in the following locations:
2. In the front: Covering the whole front part of the vehicle, with an angle of view no less than 110°;
3. In the rear: Covering the whole rear part of the vehicle, with an angle of view no less than 110°;

4. Inside the middle cabin of the vehicle: covering the safe door as well as the entry and exit door;
5. The right and left corners of the vehicle: covering the vehicle's sides with an angle of view no less than 90°.
6. The quality of the recording must not be less than Full HD 1080p with 25 frame per second.
7. The cameras must be IP66 rated

25.4. Requirements of the Recording Device

1. The recording device must be able to record, display and extract the recording, all at the same time.
2. A monitor showing all camera feeds at the same time must be installed in front of the driver and his assistant.
3. The recording device must be kept in a clean and secure place to protect it against theft, damage or tampering.
4. The recording device must be designed especially for these vehicles.
5. The recording device must come with a solid-state drive (SSD).
6. The system must be connected to the vehicle's backup battery.
7. The recordings must be kept for at least 31 days.
8. All system cables must be kept in secure conduits.
9. The vehicle weight, after armoring, must not exceed the weights determined by the manufacturer of the vehicle. In case the vehicle weight exceeds the allowed limit, all mechanical specifications of the vehicle must be adjusted to comply with the new weight.
10. The vehicle must be equipped with emergency equipment to handle abrupt and simple malfunctions in the vehicle such as a flashlight, gloves, safety equipment, first aid kit, etc.
11. Any other equipment or supplies required by the competent authority (SIRA).

26. Mobile ATM Vehicles:

The technical standards and requirements that must be fulfilled in mobile ATM vehicles:

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26.1. The interior of the vehicle must be divided into two sections as follows:

1. The front section is for the driver and his assistant, and the rear section is for the safe.
2. The sections designated for the guards must be air conditioned and equipped with appropriate seats and seat belts for every individual in the vehicle.
3. Only the ATM room must be fully armored, from all directions, to resist any potential attack, emergency or fire, provided that the armoring level must be B2 at least, as per the international standards, or equivalent.
4. Only one door (the side door) must be used for getting on and off, in addition to the front doors, which must be used in emergencies only.
5. The front view for the vehicle crew must not be less than 200 degrees with the naked eye.
6. All wheels must be equipped with an internal rubber frame to ensure that the vehicle keeps moving for no less than 100 kilometers in case any of the tyres were punctured or damaged.
7. The evacuation hole measurements must not be less than 60 cm x 60 cm. Its locks must be secure and cannot be unlocked or tampered with in normal ways.
8. All doors must be connected to one electromechanical lock system that works by exchange (exchange system: the safe door will not open if there is another door is open in the rear section).
9. All door hinges must be inside the vehicle and must be very durable.
10. The ATM room must be accessible through the ID card.
11. The engine starter must be connected to the vehicle entry system and an electronic operation system that works with the ID card and a digital keypad.
12. The vehicle must be equipped with a GPS tracker, which is approved by SIRA, to identify the location of the vehicle.

13. The GPS tracker of the vehicle's location must be connected to the central monitoring station of the security service provider.

26.2. Vehicles Tracking System

1. Only the approved SIRA Tracking system to be used.
2. The system connected to the vehicle must be able to stop vehicle remotely.

26.3. Requirements of the Vehicle Entry System

1. The vehicle must be equipped with an alarm system against intrusion or theft. The panic/alarm button must be to provide reach of the driver and his assistant, and it must be linked to the central monitoring station of the security service provider.
2. All system cables must be kept in secure conduits.

26.4. Requirements of the Visual Surveillance System - VSS:

1. The vehicle must be equipped with no less than 7 surveillance cameras in the following locations:
2. In the front: Covering the whole front part of the vehicle, with an angle of view no less than 110°;
3. In the rear: Covering the whole rear part of the vehicle, with an angle of view no less than 110°;
4. Inside the middle cabin of the vehicle: covering the safe door as well as the entry and exit door;
5. The right and left corners of the vehicle: covering the vehicle's sides with an angle of view no less than 90°;
6. Above the ATM;
7. Inside the ATM, as required by law.
8. The quality of the recording must not be less than Full HD 1080p with 25 frames per second.
9. External cameras must be IP66 rated

26.5. Requirements of the Recording Device

Version no:- V3.1
Release Date: - 01/01/2020

1. The recording device must be able to record, display and extract the recording, all at the same time.
2. A monitor showing all camera feeds at the same time must be installed in front of the driver and his assistant.
3. The recording device must be kept in a clean and secure place to protect it against theft, damage or tampering.
4. The recording device must be designed especially for these vehicles.
5. The recording device must come with a solid-state drive (SSD).
6. The system must be connected to the vehicle's backup battery.
7. The recordings must be kept for at least 31 days.
8. All system cables must be kept in secure conduits.
9. The vehicle weight, after armoring, must not exceed the weights determined by the manufacturer of the vehicle. In case the vehicle weight exceeds the allowed limit, all mechanical specifications of the vehicle must be adjusted to comply with the new weight.
10. The vehicle must be equipped with emergency equipment to handle abrupt and simple malfunctions in the vehicle such as a flashlight, gloves, safety equipment and first aid kit.
11. Adequate lighting must be provided around the vehicle and the ATM.

26.6. The following specifications must be provided in the ATM:

1. The money supply door must be in the rear part.
2. It must be installed on the vehicle's floor.
3. The visible part of the ATM must be the user interface only; all other parts must be hidden.
4. There must be a space of no less than 21 cm between the rear entrance and the ATM, with a secure door to close this area in case the vehicle is moving.
5. Any other equipment or supplies required by SIRA.

27. Cash in Transit

All Cash in Transit companies must abide by the following:

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1. Receipt and delivery of money inside secure bags sealed with unique serial numbers.
2. The receipt and delivery process must be at the client's site, in a secure location under surveillance by cameras to record the process.
3. Both delivering and receiving parties must ensure the safety of the package, its seal and serial number.
4. It is prohibited for the employee of the money transport company to count the money before receiving He must comply with his role only, which is to transfer the moneybags.
5. The moneybag must be opened only in the cash centre by the concerned employee under the surveillance of cameras and after ensuring the safety of the bag and the serial number of its seal.
6. In case there was any tear or rip in the bag, the money transport company must be held liable for any shortfall of the amount provided by the client as from the total amount in the bag.
7. In case the bag was intact but the amount was less than the amount stated by the client, the money transport company must notify the client immediately of this matter or provide the client with the footage of the bag opening, showing that the bag and serial number were intact.

28. The Security Surveillance Centre – Control Room

28.1. The following requirements and specifications must be met:

1. The area of the operations room must not be less than 300 sq. ft., and may be increased as deemed fit by the competent authority.
2. The operations room must work 24/7/365.
3. Employees in the room must not be less than 2 employees and room supervisor. This number may be increased depending on the area and systems of the room.
4. The shift must not exceed 8 hours a day.
5. A communication method between the operations room and the security guards must be provided according to the location of the guards.
6. The operations room must be linked to the police if required

7. A hotline with the police, ambulance and civil defense.
8. The operations room must be secured by security system and alarm systems connected to the police.
9. An additional backup power source (UPS) must be provided for the computer systems, which works with batteries for no less than two hours.
10. The primary power source of the room must be connected to a backup power generator that works automatically in emergencies or electricity failure to operate all equipment and devices in the room.
11. Time in all devices in the room must be synchronized with the actual time.
12. Safety systems must be provided.
13. There must be maintenance contracts for all the devices inside the operations room.
14. There must be an evacuation plan and an emergency plan known for all employees in the operations room.
15. Adequate spaces or locations must be provided for the following:
 - Space for the devices;
 - Space for the employees of the control room;
 - Space for the large screens (if required);
 - Adequate space for maintenance;
 - Space for the services.
16. The operations room must not have windows in a location that reveals the details of the work to anybody outside the room.
17. It must be in a location secured against any attack or penetration.
18. It must have additional wiring channels.
19. The wiring channels must be protected against all reptiles, rodents and any other creatures that can cut or damage the connectors.
20. The furniture designated for long periods must be used.
21. All wires and connectors must be hidden.
22. The recording devices and their accessories and wires must be put inside safe containers.
23. Surveillance cameras must be installed to cover all acts inside the control room to provide detection view.

24. The following actions are prohibited inside the operations room:

- a) Smoking,
- b) Eating,
- c) Using the systems or the room for purposes that do not serve the security functions.
- d) Taking photos by mobile phones or (another other image capturing device)

29. Transporting, Importing and Exporting Armored or Military Vehicle:

1. An application for transporting, importing or exporting armored and military vehicles must be filled in.
2. A letter from the armor manufacturer must be provided, including the number of vehicles, chassis number, type of the vehicle and type of armor.
3. The vehicle customs papers must be provided.
4. The vehicle's end user letter as attested by the embassy/consulate or a non-objection letter from the embassy/consulate must be provided to the party requesting the vehicle, with the seal attested by the Ministry of Foreign Affairs.
5. A non-objection letter from the Commodities Authority subject to import and export control by the Ministry of Foreign Affairs must be provided.
6. A non-objection letter from the Ministry of Defense must be provided for military vehicles.

30. Public Events

30.1. Duties of the event organizer

1. An approved service provider and registered in SIRA must be hired to secure the event.
2. A contract must be concluded to provide a sufficient number of guards that is adequate for the size, type and location of the event, and in compliance with requirements of SIRA.

3. The organizer must be supplied with signals and sign posts to the services locations, entrances and exits.
4. An ambulance must be provided for the events with audience exceeding two thousand people.
5. Compliance with the security requirements issued by SIRA for granting the permit to hold the event.

30.2. Duties of the security service provider to secure the event:

1. A list of the guards or organizers of the event must be sent to SIRA at least one-week prior the start of the event.
2. A meeting with all guards responsible for the security of the event must be held to explain the task of each one and demonstrate the event security plan and emergency plans as well as all other instructions regarding the event, whether from the police or the sponsor.
3. All information related to all the incidents and cases that may occur in the event must be recorded and kept to be ready for submission to SIRA or the authority upon request.
4. All security organizers of the event must be ensured to carry the security license with them, and the license must be clearly visible
5. Guards and security organizers of the event must be present in the event location before the event.
6. A communication method must be provided among the security points in the event location.
7. Female personnel must be provided to help in organizing or securing the event.
8. A specific, secure place must be provided for safekeeping and lost property.
9. A special uniform or logo must be provided for each event.

31. Security Events

31.1. Security events include the following:

- a) Security exhibitions,

- b) Security conferences,
- c) Security seminars,
- d) Security lectures,
- e) Security courses,
- f) Security workshops.

31.2. The speaker or the coach in the security event must meet the following requirements:

1. He must be known to have good conduct and have never committed any crime breaching honesty or honour.
2. He must be a holder of an academic qualification not less than a diploma.
3. He must have at least five-year work experience in the field of security.

31.3. Security organizer seminars and courses, the following requirements must be fulfilled:

1. The speaker or trainee must obtain security approval from SIRA.
2. The security approval of the training subject or topics of research in the security event must be obtained.

31.4. The security exhibitions must meet the following requirements:

1. The exhibition organizer must obtain the security approval.
2. All prohibited or restricted devices, equipment and programs must not be sold in the event.

31.5. The documents required to obtain a security approval for a speaker or trainer in a security event:

1. Registration form for a speaker or trainer in a security event;
2. Curriculum vitae of the applicant;
3. Copy of the passport.

31.6. The documents required to obtain a security approval to organize a security exhibition:

1. Application form for the organization of a security event;

2. A list of the names of the companies participating in the security event;
3. A list of the equipment, devices and programs that will be presented by the companies in the exhibition;
4. The data of the visitors of the security exhibition.

31.7. The documents required to obtain a security approval to organize a security course or seminar:

1. Application form for the organization of a security event;
2. A list of the names of the lecturers participating in the security event;
3. The subject matter or topics of discussion in the security event;
4. The data of the people participating and attending the security event.

32. Obtaining licenses for companies and institutions

The requirements provided for in Article (6) of Decree No. (1) of 2018 issuing the executive regulations of Law No. (12) of 2018 on Regulating the Security Industry in Dubai concerning issuing licenses for companies and institutions as well as the following depending on the type of the required security business must be fulfilled:

32.1. Installing Security Devices and Equipment:

1. A security system engineer certified by SIRA must be provided.
2. Two security systems technicians certified by SIRA must be provided.
3. The business of security devices and equipment must be added.

32.2. Technical Survey Services

1. An equipped storehouse must be provided, or storing at one of the storehouses certified by SIRA.
2. Compliance with the procedures of conducting technical security surveys.

32.3. Public guarding services, event security and personal guarding services transport of money and precious materials services:

- A security manager certified by SIRA must be provided.

32.4. Security Consulting Services

1. A security consultant or expert certified by SIRA must be provided.
2. The license holders must not by any means have any other business

Licenses which include the following security activities:

- a) Trading in security devices and equipment, and
- b) Installing security devices and equipment.

32.5. Security Training Services

1. At least Two security trainers certified by SIRA must be provided.
2. A venue equipped with security systems in accordance with the requirements must be provided.

32.6. Security Dog Training Centre

1. A security manager certified by SIRA must be provided.
2. Dubai Municipality's approval of the training venue must be obtained.

32.7. Control Centre's

1. A Security Surveillance Centre must be provided as per security specifications and requirements.
2. A security systems controller certified by SIRA must be provided 24/7 - 365 days.

32.8. Vehicles Tracking Systems Services

1. A Security Surveillance Centre must be provided as per security specifications and requirements.
2. A security systems controller certified by SIRA must be provided 24/7- 365 days.
3. The approval of the Telecommunications Regulatory Authority (TRA) to the license and vehicle tracking devices must be obtained.

32.9. Connectivity Services to the Central Control room

1. A Security Surveillance Centre must be provided as per security specifications and requirements.
2. A security systems controller certified by SIRA must be provided 24/7- 365
3. The necessary systems as per the requirements of the connectivity services to central workstation must be provided.

32.10. Equipment and Preparation of Secure Transport Vehicles

1. A security system equipped as per the requirements of precious items and hazardous substances must be provided.

2. The requirements for transporting, importing and exporting of Armored or Military Vehicles must be complied with.

32.11. Trading in Special Vehicles for Secure Transport:

- A security system equipped as per the requirements of precious items and hazardous substances must be provided.

32.12. Hazardous Substances Transport

- A tracking system for vehicles transporting hazardous substances must be provided as per the requirements of securing and protecting the vehicles by the multi-systems approved in SIRA.

32.13. Tourist Facilities Guarding Services

- A security manager certified by SIRA must be provided.

32.14. Manufacture of Security Devices, Security Equipment and Instruments, Rental Services of Security Devices and Equipment

- A security system equipped as per the requirements of precious items and hazardous substances must be provided.

32.15. Maritime Guarding and Beach Clubs Security

- A security manager certified by SIRA must be provided.

32.16. Safe Deposit Services

- A security system equipped as per the requirements of deposit services must be provided.

33. Licenses for Individuals

Must fulfill the requirements stipulated in Article (14) of order No. (1) of 2018 issuing the executive regulations of Law No. (12) of 2016 regarding the Regulations of Security Industry in Dubai concerning licensing of individuals based on their security role or position:

33.1. Security Consultant:

1. He/she must be a holder of an academic qualification not less than a diploma and above in the field of security. He/she must have a minimum of 10 (ten) years of work experience in the field of security.
2. He/she must not be under the age of 30 or over 60 years old.
3. He/she must successfully complete the consultant assessment test held at SIRA training Centre (Security Cadre Training Centre).

33.2. Security Technical Consultant:

1. He/she must be a holder of a university degree in Electronics or or Computer Science or Electromechanical Engineering or Information Technology or Communications Engineering. He/she must have a minimum of 10 (ten) years of work experience in the field of technical security.
2. He/she must not be under the age 30 years old.
3. He/she must successfully complete the technical consultant assessment test held at SIRA training Centre (Security Cadre Training Centre).

33.3. Security Expert:

1. He/she must have a minimum of 15 (fifteen) years of work experience in the field of security.
2. He/she must not be under the age 30 years old.
3. He/she must successfully complete the Expert assessment test held at SIRA training centre (Security Cadre Training Centre).

33.4. Security Technical Expert:

1. He/she must have a minimum of 15 (fifteen) years of work experience in the field of technical security.
2. He/she must not be under the age 30 years old.
3. He/she must successfully pass technical Expert test held at SIRA training centre (Security Cadre Training Centre).

33.5. Security Trainer

1. He/she must be a holder of an academic qualification not less than a two-year diploma and above.

2. He/she must have a minimum of five (5) years of work experience in the field of security.
3. He/she must not be under the age of 25 or over 60 years old.
4. He/she must successfully complete Train Trainer course held at SIRA training centre (Security Cadre Training Centre).

33.6. Head of Security Department

1. He/she must be a holder of an academic qualification not less than a two-year diploma and above.
2. He/she must have a minimum of seven (7) years of work experience in the field of security.
3. He/she must not be under the age of 25 or over 60 years old.
4. He/she must successfully complete Security Manager training course held at SIRA training centre (Security Cadre Training Centre).
5. He/she must manage at least (2) security managers, (3) operations managers, OR (2) security managers and (5) security supervisors.

33.7. Security Manager

1. He/she must be a holder of an academic qualification not less than a two-year diploma and above.
2. He/she must have a minimum of 7 (seven) years of work experience in the field of security.
3. He/she must not be under the age of 25 or over 60 years old.
4. He/she must successfully complete Security Manager training course held at SIRA training centre (Security Cadre Training Centre).

33.8. Security Operations Manager

1. He/she must be a holder of an academic qualification not less than a two-year diploma and above.
2. He/she must have a minimum of five (5) years of work experience in the field of security.
3. He/she must not be under the age of 25 or over 60 years old.

4. He/she must successfully complete Security Manager training course held at SIRA training centre (Security Cadre Training Centre).

33.9. Security Supervisor

1. He/she must be a holder of an academic qualification (high school certificate).
2. He/she must have at least (5) five-year work experience in the field of security.
3. He/she must not be under the age of 25 or over 60 years old.
4. He/she must successfully complete Security Supervisor training course held at SIRA training centre (Security Cadre Training Centre).

33.10. Security Systems Engineer

1. He/she must be a holder of a university degree in Electronics or Computer Science or Electromechanical Engineering or Information Technology or Communications Engineering.
2. He/she must not be under the age of 21 or over 60 years old.
3. He/she must successfully complete Security Engineers training course held at SIRA training centre (Security Cadre Training Centre).

33.11. Security Systems Technician

1. He/she must be a holder of an academic qualification not less than a two-year diploma and above.
2. He/she must not be under the age of 21 or over 60 years old.
3. He/she have a minimum of (3) three years' experience as security technician.
4. He/she must successfully complete Security Technician training course held at SIRA training centre (Security Cadre Training Centre).

33.12. Security Systems Assistant Technician

1. He/she must be a holder of an academic qualification not less than a one-year in electrical principles or electronics or above.
2. He/she must not be under 21 or over 60 years old.
3. He/she must successfully complete Security Assistant Technician training course held at SIRA training centre (Security Cadre Training Centre).

33.13. Cash & Valuables in Transit Guard (CVIT)

1. He/she must be a holder of an academic qualification not less than tenth grade or above.
2. He/she must not be under the age of 21 or over 60 years old.
3. He/she must successfully pass CVIT test held at SIRA training centre (Security Cadre Training Centre).
4. He/she must pass the SIRA English language test held at SIRA training centre (Security Cadre Training Centre).
5. He/she must pass the fitness test held at SIRA training centre (Security Cadre Training Centre).
6. He/she must obtain SIRA First Aid training course (BLS) certificate from SIRA training centre (Security Cadre Training Centre).
7. He/she must obtain Fire Fighting certificate (first responder) accredited by General Directorate of Civil Defense.

33.14. Security Guard

1. He/she must be a holder of an academic qualification not less than tenth grade or above.
2. He/she must not be under the age of 21 or over 60 years old.
3. He/she must undergo **security guard course** and test to be conducted and the certificate issued from SIRA training centre (Security Cadre Training Centre)
4. He/she must pass the SIRA **English language** test held at SIRA training centre (Security Cadre Training Centre).
5. He/she must pass the **fitness test** held at SIRA training centre (Security Cadre Training Centre).

6. He/she must obtain SIRA **First Aid** training course (BLS) certificate from SIRA training centre (Security Cadre Training Centre).
7. He/she must obtain **Fire Fighting** certificate (first responder) accredited by General Directorate of Civil Defence.
8. He/she must obtain **(PoD)** certificate on how to deal with People of Determination during crises and disasters accredited by ICSS at Dubai Police Academy.

33.15. CVIT Vehicle Driver

1. He/she must not be under the age of 21 or over 60 years old.
2. He/she must be a holder of an academic qualification not less than tenth grade or above.
3. He/she must undergo **security guard course** and test to be conducted and the certificate issued from SIRA training centre (Security Cadre Training Centre)
4. He/she must pass the **fitness test** held at SIRA training centre (Security Cadre Training Centre).
5. He/she must obtain SIRA **First Aid** training course (BLS) certificate from SIRA training centre (Security Cadre Training Centre).
6. He/she must obtain **Fire Fighting** certificate (first responder) accredited by General Directorate of Civil Defence.

33.16. Control Room Operators

1. He must have a holder of an academic qualification not less than tenth grade and above.
2. He/she must not be under the age of 21 or over 60 years old.
3. He/she must undergo **security Control Room Operators course** and test to be conducted and the certificate issued from SIRA training centre (Security Cadre Training Centre)
4. He/she must pass the **fitness test** held at SIRA training centre (Security Cadre Training Centre).
5. He/she must obtain SIRA **First Aid** training course (BLS) certificate from SIRA training centre (Security Cadre Training Centre).

6. He/she must have at least one-year work experience in the field of security.

7. He/she must obtain **Fire Fighting** certificate (first responder) accredited by General Directorate of Civil Defence.

33.17. Event Security Guards

1. He/she must have a non-objection letter issued by the sponsor.
2. He/she must have a valid residence permit.
3. He/she must undergo **Events Security course** and test to be conducted and the certificate issued from SIRA training centre (Security Cadre Training Centre)
4. He/she must obtain SIRA **First Aid** training course (BLS) certificate from SIRA training centre (Security Cadre Training Centre).
5. He/she must obtain **Fire Fighting** certificate (first responder) accredited by General Directorate of Civil Defence.
6. He/she must obtain **(PoD)** certificate on how to deal with People of Determination during crises and disasters accredited by ICSS at Dubai Police Academy.

33.18. Building Watchman

1. He/she must not be under the age of 21 or over 60 years old.
2. He/she must undergo **Watchman one day course** and test to be conducted and the certificate issued from SIRA training centre (Security Cadre Training Centre)
3. He/she must obtain **Fire Fighting** certificate (first responder) accredited by SIRA.

Acronyms

1.	AC	Alternating Current
2.	AGC	Automatic Gain Control
3.	AHD	Analogue High Definition. A standard for transmission of high definition analogue video developed by Nextchip
4.	ALC	Automatic Level Control
5.	Ambient Light	General light level of a given area or scene.
6.	Bit (b)	Binary Digit
7.	ANPR / ALPR	Automatic Number Plate Recognition / Automatic Licence Plate Recognition
8.	Aperture	The area of the lens that collects or gathers the light.
9.	Aspect Ratio	Is the vertical to the horizontal image size especially used in sensor terminology. Example: Aspect Ration HD = 16:9
10.	Automatic Iris	A lens that automatically adjusts to the varying lighting conditions to allow the correct amount of light to fall upon the imaging device.
11.	BALUN	Balance/Unbalance A device that converts a balanced video signal (e.g. as used on twisted pair) line to an unbalanced signal (e.g. as used on coax).
12.	Back Focus	Mechanical adjustment on a box camera that moves the imaging sensor in relation to the lens in order to compensate for different back focal lengths of lenses
13.	BLC	Back Light Compensation. Compensates for high light levels behind the target to enable otherwise silhouetted objects of interest to be seen in more detail
14.	BNC	Bayonet Neill–Concelman A connector for coaxial cable that is most commonly used for VSS installations.
15.	Byte (B)	A unit of 8 Bits.
16.	CBR	Constant Bit Rate
17.	CCD	Charge Coupled Device Sensor type found in VSS Cameras
18.	CCTV	Closed Circuit Television

19.	Characteristic Impedance	The Characteristic Impedance of a coaxial cable is the impedance which would be measured on an infinite length of un-terminated open circuit cable. When cables used are less than an infinite length a resistor of the same value has to be substituted to ensure matching and maximum power transfer. Coaxial cables used in CCTV are designed to have a Characteristic Impedance of 75 Ω .
20.	Chroma Burst	Is a reference signal included in an analogue video signal after the horizontal synchronisation line pulse to synchronise the chrominance component of the signal.
21.	Chrominance (C)	The part of a colour video signal that carries all the colour information.
22.	CIF	Common Intermediate Format. A measurement of image resolution equal to 352 x 288 pixels
23.	C-Mount	A mounting standard for box camera lenses. The lens flange surface to the focal point is 17.5mm. A C-mount lens can be used on a CS fitting camera when an adaptor ring (5mm) is fitted, or if the camera has sufficient back focus adjustment.
24.	CMOS	Complementary Metal Oxide Semiconductor Sensor type found in VSS Cameras
25.	CODEC	Compressor/Decompressor Device that compresses and decompresses digital signals
26.	Colour Correction Filter	Also known as an IR Cut Filter is used to prevent IR light reaching the image sensor of a camera in order to make the colour video produced by the camera appear the same as seen by the human eye. Failure to remove IR light from colour images causes the video to look washed out and have a pink tint.
27.	Composite Video	The complete analogue SD or HD video signal. The video signal comprises video and synchronising pulses.
28.	Compression	Techniques are used in surveillance systems to reduce the file sizes. Typical compression formats used for video are: MJPEG, MPEG-4, Wavelet, H.264 & H.265. The quality of video images will decrease as the amount of compression increases.
29.	CS-Mount	A mounting standard for box camera lenses. The lens flange surface to the focal point is 12.5mm. A CS-mount lens may not be used on a C fitting camera as it will be impossible to focus it.
30.	dB	Decibel. Is a logarithmic ratio between two signals. It is not a unit of measurement
31.	DC	Direct Current

32.	DC (or DD) Iris	An automatic iris lens controlled by the camera using DC voltage levels
33.	DDN	Digital Day Night A digital change from Colour to Monochrome without a removable IR cut filter.
34.	DHCP	Dynamic Host Configuration Protocol
35.	DNR	Dynamic Noise Reduction A digital video processing technique that measures the noise (image artifacts) in the picture and automatically reduces it.
36.	DOF	Depth of Field The proportion of view that is in correct focus.
37.	DSP	Digital Signal Processor Allows intelligent manipulation of the video signal in the camera for features such as backlight compensation.
38.	DVR	Digital video recorder.
39.	EI	Electronic Iris
40.	F/Number	Is the ratio of the focal length to the effective diameter of the lens. The smaller the f/number the larger the aperture allowing more light to pass through.
41.	fc	Foot Candle Used in North America as the measurement of light. 10 lux = approximately 1 foot candle (fc).
42.	Focal Length	The distance between the secondary principal point in the lens and the plane of the imaging device. The longer the focal length, the narrower is the angle of view.
43.	Frame	One video image. For video to appear to be real-time a minimum of 25 frames per second are required.
44.	FTP	File Transfer Protocol Used to transfer files over a network
45.	Full HD	A resolution of 1920x1080 pixels with an aspect ratio of 16:9
46.	Gb/s	Gigabits per second. Speed of transmission digital information in billions of bits per second
47.	GB	Gigabyte, or one billion bytes or characters of information.
48.	HD-CVI	High definition composite video interface. A standard for transmission of high definition analogue video developed by Dahua.
49.	HDMI	High definition multimedia interface, a connection standard for digital video displays
50.	HD-TVI	High definition transport video interface. A standard for transmission of high definition analogue video developed by Techpoint.
51.	HVR	Hybrid Video Recorder A digital recording device that can take multiple inputs from IP and HD analogue cameras

52.	IK Rating	Impact Protection Rating international numeric classification for the degrees of protection provided by enclosures for electrical equipment against external mechanical impacts.
53.	Illuminance	The measurement of light in lumens per square metre. The unit of which is the Lux.
54.	Interlaced Scan (i)	Where, in order to reduce bandwidth, a frame of video is transmitted as two fields of alternating odd and even lines (e.g. 1080i)
55.	IR	InfraRed These are wavelengths that are longer than that of red in the visible part of the spectrum. It can be invisible to human eyes, but people can feel it as heat. CCD and CMOS image sensors in cameras are sensitive to IR.
56.	IR corrected lens	A lens designed for use with visible and IR scene illumination with special optical coatings designed to make certain that images stay in focus when the scene illumination changes from visible to IR.
57.	IP	Internet protocol
58.	IP rating	Ingress Protection Used as an index of environmental protection against solids and liquids. The minimum rating for external housings for cameras is IP66.
59.	Iris	The mechanism within a lens that is adjusted to vary the amount of light falling upon the imaging device.
60.	kb/s	Kilobits per second. Speed of transmission digital information in thousands of bits per second.
61.	kB	Kilobyte, or one thousand bytes or characters of information.
62.	MAC	Media Access Control A unique identifier attached to network adapters (NICs)
63.	Mb/s	Megabits per second. Speed of transmission digital information in millions of bits per second
64.	MB	Megabyte, or one million bytes or characters of information 1048576 bytes.
65.	LAN	Local Area Network
66.	LCD	Liquid Crystal Display technology used for flat screen displays
67.	LED	Light Emitting Diode
68.	Lux	The unit of measurement of visible light intensity.
69.	Mb	Megabyte, or one million bytes or characters of information.
70.	MP	Megapixel
71.	MTBF	An abbreviation for Mean Time Between Failures, usually measured in hours.
72.	ND Filter	A filter that attenuates light evenly over the visible spectrum. It would be used to reduce the amount of light entering a lens and thus forcing the iris to open to its maximum. Used to simulate low lighting conditions so that the focus can be accurately set.

73.	NTSC	National Television Standards Committee Analogue Standard Definition Colour television system used mainly in North America and Japan.
74.	NVR	Network Video Recorder
75.	OLED	A display technology that uses organic polymer LEDs
76.	ONVIF	A specification that is used to facilitate interoperability between network security products from different manufacturers
77.	OSD	On Screen Display method of displaying set-up information such as time and date and/or instructions on a display monitor or directly onto a video stream.
78.	PAL	Phase Alternate Line Analogue Standard Definition Colour television system used in most of the world
79.	P-Iris	Precise Iris. Unlike with a DC/DD Iris, the P-Iris lens makes it possible to set and maintain a precise iris opening, allowing the lens to be set to an aperture that optimizes the depth of field and minimizes diffraction.
80.	PIXEL	Picture Element
81.	PoC	Power over coax Method of supplying power to analogue cameras from DVRs using the same coax cable as the video signal.
82.	PoE	Power over Ethernet Method of supplying power to the cameras from the network hardware within the same cable as the video signal (usually Cat5 or 6 Ethernet cable) without the need for an external power source local to the camera.
83.	Preset Position	A pre-defined view or shot programmed into the memory of a PTZ camera allowing the camera to be quickly moved on command to show an area of interest, such as an entrance.
84.	Progressive Scan (p)	Where a frame of video is created by the image sensor, and transmitted, line by line from top to bottom. e.g. 1080p
85.	PSU	Power supply unit
86.	PTZ	A camera equipped with motors that allow it to be panned, tilted and zoomed using telemetry remote control.
87.	RAID	Redundant array of independent drives
88.	Resolution	Resolution is the measurement of the ability of equipment and systems to produce sharp pictures. With digital images it is measured by the number of pixels making up the image (for example 1920x1080)
89.	RS485	A method of transmitting data over twisted pair cables. It is commonly used to send telemetry commands to analogue cameras
90.	S/N Ratio	Signal to Noise Measurement of the noise level in a signal expressed in dB (decibels) in a video signal values from 45dB to 60dB produce acceptable pictures. Less than 40db will produce noisy pictures.

91.	Sensitivity	Of a camera, usually specified in Lux, should be the amount of light falling upon an imaging device to produce a usable video signal.
92.	TCP/IP	Transmission control protocol/Internet protocol
93.	TDN	True Day Night With a removable infrared cut filter, a camera will operate in both low light levels and produce colour images where there is sufficient light levels.
94.	Telemetry	Commands transmitted to remotely control PTZ cameras
95.	Telemetry Protocol	A command set (or language) for controlling PTZ cameras. These protocols are often manufacturer specific.
96.	UDP	User Datagram Protocol
97.	Ultra HD (4K)	A resolution of with 3840 by 2160 pixels with an aspect ratio of 16:9
98.	UPS	Uninterruptible Power Supply A device to allow a system to keep running for a short period of time when the primary power is lost.
99.	UTC	Up The Coax. Refers to telemetry sent to a PTZ camera using the video coax.
100.	UTP	Unshielded Twisted Pair
101.	VBR	Variable Bit Rate
102.	VCA	Video Content Analysis A lower cost variation of video analytics and is a method of using the camera's built in video processing to determine certain criteria (often including 'area detection' or 'cross line detection'), usually with the ability to change the recording quality, frame rate or resolution etc. or to trigger outputs such as external lighting.
103.	VDA	Video Distribution Amplifier. A product that will take in single video signal and re-distribute it several pieces of equipment.
104.	Video Analytics	Video analytics is usually a separate software or hardware platform which will analyse the video stream and determine the scene. Depending on the complexity (and usually cost) almost any scenario can be recognised and appropriate responses can be activated, for example facial, person, vehicle recognition, and object removed or left, advanced motion detection.
105.	VideoGuard	A system that allows SIRA to monitor VSS systems in Dubai to check that they are configured and working correctly.
106.	VMD	Video Motion Detection
107.	VMS	Video Management Software
108.	VSS	Video Surveillance Systems
109.	WAN	Wide Area Network

110.	WDR	<p>Wide Dynamic Range</p> <p>It is a feature which included in some cameras enabling automatic compensation for very dark and very light areas of a scene, so is able to capture clear images of objects surrounded by a strong back light, while still keeping the background visible.</p>
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