

STANDARD TECHNICAL SPECIFICATIONS
CCTV Surveillance System

Components/Particulars	Specifications	
	16-Channel	32-Channel
1. 5MP Dome Type Camera		
- Camera Resolution :	5MP @ 20fps, 4MP @25/30fps	
- Built-in IR LED :	Yes	
- Lens Type :	Fixed-focal	
- Focal Length :	2.8mm; 3.6mm ⁽¹⁾	
- Feature :	Motion Detection ⁽²⁾	
- Network :	Open Network Video Interface (ONVIF)	
- Power Supply :	12V DC/PoE	
- Protection :	Not less than IP66	
- Inclusive :	Junction box, mounting bracket/s, other accessories necessary to operate the camera	
2. 5MP Bullet Type Camera		
- Camera Resolution :	5MP @ 20fps, 4MP @25/30fps	
- Built-in IR LED :	Yes	
- Lens Type :	Fixed-focal	
- Focal Length :	2.8mm; 3.6mm ⁽³⁾	
- Feature :	Motion Detection ⁽⁴⁾	
- Network :	Open Network Video Interface (ONVIF)	
- Power Supply :	12V DC/PoE	
- Protection :	Not less than IP66	
- Inclusive :	Junction box, mounting bracket/s, other accessories necessary to operate the camera	
3. Network Video Recorder w/ Internal HDD		
- Capacity :	To meet 60 days' real-time retention period	
- Interface :	SATA	
- Cache :	≥ 256MB	
- Transfer Rate :	≥ 230MB/s	
- Operating Temp.:	≤ 65°C	
- SATA Port :	≥ 4 SATA ports, ≥ 8TB per disk	
- Channel Playback :	16-Channel	32-Channel
- Resolution :	5MP	
- Video Output :	HDMI and VGA	
- Video Compression :	H.265+/H.265	
- Multi-screen Display :	Yes	
- Network :	Open Network Video Interface (ONVIF)	
- Power Supply :	100 to 240V AC, 50/60 Hz	
4. Back-up External Hard Drive w/ Attached Storage		
- Capacity :	To meet 60 days' real-time retention period	
- Interface :	SATA	
- Cache :	≥ 256MB	
- Transfer Rate :	≥ 230MB/s	
- Operating Temp.:	≤ 65°C	
- Interface :	USB	
- Power Supply :	100 to 240V AC, 50/60 Hz	
- Inclusive :	USB cable, AC adapter, and quick install guide	

¹ Focal length of 3.6mm for Dome Type to cover the following critical areas: vault/cash safe, tellers, ingress of main door, and ingress of back door while the Focal length of 2.8mm to cover the rest of the areas

² 24/7 recording for Dome Type in the vault/cash safe area. Additionally, Motion detection feature for Dome Type to all cameras except the above-mentioned 24/7 recording cameras

³ Focal length of 3.6mm for Bullet Type to cover the following critical areas: egress of main door, and egress of back door. Focal length of 2.8mm to cover the rest of the areas

⁴ 24/7 recording for Bullet Type to the following areas: egress of main door, and egress of back door. Additionally, Motion detection feature for Bullet Type to all cameras except the above-mentioned 24/7 recording cameras

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5. Wall-mounted 9U CCTV Cabinet	
- Color	: Black, powder-coated Finish
- Built-in fan	: Yes
- Inclusive	: Lock and keys, fixed trays, and other mounting accessories
6. 32" CCTV Monitor	
- Display	: LED backlight
- Resolution	: $\geq 1080P$
- Inputs	: 1-VGA, 1-HDMI (minimum input)
- Aspect Ratio	: 16:9
- Power Supply	: 100 to 240V AC, 50/60 Hz
- Inclusive	: Standard mounting brackets and stand
7. Power over Ethernet (POE) Switch	
- No. of Ports	: 16 32
- Interface	: 100Mb/s ports
- Long Distance Transmission	: $\geq 250m$
- Power Supply	: 100 to 240V AC, 50/60 Hz
- Inclusive	: Necessary accessories

Prepared by:

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Recommended by:

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OIC, Inspection Team (IIU-SSD)

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Approved by:

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Concurrent OIC, Security Services Department and
OIC, Inspection and Investigation Unit

Note: Technical Specifications for CCTV Surveillance System shall undergo Annual Review in coordination with CFMD