



**TEST**  
LOGO

Edit your logo in : View – Slide Master !!  
Delete this textbox after inserting the logo

# Project Documentation

Site: Your customer name  
Address and photo if applicable



**Designed by: Your Company Name**

**Date: 10 / 2023**



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## PART 1 CONTACTS AND SERVICE

• **PROJECT MANAGER** \_\_\_\_\_

**PHONE:** \_\_\_\_\_

**EMAIL:** \_\_\_\_\_

• **LEAD TECHNICIAN** \_\_\_\_\_

**PHONE :** \_\_\_\_\_

**EMAIL:** \_\_\_\_\_

• **OFFICE**

**PHONE :** \_\_\_\_\_

**EMAIL:** \_\_\_\_\_

• **SERVICE**

**PHONE :** \_\_\_\_\_

**EMAIL:** \_\_\_\_\_

DATE OF PROJECT END: \_\_\_\_\_

WARRANTY TILL THE END OF :       MONGTH/YEAR



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## PART 2 DESCRIPTION

The main target of this project is implementing security systems in the office building and maintaining safety on the premises via:

### **CCTV System**

CCTV cameras have been installed in all public premises in order to prevent crime and maintain safety.

The recorded information is stored for **30** days and accessible from a dedicated work station in the managers office.

Live view of the cameras is accessible from the lobby concierge work station.

### **ACCESS CONTROL**

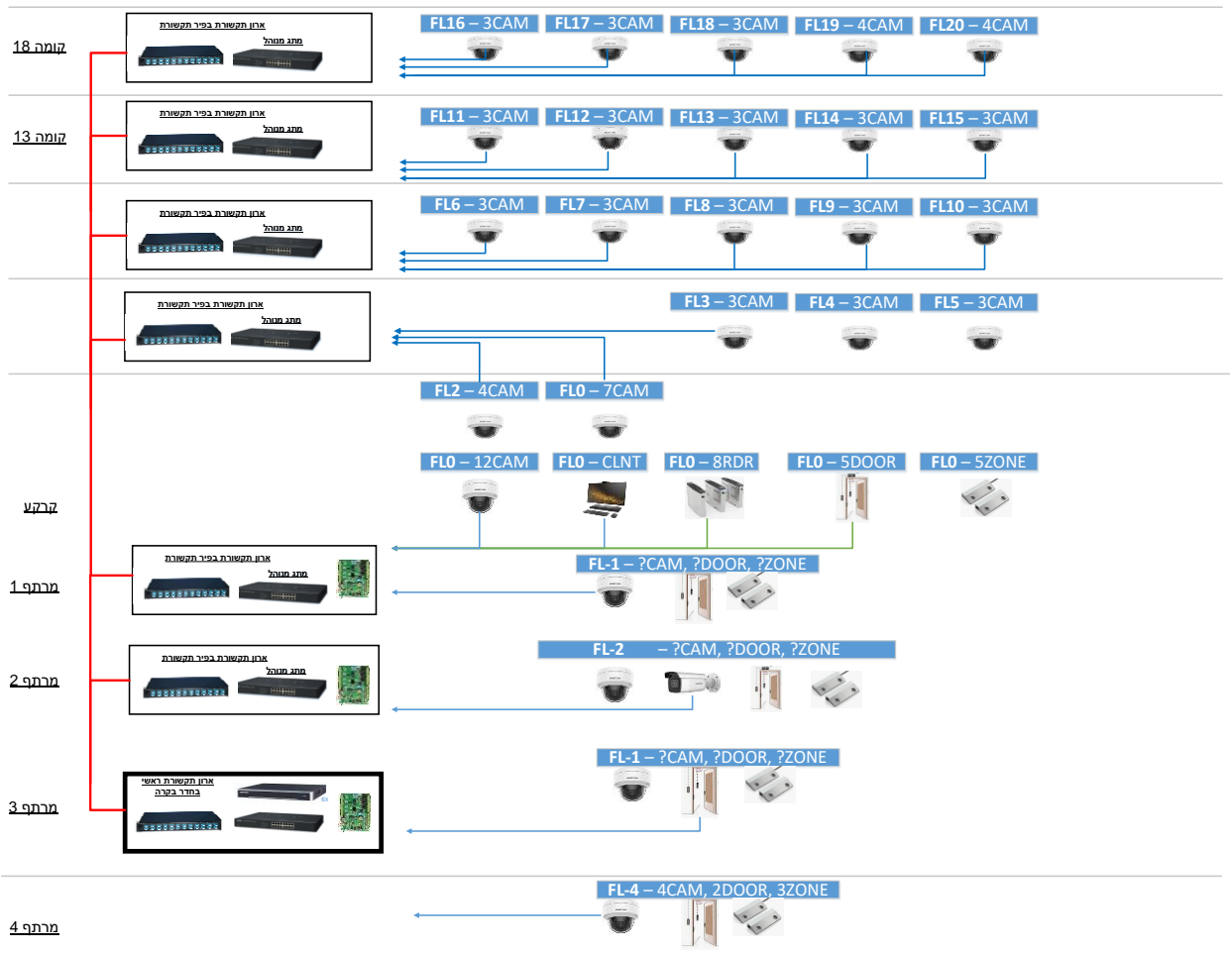
All lobby entry doors and technical rooms doors are equipped by digital locks securing the premises and preventing access from unauthorized individuals.

Authorized access is performed via personal cards and calling the concierge by the intercoms

**Please edit this text to match your project systems and equipment**



## PART 3 BLUEPRINTS AND SCHEMES 3.1 VERTICAL SCHEME

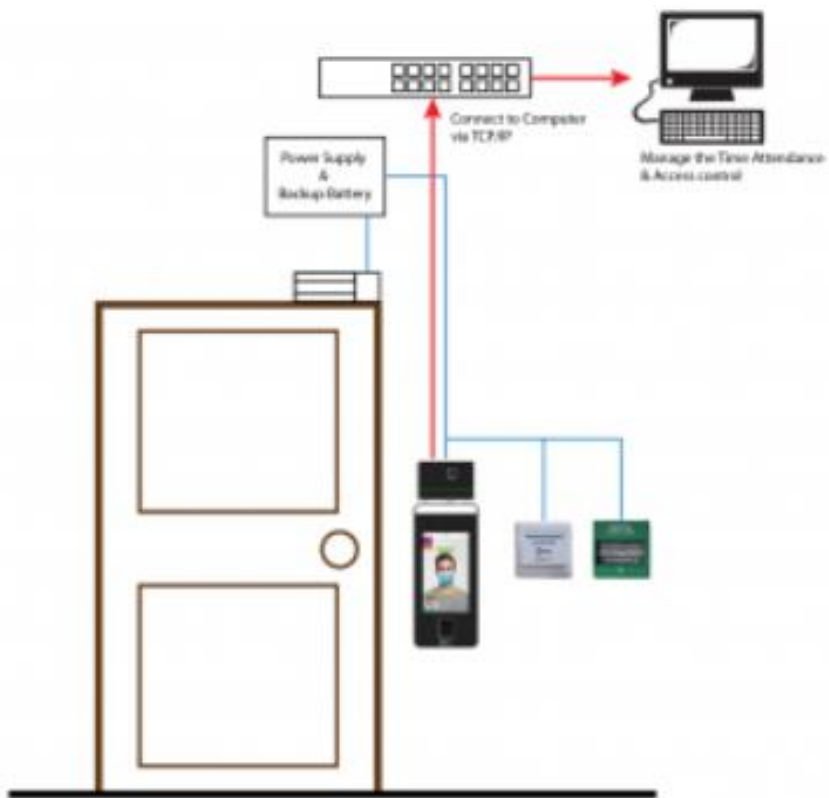


CAN BE SCHETCHED IN VISIO OR ANOTHER SIMILAR EDITOR



# TEST LOGO

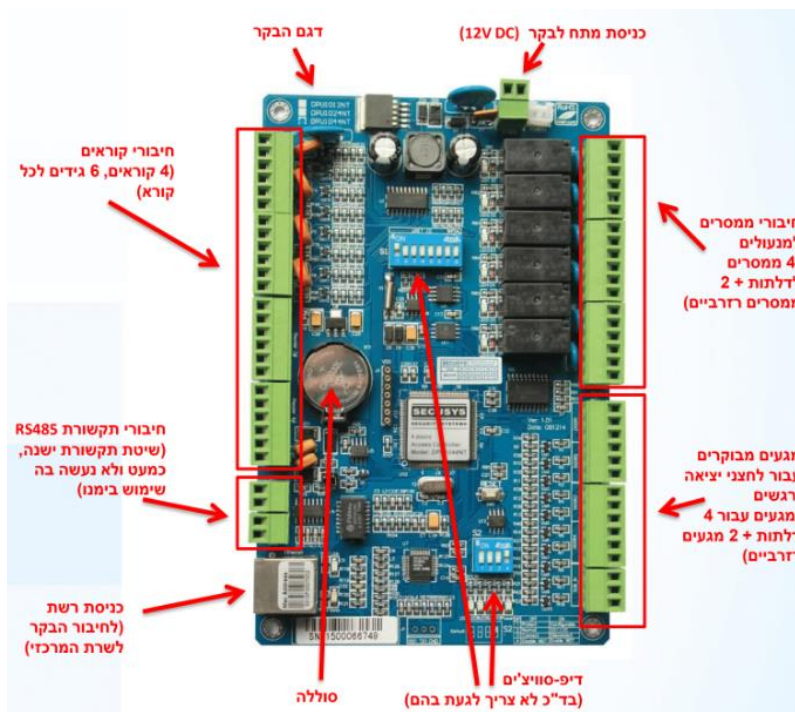
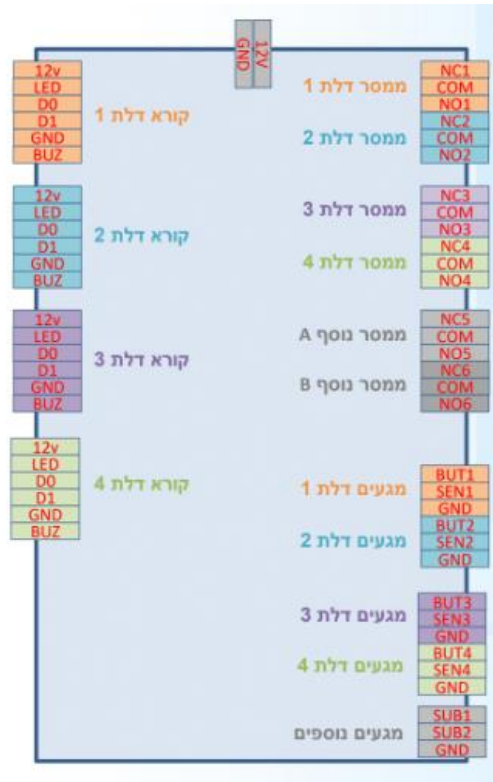
## 3.2 DOOR SCHEME



USUALLY CAN BE FOUND IN PROJECT DESCRIPTION  
OR FROM A CONSULTANT SPECIFICATIONS  
IF NOT APPLICABLE, CAN BE SCHEMATICED IN VISIO OR  
ANOTHER SIMILAR EDITOR



## 3.3 CONTROLLER SCHEME



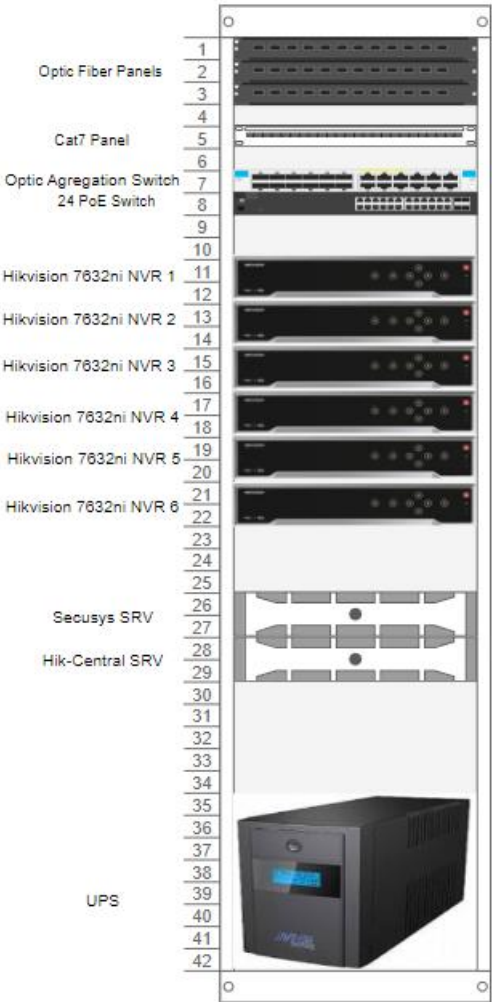
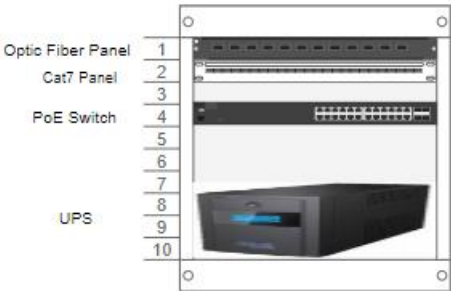
USUALLY CAN BE DOWNLOADED FROM THE TECHNICAL SHEETS OF EQUIPMENT ON MANUFACTURERS WEBSITE



# 3.4 COMMUNICATION RACK SCHEME

TYPICAL RACK

MAIN CORE RACK



USUALLY DONE IN MICROSOFT VISIO OR ANY OTHER SCHEME EDITOR . I RECOMMEND DRAW.IO SOFTWARE





# 3.5 SPEED GATES

## SAMPLE SPEED GATES IN THE PROJECT



## SAMPLE ENTRY PANEL



# 4. TESTING RESULTS



Cable ID	Summary	Test Limit	Length	Headroom	Date / Time
Test 1	PASS	5GBASE-T	39 ft	N/A	10/02/2022 05:33 AM
Test 2	PASS	5GBASE-T	39 ft	N/A	10/02/2022 05:37 AM
Test 3	PASS	5GBASE-T	39 ft	N/A	10/02/2022 05:39 AM
Test 4	PASS	5GBASE-T	39 ft	N/A	10/02/2022 05:41 AM
Test 5	PASS	5GBASE-T	39 ft	N/A	10/02/2022 05:42 AM
Test 6	PASS	5GBASE-T	40 ft	N/A	10/02/2022 05:44 AM
Test 7	PASS	5GBASE-T	40 ft	N/A	10/02/2022 05:45 AM
Test 8	PASS	5GBASE-T	25 ft	N/A	10/02/2022 06:09 AM
Test 9	PASS	5GBASE-T	26 ft	N/A	10/02/2022 06:12 AM
Test 10	PASS	5GBASE-T	25 ft	N/A	10/02/2022 06:14 AM
Test 11	PASS	5GBASE-T	26 ft	N/A	10/02/2022 06:18 AM
Test 12	PASS	5GBASE-T	26 ft	N/A	10/02/2022 06:19 AM
Test 13	PASS	5GBASE-T	26 ft	N/A	10/02/2022 06:20 AM
Test 14	PASS	5GBASE-T	26 ft	N/A	10/02/2022 06:22 AM
Test 15	PASS	5GBASE-T	36 ft	N/A	10/02/2022 06:24 AM
Test 16	PASS	5GBASE-T	36 ft	N/A	10/02/2022 06:25 AM
Test 17	PASS	5GBASE-T	36 ft	N/A	10/02/2022 06:26 AM
Test 18	PASS	5GBASE-T	35 ft	N/A	10/02/2022 06:28 AM
Test 19	PASS	5GBASE-T	35 ft	N/A	10/02/2022 06:29 AM
Test 20	PASS	5GBASE-T	35 ft	N/A	10/02/2022 06:35 AM
Test 21	PASS	5GBASE-T	35 ft	N/A	10/02/2022 06:36 AM
Test 22	PASS	5GBASE-T	44 ft	N/A	10/02/2022 06:38 AM
Test 23	PASS	5GBASE-T	44 ft	N/A	10/02/2022 06:40 AM
Test 24	PASS	5GBASE-T	44 ft	N/A	10/02/2022 06:42 AM
Test 25	PASS	5GBASE-T	41 ft	N/A	10/02/2022 06:46 AM
Test 26	PASS	5GBASE-T	41 ft	N/A	10/02/2022 06:47 AM
Test 27	PASS	5GBASE-T	41 ft	N/A	10/02/2022 06:49 AM
Test 28	PASS	5GBASE-T	41 ft	N/A	10/02/2022 06:50 AM
Test 29	PASS	5GBASE-T	42 ft	N/A	10/02/2022 06:52 AM
Test 30	PASS	5GBASE-T	42 ft	N/A	10/02/2022 06:53 AM
Test 31	PASS	5GBASE-T	43 ft	N/A	10/02/2022 07:01 AM
Test 32	PASS	5GBASE-T	42 ft	N/A	10/02/2022 07:02 AM
Test 33	PASS	5GBASE-T	43 ft	N/A	10/02/2022 07:04 AM
Test 34	PASS	5GBASE-T	47 ft	N/A	10/02/2022 07:06 AM
Test 35	PASS	5GBASE-T	47 ft	N/A	10/02/2022 07:07 AM
Test 36	PASS	5GBASE-T	88 ft	N/A	10/02/2022 07:11 AM
Test 37	PASS	5GBASE-T	88 ft	N/A	10/02/2022 07:12 AM
Test 38	PASS	5GBASE-T	88 ft	N/A	10/02/2022 07:13 AM
Test 39	PASS	5GBASE-T	77 ft	N/A	10/02/2022 07:16 AM
Test 40	PASS	5GBASE-T	77 ft	N/A	10/02/2022 07:17 AM
Test 41	PASS	5GBASE-T	67 ft	N/A	10/02/2022 07:19 AM
Test 42	PASS	5GBASE-T	67 ft	N/A	10/02/2022 07:20 AM
Test 43	PASS	5GBASE-T	69 ft	N/A	10/02/2022 07:21 AM
Test 44	PASS	5GBASE-T	58 ft	N/A	10/02/2022 07:36 AM
Test 45	PASS	5GBASE-T	57 ft	N/A	10/02/2022 07:37 AM
Test 46	PASS	5GBASE-T	58 ft	N/A	10/02/2022 07:39 AM
Test 47	PASS	5GBASE-T	67 ft	N/A	10/02/2022 07:40 AM
Test 48	PASS	5GBASE-T	67 ft	N/A	10/02/2022 07:49 AM
Test 49	PASS	5GBASE-T	67 ft	N/A	10/02/2022 07:55 AM
Test 50	PASS	5GBASE-T	173 ft	N/A	10/02/2022 08:06 AM
Test 51	PASS	5GBASE-T	173 ft	N/A	10/02/2022 08:06 AM
Test 52	PASS	5GBASE-T	174 ft	N/A	10/02/2022 08:10 AM
Test 53	PASS	5GBASE-T	72 ft	N/A	10/02/2022 08:12 AM
Test 54	PASS	5GBASE-T	72 ft	N/A	10/02/2022 08:25 AM



# TEST LOGO



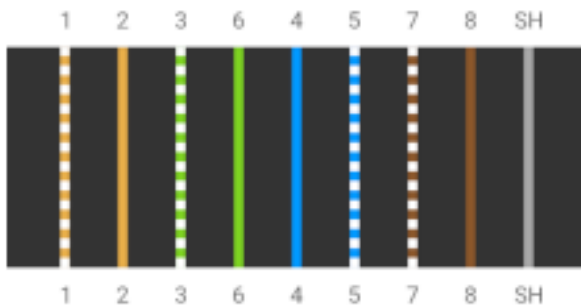
### Cable ID: Test 1

Operator: Port 3B  
 Date / Time: 10/02/2022 05:33:54 AM  
 NVP: 68%  
 Shield Test: Yes  
 Crossovers Allowed: Yes  
 Pinout: T568B  
 Limit: 5GBASE-T

Test Summary: PASS

Main: LinkIQ  
 Serial Number: 22100212  
 Software Version: 1.1 Build 3

Wire Map (T568B): PASS



Remote ID : 1

Length: 39 ft

Pair	Length (ft)
1,2	39
3,6	39
4,5	39
7,8	39

Data Rates

Rate	Selected	Status	Reason for Failure
10BASE-T		PASS	
100BASE-TX		PASS	
1000BASE-T		PASS	
2.5GBASE-T		PASS	
5GBASE-T	<input checked="" type="checkbox"/>	PASS	
10GBASE-T		PASS	

LinkWare™ PC Version 11.1

Project: maccbi  
 Site: Not Set  
 Floor: Not Set  
 Rack: Not Set  
 Untitled2

Building: Not Set  
 Room: Not Set  
 Patch: Not Set





## PART 5 NETWORK ADDRESS TABLES

### 5.1 RECORDING CHANNELS

NVR FLOOR	NVR 01	NVR 02	NVR 03	TOTAL
-2	-	-	3	3
-1	3	3	3	9
G	2	2	2	6
1	2	2	3	7
2	1	1	2	4
3	3	-	-	3
4	3	-	-	3
5	3	-	-	3
6	3	-	-	3
7	3	-	-	3
8	3	-	-	3
9	-	3	-	3
10	-	3	-	3
11	-	3	-	3
<b>TOTAL</b>	<b>26</b>	<b>17</b>	<b>13</b>	<b>56</b>



## PART 5.2 NETWORK ADDRESS

**IP NETWORK**     172.20.0.0/18

**SUBNET MASK**   255.255.192.0

**GATEWAY**        172.20.63.254

## PART 5.3 NVR ADDRESS TABLE

<u>NVR</u>	<u>IP</u>	<u>MAC</u>	<u>USER</u>	<u>PASS</u>
HIK-SRV	172.20.60.100			
HIK-CLNT	172.20.60.101			
NVR01	172.20.60.1		admin	
NVR02	172.20.60.2		admin	
NVR03	172.20.60.3		admin	

## PART 5.4 CONTROLLER ADDRESS TABLE

<u>SECUSYS</u>	<u>IP</u>	<u>MAC</u>	<u>USER</u>	<u>PASS</u>
SEC-SRV	172.20.60.50			
SEC01	172.20.60.51		admin	
SEC02	172.20.60.52		admin	
SEC03	172.20.60.53		admin	
SEC04	172.20.60.54		admin	
SEC05	172.20.60.55		admin	
SEC06	172.20.60.56		admin	
SEC07	172.20.60.57		admin	
SEC08	172.20.60.58		admin	
RISCO	172.20.60.70			
SEC-CLNT	172.20.60.80			

## PART 5.5 NETWORK SWITCHES

FL8	172.20.61.8	admin	
FL3	172.20.61.3	admin	
FL-1	172.20.61.51	admin	
FL-2	172.20.61.52	admin	
FL-3	172.20.61.53	admin	
FL-3-CORE	172.20.61.54	admin	
FL-5	172.20.61.55	admin	



## 5.6 CAMERA ADDRESS TABLE

CAMS	IP	MAC	USER	PASS
FL17	003 - 172.20.17.001		admin	
FL16	003 - 172.20.16.001		admin	
FL15	003 - 172.20.15.001		admin	
FL14	003 - 172.20.14.001		admin	
FL13	003 - 172.20.13.001		admin	
FL12	003 - 172.20.12.001		admin	
FL11	003 - 172.20.11.001		admin	
FL10	003 - 172.20.10.001		admin	
FL9	003 - 172.20.09.001		admin	
FL8	003 - 172.20.08.001		admin	
FL7	003 - 172.20.07.001		admin	
FL6	003 - 172.20.06.001		admin	
FL5	003 - 172.20.05.001		admin	
FL4	003 - 172.20.04.001		admin	
FL3	003 - 172.20.03.001		admin	
FL2	004 - 172.20.02.001		admin	
FL0	019 - 172.20.00.001		admin	
FL-1	010 - 172.20.51.001		admin	
FL-2	010 - 172.20.52.001		admin	
FL-3	010 - 172.20.53.001		admin	



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## PART 6 SAFETY INSTRUCTIONS

- Do not disconnect or connect a component of the system that is not by the hands of our authorised technician
- If there is a malfunction or damage such as exposed wires or a disassembled accessory, do not touch the wiring or the accessory and immediately open a service call
- Do not connect a foreign network component to the security network. The security network is a network in a closed circuit .
- It is strictly forbidden to connect an external accessory or an external communication cable
- Do not connect a media component such as a foreign USB disk to the security computers
- Connecting foreign media can lead to breaching of the security system and heavy fines will apply to those who violate this instruction
- Passwords, as well as any details of the security components, must not be given to a third party, including the amount and deployment of the means, the type of means, the work procedures and any other details
- Do not make any changes to the layout of the security network except by our authorized technician



## PART 7 DATASHEETS

### 7.1.1 CCTV VMS SOFTWARE

**HIKVISION**

#### HikCentral Professional

HikCentral Professional is a software platform provided by Hikvision for integrating and managing security systems. It is designed to meet a variety of security challenges on a single platform. With HikCentral Professional, you can manage multiple individual systems with ease, such as video security, access control, security alarms, and more, as well as explore cross-system functionalities.

Daily operations become more efficient while protection of people and property improve all around. Users of all kinds are making smarter decisions.



#### Key Feature

##### Light and Efficient

- Lightweight architecture features reduced consumption of system resources
- Capable of managing multiple systems of varying sizes with consistent efficiency

##### Unified and Flexible

- Supports combining various application plug-ins under a unified, on-demand architecture for collaboration across business segments
- New plug-ins can be continuously developed to meet new business needs

##### Integrated and Open

- Compatible with virtually all Hikvision products and their abundance of applications, including deep-learning-based analytics and statistics
- Open architecture permits easy integration with third-party systems and hardware





## 7.1.1 CCTV VMS SOFTWARE

### • Features of Main Modules

Module	Features
<b>Video</b>	<ul style="list-style-type: none"> <li>● Efficient and comprehensive video security</li> <li>● Quick incident search and location, convenient event search, and quick run-through of video</li> <li>● Video export as evidence</li> <li>● Low bandwidth network adaptability</li> <li>● Reliable and flexible storage</li> </ul>
<b>Access Control</b>	<ul style="list-style-type: none"> <li>● Comprehensive and flexible access management methods</li> <li>● Advanced access strategies for sensitive areas</li> <li>● Convenient employee badge design and printing</li> <li>● Clear step-by-step guidance</li> <li>● Remote personnel registration</li> <li>● Automatically lock or unlock doors</li> <li>● Keep doors in a remain unlocked status during an emergency</li> <li>● Easily count and verify everyone’s safety</li> <li>● Opening door via Bluetooth and NFC</li> </ul>
<b>Visitor</b>	<ul style="list-style-type: none"> <li>● Digitalized visitor management</li> <li>● Visitor registration in advance</li> <li>● Pre-defined access permissions and traceable records</li> <li>● A Watchlist function along with personalized design and printing of badges</li> </ul>
<b>Vehicle</b>	<ul style="list-style-type: none"> <li>● Flexible and efficient entrance &amp; exit management</li> <li>● Improved parking experience for drivers</li> <li>● Self-service parking query</li> <li>● Flexible billing</li> <li>● Intuitive and efficient parking operation analysis and transaction analysis reports</li> </ul>
<b>On-Board Monitoring</b>	<ul style="list-style-type: none"> <li>● Efficient vehicle monitoring for quick response</li> <li>● Reliable archive management</li> <li>● Customized reports for enhanced operational efficiency</li> </ul>
<b>Alarm Detection</b>	<ul style="list-style-type: none"> <li>● Centrally manage various alarm sources</li> <li>● Real-time display of all kinds of alarms</li> <li>● Flexible linkage</li> <li>● Automatic audio alarms</li> </ul>
<b>Intelligent Analysis</b>	<ul style="list-style-type: none"> <li>● The video-based intelligent analysis dashboard enables flexible and extensible digital applications</li> <li>● Smart commercial analyses</li> </ul>
<b>Digital Signage</b>	<ul style="list-style-type: none"> <li>● Manage and configure content for digital signage in an intuitive manner</li> <li>● Pre-installed program templates</li> <li>● All programs are created visually</li> </ul>
<b>Time &amp; Attendance</b>	<ul style="list-style-type: none"> <li>● Flexible attendance rule-setting</li> <li>● Diverse attendance reports and customizable templates</li> <li>● Easy integration with third-party payroll systems</li> <li>● Supports employees searching for attendance results and submitting applications for correction</li> </ul>
<b>Maintenance</b>	<ul style="list-style-type: none"> <li>● Visualized network and device topology and alarm notifications</li> <li>● Logs are available for event trackback and evidence</li> </ul>



## 7.1.1 CCTV VMS SOFTWARE

### Software Specification

The following table shows the maximum performance of the SYS (System Management Server). For other detailed data and performance, refer to *Software Requirements and Performance*.

Features		Maximum Performance
<b>General</b>		
<b>Manageable Resource</b>	Managed Devices <i>*Including Encoding Devices, Access Control Devices, Elevator Control Devices, Security Control Devices, Digital Signage Terminals, Interactive Flat Panels, Remote Sites, Guidance Terminals, and IP Speakers</i>	2,048
	Encoding Devices Supporting ONVIF Protocol	2,048
	Video Intercom Devices	5,000
	Guidance Screens	512
	Visitor Terminals	32
	Dock Stations	1,500
	Network Transmission Devices	128
	On-Board Devices	1,000
	Fire Protection Devices	2,048
	Entrance/Exit Stations	40
	Query Terminals	16
	DeepinMind Server	64
	Recording Servers	64
	Streaming Servers	64
	Cameras	10,000 With RSM: 100,000
	Maximum Number of Fisheye Cameras	10,000
	Maximum Number of Cameras for People Counting	10,000
	Alarm Inputs (excluding security control panels and panic alarm devices)	5,000
	Alarm Inputs of Security Control Devices	10,000
	Security Control Partitions (Areas)	2,048
	Alarm Outputs	3,000
	Security Radars and Radar PTZ Cameras	30
	DS-5600 Series Face Recognition Terminals When Applied with Hikvision Turnstiles	32
	ANPR Cameras	3,000
	People Counting Cameras	Recommended: 3,000
	Heat Map Cameras	Recommended: 1,024
	Queue Management Cameras	Recommended: 3,000
Thermal Cameras	Recommended: 20 <sup>①</sup>	
Cameras per Area		
Alarm Inputs per Area	256	
Alarm Outputs per Area		
<b>Event &amp; Alarm</b>	Event and Alarm Rules	10,000
	Storage of Events or Alarms Without Pictures	1,000/s
	Storage of Events or Alarms with Pictures	20/s (Stored in SYS) 80/s (Stored in Recording Server)
	Events or Alarms Sent to Clients <i>*The clients include Web Client, Control Clients and Mobile Clients.</i>	<ul style="list-style-type: none"> <li>● <b>Web Client:</b> 20 events or alarms with picture per second; 40 events or alarms without picture per second; 100 access events/s.</li> <li>● <b>Control Client:</b> 120 events or</li> </ul>



## 7.1.1 CCTV VMS SOFTWARE

		alarm/s. ● 100 Clients/s
	Combined Alarm	10/s
	User-Defined Events	10,000
<b>User and Role</b>	Concurrent Accesses via Web Clients and Control Clients	100
	Concurrent Accesses via Mobile Clients	100
	Users	3,000
	Roles	3,000
	Users for Double Authentications	50
<b>Person</b>	Departments	3,000
	Department Hierarchies	10
	Size of a Profile Picture	300 KB
	Total Size of Profile Pictures	300 GB
	Resigned Persons	100,000
	Resignation Types	100
<b>Data Storage</b>	Data Retention Period	Stored for 3 Years
	People Counting	5 million each year
	Heat Map	0.25 million each year
	ANPR Records	60 million each year
	Events	
	Alarms	
	Access Records	1.4 billion each year
	Attendance Records	55 million each year
	Visitor Records	10 million each year
	Operation Logs	5 million each year
	Service Information Logs	
	Service Error Logs	
	Recording Tags	60 million each year
<b>Report</b>	Scheduled Report Rules of Event and Alarm	100
	Event or Alarm Rules in One Event/Alarm Report Rule	32
	Records in One Sent Report	10,000 or 10 MB
	Resources Selected in One Report <i>*With this limitation, you can generate a neat and clear report via the Control Client and it costs less time.</i>	32
	Maximum Number of Stores	1,000
<b>Video &amp; Intelligent Analysis</b>		
<b>Recording</b>	Recording Schedule	30,000
	Recording Schedule Template	200
<b>Face Comparison</b>	Face Pictures for Comparison	1,000,000
	Face Comparison Groups	64
	Persons in One Face Comparison Group	1,000,000
	Storage of Face Comparison Events Without Pictures	1,000/s
	Storage of Face Comparison Events with Pictures	100/s (Stored in Recording Server)
<b>Intelligent Recognition</b>	Intelligent Analysis Groups	1,000
	Resources in One Group	64
	Persons for Intelligent Recognition	1000,000
<b>BI</b>	Total Stores	1,000
	Total Analysis Group	1000
<b>AR Monitoring</b>	AR Scenes	100
	Plans	512 <i>Note: Up to 100 scenes are allowed for each plan.</i>
	Tags for Each Scene	200
	Tag Groups for Each Scene	100
<b>Evidence Management</b>	Evidences	100,000



## 7.1.1 CCTV VMS SOFTWARE

	Evidence Files	5,000,000
<b>Smart Wall</b>	Decoding Devices	32
	Smart Walls	32
	Network Keyboard	8
	Views	1,000
	View Groups	100
	Views in One View Group	10
	Cameras in One View	256
	Cameras in One Window of Auto-Switch	20
	Windows of an Auto-Switch	16
	View Group of an Auto-Switch	1
	<b>Streaming Server</b>	Video Input Bandwidth per Streaming Server
Video Output Bandwidth per Streaming Server		200 × 2 Mbps
<b>Access Control &amp; Time and Attendance &amp; Visitor</b>		
<b>Access Control</b>	Persons with Credentials for Access Control	50,000
	Total Credentials (Card + Fingerprint)	250,000
	Cards	250,000
	Fingerprints	200,000
	Irises	100,000
	Profiles	50,000
	Access Points (Doors + Floors)	1,024
	Access Levels	512
	Access Schedules	32
	Templates for Card Printing	32
<b>Time and Attendance</b>	Persons for Time and Attendance	50,000
	Schedules	128
	Holidays	32
	Break Timetable	128
	Custom Rules for T&A Status on Device	128
	Overtime Types	128
	Leave Types	100
	Approval Roles	1,000
	Approval Flows	500
	Concurrent Login of Employees via Client	500
<b>Visitor Management</b>	Visitors	100,000
	Visitor Check-In or Reservation Records	100,000
	Visitor Email Templates	20
	Entities in Watch List	10,000
	Card Template	20
<b>Vehicle and Parking Management</b>		
Vehicles per List		5,000
Vehicles		500,000
Custom Vehicle Types		10
UVSSs		4
Vehicle Undercarriage Pictures		3,000
Storage of ANPR Alarm Without Pictures		1,000/s
Storage of ANPR Alarm with Picture		20/s (Stored in SYS) 100/s (Stored in Recording Server)
Parking Lots		10
Lanes		Total: 40 In One Parking Lot: 32
Parking Spaces		Total: 3,000 In One Floor: 1,024
Floors in All Parking Lots		128
Cards Linked with Vehicles		250,000
Temporary Cards in One Parking Lot		10,000



## 7.1.2 NVR DATASHEET

**HIKVISION**

### DS-7700NI-I4 SERIES NVR



#### Features and Functions

##### Professional and Reliable

- Dual-OS design to ensure high reliability of system running. The system has Linux embedded with the Pentaplex function
- The system has language: Portuguese and English
- HDD hot swap with RAID0, RAID1, RAID5, RAID6 and RAID10 storage scheme configurable
- Support different levels of the user with the possibility of the lock cameras for the user. Support 10 user connection in the same time. Support, remote configuration of the system, playback, download, log of the system, update of the device and cameras. Update of the firmware by local system and remote system. Backup of the configuration file.

##### Video Input and Transmission

- Up to 32-ch 12 MP IP cameras can be connected with control of the bit rate per channel. Network interface control
- Real time live view and playback. Web Server with remote access . Format of the video AVI, ASF.

##### Compression and Recording

- H.264+ compression effectively reduces the storage space and costs by up to 50%
- Full channel recording at up to 12MP resolution.

##### Storage and Playback

- Up to 4 SATA interfaces and 1 eSATA interface connectable for recording and backup
- Smart search for efficient playback. Backup by USB interface, by networking and FTP.
- 8/16-ch synchronous playback at up to 1080p resolution with the option to search by date, hour, seconds and motion detection. Support zoom digital in the camera and playback.

##### Smart &POS Function

- The system possibility: live view, playback, record, backup and remote access in the same time.
- Functions: motion detection, loss video, masking of the camera, and offline camera.
- Support of the visualization of the: name of camera, hour, date, record status, motion detection, loss video, lock of the camera, status of the HD, statics of the transmission, log of the events, firmware version, online users and input 4 regions of the mask private

##### Network & Ethernet Access

- Hik Cloud P2P & HiDDNS (Dynamic Domain Name System) for easy network management. IVMS 4200 free included.



[www.hikvision.com](http://www.hikvision.com)





## 7.1.2 NVR DATASHEET

Model		DS-7708NI-I4	DS-7716NI-I4	DS-7732NI-I4
Video/Audio input	IP video input	8-ch	16-ch	32-ch
		Up to 12 MP resolution		
	Two-way audio	1-ch, RCA (2.0 Vp-p, 1 k Ω)		
Network	Incoming bandwidth	80 Mbps	160 Mbps	256 Mbps
	Outgoing bandwidth	256 Mbps		
	Remote connection	32	128	
Video/Audio output	Recording resolution	12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA /4CIF/DCIF/2CIF/CIF/QCIF		
	CVBS output (Optional)	1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480		
	HDMI output resolution	4K (3840 × 2160)/60Hz, 4K (3840 × 2160)/30Hz, 1920 × 1080p/60Hz, 1600 × 1200/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz		
	VGA output resolution	1920 × 1080p/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz		
	Mode of the view	Mosaic with the mode 1, 4, 8, 9 and 16		
Decoding	Decoding format	H.265/H.265+/H.264/H.264+/MPEG4/MJPEG		
	Live view / Playback resolution	12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA /4CIF/DCIF/2CIF/CIF/QCIF		
	Synchronous playback	8-ch	16-ch	32-ch
	Rate recording frame rate	2-ch @ 4K, or 8-ch @ 1080p – 30fps	4-ch @ 4K, or 16-ch @ 1080p – 30fps	4-ch @ 4K, or 32-ch @ 1080p – 30fps
Network management	Network protocols	IPV4 and IPV6, TCP/IP, DHCP, HIK Cloud P2P (DDNS of the Hikvision), DNS, DDNS, NTP, SADP, SMTP, NFS, iSCSI, UPnP™, HTTPS, ONVIF, DYNDNS, NO-IP, FTP, IP filter, HTTP, RTSP, search IP, alarm server, UDP, PPPoE. Send email for 3 differents address with alerts and photos. Alarm of the disconnect networking		
Hard disk	SATA	4 SATA interfaces for 4HDDs		
	Capacity	Up to 6TB capacity for each HDD		
	Functions	Manager HD, error of the record, limited of HD, erro HD. Search of the events: Motion detection, alarm, regular with the hour and date precision. Tags for the mark of the events, 5 speeds of the playback and selection of the file to playback.		
External interface	Network interface	2, RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface, with the possibility to have redundancy networking.		
	Serial interface	1 RS-485 (half-duplex), 1 RS-232		
	USB interface	Front panel: 2 × USB 2.0; Rear panel: 1 × USB 3.0, backup of the image by HD external and drive DVD-RW		
	Alarm in/out	16/4		
General	Power supply	100 to 240 VAC with 60hz		
	Power	≤80 W		
	Consumption (without hard disk)	≤20 W		
	Working temperature	-10 to +55° C (+14 to +131° F)		
	Working humidity	10 to 90 %		
	Chassis	19-inch rack-mounted 1U chassis		
	Dimensions (W × D × H)	385 × 315× 44.45 mm (15.2" 12.4" 1.75")		



## 7.1.3 CAMERA DATASHEET

**HIKVISION**

**DS-2CD1743G0-I(Z)  
4 MP Varifocal Dome Network Camera**



- High quality imaging with 4 MP resolution
- Efficient H.265+ compression technology
- Clear imaging even with strong back lighting due to 120 dB WDR
- Up to 256 GB memory card slot for storage
- 2.8 to 12 mm motorized varifocal lens for easy installation and monitoring
- Water and dust resistant (IP67) and vandal proof (IK10)
- EXIR 2.0: advanced infrared technology with long IR range



[www.hikvision.com](http://www.hikvision.com)



## 7.1.3 CAMERA DATASHEET

### • Specification

Camera	
Image Sensor	1/3" Progressive Scan CMOS
Max. Resolution	2560 × 1440
Min. Illumination	Color: 0.005 Lux @(F1.6, AGC ON), B/W: 0 Lux with IR
Shutter Speed	1/3 s to 1/100,000 s
Wide Dynamic Range	120 dB
Day & Night	IR Cut Filter
Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 70°, rotation: 0° to 355°
Lens	
Lens Type	Varifocal Lens, motoried lens, 2.8 to 12 mm
Focal Length & FOV	2.8 to 12 mm: horizontal FOV 102° to 31°, vertical FOV 54° to 17°, diagonal FOV 123° to 35°
Lens Mount	Ø14
Iris Type	Fixed
Aperture	F1.6
Illuminator	
IR Wavelength	850 nm
IR Range	Up to 30 m
Video	
Main Stream	50 Hz: 20 fps (2560 × 1440) 25 fps (2304 × 1296, 1920 × 1080, 1280 × 720) 60 Hz: 20 fps (2560 × 1440) 30 fps (2304 × 1296, 1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)
Video Compression	Main stream: H.265+/H.265/H.264+/H.264 Sub-stream: H.265/H.264/MJPEG
Video Bit Rate	32 Kbps to 8 Mbps
H.264 Type	Baseline Profile/Main Profile/High Profile
H.265 Type	Main Profile
Region of Interest (ROI)	1 fixed region for main stream
Audio	
Audio Compression	-S: G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/AAC
Audio Bit Rate	-S: 64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 160 Kbps (MP2L2)/16 to 64 Kbps (AAC)
Audio Sampling Rate	-S: 8 kHz/16 kHz
Environment Noise Filtering	-S: Yes
Network	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP™, SMTP, IGMP, 802.1X, QoS, IPv6, Bonjour, IPv4, UDP, SSL/TLS
Simultaneous Live View	Up to 6 channels
API	Open Network Video Interface, ISAPI
User/Host	Up to 32 users. 3 levels: administrator, operator and user





## 7.1.3 CAMERA DATASHEET

Network Storage	MicroSD/SDHC/SDXC card (256 GB) local storage
Client	iVMS-4200, Hik-Connect
Web Browser	Plug-in required live view: IE 10+ Plug-in free live view: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+
<b>Image</b>	
Image Settings	Saturation, brightness, contrast, sharpness, AGC, white balance adjustable by client software or web browser
Day/Night Switch	Auto, Schedule, Day, Night
Image Enhancement	BLC, 3D DNR
<b>Interface</b>	
Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port
On-Board Storage	Built-in memory card slot, support microSD card, up to 256 GB
Audio	-S: 1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input impedance: 4.7 K $\Omega$ , interface type: non-equilibrium 1 output (line out), two-core terminal block, max. output amplitude: 3.3 Vpp, output impedance: 100 $\Omega$ , interface type: non-equilibrium
Alarm	-S: 1 input, 1 output, max. 12 VDC, 30 mA
Reset Key	Yes
<b>Event</b>	
Basic Event	Motion detection, video tampering alarm, exception
Linkage	Upload to FTP, notify surveillance center, send email, upload to memory card, trigger recording, trigger capture
<b>General</b>	
Power	12 VDC $\pm$ 25%, 0.8 A, max. 10 W, $\varnothing$ 5.5 mm coaxial power plug PoE: 802.3af, Class 3, 36 V to 57 V, 0.32 A to 0.2 A, max. 11.5 W
Camera Material	Metal
Camera Dimension	$\varnothing$ 141 mm $\times$ 99.9 mm ( $\varnothing$ 5.6" $\times$ 3.9")
Package Dimension	140 mm $\times$ 140 mm $\times$ 154 mm (5.5" $\times$ 5.5" $\times$ 6.1")
Camera Weight	Approx. 820 g (1.8 lb.)
With Package Weight	Approx. 1200 g (2.6 lb.)
Storage Conditions	-30 $^{\circ}$ C to 60 $^{\circ}$ C (22 $^{\circ}$ F to +140 $^{\circ}$ F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-30 $^{\circ}$ C to 60 $^{\circ}$ C (22 $^{\circ}$ F to +140 $^{\circ}$ F). Humidity 95% or less (non-condensing)
Language	English, Ukrainian
General Function	Anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark, IP address filter
<b>Approval</b>	
EMC	FCC SDoC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC VoC (ICES-003: Issue 6, 2016); KC (KN 32: 2015, KN 35: 2015)



## 7.1.3 CAMERA DATASHEET

**HIKVISION**

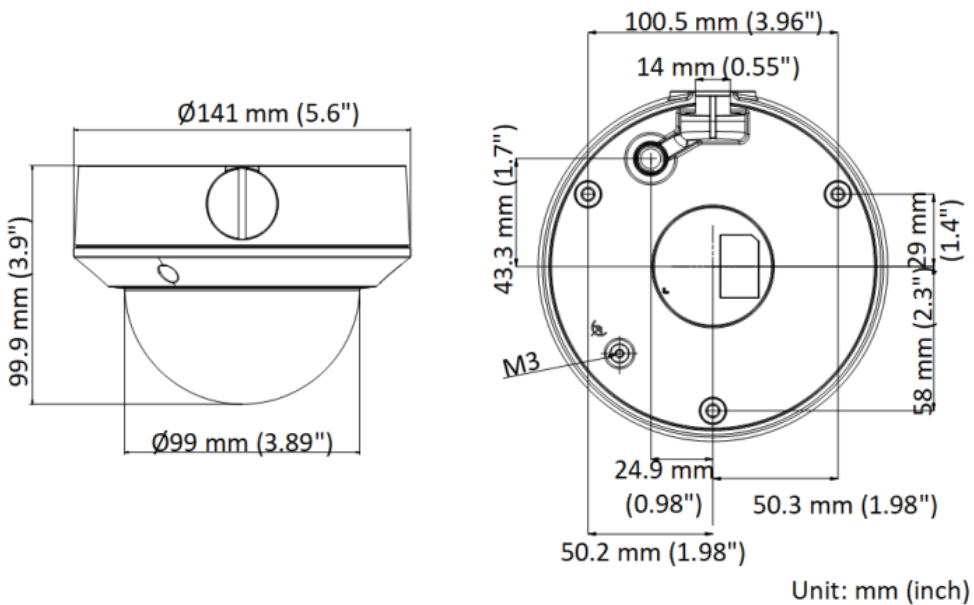
Safety	UL (UL 60950-1); CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014); CE-LVD (EN 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014); BIS (IS 13252(Part 1):2010+A1:2013+A2:2015)
Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)
Electrical Safety Protection	IP67 (IEC 60529-2013), IK10 (IEC 62262:2002)

### ▪ Available Model

DS-2CD1743G0-IZS (2.8 to 12 mm)

DS-2CD1743G0-IZ (2.8 to 12 mm)

### ▪ Dimension

















## 7.1.3 CAMERA DATASHEET



▪ Accessory

▪ Optional

<b>DS-1275ZJ-SUS</b> Vertical Pole Mount	<b>DS-1276ZJ-SUS</b> Corner Mount	<b>DS-1258ZJ-L</b> Wall Mount	<b>DS-1271ZJ-135</b> Pendant Mount	<b>D20-AP</b> Adapter Plate
				
<b>DS-1253ZJ-L</b> Rain Shade	<b>DS-1250ZJ</b> Rain Shade	<b>DS-1227ZJ</b> In-Ceiling Mount	<b>DS-1473ZJ-135B</b> Wall Mount	<b>DS-1273ZJ-135</b> Wall Mount
				
<b>DS-1281ZJ-DM23</b> Inclined Ceiling Mount	<b>DS-1280ZJ-DM21</b> Junction Box			
				



## 7.1.3 CAMERA DATASHEET

**HIKVISION**

**DS-2CD2643G2-IZS**

**4 MP EXIR Motorized Varifocal Bullet Network Camera**



- High quality imaging with 4 MP resolution
- Motorized varifocal lens for easy installation and monitoring
- Clear imaging against strong backlight due to 120 dB WDR technology
- Efficient H.265+ compression technology
- Water and dust resistant (IP67) and vandal resistant (IK10)



[www.hikvision.com](http://www.hikvision.com)



## 7.1.3 CAMERA DATASHEET

### • Specification

Camera	
Image Sensor	1/3" Progressive Scan CMOS
Min. Illumination	Color: 0.005 Lux @ (F1.6, AGC ON), 0 Lux with IR on
Shutter Speed	1/3 s to 1/100,000 s
Slow Shutter	Yes
P/N	P/N
Wide Dynamic Range	120 dB
Day & Night	ICR Cut
Angle Adjustment	Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°
Lens	
Lens Type & FOV	2.8 to 12 mm, horizontal FOV 95.8° to 29.2°, vertical FOV 50.6° to 16.4°, diagonal FOV 114.6° to 33.4°
Aperture	F1.6
Lens Mount	Ø14
DORI	
DORI	2.8 to 12 mm: D: 64 m to 200 m, O: 25.4 m to 79.4 m, R: 12.8 m to 40 m, I: 6.4 m to 20 m
Illuminator	
IR Range	Up to 60 m
Wavelength	850 nm
Video	
Max. Resolution	2688 × 1520
Main Stream	50Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)
Sub Stream	50Hz: 25 fps (640 × 480, 640 × 360) 60Hz: 30 fps (640 × 480, 640 × 360)
Third Stream	50Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360) 60Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)
Video Compression	Main stream: H.265/H.264/H.264+/H.265+ Sub-stream: H.265/H.264/MJPEG Third stream: H.265/H.264
Video Bit Rate	32 Kbps to 8 Mbps
H.264 Type	Baseline Profile/Main Profile/High Profile
H.265 Type	Main Profile
H.264+	Main Stream supports
H.265+	Main Stream supports
Bit Rate Control	CBR/VBR
Scalable Video Coding (SVC)	Yes
Region of Interest (ROI)	1 fixed region for main stream and sub-stream
Audio	
Environment Noise Filtering	Yes
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz
Audio Compression	G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/MP3/AAC



## 7.1.3 CAMERA DATASHEET

Audio Bit Rate	64Kbps(G.711ulaw/G.711alaw)/16Kbps(G.722.1)/16Kbps(G.726)/16Kbps-64Kbps(AAC)/32-192Kbps(MP2L2)/8-320Kbps(MP3)
<b>Network</b>	
Simultaneous Live View	Up to 6 channels
API	Open Network Video Interface (Profile S, Profile G), ISAPI, SDK
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS, PPPoE
User/Host	Up to 32 users. 3 user levels: administrator, operator and user
Security	Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE and digest authentication for Open Network Video Interface
Network Storage	MicroSD/SDHC/SDXC card (256 GB) local storage, and NAS(NFS, SMB/CIFS), auto network replenishment (ANR)
Client	iVMS-4200, Hik-Connect, Hik-Central
Web Browser	Plug-in required live view: IE 10, IE 11 Plug-in free live view : Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+
<b>Image</b>	
Day/Night Switch	Day, Night, Auto, Schedule
Image Enhancement	BLC, HLC, 3D DNR
Image Parameters Switch	Yes
Image Settings	Rotate, mirror, privacy masks, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser
<b>Interface</b>	
Audio	1 input (line in), two-core terminal block, max. input amplitude: 3.3 vpp, input impedance: 4.7 K $\Omega$ , interface type: non-equilibrium; 1 output (line out), two-core terminal block, max. output amplitude: 3.3 vpp, output impedance: 100 $\Omega$ , interface type: non-equilibrium
Alarm	1 input, 1 output (max. 12 VDC, 30 mA)
On-board Storage	Built-in micro SD, up to 256 GB
Hardware Reset	Yes
Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port
<b>Smart Feature-Set</b>	
Basic Event	Motion detection (human and vehicle), video tampering alarm, exception
Smart Event	Line crossing detection, intrusion detection
Face Detection	Yes
<b>General</b>	
Linkage Method	Upload to FTP/memory card/NAS, notify surveillance center, trigger record, trigger capture, Email
Web Client Language	33 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian
General Function	Anti-flicker, heartbeat, password reset via e-mail, pixel counter





## 7.2.1 ACCESS CONTROL



### SECUSYS 2000

#### תוכנת שו"ב מתקדמת מבית SECUSYS

תוכנת שו"ב SECUSYS 2000 הנה יישום רב עוצמה המאפשר שילוב של מערכות האבטחה האלקטרוניות בארגון אל מערכת ניהול מרכזית. התוכנה מאפשרת שליטה מלאה בכל רכיבי האבטחה בארגון, תגובות אוטומטיות מגוונות, שליטה קלה בזמן אמת, והתאמה אישית מתקדמת. התוכנה מציעה פתרון כולל לצרכי האבטחה של ארגונים בכל גודל, מאפשרת הפעלה והטמעה של תכונות ייחודיות בהתאם לצרכי הלקוח, ומציגה גמישות גבוהה תוך הקפדה על ביצועים גבוהים ויציבות מקסימלית.





## 7.2.1 ACCESS CONTROL



### בקרת כניסה

SECUSYS 2000 תואמת באופן מוחלט את הבקרים של חברת KEYKING, ומאפשרת שליטה מלאה, ניהול פשוט ומעקב מתמיד אחר הבקרים והדלתות של הארגון, ומאפשרת לנהל אותם מרחוק באופן מלא, ולקבל מהם מידע והתראות בזמן אמת

#### שליטה ובקרה מלאה על מצב הדלתות במתקן

- אינדיקציית מצב דלת, ופתיחת המנעול בלחיצת כפתור
- לוח פעולה ראשי לכל דלת, כולל התאמה לימות השבוע וחגים
- אינדיקציית דלת מוטורדת, כולל הפעלה של זמזם מובנה בקורא ותגובות חכמות
- אינדיקציית פריצה, כולל הפעלה של זמזם מובנה בקורא ותגובות חכמות

#### מגוון רכיבי חומרה

- תמיכה בבקרי ניהול למעליות
- תמיכה בקוראים ביומטריים לטביעות אצבע וזיהוי פנים, לשיפור רמת האבטחה
- מערכת ניהול מתקדמת לבקרי I/O
- תמיכה במגוון רחב של טכנולוגיות קריאה, תאימות Wiegand 24bit-72bit מלאה
- משיכה ודחיפה של מידע מהבקרים באופן אוטומטי וללא המתנה







## 7.2.2 ACCESS CONTROLLER



### 8 Doors, 8 Readers, Access Controller Model DPU3088NT+, 3 Series, Advanced Range



#### Range Description

The 3 Series of access controllers can be used in a standalone or networked configuration mode, are compatible with the 3 Series access controllers and Lift Controllers and Multi IO Controllers. The 3 Series controllers can be connected to a TCP/IP network, and work perfect with Sphinx.

#### Controller Description

The **DPU3088NT+**, (KEYKING, 3 Series, Door Controller, 4 Doors, 8 Readers, TCP/IP Enabled) is an advanced 4 doors access controller allowing for the connection of both In and Out card readers.

#### Controller Specifications

- CPU: 32 Bit Processor
- 8 Door Relay (NC/NO)
- 8 Door Sensor (NO)
- 8 Exit Button
- **2 Auxiliary Output Relays**
- **4 Auxiliary Inputs**
- 8 Wiegand Readers
- RS-232/RS-485/TCP/IP interface
- Up to 127 controllers per RS-485 bus
- Supports online computer polling
- Communication speed: 19200/9600/4800
- 15 Time Groups for each door
- Card Capacity: 30,000
- **Transaction Storage: 100,000 events**
- Maximum LAN Distance: 1200 meters (4000ft) using RS-485.
- Operating Voltage: 12V DC (±10%)
- 110/220 AC (50/60HZ) switched mode 12V DC 6A Power Supply c/w 13.8V DC battery charging circuit
- 12VDC Output while POE+: 2A;
- Operating Current: ≤200mA
- Standby Current: ≤150mA
- Working Temperature: -40C~70C
- **Data Memory: 16M bit (protected)**
- 1 Lithium battery backup (up to 10 years data retention)
- Metal case dimensions: 403mm x 384mm x 72mm
- Weight: 0.2Kg (without metal case)  
4.7Kg (with metal case & PSU)

#### Features

1. 32 bit ST ARM® CortexTM-M3 processor with 16MBit data memory
2. Communication Modes: RS-232 (max 50ft), RS-485 (max 4000ft) or TCP/IP
3. On board 100MBit real TCP/IP
4. Compatible with all Wiegand reader formats from 24 to 72 Bits
5. Event Flow Control
6. Supports 500 Visitors
7. Supports Master + Slave Group cards
8. POE+, Power Over Ethernet plus
9. CE, FCC, RoHS approval





## 7.2.3 ACCESS READER


# SECU-NET

### Smart Access Control


### SC-S3RX

### Multi-Proximity Reader

#### Features

 Ultra- low power consumption  
Standby current less than 30mAh

 Wiegand 34 bit

 Fast read: less than 100ms



#### Specifications

Model	SC-S3RX
Frequency	125Khz + 13.56Mhz
Reading Technology	LF, TK, EM, AWID, HF, Mifare, Dessfire
Reading interval	Less than 100ms
Reading Distance	7cm
Waterproof Degree	IP66
Operating Humidity	0%~98% RH
Operating temperature	-40°C~60°C
Operating Voltage	9-24V DC
Standby Current	≤25mA
Dimensions	120 * 48 * 20 mm





## 7.2.3 ACCESS READER



### Desktop Reader 5588U-U

Integrated Security Solutions



**5588U-U**  
(Mifare Desktop Reader)

#### Features

- Desktop Card enrolment reader
- Easy to use with no driver required.
- USB plug and play.
- Supports all M-1, S50 or Compatible cards.
- Cursor output..
- No need for integrated development
- Good compatibility supports Windows, Linux operating systems.
- Directly powered from the USB port.
- 5588 series is manufactured in KEYKING's ISO:9001 registered facility.

5588U-U can be easily disinfected in areas where hygiene is important, and has an exceptionally long life due to no moving parts. The unit resists the elements such as glue, oil, rain, ice, snow, ideal for hospitals, industrial and commercial application.

This dual-application product has advanced reader features for wide compatibility with different controller types including multiple RFID card transmission formats, LED & Buzzer control.

#### Specifications

- Maximum read range: 8 cm
- Modulation: ASK at 13.56M kHz
- Reading Protocol: Serial Number
- Operating Voltage: USB Power, 5VDC
- Reading speed: <0.2s
- Communication Distant: 1M
- Communication Port : USB
- Working Temperature: -30°C to 65°C
- LED Control Input: Dry Contact, Normally Open
- Buzzer Control Input: Dry Contact, Normally Open
- Dimensions: 100mm L x 140mm W x 30mm D
- Weight: 400 g



#### KEYKING TECH LIMITED

Add: 5F, Keyking Building, 12th, Shangwei Industrial No.1 Road, Zhangkengjing, Guanhu Town, Longhua New District, Shenzhen, China, 518110.  
Tel: (86)755-8829 9009 Fax: (86)755-8829 9004 Website: www.keyking.net

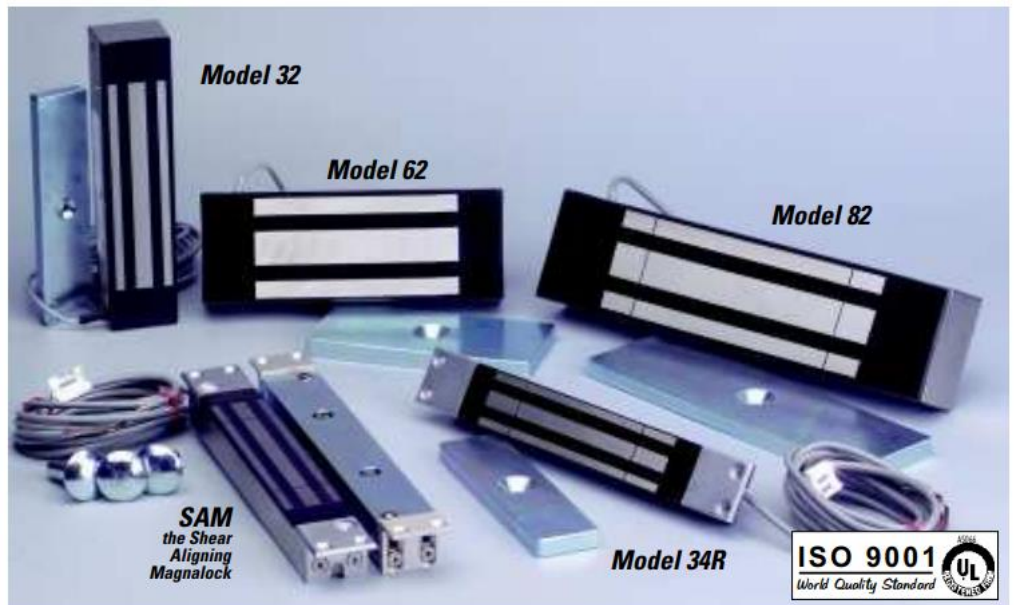


## 7.2.4 ELECTROMAGNETIC LOCK



### MAGNALOCK®

*The Electromagnetic Lock System  
That Will Outlast Your Building*



### MAGNALOCK® OVERVIEW

Magnalocks are designed to secure **any type of door or gate** that closes against a fixed stop. The product consists of an electromagnet which mounts on the fixed frame and a strike plate which mounts on the moving door or gate. The strike plate is delivered with fasteners that permit it to flex so that when the door closes, it automatically self aligns with the magnet. Magnetic force then takes over, strongly securing the door. Release is achieved by switching off power to the magnet.

### CHOOSE THE INDUSTRY LEADER

Securitron has been making electromagnetic locks since 1971 and has stayed at the forefront thanks to a continuing program of engineering improvements. In security industry trade journals, both installing dealers as well as end users have consistently chosen the Magnalock® as **the most highly preferred product**.

We attribute this not only to the product's features but to its **proven performance** in demanding applications.

### SELECT FROM A COMPLETE FAMILY

The Model 32 series provides 600 pounds "traffic control" security similar to electric strikes, and is

recommended for applications where a physical assault on the door is not expected. Primary advantages of the Model 32 are its **lower cost and more compact size**.

For **sliding doors**, the Model 34R series offers **recessed mounting** and results in 600 pounds of esthetically concealed holding power.

The Model 62 series offers **higher security with 1200 pounds holding force**. Entry cannot be forced without special tools, or before the door or frame gives way. It's recommended not only for high security openings, but for **outdoor use** on all gate types, too.

**At 1800 pounds**, the Model 82SC series puts out **maximum MagPower!** Applications for the Model 82SC include prison facilities, or anywhere an **extra margin of strength is required**. Model 82SC is also effective on large exterior gates; or with a split strike plate on double doors. Wide ranging options make electronic and mounting considerations a snap.

The incredible **Shear Aligning Magnalock®—SAM** for short—permits concealed mounting in aluminum, wood and steel doors for **the ultimate in finished appearance**. SAM delivers 1000 pounds holding force, maintains swing through operation on **double-acting doors**, and **even works on motorized bi-parting doors!**

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## 7.2.4 ELECTROMAGNETIC LOCK

### TECHNICAL DATA

#### Holding Force:

82SC series: 1800 lbs.- 818 Kg.  
 62 series: 1200 lbs.- 545 Kg.  
 SAM series: 1,000 lbs.- 454 Kg.  
 34R series: 600 lbs.- 273 Kg.  
 32 series: 600 lbs.- 273Kg.

#### Environment:

-40 to 60 C, -40 to 140 F Suitable for outdoor use (NEMA 4X equivalent). All ferrous metal surfaces plated to MIL spec. Magnet case: brushed stainless steel standard.

#### Power Required:

82SC series: 350 mA at 12 VDC or 175 mA at 24 VDC  
 62 series: 250 mA at 12 VDC or 125 mA at 24 VDC  
 SAM series: 350 mA at 12 VDC or 175 mA at 24 VDC  
 34R series: 350 mA at 12 VDC or 175 mA at 24 VDC  
 32 series: 300 mA at 12 VDC or 150 mA at 24 VDC  
 Voltage tolerance: -10% +30%, unregulated acceptable.

#### Size:

Model 82SC Magnet: 12" x 3" x 1-3/4"  
 Strike: 10" x 2-3/4" x 1/2"  
 Model 62 Magnet: 8" x 3" x 1-3/4"  
 Strike: 6" x 2-3/4" x 1/2"  
 Model SAM: 9-1/2" x 1-1/2" x 1-1/8"  
 Strike: 8-3/4" x 1-7/16" x 1/2"  
 Strike Sub-Mounting: 9-5/8" x 1-7/16" x 1-1/8"  
 Model 34R: 9-1/2" x 1-1/2" x 1-1/8"  
 Strike: 6-3/8" x 1-7/16" x 7/16"  
 Model 32 Magnet: 8" x 1-3/4" x 1-1/2"  
 Strike: 6-1/2" x 1-5/8" x 1/2"

#### How To Order:

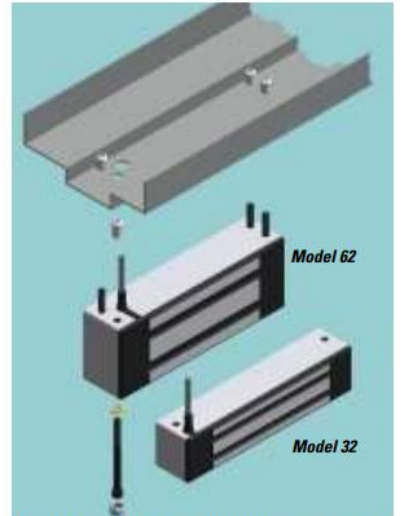
82SC, 62, 34R or SAM (Dual Voltage)  
 32-12 (12 Volts) or 32-24 (24 Volts)  
 Add "F" for face mount version (Inswinging door). Add "SC" for Senstat Form C version (Model 82 comes standard). Add "G" for conduit fitting (not available with 32, 34R & SAM series).

#### Patents:

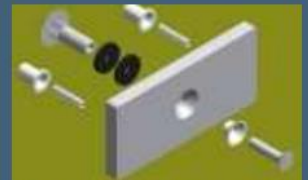
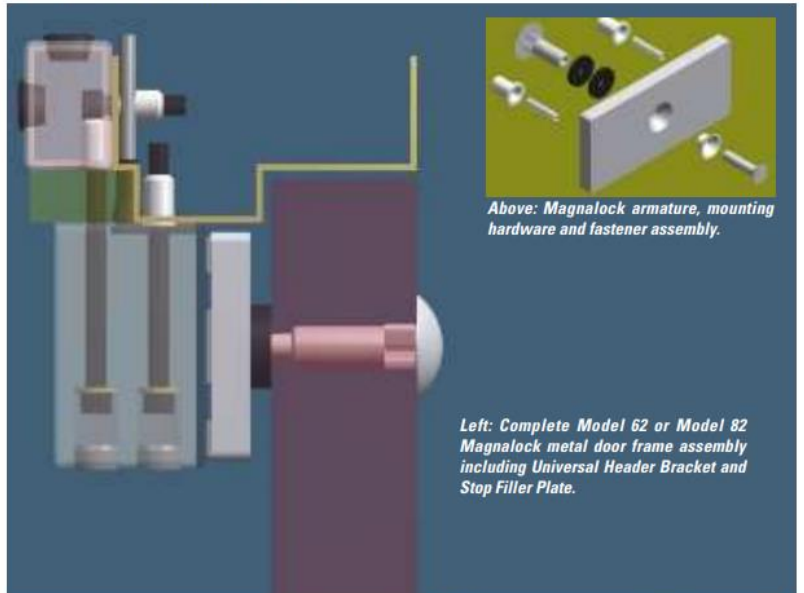
U.S. patents granted on Senstat feature and internal electronics #4,516,114 & #4,682,801  
 EASB patent no. 5,758,913  
 SAM: patent pending

#### Approvals:

Underwriter's Laboratories:  
 SA6635 and BP7041 and R13976  
 Underwriter's Laboratories of Canada:  
 CMS140, SA6635 and BP7041  
 TUV (Germany): 9510632  
 46890009 Baumuster Gopruft  
 California State Fire Marshall:  
 4138-923:101  
 City of New York MEA: 25195E & 254-95E  
 BHMA certified  
 NYC Board of Standards and Appeals:  
 801-80-SA  
 City of Cleveland:  
 S-5-89  
 US Veteran's Administration:  
 M.P.3 Part III  
 US Department of Defense: Listed



Model 62 and Model 32 Magnalocks with mounting fastener assembly.



Above: Magnalock armature, mounting hardware and fastener assembly.

Left: Complete Model 62 or Model 82 Magnalock metal door frame assembly including Universal Header Bracket and Stop Filler Plate.

**SECURITRON**  
 STATE OF THE ART SMART!  
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**MAGNACARE**<sup>TM</sup>  
 LIFETIME REPLACEMENT WARRANTY

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**ASSA ABLOY**

World Leader in Electronic Locking Products and Systems, Securitron is Peerless in Quality, Innovation and Customer Satisfaction.

The ASSA ABLOY Group is the world's leading manufacturer and supplier of locks and associated products, dedicated to satisfying end-user needs for security, safety and convenience.