

MINIMUM TECHNICAL SPECIFICATIONS REQUIRED FOR THE SECURITY GADGET

TECHNICAL SPECIFICATION FOR 4/8/16 CHANNEL STAND ALONE TRIBRID DIGITAL VIDEO RECORDER (DVR)					
Sr No	Parameters	Specifications			Remarks
1	Video compression	4-Channel	8-Channel	16-Channel	All has to be Min 2 MP HD DVR's
		H.264 High Quality Decoding			Must be Min 2 MP HD DVR's
2	Analog and HD-TVI video input	4-Channel	8-Channel	16-Channel	Min required Resolution 1080 x 720
		BNC interface (1.0Vp-p, 75 Ω)			Full Copper Wired BNC
3	Supported camera types	AHD, TVI, Existing Analog Camera, IP, 720P/25, 720P/30, 720P/50, 720P/60, 1080P/25, 1080P/30, CVBS cameras,			
4	IP video input	1-Channel (total upto 5 Channel)	2-Channel (total upto 10 Channel)	2-Channel (total upto 18 Channel)	
		Min 2 MP resolution			
5	Audio compression	G.711u			
6	Audio input / Two-way audio in	4-Channel	8- Channel	16 -Channel	
		(2.0 Vp-p, 1 KΩ), Min 1-Max 4 Audio inputs			
7	HDMI / VGA output	1920 × 1080 / 60 Hz, 1280 × 1024 / 60 Hz, 1280 × 720 / 60 Hz, 1024 × 768 / 60 Hz			
8	Encoding resolution	Main stream: 1080P(non-real-time) / 720P / VGA / WD1 / 4CIF / CIF			
		Sub-stream: WD1 / 4CIF(real-time) / CIF / QCIF / QVGA			
9	Frame rate	Main stream: 1/16 fps ~ Real time frame rate			
		Sub-stream: 1/16 fps ~ Real time frame rate			
10	Video bitrate	32 Kbps to 6 Mbps			
11	Audio output	1-ch, RCA (Linear, 1KΩ)			
12	Audio bitrate	64 Kbps			
13	Dual-stream	Support			
14	Stream type	Video, Video & Audio			
15	Synchronous Playback Resolution	4-Channel	8- Channel	16 -Channel	
		1080P / 720P / WD1 / 4CIF / CIF / QCIF/ MPEG4			
16	Network protocols	TCP/IP, PPPoE, DHCP, DNS, DDNS, NTP, SMTP, SNMP, NFS, iSCSI, UPnP™, HTTPS			EZVIZ Cloud P2P - If available, is to be disabled

17	SATA	Min 1 SATA interface (Each SATA to support upto 4 TB) for 4 Channel Min 1 SATA interface (Each SATA to support upto 4 TB) for 8 & 16 Channel			
18	Capacity	4-Channel	8- Channel	16 -Channel	
		2 TB HDD	4 TB HDD	4 TB HDD	
19	E SATA	1 PORT			
20	Network	4-Channel	8- Channel	16 -Channel	
	interface	1; 10M / 100M self-adaptive Ethernet interface		1; 10M / 100M / 1000M self-adaptive Ethernet interface	
21	Serial interface	1; standard RS-2085 serial interface, Half duplex/ Full duplex			
22	USB port	2 × USB 2.0 Ports			
23	Alarm in / out	4 INPUT / 1 OUTPUT		4 INPUT / 2 OUTPUT	
24	Power supply	12V DC			
25	Consumption (without hard disks)	≤ 15W	≤ 20W	≤ 30W	
26	Working temperature	-10 °C ~+55 °C (14 °F ~ 131 °F)			
27	Working humidity	10% ~ 90%			
28	Chassis	1U chassis		1U/2U chassis	
29	Certifications	UL,CE,FCC			
30	Recording Resolution	1080p/ 720p/ VGA/ WD1/ 4CIF/ CIF/ QVGA/ QCIF			
31	Record Rate-Main Stream	1080p/ 720p/ VGA/ WD1/ 4CIF/ CIF/ QVGA/ QCIF (1/16 fps to Real-time frame rate)			
32	Record Rate-Extra Stream	WD1/ 4CIF/ CIF/ QCIF/ QVGA (1/16 fps to Real-time frame rate)			
33	Record Mode	Manual/ Schedule/ Motion detection			
34	Privacy Masking	Supported			
35	OSD	Camera Title, Time, Vide Loss, Recording, Motion Detection			
36	Remote	Yes, IR			
37	Accepted Make/Brand	Hikvision, Dahua, Methodex			

TECHNICAL SPECIFICATION FOR 4/8/16 CHANNEL NETWORK VIDEO RECORDER (NVR)			
Sr No	Parameters	Specifications	Remarks
1	IP video input	8 Ch/ 16 Ch	
2	Two-way audio	1 Ch, RCA (2.0 Vp-p, 1KΩ)	
3	Incoming bandwidth	2 Mbps	
4	Outgoing bandwidth	2 Mbps	
5	Remote connection	128	
6	Recording resolution	6MP/5MP/3MP/2MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF/ MP4 /AVI	
7	Frame rate	Main stream: Min 30 fps/ 50 fps (P)/ 60 fps (N) Sub-stream: 50 fps (P) / 60 fps (N)	
8	HDMI/VGA output	1 Ch, resolution:	
		1920 × 1080 /60Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz	
9	Audio output	1-ch, RCA (Linear, 1KΩ)	
10	Live view / Playback resolution	6MP/5MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF	
11	Capability	8-ch@720P, 6-ch@1080P	
12	SATA	8 SATA interfaces for 4 HDDs + 1 DVD-R/W (default), or 8HDDs (1 or 2 HDD support is also fine for branches with high capacity HDD for cost effective solution)	
13	eSATA (Optional)	1 eSATA interface	
14	Capacity	Up to 4/6/8 TB capacity for each HDD to cover 90 days recording	
15	Network interface	2 RJ-45 10 /100 /1000 Mbps self-adaptive Ethernet interfaces	
16	Serial interface	RS-232 and RS-485	
17	USB interface	2 × USB 2.0 + 1 × USB 3.0	
18	Alarm in / out	16/ 4 (optionally can be expanded to 16/ 8)	
19	Power supply Consumption (without hard disk or DVD-R/W)	100 ~ 240 VAC ≤ 20 W	
20	Working temperature	-10 °C ~ +55 °C (14°F ~ 131°F)	
21	Working humidity	10 % ~ 90 %	
22	Chassis	19-inch rack-mounted 2U chassis	
23	Dimensions (W × D × H)	Preferred - 445 × 470 × 70 mm (17.5"× 18.5" × 2.8")	Size may change as required
28	Weight(without hard disk or DVD-R/W)	Preferred = ≤ 8 kg (17.6 lb)	Weight may change as required
29	Accepted Make/Brand	Hikvision, Dahua, Methodex	

VARIFOCAL HD WDR (WIDE DYNAMIC RANGE) & IR (INFRARED RANGE) DOME CAMERA			
Sr. No	Parameters	Specifications	Remarks
1	Image Sensor	1.3MP 1/3" CMOS Image Sensor	
2	Effective Pixels	1280(H)*960(V)	
3	Min. Illumination	0.01 Lux @(F1.2,AGC ON), 0 Lux with IR	
4	Shutter Time	1/25(1/30) s to 1/50,000 s	
5	Lens	2.8 - 12 mm @ F1.4	
		Angle of view: 97° - 30.4°	
6	Lens Mount	φ14	
7	Angle Adjustment	Pan: 0 - 360°, Tilt: 0 - 75°, Rotation: 0 - 360°	
8	Day & Night	Auto with ICR	
9	Synchronization	Internal synchronization	
10	Video Frame Rate	720p@25fps/720p@30fps	
11	HD Video Output	1 Analog HD output	
12	CVBS Output	Can Connect to any existing or HD DVR	
13	S/N Ratio	>62dB	
14	Working Temperature/Humidity	-40 °C to +60 °C(-40 F - 140 F)	
		Humidity 90% or less (non-condensing)	
15	Power Supply	12V DC±15%	
16	Power consumption	4.7 W maximum	
17	Weather Proof Ratings	IP66	
18	IR Range	Minimum 10 meters	
19	Certifications	UL / CE / FCC	
20	Accepted Make/Brand	Hikvision, Dahua, Methodex	

NOTE: - The Camera facing the main entrance of the Branch or the locations where the Sun lights appear opposite to the camera must be a WDR type or equivalent camera. The purpose is to see the object or person image clearly in the monitor screen.

FIXED 1.3MP IP IR DOME CAMERA			
Sr. No	Parameters	Specifications	Remarks
1	Video standards	H.264 / MPEG4 / MJPEG	
2	Sensor	1/3 inch HD resolution CMOS/CCD	
3	Scanning	Progressive Scan system	
4	System Compatibility	ONVIF	
5	Resolution	720 to 1280 (H) x 960 (V)	
6	Signal Stream	Dual Stream	
7	Lens	Min 3.6 mm - Max 12 mm	
8	Minimum Illumination	0.01 lux@F1.2	
		0 lux with IR	
9	IR Cut Filter	Yes	
10	Wide Dynamic Range	Yes	
11	Digital noise reduction	3D DNR (if Audio enabled Camera)	
12	Day & night	Auto ICR	
13	AGC	Yes	
14	BLC/HLC	Yes	
15	Iris control	DC drive	
16	IR Range	Minimum 10 meters	
17	Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP,	
		DNS, DDNS, RTP, RTSP, RTCP, PPPoE,	
		NTP, UPnP, SMTP, SNMP, IGMP, 802.1X,	
		QoS, IPv6,	
18	Ethernet	1 RJ45 10M / 100M Ethernet port	
19	Input voltage	12 VDC $\pm$ 10% or PoE, IEEE 802.3 af	
20	Operating Temp.	-10°C to +50°C	
21	Operating Humidity	Humidity 95% or less (non-condensing)	
22	Local Storage	Micro SD/SDXC card slot, up to 128 GB (High Speed HD Card)	
23	Alarm trigger	Motion detection, tampering alarm, network disconnect, IP address conflict, storage exception	
24	Security	Watermark, User authentication, IP address filtering, anonymous access.	
25	Enclosure	IEC60068 up to IK10 Impact protection	
26	Certification	UL / FCC / CE	
27	Accepted Make/Brand	Hikvision, Dahua, Methodex	

VARIFOCAI HD IR BULLET CAMERA			
Sr. No	Parameters	Specifications	Remarks
1	Image Sensor	1.3MP 1/3" CMOS Image Sensor	
2	Effective Pixels	1080 to 1280(H)*960(V)	
3	Min. Illumination	0.01 Lux @(F1.2,AGC ON), 0 Lux with IR	
4	Shutter Time	1/25(1/30) s to 1/50,000 s	
5	Lens	2.8 - 12 mm @ F1.4	
6		Angle of view: 97° - 30.4°	
7	Lens Mount	φ14	
8	Angle Adjustment	Pan: 0 - 220°, Tilt: 0 - 75°, Rotation: 0 - 220°	
9	Day & Night	Auto with ICR	
10	Synchronization	Internal synchronization	
11	Video Frame Rate	720p@25fps/720p@30fps	
12	HD Video Output	1 Analog HD output	
13	CVBS Output	Can Connect to any existing or HD DVR	
14	S/N Ratio	>62dB	
15	Working Temperature/Humidity	-40 °C to +60 °C(-40 F - 140 F)	
16		Humidity 90% or less (non-condensing)	
17	Power Supply	12V DC±15%	
18	WDR	120 Db	
19	Weather Proof Ratings	IP66	
20	IR Range	From 10 to 40 Meters	
21	Certifications	UL / CE / FCC	
22	Accepted Make/Brand	Hikvision, Dahua, Methodex	

FIXED HD IR BULLET CAMERA			
Sr. No	Parameters	Specifications	Remarks
1	Image Sensor	1.0MP 1/3" CMOS Image Sensor	
2	Effective Pixels	1080 to 1280(H)*960(V)	
3	Min. Illumination	0.01 Lux @(F1.2,AGC ON), 0 Lux with IR	
4	Shutter Time	1/25(1/30) s to 1/50,000 s	
5	Lens	3.6 mm (6 mm, 12 mm optional)	
6		Angle of view: 97° - 30.4°	
7	Lens Mount	φ14	
8	Angle Adjustment	Pan: 0 - 220°, Tilt: 0 - 75°, Rotation: 0 - 220°	
9	Day & Night	Auto with ICR	
10	Synchronization	Internal synchronization	
11	Video Frame Rate	720p@25fps/720p@30fps	
12	HD Video Output	1 Analog HD output	
13	CVBS Output	Can Connect to any existing or HD DVR	
14	S/N Ratio	>62dB	
15	Working Temperature/Humidity	-40 °C to +60 °C(-40 F - 140 F)	
		Humidity 90% or less (non-condensing)	
17	Power Supply	12V DC±15%	
18	Weather Proof Ratings	IP66	
19	IR Range	Upto 30m	
20	Certifications	UL / CE / FCC	
21	Accepted Make/Brand	Hikvision, Dahua, Methodex	

TECHNICAL SPECIFICATIONS FOR HIGH RESOLUTION PIN HOLE CAMERA			
Sr. No	Parameters	Specifications	Remarks
1	Pick-up device	1/3" SONY CCD	
2	Effective pixels	NTSC: 768*494.PAL:752*582	
3	Resolution	Color-700 TVL 720 TVL	
4	Sync system	Internal	
5	Min. illumination	Colour-0.01Lux B/W 0.001Lux	
6	S/N ratio	More than 50dB	
7	Electronic shutter	Auto, 1/50 (1/60), 1/100,000 sec	
8	Lens	3.7mm Pin Hole (2.8mm optional)	
9	D-WDR	Off/Indoor/Outdoor	
10	Mirror function	On/off	
11	BLC	On/off	
12	Motion detection	Yes	
13	Gamma	Auto/manual	
14	White balance	ATW/AWB/AWC Set/Manual/Indoor/Outdoor	
15	AGC	Off/Low/Middle/High	
16	Day & Night	Color/B/W/Auto level adjust	
17	Video output	1.00V p-p Composite Video Output, 75 Ohm	
18	Power supply	DC12V	
19	Power consumption	3 Watts max	
20	Certification	UL / CE / FCC	
21	Accepted Make/Brand	Hikvision, Dahua, Methodex	

TECHNICAL SPECIFICATIONS FOR 21" / 32" LED COLOUR MONITOR			
Sr. No	Parameters	Specifications	Remarks
1	Screen	TFT-LED Backlight	
2	Screen Size	19.5 Inches/ 21 Inches / 32 Inches	
3	Resolution	1920 X 1080 Full HD Display	
4	Viewing Angle	170 Degree Wide	
5	Video Input Mode	HDMI, VGA, RC Signal	
6	On-Screen Display (OSD) Menu	True Colour and User Friendly operation Menu	
7	Aspect Ratio	Supports 16:9 or 4:3 aspect ratio selectable in OSD Menu	
8	Audio	Built-In Speaker and Audio Amplifier Adopt 3D Noise Reduction Technology	
9	Mount	VESA stand	
10	Certification	ISI / CE / UL / FCC Certificate or any other standard certificate in the field	
21	Accepted Make/Brand	Sony, LG, Samsung, Hikvision, Dahua	

**TECHNICAL SPECIFICATIONS FOR INTEGRATED (BURGLAR CUM FIRE) ALARM SYSTEM WITH IN-BUILT
AUTO DAILER**

Sr No	Parameters	Specifications	Remarks
1	Control Panel	Specification :- 1. one Zone with fire and smoke detectors connection 2. one zone with Panic Switch connection 3. one Zone with PIR Sensors sequence 4. one zone with Shutter / Door Sensors above all features must be in other 4 zones if panel installed 8 zone. Fire Alarm zone must be connect with in built PCB or inbuilt feature Panel with LAN port (for CMS connectivity), CCTV camera connectivity port, in built Auto dialers, Separate Key pad (to install in BM's cabin), Auto Alarm / Disarm as pe the time set. (it's required for Night mode or day mode operation). Main Input Volatage - 230 to 250 Volt AC, 50 Hz One Zone for 24 hour emergency zonne for better security One Zone for Day/Night Mode for Intrusion detectors with variable Entry/Exit delay selection of 15, 30, 120, upto 255 secs Built-in tone generator and amplifier for External Speakers (min 2nos) Tamper proof wiring for panic buttons, Night Sensor and Speakers/Sounders Auto Isolation of defective zones Testing of Wiring, Panic Buttons, Night Sensor without sounding the main speakers/sounders Different coloured LED's for - a. Mains indication b. Battery indication c. Faulty / Isolated Zones indication d. Alarm Indication e. Day / Night mode indication Highly user friendly design Software upgradeable for new features Easy interface with other systems and security accessories like Magnet Switch, PIR, Auto Dialer etc High tolerance against noise and voice variations Modular construction for easy servicing Activation in case of tampering In-built battery back-up provision	

		Automatic switch over from power mode to battery mode in case of power failure and vice-versa Battery Protection-Battery deep discharge & short circuit through fuse Amplifiers Protection against False Alarm / Anti -Rodent facility. Certification - CE Back-up battery -12 Volts, 7 Ah, SMF battery (Standard Make) Reporting formats - SIA3, Contact ID & Fast Format SMS Remote Control App compatibility PSTN and/or GSM Modem In-built Memory logs -1250nos GPRS modem for IP Communication Remote Control + App compatibility No. of Partitions - 8nos. Certifications -Environmental Class II	
2	External Speaker (with LED option)	a. 40W b. Power (65-70 db) c. 4 wired with tamper loop d. Low current consumption e. ABS Body f. Weather Proof Housing	
3	IP compatibility In-Built Auto Dialer	The Alarm system must be IP compatible for future CMS Built in Auto dialer (PSTN), alert test mode, emergency alarm, alarm Acknowledgement, Tamper proof.	
4	Surface Mounted Magnetic Contact	a. Minimum Operating distance 15-20mm b. CE approved	
5	Dual Technology Passive Infrared Detector (PIR Sensor)	a. Microwave Frequency b. Detection range 10m x 10m c. Microprocessor Controller d. Tamper proof mounting e. Automatic temperature compensation f. Sealed Optics g. Adjustable Ring h. Wide coverage angle, Min 85 Degree i. Rodent / Pet Prrf j. Good Temperature tolerance k. Superior Radio frequency, fast transient and electrostatic discharge immunity l. CE certified	

6	Panic Button	1. Microswitch rated at 5Amp @24 VDC 2. Touch ABS Plastic 3. Output-NC,NO	
7	Magnetic Contact	1. Magnetic Contact WHITE 2. Standard Gap : 1" (25mm) 3. Adhesive / Screw Mounted 4. 12" (30cm) leads	
8	Overhead Shutter Magnetic Contact	a. Standard Gap 2" b. 24" armored cable c. Cast Magnet	
9	PIR Motion Detector	Detection Method : Dual Element Passive Infrared Coverage : 1. Detection Zones :85 degree, 52 zones, 5 planes *a. Pet Immune lens : 52 zones 2. Pulse Processing a. Intermediate, Standard or Harsh selectable via jumper link 3. Temperature Compensation a. Advance Digital Temperaturecompensation adjusts for above and below body temperature 4. Tamper Proof Design a. Alarm relay cannot be compromised with a magnet 7. Detectable Walk Rate a. 0.5 - 10 ft/sec 8. Mounting Height a. 7ft (2.4m) recommendable for Pet Immune 9. Blue Wave Technology 10. Alarm Relay : Form A. SPST 90mA @ 16 VDC with 15-Ohm protective resistor 11. Input Voltage : 8-16 VDC 12. Current : 4mA (Standby) 13. Operating Temperature : Upto 95% RH (max) non-condensing 14. Certification - CE 15. Environmental Class -II	
10	Glassbreak Detector	a. Physical Dimensions : White high impact ABS plastic housing c. Range : 8m max omnidirectional, no minimum range d. Alarm Relay : Form C, 125mA, 25 VDC e. Tamper Switch : Combination of cover & wall tamper f. Power Requirements: 6-18 VDC, 12mA g. AC Ripple : 4 V peak-to-peak at nominal 12VDC h. Operating Temperature : -10 to 50 Degree i. Approvals - CE j.Angle of Coverage -360 degree	

		k. Glass Type / Thickness : Plate, Tempered, Laminated, Wired, Coated, Sealed, Insulated, max 10mm l. Dual confirmation detection - First Impact m. Detects the frequency of glass flexing n. Detects the frequency of glass breaking	
11	Shock Sensor	Loop Voltage - 3VDC (min) to 20VDC (max) Loop Current - 100mA max Power Requirement - Less than 1 Ma Transient Suppression - 600 watts Alarm Output type - Normal-Closed solid-state output Alarm Output resistance - 20 Ohm max (closed /alarm condition) 1 Ohm minimum (open/alarm condition) Alarm Output timing - Open for 1 sec min during an alarm condition Operating temperature - 18 - 55 degree Dimensions - Wiring Leads - 22 AWG, 2 conductor zip cord Colour- White	
12	Keypad	Alpha Numeric Keypad with 2 sensor input Wiring : 4 wire Current - Standby 60mA, Activated -190mA Integrated Prox reader Internal use Prox reader	
13	External Sounder	Electronic Siren, 6-12VDC, 15 watt, 109 db Current - 100mA Output - 110db Size - 60mm x 60mmx70mm	
14	Hooter (Long Range)	Electronic Siren, 6-12VDC, 15 watt, 117 db Voltage - 12V DC Current Draw : 400mA, 6 VDC / 1.2 AMPS, 12 VDC Sound Output : 118 db, 12 VDC	
15	Battery	7 Ah battery for back-up (SI Scope)	
	Smoke Detectors	Wide-angle, dual-color LED indication Built-in remote maintenance signaling Voltage - 12/24V non polarised Built-in test switch Operating Temperature Range = 2W-B and 4W-B: 32°F to 120°F (0°C to 49°C); 2WT-B and 4WT-B: 32°F to 100°F (0°C to 37.8°C) Operating Humidity Range = 0 to 95% RH non-condensing Thermal Sensor = 135°F (57.2°C) fixed Freeze Trouble = 2WT-B and 4WT-B only: 41°F (5°C) Input Terminals = 14 to 22 AWG	
16	Heat Detectors	Wide-angle, dual-color LED indication	

		Built-in remote maintenance signaling Operating Voltage / Contact Rating = 6–125VAC / 3A 6–28VDC / 1A 125VDC / 0.3A 250VDC / 0.1A Maximum Installation Temperature = 5601P, 5603, 5621, and 5623: 100°F (38°C) 5602, 5604, 5622, and 5624: 150°F (65.6°C) Rate-of-Rise Threshold = 15°F (8.3°C) rise per minute	
17	Wire / Cable / Conduit : SI Scope	a. fire Alarm cable must be FRLS - Min One Sq MM (if Armoured to protect cutting or rat bites) b. PIR sensor cable must be 4 core armoured cable to prevent false alarms. In others cases, any other cable is ok	
18	Accepted Make/Brand	DSC, Securico, Qualitronics, Digitals, Seple, Eagle, Gadsec, Taxecom, ANG, Godrej, Rider, NSE	

TECHNICAL SPECIFICATIONS FOR CONVENTIONAL FIRE ALARM SYSTEM			
Sr	Parameters	Specifications	Remarks
1	Fire Alarm Control Panel	Micro controller based 2, 4,8 to 16 zones	
		Fully confirms IS 2189	
		Operates on 230 V AC, 50 Hz AC supply	
		Battery backup with built in charger to support system for 48 hrs. during normal operation and 30 minutes in alarm condition	
		Fire / fault status in unambiguous colored LED indications.	
		16 x 2 line dot matrix LCD display	
		Zone wise fire, open, short LED indications.	
		External s/w to test each zone fire, open, short status manually.	
		External s/w for reset, Silence, Lamp test.	
		Zone isolation facility with loop voltage cutoff.	
		Relay O/P for actuators.	
		Mains on, System On, Charger on, visual indications.	
		Battery Low& Common fire indications	
		Enough inside space for battery , 2 nos. , 12 V, 7 AH batteries.	
		Attachable with all types of fire detectors	
2	Optical Smoke Detector	Flashing LED light for status monitoring	
		Operating voltage - 8 to 35 V DC	
		Test switch	
		Compatible to all known range of Conventional Fire Alarm Panel	
		Certifications Required: UL/LPCB/EN	
3	Heat Detector	Flashing LED	
		Rate of rise cum fixed temperature	
		UL/LPCB/EN approved	
4	Manual Call Point	Anti- tamper facility	
		Unique 'plug & play' installation concept	
		Backward compatibility	
		Power I/P: 24 V DC	
		Current Consumption: NA / 30MA(Normal /Fire)	
		Housing: ABS	
		Weight: 150 gm.	
		Color: Red	
5	Response Indicator	Unique 'plug & play' installation concept	
		Dual LED Type	
		Input Supply: 24 V DV	

		Current Consumption: 5 MA	
		Housing: ABS / Metal Body	
		Weight: 50 gm.	
		Colour: Red/White.	
6	Armoured Cable	1 or 1.5 Sq.mm. 2-Core Cable	
		FRLS type	
		Certifications Required: ISI	
	Cable Make	Polycab/Finolex/ RR Kabel	
7	Hooter	Power I/P - 24 V DC	
		External – 130Db & Internal-109 Db	
		Current Consumption - 300 MA	
		Housing - PVC/ABS	
		Weight - 600gm.	
		Colour - Red/White	
8	IP compatibility In-Built Auto Dialer	The Alarm system must be IP compatible for future CMS Built in Auto dialer (PSTN) , alert test mode, emergency alarm, alarm Acknowledgement, Tamper proof.	
9	Approved Make/Brand	Ravel, Agni, Qualitronics, Digitals, SEPL, Honeywell, Securico, Eagle, ANG, System Sensor, Apollo, Godrej, NSE	

TECHNICAL SPECIFICATIONS FOR SECURITY (BURGLAR) ALARM SYSTEM WITH IN-BUILT AUTO DAILER			
Sr	Parameters	Specifications	Remarks
1	Security Alarm Control Panel	Microcontroller Based 4/8 Zone System	
		Zones programmable as delay or immediate. Status on LCD. Silent arming to silence exit delay audio indication Night mode arming to convert delay to immediate zones. Independent entry & exit delay times programmable from 2-255 seconds. Intrusion log (500 Nos) Non-volatile memory to restore multiple programming	
		Supports alarm reporting via internet with additional hardware-CMS Support	
		All zones are tamper-proof. Automatic Change Day/ Night Mode (only in Automatic Mode)Arm/ Disarm	
		All inputs & outputs should be tamper proof. Should provide Holiday list. In-built tamper switch ERTL TESTED	
		Working input AC voltage 90V-270V AC, 12 V DC, charging voltage 13.8 V DC, Back up 12V/24 V x 7 AH, Sound level 120Db @ 1 meter, LCD display, Zone configurable, prog with delay, holiday mode, 4x4 matrix key pad	
2	IP compatibility	The Alarm system must be IP compatible for future CMS	
3	In-Built Auto Dialer	Built in Auto dialer (PSTN) , alert test mode, emergency alarm, alarm Acknowledgement, Tamper proof.	
	Auto Dialer Should Have Following Features :	Minimum 1 voice message	
		10(20 digits) telephone numbers for Intrusion message	
		20 second recording time for each message	
		Dialing to all numbers can be aborted with master code during call	
		Message playback facility	
		Telephone number check facility .	
		Telephone number editing facility.	
3	Panic Button	MS HOUSING WITH NC CONTACT & RELAY	
		Automatic reset (no key required)	
		Micro switch technology	
		Contact O/P: NORMALLY CLOSED /OPEN	

4	Magnetic Contact	PLASTIC FIBRE CASING WITH MAGNET	
5	Magnetic Shutter Contact	METALIC CASING WITH MAGNET OF 1"	
6	PIR Detector	Pet immunity up to 55 lb (25 kg), 12V DC, compact design, PIR sensitivity adjustment, Quad element, power input 9.6-16V, weight 58Grms, NO/NC relay	
7	Glass break Detector	Dimensions 3.5" (L) x 2.5" (W) x 0.8" (D) (89 mm x 64 mm x 20 mm) Input Voltage . . 9 to 16 VDC Current Draw 12 mA to 12 VDC Current in Alarm 35 mA @ 12 VDC Alarm Relay: Contact Rating 1 Amp @ 24 VDC Tamper Switch: Contact Rating..0.1 Amp @ 24 VDC Microphone Type Omni directional Electrets Installer Test Mode Jumper J1 Alarm Memory Mode Jumper J2 Detection Level	
8	Hooters	109 dB	
9	Hooter (Long Range)	Microprocessor Based System with in built battery backup The hooter should start blowing (Min 5 mins) as soon as the wires are tampered from the control panel Adjustable Sound Settings High power 130 db 4 wired Low current consumption 12V DC Supply Available in multiple tones	
10	Battery	12V/24V 7AH maintenance free rechargeable batteries	
11	Wire	2 Core PVC concealed, copper cable armored	
12	Cable	2 core 1.5 sqmm armored cable	
13	Conduit	1" PVC casing/conduit	
14	CERTIFICATE	CE / UL / ERTL	
15	Approved Make/Brand	DSC, Securico, Qualitronics, Digitals, SEPLE, Hikvision, Methodex, Godrej, Rider, Eagle, Taxecom, ANG, Godrej, NSE	

FEATURES FOR BIOMETRIC SYSTEM			
Sr	Parameters	Features	Remarks
1	Storage Capacity	Minimum Storage of 3000 Fingerprint template	
2	Transaction capacity	Minimum Transaction capacity of 1,00,000 (Event buffer)	
3	Inbuilt Keypad/ LCD display	Keypad & LCD display should be in built	
4	Protection	Should have protection from scratch and Electrostatic Discharge	
5	Configuration time	Enrolment or registration less than 6 seconds for Finger and Card time	
6	Log Provision	Provision for Log	
7	Finger print read time	Finger print read time should be less than 5 seconds	
8	Data downloadable port	Data downloadable through ethernet port	
9	Power support	Power supply 12 v DC	
10	Battery back up	Battery back-up min 4 Hrs	
11	Interface software	Interface software to be provided	
12	Lock	Electromagnetic Lock 600 lbs	
13	Approved Make/Brand	Spectra/ ZK Teco/ eSSI/ BioMax/ Chiyu/ Realtime/Seple/ Timewatch or equivalent	

FEATURES FOR TIME LOCK			
Sr. No	Parameters	Features	Compliance (Yes/NO)
1	Panel Security	Tamper Proof Panel	
		Relocking switch.	
		On-board keypad for settings	
		Display The Door status.	
2	Power supply/ Back Power	DC power, battery operated with reverse polarity protection	
		Triggers can be set up as N/O or N/C contacts.	
		LED indication for Door Lock and Unlock – LCD	
		Continuous LCD indication of date, time and lock status	
3	Log record	Log to be stored for events	
		Tactile keypad for easy panel operation.	
		In-built SMPS system.	
4	Display	Display The Lock status.	
5	Configuration	Emergency Access	
		User Configurable Emergency Access time	
		1 general Purpose Relay For Triggering external devices – Auto dialer	
		Continuous LCD indication for Unauthorized Entry.	
6	Any other features		
7	Approved Make/Brand	ARA-100, Digitals, Godrej, SEPLE, Eagle	