



SIMENA

LENGTH 203' 4" (62M) **BUILDER** ARES **YEAR** 2024
GUESTS 12 **CABINS** 6 **CREW** 9 **ASKING PRICE** €45,900,000

OVERVIEW

Beam	32ft 10in (10.8m)	Exterior Designer	Taka Yachts
Speed	11/14.5 Knots (approx)	Interior Designer	Design Unlimited
Gross Tonnage	499 t	Classification	RINA Unrestricted
Engines	1x MAN 1000 hp / 745 kW		

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GENERAL ARRANGEMENTS



MAIN CHARACTERISTICS

Built by	Ares
Year	2024
Length	203' 4" (62m)
Beam	32ft 10in (10.8m)
Gross Tonnage	499 t
Classification	RINA Unrestricted

CAPACITIES

Cruising Speed	11 Knots (approx.)
Max Speed	14,5 Knots (approx.)

MACHINERY

Engines	1x MAN 1000 hp / 745 kW
Helicopter Capable	No
Lift/Elevator	No

DESCRIPTION OF THE YACHT

Luxury, performance cruising ketch. Designed by Taka Yachts with classic lines and fitted with state-of-the-art parallel hybrid technology. A clean, classic feel to a contemporary interior by Design Unlimited. A yacht capable of cruising the worlds oceans in utmost comfort, safety and style. Classed to charter 'Unrestricted' if desired. Built with marine grade steel hull and the largest composite (carbon and GRP) superstructure of a yacht of this type to date. Aluminium masts with stainless rod rigging by acclaimed naval engineer Chris Mitchell. Parallel Hybrid propulsion system allows for six different modes of diesel, electric, combined and regeneration.

TransAtlantic range on diesel alone. Custom designed limousine tender for guests with a separate tender for crew and rescue. Optional space for jetskies and toys at owners request.

ACCOMMODATION, INTERIOR AND EXTERIOR DESCRIPTION

The yacht has a fabulous layout with six guest cabins forward and crew accommodation aft.

For seamless water access, a dedicated side-opening swimming platform connects directly to the lobby and the guests' main staircase, ensuring convenience and ease of movement.

A jacuzzi on the aft deck with acres of sunbathing space.

Panoramic views from the flybridge whilst sailing and another huge sun lounging pad.

When tenders are launched, the foredeck can be utilized as a huge entertainment/chillout area with sunshades and loose furniture.

ACCOMMODATION:

OWNER CABIN: The grandiose owner's suite is strategically situated at the forward section, boasting a separate bathroom adorned with a jacuzzi, a dedicated dressing room, a vanity table, and a lounge sofa for ultimate relaxation.

GUESTS CABINS: Offering luxurious accommodations, this vessel features three lavish double guest cabins, each with a private closet, vanity desk, sofa, and bathroom with a separate shower. Additionally, two twin guest cabins provide a cozy retreat with the option of bunk beds, a closet, and an en-suite bathroom with a separate shower.

CREW AREA AND ACCOMMODATION: Crew accommodations are thoughtfully designed with the captain's cabin and three twin crew bunk cabins located at aft, complete with private bathrooms and separate showers. A fully equipped galley, crew mess, dry storage, and engine room cater to operational efficiency. Furthermore, a laundry area is strategically positioned, featuring additional freezers for added storage capacity.

As an optional extension, two additional twin crew bunk cabins can be located at the forward section, sharing a dedicated bathroom for enhanced crew comfort and privacy.

INTERIOR:

MAIN SALON/DINING: Seamless access to the main salon is provided by electric sliding doors on both the port and starboard sides of the aft deck. The spacious main salon invites relaxation with L-shaped sofas, coffee tables, and ottomans. A formal dining area features an L-shaped sofa and chairs seating up to 12 guests. Centrally located, the guest lobby area connects to a multi-directional staircase connecting the lower and upper decks elegantly.

GALLEY: The double-U-shaped galley is clean, contemporary, and fitted out with the best of Miele appliances. The design has also allowed for substantial extra freezer space forward.

CREW: Crew accommodations are thoughtfully designed with the captain's cabin and three twin crew bunk cabins located at the aft, complete with private bathrooms and separate showers. A fully equipped galley, crew mess, dry storage, and engine room cater to operational efficiency. Furthermore, a laundry area is strategically positioned, featuring additional freezers for added storage capacity.

As an optional extension, two additional twin crew bunk cabins can be located at the forward section, sharing a dedicated bathroom for enhanced crew comfort and privacy.

EXTERIOR DECKS:

AFT DECK: The aft deck offers a luxurious outdoor oasis, featuring large sunbeds and a Jacuzzi surrounded by plush side sofas. Aft, a convertible dining table accommodates up to 14 guests, complemented by a U-shaped lounge sofa perfect for al fresco entertaining. A fully equipped wet bar station with ample storage ensures refreshments are always close at hand.

SUNDECK/FLYBRIDGE: Accessed via an automatic sliding glass companionway, the flybridge is low-key and functional. With twin helm stations port and starboard, panoramic visibility combined with a sliding sunroof to provide visibility to rig and sails. A comfortable lounging sofa and coffee table are complemented by another huge sun lounging pad aft.

FOREDECK: On the foredeck, a sofa and coffee table create another inviting lounge area in front of the wheelhouse. Completing the amenities, a crane facilitates launching the custom limousine tender and rescue boat from the foredeck. The resulting foredeck space is vast and could lend itself as a shaded-chillout area during the day and dance floor by night.

INTERIOR APPLIANCES

GALLEY

- ▶ DISHWASHER 2x MIELE BUILT-IN STAINLESS STEEL
- ▶ FRIDGE 4x MIELE
- ▶ INDUCTION HOB 1x MIELE
- ▶ TEPPAN-YAKI 1x MIELE
- ▶ OVEN 1x MIELE GLASS CERAMIC
- ▶ MICROWAVE 1x MIELE
- ▶ COFFEE MACHINE 1x MIELE
- ▶ TRASH COMPACTOR 1x ADEMA
- ▶ VENTILATION 1x ELECTROLUX PROFESSIONAL
- ▶ ICE MAKER 1x VITRIFRIGO STAINLESS STEEL
- ▶ FREEZER 1x BOSCH
- ▶ HOUSING 1 set GN ESCAPE GIMBALLED COOKER HOUSING with sturdy sea rails and pan clamps -STAINLESS STEEL

SALON

- ▶ WINE COOLER 1x MIELE BUILT-IN GLASS

WET-BAR

- ▶ GRILL 1x KENYON Texan No Lid Electric Grill BUILT-IN STAINLESS STEEL
- ▶ FRIDGE 1x VITRIFRIGO DRINKS drawer refrigerator BUILT-IN STAINLESS STEEL
- ▶ ICE MAKER 1x VITRIFRIGO Icemaker STAINLESS STEEL

FLY DECK

- ▶ FRIDGE 2x VITRIFRIGO single refrigerator compartment BUILT-IN STAINLESS STEEL

CREW MESS

- ▶ FREEZER 1x VITRIFRIGO double freezer/freezer compartment BUILT-IN STAINLESS STEEL
- ▶ FRIDGE 1x VITRIFRIGO double refrigerator/refrigerator compartment BUILT-IN STAINLESS STEEL

LAUNDRY

- ▶ WASHING MACHINE 2x MIELE
- ▶ DRYER 2x MIELE
- ▶ IRON 1x MIELE ROTARY IRON

STORAGE

- ▶ FREEZER 2x VITRIFRIGO double freezer/freezer compartment BUILT-IN STAINLESS STEEL

PROPULSION ARCHITECTURE

The parallel hybrid propulsion by means of a single MAN diesel engine driving with Servogear Eco low Propulsor solution of CP-Propeller also generated by a 220kW e-engine. Three diesel generator sets to be installed for the electric power supply of the yacht. Electro-hydraulic tensile steering to be performed by a single rudder. Tunnel type 120kW bow thruster and 100kW stern thruster will enhance manoeuvring. An electronic remote-control system for propulsion for vessel with CP-propellers is designed according to the failsafe principle and is built up with a high level of redundancy. The system is very user friendly, highly accurate, advanced and flexible with six modes.

MODES OF PROPULSION SYSTEM:

The parallel hybrid propulsion by means of a single MAN diesel engine driving with Servogear Eco low Propulsor solution of CP-Propeller also generated by a 220kW e-engine. Three diesel generator sets to be installed for the electric power supply of the yacht.

The system is very user friendly, highly accurate, advanced and flexible with six modes.

1. **COMBINED PROPULSION MODE:** Both the MAN engine and E-Motor function in tandem for propulsion, with the E-Motor powered by the Power Management system derived from the 3x Gen Set system.
2. **ELECTRIC-ONLY PROPULSION MODE:** Only the E-Motor is utilized for propulsion, drawing power from the Generators through the Power Management system, while the MAN engine remains inactive.
3. **ENGINE-ASSISTED ELECTRIC POWER MODE:** The MAN engine propels the system while the E-Motor functions as an electric power supplier, similar to a shaft alternator, connected to the Main Switch Board. A converter system is required to convert the electric power to 380 V AC.
4. **ENGINE-POWERED ELECTRIC MODE:** The MAN engine propels the system, and the E-Motor supplies electric power to the Main Switch Board, having been converted for use.
5. **SAILING MODE WITH E-MOTOR SUPPORT:** The MAN engine is inactive, and the yacht utilizes its Sail System for self-propulsion. The E-Motor runs to generate propeller turning force and supply electric power to the Main switchboard after conversion.
6. **PURE SAILING MODE:** Neither the MAN engine nor the E-Motor is operational, and the propeller is set to zero pitch, resulting in no turning motion.

- ▶ PROPULSION POWER 1102 kW
- ▶ E-ENGINE 220 kW
- ▶ TOTAL GEN SETS POWER 258 kW
- ▶ TOP SPEED (incl. EPM) 15 knots
- ▶ TOP SPEED (ME only) 14,5 knots
- ▶ SPEED EPM only 6 knots
- ▶ CRUISE SPEED 11 knots
- ▶ TARGET RANGE 4000 Nm @ cruise speed

MACHINERY

- ▶ MAIN ENGINES MAN 1x Marine Diesel Engines D2862LE438 (882kW@ 2100RPM)
- ▶ CPP PROPULSION SYSTEM SERVOGEAR 1x Electric Motor, Ramme HW500S, 220kW @ 2100RPM
- ▶ REDUCTION GEARBOX ZF 1x ZF3311 NR-PTI (red. ratio 4,250: 1), for CW - rotating propeller
- ▶ PROPELLER SERVOGEAR 1x 9P820-120 Fully Feathering 4-bladed propeller
- ▶ GENERATORS: CAT 3x C4.4 86ekW (107kVA) @ 1500rpm Marin Generator Set – 400V / 50Hz / Three phase / IP23

AUXILIARY & ANCILLARY EQUIPMENT

- ▶ GENERATORS: CAT 3x C4.4 86ekW (107kVA) @ 1500rpm Marin Generator Set – 400V / 50Hz / Three phase / IP23
- ▶ ELECTRICITY: 3x400V AC - 220V AC / 50Hz +24V DC
- ▶ BATTERIES & CHARGERS: MASTERVOLT AGM & Gel Batteries for starters, service and emergency use
- ▶ LIGHTING: BCM, CANTALUPI LED Downlights, rope lights, courtesy lights, reading lights or equivalent
- ▶ UNDERWATER LIGHT: UNDW.LIGHTS 18x QTS-75-3120 Warm White, 240V AC
- ▶ STEERING SYSTEM JASTRAM Hydraulic, Tensile S2-65-1-35, 6.5 TM, RDR ANGLE:35/35°, 400/3/50
- ▶ BOW THRUSTER VETH 1x 120 kW tunnel type
- ▶ STERN THRUSTER VETH 1x 100 Kw tunnel type
- ▶ FUEL SEPARATOR ALFA LAVAL MIB 503 Solid Retaining Separation System (230V, 50Hz)
- ▶ OILY BILGE SEPARATOR EPE Poseidon Fit 0.5
- ▶ FIRE/BILGE PUMPS GIANNECSCHI Electric Fire & Bilge Pumps, or equivalent
- ▶ WATERMAKER AQUAPRIME 1x Dual 461,61 Silence Proplus, 380V 50Hz, 15 m3/day
- ▶ HYDROPHORE GIANNECSCHI 2x Idrojet 4B 230/400V 3PH 50Hz
- ▶ WATER HEATERS GIANNECSCHI 3x 200 l, 2x3.0kW 3PH 220/400V inox OR2
- ▶ PUMPS GIANNECSCHI Systems' pumps
- ▶ COMPRESSOR ATLASCOPCO 2x G3P-10, 22 M3/H, 10 Bar
- ▶ ER FAN, DAMPER, GIANNECSCHI 2x Axial Fan 230/400V 3PH 50Hz 5.5kW w/ silencer and damper
- ▶ SEWAGE TREATMENT HAMANN HLCP025, 6000 l/day
- ▶ WC SYSTEM JETS Vacuum Toilet System

RIGGING & SAILS

The whole sailing systems of the yacht including rigging, mast, sails, captive winches, mooring winches, deck hardware, deck switches, bobstay and all related items specified by acclaimed naval architect Chris Mitchell of Applied Engineering Solutions, will be supplied by Shipyard.

The main mast, mizzen mast and lazy-jack booms are constructed by aluminium and coated with UV resistant topcoat. Doyle Sails Stratis 1100CT. Carbon-Tecnora blend ensuring ultimate balance of light-weight and longevity. For the various sailing equipment, such as; genoa and stay-sail furlers, captive winches, deck winches, tracks, cars, blocks, etc., we have utilized a combination of top-tier suppliers such as Bamar, Antal and Lewmar, or equivalence ensuring optimal performance. This selection ensures a harmonious blend of quality and reliability throughout the yacht's rigging system.

SAILS

- ▶ MAIN SAIL (approx.) 540 sqm
- ▶ MIZZEN SAIL (approx.) 272 sqm
- ▶ GENOA (approx.) 630 sqm
- ▶ STAY SAIL (approx.) 380 sqm
- ▶ STORM JIB

DECK EQUIPMENT

DECK JOINERY

All deck joinery work shall be solid teak. Final dimensions of the teak planks are to be approved by exterior designer. Teak planks are to have a thickness of min 13 mm after final sanding.

DECK EQUIPMENT

- ▶ ANCHOR WINDLASSES DATA 2x Hydraulic DZC 3300-2
- ▶ ANCHORS AND CHAIN CUSTOM 2x 430kg Polished Stainless Steel 316L Pool-N Styl
- ▶ HORN KAHLBERG 1x d330 White Twin Trumpet
- ▶ RESCUE CRANE OCEAN GROUP 1x Certified crane installed on forward deck, 1500 SWL, "men-riding", MCA compliant
- ▶ PASARELLE OCEAN GROUP 1x Fully retractable hydraulic gangway
- ▶ BOARDING LADDER OCEAN GROUP 1x Hydraulic side ladder
- ▶ SIDE PLATFORM MAKRO 1x Hydraulic side platform stbd
- ▶ JACUZZI CUSTOM 1x Located on aft Maindeck
- ▶ MOORING BITTS, FAIRLEADS CUSTOM Stainless Steel 316L polished
- ▶ STANCHIONS & RAILINGS CUSTOM Stainless Steel 316L polished stanchions with mahogany capping
- ▶ SHIP'S BELL CUSTOM Chromed Bronze with engraving of ship's name and year, polished
- ▶ BIMINI MAKEFAST 1x Electrically operated sunroof at sundeck, or equivalent
- ▶ AWNING (Owner Supply) DOKAR Manual sun awning for aft deck
- ▶ WEATHERTIGHT DOORS OCEAN GROUP 2x Manual Salon Sliding Entrance Door and, 1x Automatic Companionway Sliding Door Sundeck Entrance
- ▶ BOFOR 1x Manual L-Shaped Dog-House Entrance
- ▶ PANTOGRAPH DOORS BOFOR 2x Manual Weathertight Doors Port & Stbd Lobby Entrance and, 1x Manual Weathertight Door Port Salon Crew Entrance
- ▶ WATERTIGHT DOORS BOFOR Watertight hinged interior doors for technical areas and APMARINE Owner Sliding Door
- ▶ HATCHES BOFOR Stainless Steel 316L, watertight

NAVIGATION & COMMUNICATION EQUIPMENT

- ▶ **X-BAND RADAR SYSTEM** SIMRAD R5024 12u/6x Imo X-Band Arpa Radar W/24" Monitor (Hsc).
- ▶ **DOME RADAR** SIMRAD Halo 24 Pulse Compression Dome Radar.
- ▶ **DUAL ECDIS** SIMRAD 1x Maris Dual ECDIS System w/Computer, alarm panel, keyboard, mouse & 8 ports Network switch
- ▶ **MULTI-FUNCTIONAL NAVIGATION SYSTEM** B&G 1x Zeus3S Glass Helm Processor w/ (x3) ZC2 Remote / NAVIONICS 2x SD Card & MI10 Micro Reader / SIMRAD 3x Wide Touch Screen High Bright Monitor for Wheelhouse Bridge / SIMRAD 4x 19" Wide Touch Screen High Monitor for stbd & port Fyldeck Bridges / B&G 1x Multi-Functional Display / PROMAR 1x Matrix System 8x8
- ▶ **NAVIGATION INSTRUMENT PACK** B&G 1x Vertical Wind Sensor, 1450 mm / B&G 2x Analogue AWA Display / B&G 2x Analogue MAWA Display / B&G 2x H5000 Analogue TWA Display / B&G 3x Graphic Display / B&G 1x Hercules Processor / B&G Sensors / NAVICO 1x Precision-9 Compass
- ▶ **GPS NAVIGATOR** SIMRAD 1x GPS Antenna w/built in rate compass
- ▶ **AUTO PILOT** SIMRAD 1x AutoPilot w/ (x2) Quickstick remote
- ▶ **GPS COMPASS** COMNAV 1x G3 GPS Compass System & SIMRAD 1x Instrument
- ▶ **MAGNETIC COMPASS** C&P 2x IOTA/2 Steering Compass & C&P 1x Overhead Compass
- ▶ **ECHO SOUNDER** SKIPPER 1x Echosounder Display / NAVICO 1x SonarHub Module / NAVICO 1x XSONIC Thru-Hull Transducer / SKIPPER Sea Valve 100mm, Single Bottom Ball Valve SST ABS with transducer
- ▶ **DOPPLER SPEED LOG** SKIPPER 1x Doppler Speed Log Display / SKIPPER Sea Valve 60mm, Single Bottom / SKIPPER DL1 Single Axis Doppler Sensor & Speed Log Electronic Unit
- ▶ **AIS** SIMRAD Class A AIS with Pilot Plug & GPS Antenna / AC MARINE Universal Deck Mount Chrome Bracket, Ac Marine / ANTENNA 1x VHF Antenna
- ▶ **GMDSS A3 AREA COMMUNICATION SYSTEM** SAILOR 2x VHF DSC Class A / SAILOR 2x Control Speaker Microphone / SAILOR 4x VHF Antenna / SAILOR 1x GMDSS System SAILOR 1x GMDSS Alarm Panel mini-C / SAILOR 1x GMDSS Alarm Panel / SAILOR 1x Parallel printer / AC MARINE 2x Universal Deck Mount Chrome Bracket, Ac Marine / SAILOR 2x NAVTEX3 Active 3-Band Antenna / SAILOR 1x Navtex System & 1x NAVTEX3 Active 3-Band Antenna / SAILOR 1x AIS SART / SAILOR 1x EPIRB / SAILOR 3x GMDSS Portable VHF / SAILOR 2x UHF Fire Fighter
- ▶ **BNWAS** PROMAR 1x VL-BNWAS- Alleyway Alarm Panel Level 3 Alarm / PROMAR -Cabin Panel Alarm Level 2 Alarm ALR2 / PROMAR 3x Buzzer indoor RBI / PROMAR 1x Central Unit with Terminal / PROMAR 3x Reset Button indoor & outdoor RTI
- ▶ **EMERGENCY INTERCOM** PHONTECH 1x CIS Master Station / PHONTECH 1x CIS Remote Master Station / PHONTECH 2x Wheatherproof Substation for Loudspeaker / PHONTECH 2x Headset / PHONTEC 2x Horn Loudspeaker
- ▶ **INTERNET STARLINK** 1x Starlink Marine Antenna

ELECTRICAL SYSTEM

All electrical equipment, wiring, cables, fixtures etc. and the complete installation shall be in accordance with the Classification Society rules and Builder's drawings. All electrical equipment to be located so as to be readily accessible for maintenance, repair or removal and to be of a type proven satisfactory for marine use, in accordance with Builder's choice.

PAINT SYSTEM

A complete paint system from International and Awlgrip, or equivalent, to be used and followed by the painter's specification and the manufacturer's direction. Jotun system to be used for technical areas and tanks.

Topcoat paint for hull, superstructure, masts and booms is specified as Awlgrip Light Ivory. If a custom colour is selected, the extra cost will be covered by the Owner. No metallic paints foreseen.

AUDIO/VISUAL ENTERTAINMENT SYSTEMS

- ▶ MAIN RACK 22U 60*60 Rack Cabinet with shelves Control 4 C4-CORE5 Controller, QNAP Ds418 Realtek Qc 2 GB Ram 4 Discs NAS Storage System for Entertainment, Seagate 6TB Cache SATA Hard Disc
- ▶ IP NETWORK SYSTEM Arcus Celerway 5G Marine Modem, Peplink Maritime Antenna, 2x OMNI WIFI Antenna, Pakedge RK-1 Balance Router, 10x Control 4 AN, 2x Araknis AN-Switch, Pakedge P20E PDU
- ▶ MAIN SALON Ultra HD 75" TV, 5x B&W Speaker, B&W Black Subwoofer, Denon Amplifier, Dune HD Real Vision 4K Media Player, 2x speaker for bathroom
- ▶ OWNER SUITE ULTRA TV 55" TV, 2x B&W Speaker, B&W Black Subwoofer, Marantz Amplifier, Dune HD Real Vision 4K Media Player
- ▶ GUEST CABINS ULTRA HD 43" TV, 2x Lithe Audio Bluetooth Speaker, Dune HD Real Vision 4K Media Player (5 Zones)
- ▶ WHEELHOUSE 1x Lithe Audio Bluetooth Speaker
- ▶ CAPTAIN CABIN ULTRA HD 43" TV, 2x Lithe Audio Bluetooth Speaker, Dune HD Real Vision 4K Media Player
- ▶ CREW MESS ULTRA HD 43" TV, 2x Lithe Audio Bluetooth Speaker, Dune HD Real Vision 4K Media Player
- ▶ CREW BANK CABINS 2x Lithe Audio Bluetooth Speaker (5 zone)
- ▶ GALLEY 1x Lithe Audio Bluetooth Speaker
- ▶ MAINDECK AFT 4x JL Audio Speaker, JL Audio Subwoofer, JLAudio Marine Amplifier 2x JL Audio Speaker, JL Audio Marine Amplifier Samsung Projection, Vividstorm Projector Motorised Screen
- ▶ MAINDECK FWD 4x JL Audio Speaker, JL Audio Subwoofer, JL Audio Marine Amplifier
- ▶ SUNDECK 2x JL Audio, JL Audio Subwoofer, JL Audio Marine Amplifier

CCTV SYSTEM

- ▶ CCTV SYSTEM The CCTV shall include the following functionality; motion detection, pre-set positions based recording and disk back-up. Monitoring stations; Wheelhouse NavCom display & Sundeck NavCom Displays, Owner Cabin TV and Captain Cabin TV.
- ▶ CCTV SYSTEM 1x Avigilon Indoor IP Camera, 1x Avigilon Outdoor IP Camera, Synology CCTV Station with license
- ▶ CCTV SYSTEM 1x Flir Thermal Kamera, 4x Flir Kamera, 31x Flir ArielQuad Hd Mini Dome, 1x 2x8 Matrix Switch Uptech, 3x Cctv Monitor Viewsonic 15.6" 75 Hz

WATERSPORTS EQUIPMENT (OWNER SUPPLY)

All leisure equipment is to be supplied by the Owner respect to the design conditions. Builder will approve the type and dimensions of the subject equipment due to the capacity of the cranes and reserves area dimensions. The Builder is to provide cradles for the subject equipment.

FIRE & SAFETY

SAFETY

- ▶ ZODIAC 4x A Pack Liferaft 10 person, or equivalent
- ▶ CUSTOM Rescue Boat Tender, 7.5mt w/ Yanmar 250HP @3800Rpm (Northstar Orion 7_converted)

FIRE FIGHTING

- ▶ NOVEC 1230 Fire Extinguishing System FOR Engine Room, or equivalent Portable re extinguishers located throughout in accommodation Firefighting equipment according to Classification and Flag State.

ALARMS

- ▶ Customized Engine Alarm Monitoring System
- ▶ CONSILIUM Fire Detection & Alarm System, or equivalent
- ▶ General Alarm System
- ▶ Internal Doors & Escape Hatches Alarm System