KAF Idea Tech Sdn. Bhd.
"Your Easy Solution"

TRAFFIC CONTROL SYSTEM

iTAC Pro Traffic Signal Controller

We provide traffic signal control products, support and services includes supply and installation of traffic light control equipment and operation, maintenance for signalized traffic control system.

iTAC Pro is microprocessor based intelligent traffic signal controller design to control from small size intersection to large size intersections with the maximum throughput and efficiency. It has highly modular structure which allows to fully scalable configuration and design. iTAC traffic controller is incorporated with Fixed Time mode, Multiplan mode, Vehicle Actuated (VA) Mode, Multiplan Vehicle Actuated mode, Police Control mode, UTC-link mode, Pelican mode, Integrated Pelican mode, Grid Connected mode, Flashing Amber mode, Go-Green Synchronization mode, KAF XAITS (XIM Adaptive Intelligent Transportation System) Synchronization mode of operations and various VA (adaptable time based on vehicle volume instead of fixed time countdown) and non-VA mode of digital countdown operations.

Key Benefits:

- **Less waiting time hence lower carbon emissions**
- **Enhanced travel experience with improved efficiency**
- **Flexible and modular system design**
- **Adaptive Traffic Light Control**
- **Real Time Monitoring**
- **Lowering maintenance cost**
- **Improved Junction Throughput**
- **Remote Configuration**
- **Cycle time optimization**

Operation Mode

- Vehicle Actated Mode
- MP Vehicle Actuated Mode
- Fixed Time Mode
- Multiplan Mode
- Police Control Mode
- UTC Link Mode
- Pelican (Pedestrian) Mode

- Go Green Link Mode
- XAITS Link Mode
- Digital Countdown Mode
- Grid Connected Mode
- Flashing Amber Mode
- Integrated Pelician Mode

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OPERATIONAL SPECIFICATION

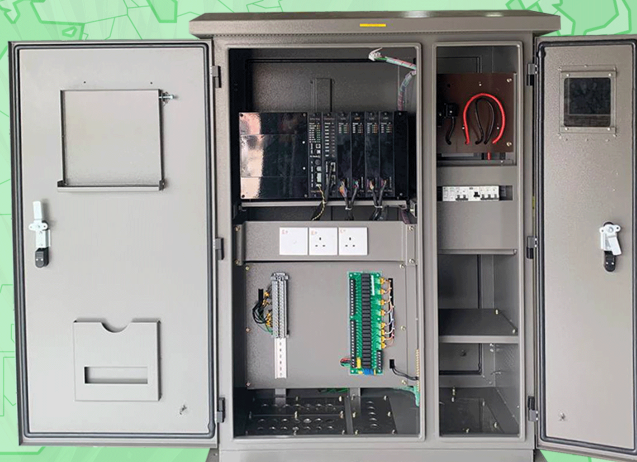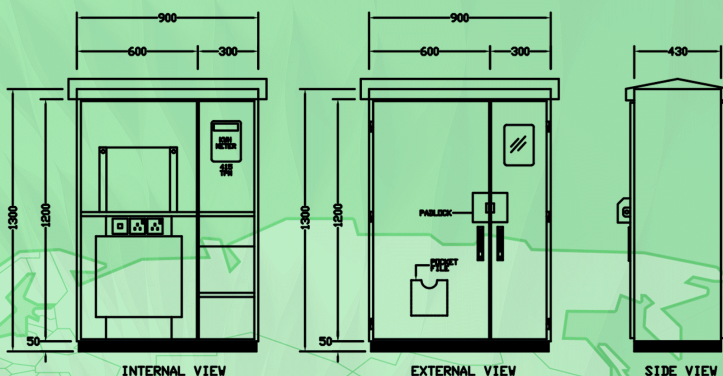|	
MICROPROCESSOR	Microprocessor based 32 bit
SIGNAL GROUP	Available in 4,8, 12,16,20 signal group configurations
PEDESTRIAN OR VEHICLE PHASE	Flow control up to 10 phase pedestrian or vehicle
VEHICLE DETECTION INPUTS	Vehicle detection inputs up to 16 inputs
DIGITAL COUNTDOWN COUNTER COMPATIBILITY*	Provide Non-Va, Semi VA and Full VA data to control countdown operating in: i) Dash ii) Skip Phase Jump Down
COUNTDOWN COMMUNICATION	Support wireless or wired
DIGITAL INPUTS	48 digital inputs
PELICAN DEMAND	Pelican demand up to 12 inputs
UPS OR SOLAR POWER BACKUP SYSTEM MODULE	Compatible (Depends on client requirement)
COMPATIBILITY	Hybrid compatible
ON BOARD AND EXTERNAL MEMORY	8MB with backup battery onboard and provision SD Card Slot
FAULT LOG CAPACITY	Capacity up to 10 years
DATA LOG CAPACITY	Capacity up to 3 years
ONBOARD TOGGLE SWITCH	Switch for forcing amber flashing and reset detection available onboard
CONFLICT AND MONITORING COMPATIBALITY	(Green on Green Conflict Monitoring), (Green - Yellow Conflict Monitoring), (Green - Red Conflict Monitoring), (Red - Yellow Conflict Monitoring), (Conflicting red/amber/green absence monitoring), (Safety action backup plan to flashing amber and blanking traffic light signal lamps), (Signal Lamp Fuse Blown)
AUTOMATIC REVERT	Automatic revert to multiplan time mode for any detection failure such as loop sensor detection, WVD detection and etc.
PROGRAMMING SOFTWARE	i-TAC Programming Software (Windows/Android/IOS)
PPU CONNECTION INTERFACE	USB/ RS-485/ RS-232/Bluetooth
TRAFFIC LIGHT MANAGEMENT SYSTEM	KAF XAITS/REACT
VEHICLE DETECTION	Using inductive Loops sensor (Magnetic wave), Wireless vehicle detection (Motion sensor), CCTV (Image processing detection).
COMUNICATION METHODS TO CONTROL CENTRE	LTE/4G/5G/WIFI
COMUNICATION AND SMS MODULE	KAF XAITS connectivity, fault alert messages to mobile device, and Whatsapp/Telegram Massaging

ELECTRO-MECHANICAL SPECIFICATIONS

DIMENSION IN MM	CONSIST OF 2 DIFFERENT DIMENSION - 4 Door Cabinet: 1300H x 900W x 430D - 2 Door Cabinet: 1130H x 850W x 300D
CABINET MATERIAL	1.5 mm thick epoxy coated oven-baked (grey) stainless steel (ss304), galvanized iron (GI), or electrogalvanized (EG) plate
ACCESS	Push key handle and key
VENTILATION	Roof and 4 meshed air vents
WEIGHT	80kg - 110kg depending on signal groups
MAIN CONTROLLER FACEPLATE	19"
INCOMING VOLTAGE AND FREQUENCY	230 VAC ± 10% at 50 Hz
OPERATING TEMPERATURE	-10 °C to 75 °C
HUMIDITY TOLERANCE	Non-condensing
DEGREE OF PROTECTION	IP55 Protection Standard
ELECTROMAGNETIC COMPATIBILITY	EN 50293 Compliant
ENVIRONMENTAL STANDARD	IEC 60068-2-14; IEC 60068-2-30 Compliant

INTERNAL VIEW   EXTERNAL VIEW   SIDE VIEW

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Disclaimer

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