

Intelligent Mobility



XIM Controller



XIM ITS



KAF IDEA TECH SDN. BHD.

Enhanced Throughput and Efficiency

Flexible and Expandable

Reliable and Robust

Optimized Traffic Flow

Coordinated Intersection

Provides analytical data

Improves traffic safety



THE XIM INTELLIGENT TRAFFIC SIGNAL CONTROLLER

The XIM is new generation microprocessor based intelligent traffic signal controller developed to control from small size intersection to large size intersections with the maximum throughput and efficiency.

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Key Features

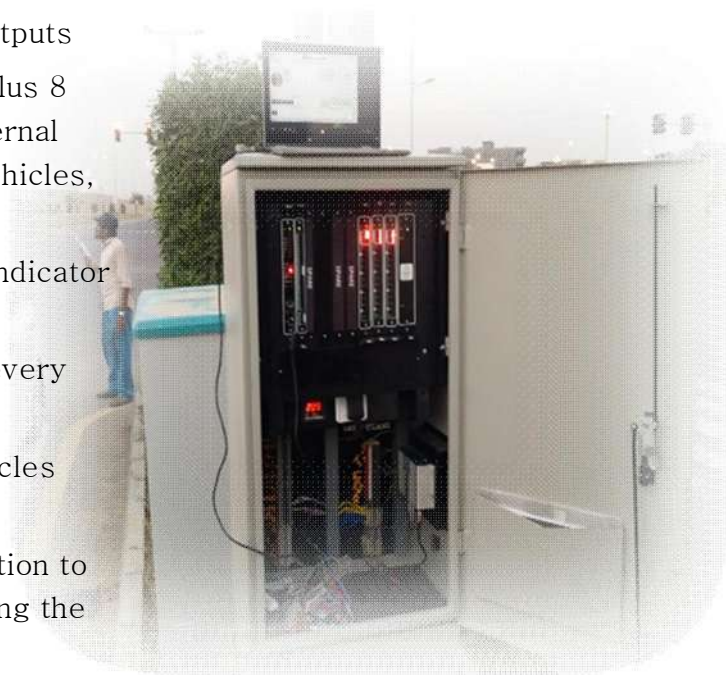
- Local and grid Connected Intelligent operational mode
- Capable of managing up to 32 signal group displays and up to 56 inputs from vehicles, pedestrians, bicycles or emergency services.
- Fully XITS compatible – can be connected to XIM intelligent Transportation System for system operation or in mains frequency coordinated flexible plan operation – and can also operate independently, in isolated mode.
- Designed and developed to internationally accepted safety standards, key safety features include last red out detection and flashing yellow during malfunctions.
- Designed for all weather conditions, the XIM comes in GI housing with an anti-graffiti powder coating.
- Scalable to integrate others ITS systems i.e. VMS, Video cameras, ANPR, Red Light camera, Congestion monitoring system, Journey time monitoring system, etc.
- Ensured Safety by lamp monitoring
- XIM personal digital identity and incorporated Anti-Theft Technology
- Economical and cost efficient design for all type of intersections
- Modular construction which allows to fully scalable configuration and design in addition makes maintenance easy.
- Capable of controlling a wide range of different lantern technologies with various load types.
- XIMP is user friendly windows/Android based user interface software. The interface delivers a comprehensive color screen display of the live intersection, communications monitors, lamp switching and detector inputs with access to all controller operational functions including fault reporting.
- Meets and supports all the functional and operational requirements of the new generation operational parameters traffic software.



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Operational Specification

- Flow Control Up to 10 phase pedestrian or vehicle
- Supports up to 32 Signal Group outputs
- Up to 32 vehicle detector inputs plus 8 pedestrian inputs, or up to 32 external inputs (pedestrians, emergency vehicles, railway inputs)
- Provision for pedestrian demand indicator displays
- 8 individual and 4 redundant for every individual countdown
- Priority mode for Emergency vehicles and VIP's
- Communications ready for connection to XITS via an Ethernet interface using the TCPIP
- Protocol via local network gateway or 3G modem, ADSL or PSTN networks directly

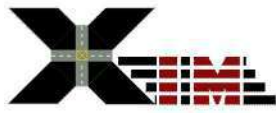


Timing Functions

- User defined and intersection specific time settings
- 48x10x7 flexible timing plans
- Time settings include variable minimum and maximum green time and ability adapt time between the range based on vehicle arrive
- Timers monitor the input from vehicle detectors and adaptive personality functionality assesses traffic density and generates appropriate times to ensure efficient use of available green time
- Pedestrian timers provide safe time settings for pedestrian and bicycle movements

Power Features

- Operational Voltage 110/220 VAC
- Operational Voltage Frequency @ 50Hz
- Power Consumption 60~150W
- Surge Arrestor and Lightning Arrestors provides protection to withstand transient voltage surge of up-to 6 KVA
- Designed to accept input from an external generator, UPS or battery backed flasher supply
- Voltage regulation feature



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Traffic Signal Display

- Solid state switching of all signal groups enables accurate monitoring
- Voltage monitoring per signal output
- Conflicting and fault detection for signal lamp fuse blown, green-on-green conflict monitoring, green-yellow conflict monitoring, green-red conflict monitoring, red-yellow conflict monitoring, conflicting red absence monitoring, conflicting amber absence monitoring, conflicting green absence monitoring
- Lamp fault monitoring feature with reporting functions to improve maintenance
- Flashing amber and blanking traffic signal lamps for safety action and backup mode

Housing

Various housing options available:

- 3 standard housing sizes
- Double/Four door options suitable for housing CCTV, communication and network devices

Safety Monitoring and Reporting Systems

- Controller 'watchdog' software monitoring system
- Separate hardware and software conflict monitoring
- Plain language message log for ease of use
- Logs all equipment and network malfunctions

Communication Options

- Native Ethernet interface on Logic Processor
- Support TCPIP protocols
- Can be connected to TCPIP Gateway, Gateway with Fiber Optic WAN, integrated 3G/4G UMTS WAN or to Gateway with ADSL WAN



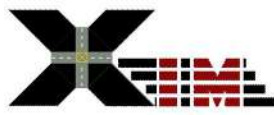
Standard 4-door Cabinet



Standard Front Accessible Cabinet



3-Color Cabinet for Malaysia



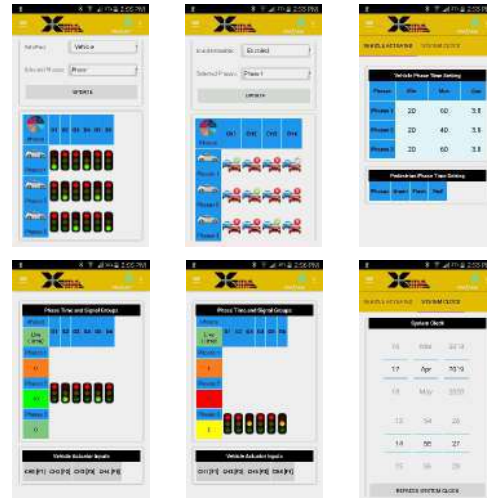
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Programming Software

XIMP (XIM Programmer) is user friendly and unique windows and android based software that uses a tabs system to effectively display:

- General Setting
- Phase Control
- Signal Output
- Phase Demand
- Time Setting
- Traffic Timer
- Real Time Live Operation of Intersection
- Signal Lamp loads for each signal group
- Alarms and Events

XIMP - Android



General Setting



Phase Control



Signal Output



Phase Demand

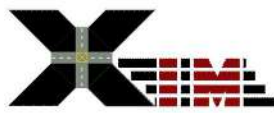


Traffic Timer



Time Setting





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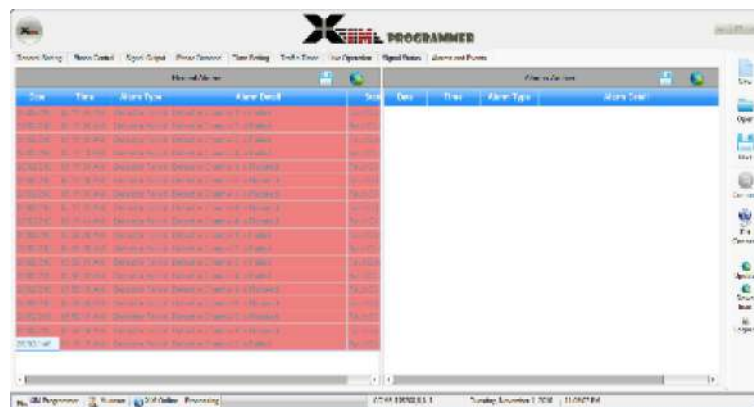
Live Operation



Lamp Status



Alarms and Events



www.kaf2u.com.

Kaf Idea Tech Sdn. Bhd.

Telephone: +60 9-531 5333

E-mail: info@kaf2u.com

No. 102, Level 1, Jalan Bukit Ubi

25200 Kuantan Pahang,

Malaysia.