Infra Solution® X

SmartCard Access Control for Racks





>>> Security

Rack level access security has become critically important for all data centers and server rooms. More and more IT managers have recognized this need and upgraded their racks with smartcard access control.

InfraSolution X 600 series provides data center managers a complete networked solution with **monitoring**, **control**, **alarm & reporting**. It allows rack access remote management - saving traveling time / costs and hence increases the data center operation efficiency.







>>> Compatibility

Hardware - InfraSolution X-600 handle is designed for rack access control. Rack manufacturers just need to make a custom handle mounting cut-out on the door to suit X-600 smartcard handle. It is an alternative for users who look for a handle with a stylish and different outlook design.

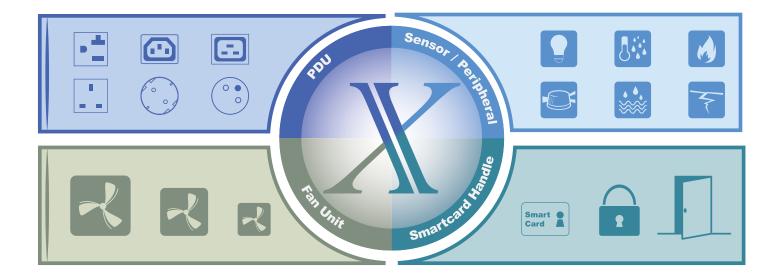
Software - We offer InfraSolution X Manager for software remote management. Besides, InfraSolution X also supports SNMP for integration to the existing BMS of data center. Users can use their own platform for a centralized management.

Smartcard - InfraSolution X caters for the 2 most common Smartcard alternatives - **Proximity** & **MiFARE** format. The users can keep using their existing Smartcard to apply on the rack access system if their Smartcards are in either format as above.



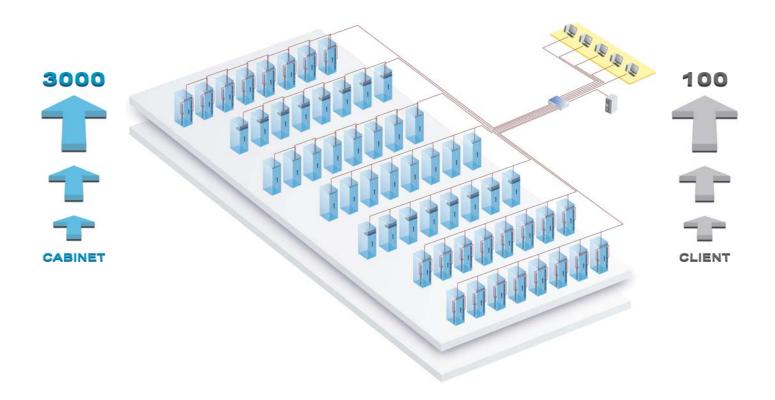
>>> Functionality

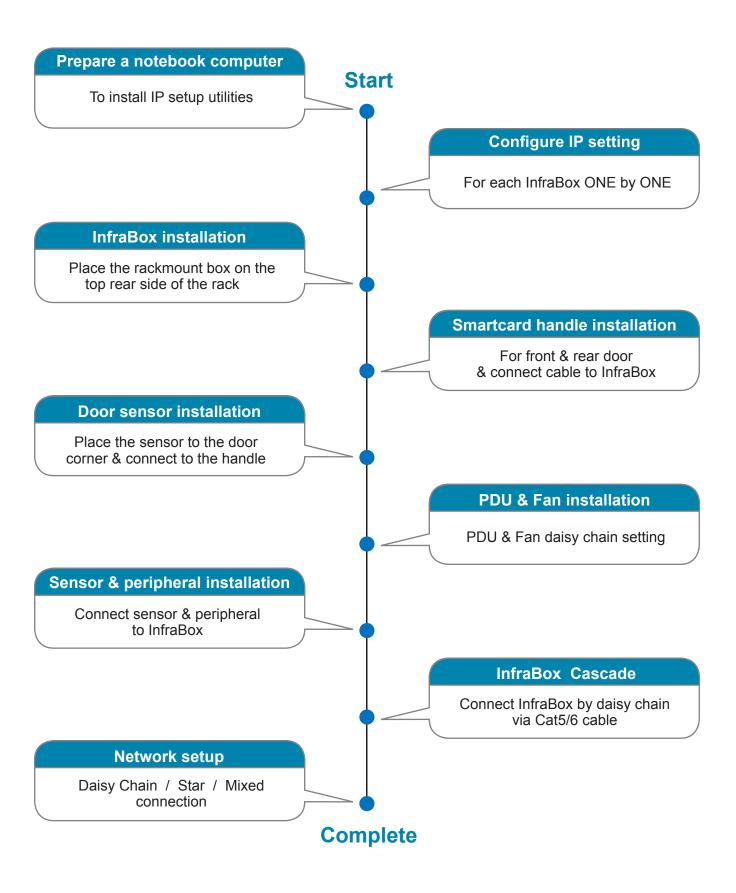
Functionality is not limited to rack access management. In addition to rack access control, InfraSolution X can be further expanded to PDU and environmental management. Users can remotely manage the above devices via the InfraSolution X Manager.



>>> Expandability

The managing capacity of InfraSolution X is expandable to a maximum of 3000 racks. And the InfraSolution X GUI allows up to 100 concurrent client access to remotely manage the Smartcard locking handles. InfraSolution X provides the scalable flexibility to the data center projects, especially to the project with several phases.





Key Hardware - Control Box

Control Box consolidates the smartcard access components and integrated devices such as integrated PDU, cooling fan and environmental sensors in a single rack. For a centralized management, all control boxes can be connected under wired networks.

InfraSolution X offers 2 optional control box models :

X-1000 for Rack Smartcard Access

X-2000 for Rack Smartcard Access + PDU / Fan / Environmental Management



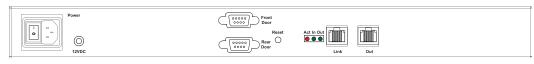


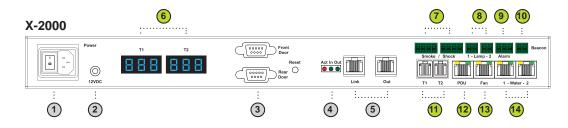






X-1000



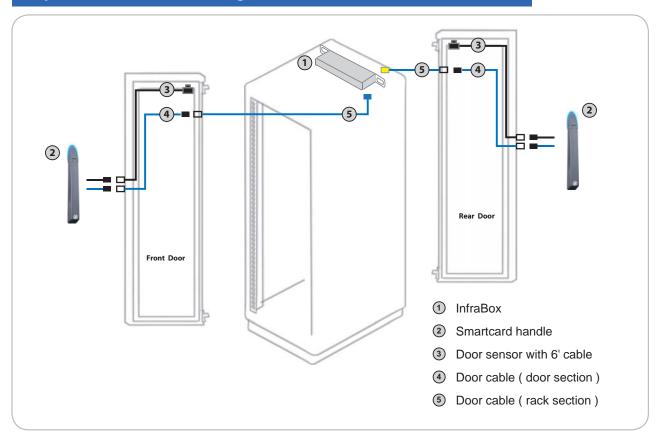


- Power input
- Dual power input (option)
- Door cable DB-9 connector x 2 Connect to the front and rear handle
- "Act in Out" LED
- Daisy chain RJ45 port x 2 (Link & Out)

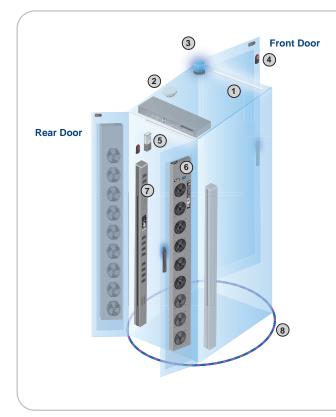
- Temp. LED display x 2
- Smoke / Shock sensor port x 2
- 8 LED Light Bar port x 2
- 9 Port for 3rd party alarm board x 1
- 10 LED beacon port x 1
- 1 Temp. & Humid. sensor port x 2
- 12 PDU port x 1 (RJ-45, up to PDU daisy chain level x 4)
- 13 Fan unit port x 1 (RJ-45, up to fan unit daisy chain level x 2)
- Water sensor port x 2

X-1000 / X-2000 Specification Product Dimension (WxDxH) $400 \times 135 \times 39.7 \text{ mm} / 15.7 \times 5.3 \times 1.6 \text{ inch}$ Net Weight 1.06 kgs / 2.3 lbs **Gross Weight** 2.2 kgs / 4.8 lbs **Power Consumption** Auto-sensing 100 to 240VAC, 50 / 60Hz, Max. 48 Watt **Operating Temperature** 0 to 55°C Degree Storage Temperature -5 to 60°C Degree Relative Humidity 5~90%, non-condensing Mounting 1U Rackmount Safety Regulatory FCC & CE certified Environmental RoHS2 & Reach compliant by SGS

Key Hardware Installation Diagram - InfraBox / Handle / Door Sensor



Installation Diagram - PDU / Fan / Sensor / Peripheral



	Item	Rack
1	LED Light Bar	2
2	Smoke Sensor	1
3	Flashing LED Beacon	1
4	Temp. & Humid. Sensor	2
(5)	Shock Sensor	1
6	Fan Unit	2
7	PDU	4
8	Water Sensor	1

Key Hardware - Smartcard Handle

The patented X-600 smartcard handle is designed for rack access control. Rack manufacturers just need to make a custom handle mounting cut-out on the door to suit X-600 smartcard handle. It is an alternative for users who look for a handle with a stylish and different outlook design.

Patented and Worldwide Patents





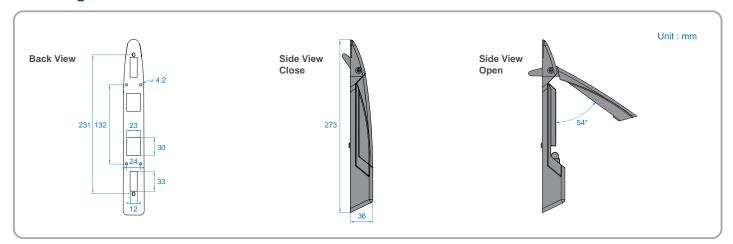






X-600P		Features		X-600M
		Intelligent design with patent		
	~	Proximity 26-bit smartcard compatible		
		MiFARE 26-bit smartcard compatibile	~	
		Dual locking system (electronics and mechanical lock)		
		Electronic lock released either by smartcard or software		
		Rack access status and alarm indication by LED		
		Individual key lock option available		
		Support 3-pt lock mechanism		

Mounting Cut-out



Handle Releasing

InfraSolution X-600 handle allows 3 lock releasing ways - by Software remote, Smartcard or Mechanical key.







Door Sensor is an important component which should never be overlooked. InfraSolution provides high quality, durable and precise door sensors to ensure 100% right door detection.





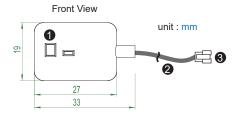


FC (FRACH



(I) IR Door Sensor, pair (S-DIR)

- Magnetic base for easy setup
- No custom cutting required on doors
- Light weight & mini size (33 x 19 x 7 mm)
- 2m cord

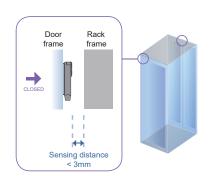




0	Sensor area
2	2m cable
8	Cable jack (connect to handle)

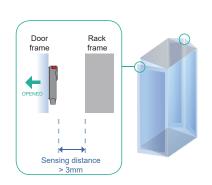
DOOR CLOSE

- Close door
- IR sensor detects the rack frame
- DOOR CLOSE SIGNAL sends out



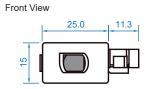
DOOR OPEN

- Open door
- IR sensor loses detection with rack frame
- DOOR OPEN SIGNAL sends out

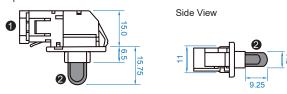


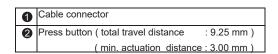
(II) Mechanical Door Sensor, pair (S-DSW)

- Low cost / precise
- Size (36.3 x 15 x 30.75 mm)
- 2m cord



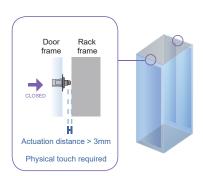
Top View





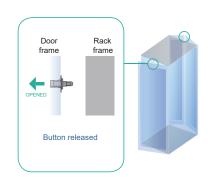
DOOR CLOSE

- Close door
- Sensor button is pressed on
- DOOR CLOSE SIGNAL sends out



DOOR OPEN

- Open door
- Sensor button is released
- DOOR OPEN SIGNAL sends out



With today's increasing demand for power management solution, a complete suite of rack PDU models is required specifically to help data center IT managers meet their rapidly escalating power requirements.

Infra Power intelligent PDU can be integrated to provide a power management solution from PDU Level to Outlet Level kWh monitoring. Switched models are also available for remote outlet switching on / off. Our PDUs are also offered in many sizes and configurations depending on voltage, current, outlet number and type of connections.













TUV & cUL certified for specific configurations

000000000000000000000000000000000000	InfraPower	

DDII corice	Monitored		Switched	
PDU series	W	Wi	ws	WSi
1-Phase: 230V / 208V / 110V	~	~	~	~
Outlet Level Measurement Over IP		~		~
Outlet ON / OFF Switching Over IP			~	~
Latching Relay			~	~
Field Replaceable DC Module	~	~	~	~
Hot-Swappable Meter	~	~	~	~
2.8" Color Touch LCD Meter	~	~	~	~
Billing Grade Meter Accuracy Within +/- 1%	~	~	~	~
Amp & kWh Measurement	~	~	~	~
Resettable Fuse / Hydraulic MCB	~	~	~	~
Options ELCR / Surge Protector / EMI Filter	~	~	~	~
RCM (Residual Current Monitoring Module)	~	~	~	~
Temp., Humidity, Smoke & Door Sensors	~	~	~	~
Door Mount PDU Panel w/ 4.3" Color LCD	~	~	~	~
WiFi Kit (Supports Max. 32 Daisy Chained PDUs)	~	~	~	~
Tool-less Mounting for Vertical PDU	~	~	~	~
0U / 1U / 2U Form Factors	~	~	~	~
Operating Temperature -5 to 60° C	~	~	~	~
Outlet : US NEMA / C13 / C19 / UK / SCH / FR	~	~	~	~
Lockable IEC	~	~	~	~
Fused IEC	~	~	~	~
Custom PDUs on Request	~	~	~	~





The biggest challenge in today's data center is thermal management. Cooling the equipment in an enclosed rack has always been important.

Infra Cool® intelligent cooling fan units can be integrated to have both local & remote management capabilities. Front panel LED and buttons allow the local monitoring and individual fan kit switch on / off. Moreover, fan speed can be adjusted automatically according to the temperature detected by the sensor. It provides adequate airflow and minimizes the operation cost for data center energy consumption.







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IntraCco

Intelligent Fan Unit	Door Mount Fan Panel	1U R	ackmount Fan	Tray
Part No.	RF-33.9	RF-1.3	RF-1.6	RF-1.9
Fan Number	9	3	6	9
Total CFM	972	324	648	972
Airflow	Front Door Rear Door Hot Air Out		Top Exhaust Equipme Cooling Bottom Cool air	
Daisy-chained Fan x 2 via InfraBox	✓	✓		
Temp. Port	∀		~	
Temp. Sensor	~	*		
Automatic Fan Speed Control	~	∀		
Control Panel:	~	~		
• Individual Fan On / Off	~	•		
Alarm Temp. Setting	~	✓		
• Unit CFM (fan speed) Setting	~	~		
Temperature LED	~	~		
• Fan Status LED	~	~		
CFM Status LED	✓		~	

Rackmount Fan Trays



Auto Fan Speed Control



Temp. Sensor Port x 1



To maintain optimum operational conditions in data centers, getting instant notification of various environmental fluctuations is vital.

Infra Solution X offers a wide range of sensors for complete environmental monitoring, including temperature, humidity, smoke, shock and water leakage.

Peripherals such as LED light bars and flashing LED beacons, are designed for use with the sensors for a comprehensive local environmental monitoring solution.



F© (€ N







- One sensor for temperature & humidity
- · Low profile and light weight design with a magnetic base for easy affixing to rack

Part no.:

IG-TH01-2M with 2M cord

IG-TH01-4M with 4M cord

Temp. Sensor



- · Detection for temperature
- · Low profile and light weight design with a magnetic base for easy affixing to rack

Part no.:

IG-T01-2M with 2M cord IG-T01-4M with 4M cord

Water Sensor



- · Fluid leakage detection
- 5M rope round the rack bottom to detect any fluid flowing to the rack area
- IP65 cable joint connectors provided

Part no.:

IG-W01-3M with 3M cord

Smoke Sensor



· Safely operated smoke detection

Part no.:

IG-S01-1M with 1M cord IG-S01-3M with 3M cord



Shock Sensor



· Alert the physical vibration on the rack

Part no.:

IG-V01-1M with 1M cord IG-V01-3M with 3M cord



LED Beacon



· Highly visible for alerting user to alarm status

Part no.:

IG-FB03-1M with 1M cord IG-FB03-3M with 3M cord



LED Light Bar



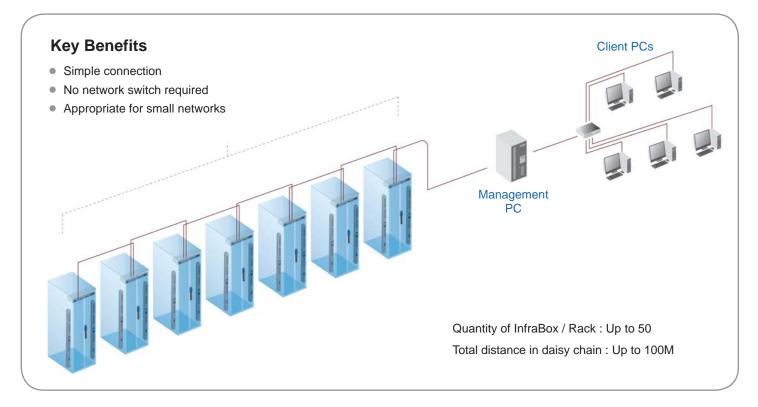
- · Auto ON / OFF by door sensor detection
- Manual ON / OFF by software remote
- · Magnetic base for easy affixing to rack
- Dimension (W x D x H): 20 x 300 x 12 mm

Part no.:

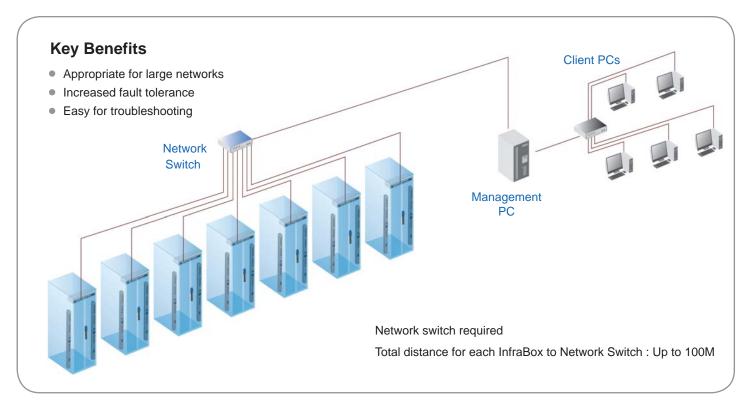
CLB-IX-002 with 2M cord CLB-IX-003 with 3M cord InfraSolution X provides 3 connection ways - Daisy Chain , Star , Mixed.

Which connection users apply is related to the site scale, environment and users' requirements.

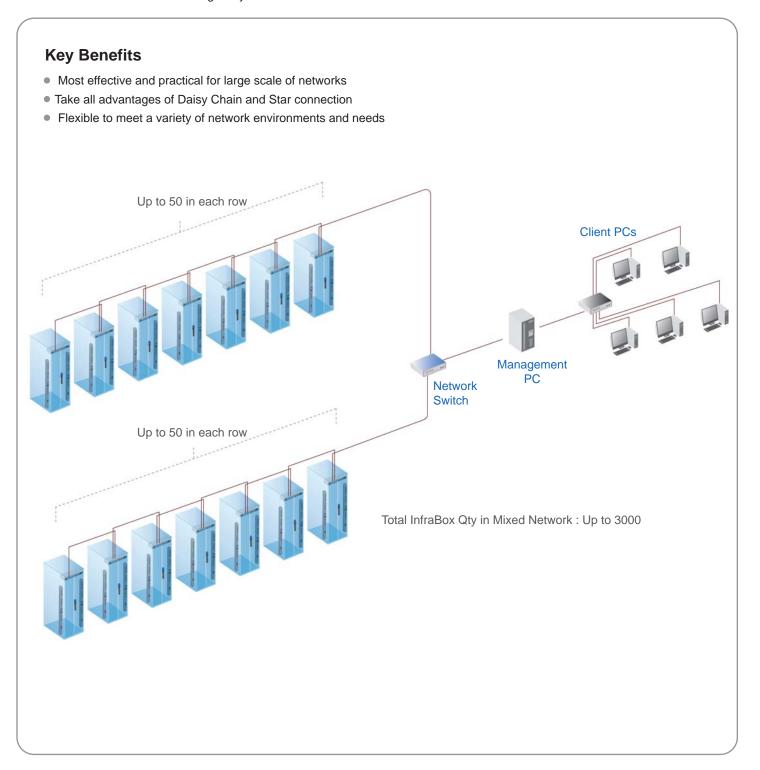
< I > Daisy Chain Connect all InfraBoxes by Cat5/6 cable, and no any network switch required



< II > Star Connect to network switch by a point-to-point connection



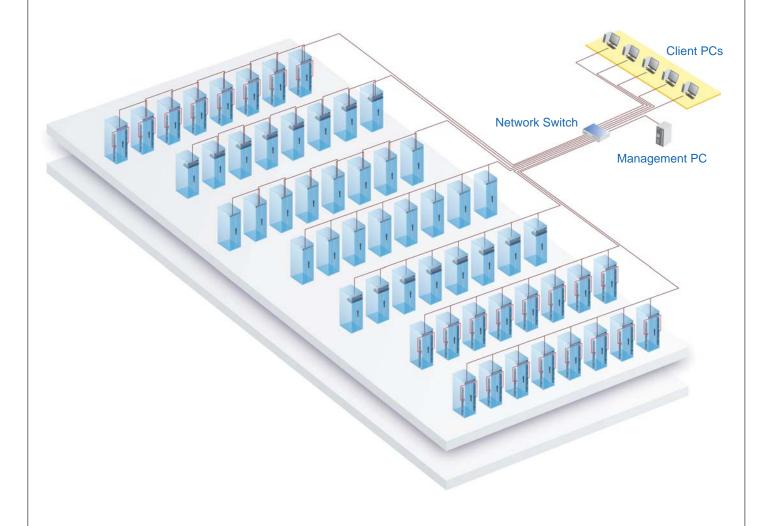
< III > Mixed Combining daisy chain with star connection



< I > Data Center

By mixed connection, InfraSolution X can be scalable up to 3000 racks. X-2000 and X-1000 InfraBoxes can be coexisted in the same network. Users are enabled to manage and remotely access all racks under a centralized and user friendly GUI.

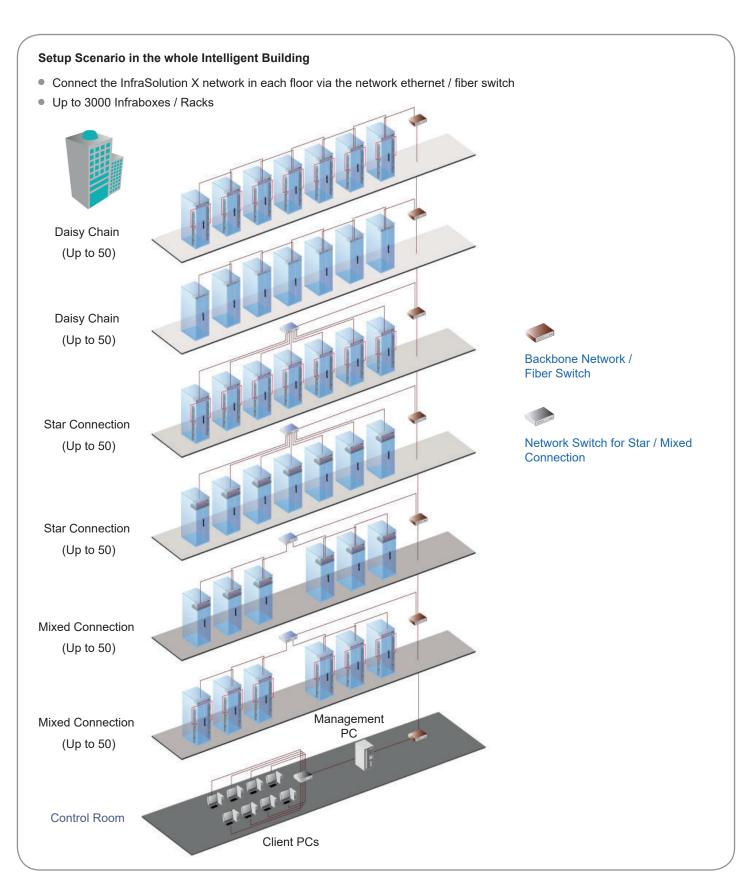
- Connect the 1st InfraBox in each daisy chain to the network switch
- Connect the management PC and client PCs via the network switch
- Up to 3000 Infraboxes / Racks



< II > Intelligent Building

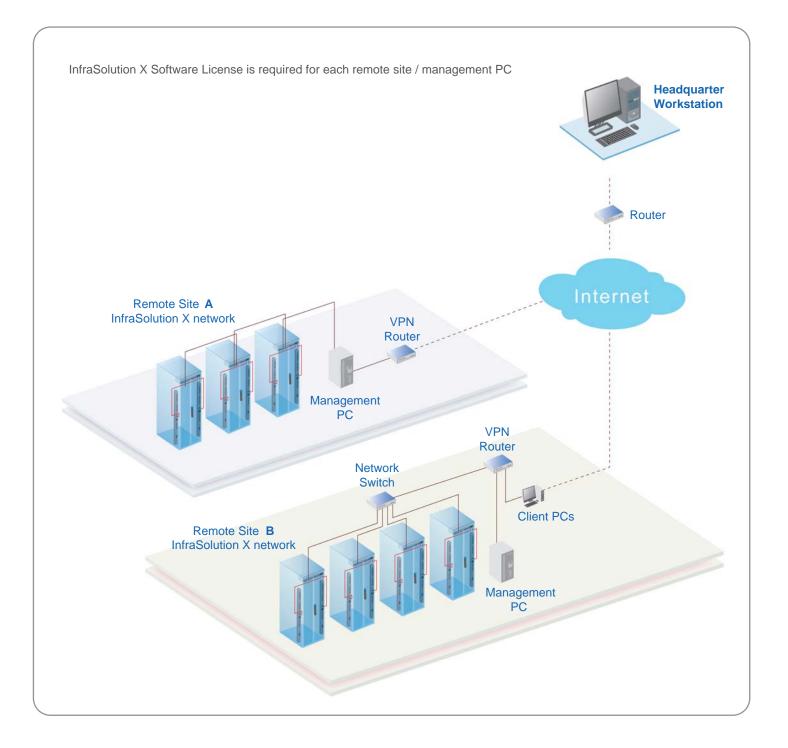
It is essential for a Multi-Storey Intelligent Building to be applied with a centralized management system for the building's mechanical and electrical equipment such as security, power, ventilation, and lighting systems, etc.

InfraSolution X system allows equipment to be distributed throughout a building simply by deploying an Ethernet network. To keep capital costs down, InfraSolution X can also be cascaded between boxes up to 100m over a Cat5/6 cable. Signal weakness problem for long distance between InfraBoxes can be solved by applying network hubs with repeater function.



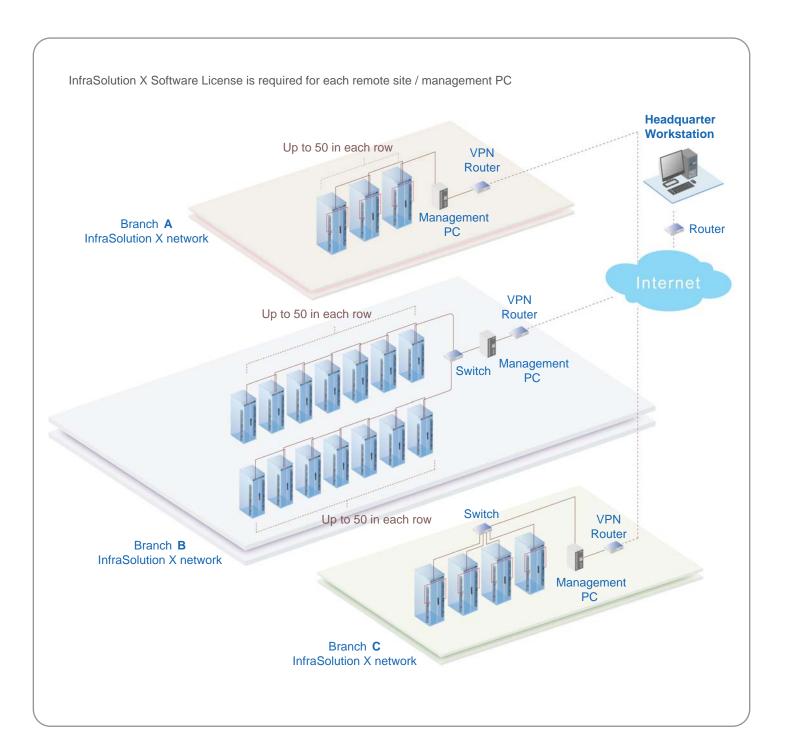
< III > Remote Site

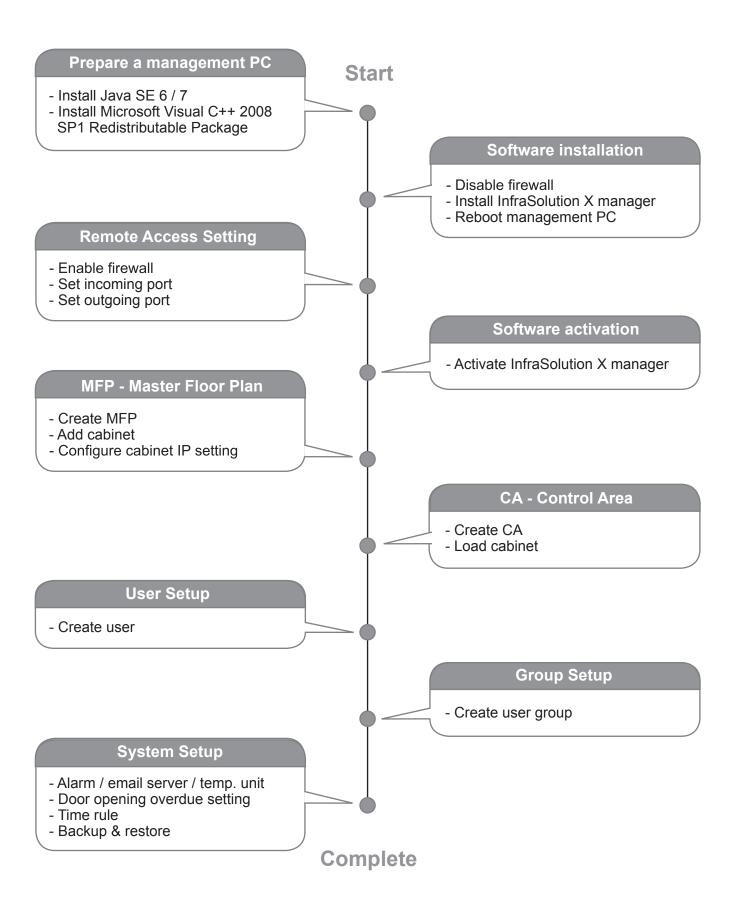
InfraSolution X can be also applied to the remote site for access and monitoring over IP anytime and anywhere.



< IV > Branches

For a global or scalable company, it is vital to remote access and monitor the network of their nationwide and worldwide branches. InfraSolution X provides an ideal solution to keep an eye on rack access security and environmental condition.

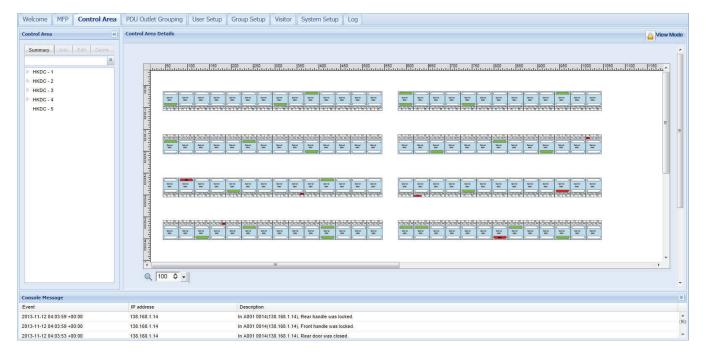




Infra Solution $\!\!\!^{\circ} X$ Manager X-ISM is a LICENSED rack management software to monitor up to 3000 racks remotely.

Each InfraBox connects a pair of smartcard handles to secure the rack access control, and connect a variety of sensors to provide an environmental monitoring solution. To enhance the functionality, up to 1920 x kWh PDU / 960 x Fan Unit can be monitored through InfraSolution X Manager as well. Up to 100 concurrent users can access the management software remotely to achieve the demand of multi-user / multi-tasking in nowadays' time sharing data center operation.

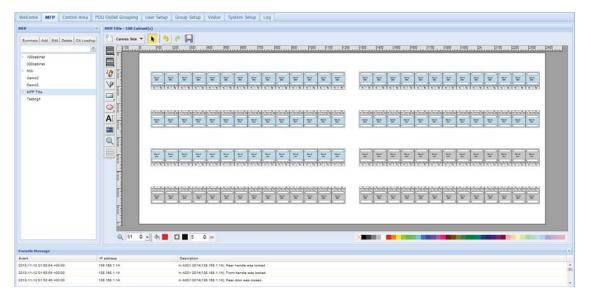




Features		X-ISM
Capacity	InfraBox Concurrent User	3000 100
System Setup	Backup / Restore Setting Time Rule Setting Alarm Mail Server Setting Audio and Visual Alarm Output Setting	<i>V V V</i>
Cabinet Overview Door	Status of Door, PDU, Sensor & Fan Unit Door Open by Remote Last Door Open & Close Record	<i>V V</i>
Sensor / Peripheral	Status Monitoring Temp-Humid Alarm Threshold Setting	V V
PDU	Energy Consumption kWh / Amp Monitoring Outlet Level Measurement PDU Outlet Schedule Outlet Switch ON / OFF Amp Alarm Threshold Setting Amp Rising / Low Alert Threshold Setting Temp-Humid Monitoring	V V V V
Fan Unit	CFM & Temp. Monitoring Unit CFM (fan speed) Setting Auto CFM Control Setting Individual Fan Kit ON / OFF Fan Unit ON / OFF	<i>V V V</i>
Chart / Event / Reporting	System & Device Event Reporting Temp-Humid Line Chart of InfraBox	V

MFP - Master Floor Plan

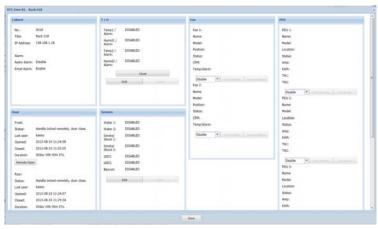
- · An actual Cabinet floor plan
- To create Cabinet & configure the IP setting for the cabinet.
- . MFP can be more than one. No. of MFP is subject to the site scale & plan by floor, zone, building, branches or remote sites.



CA - Control Area

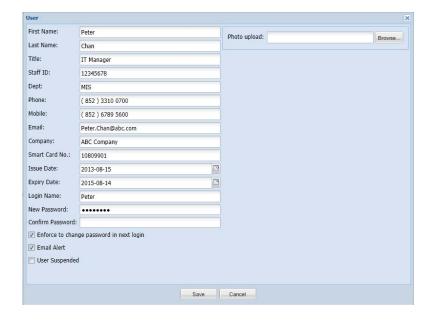
- To build a Control Area for some specific cabinets to monitor, configure & control.
- All cabinets In the CA should be loaded from the MFP.
- CA can be more than one. How many CA is subject to the User plan.
- CA has 2 modes : Edit mode & View mode.
- Under Edit mode, users can configure not only cabinets but also devices such as PDU, Fan unit & sensors.
- View mode is designed for users with limited authority so they can only monitor the status of Cabinet & device.





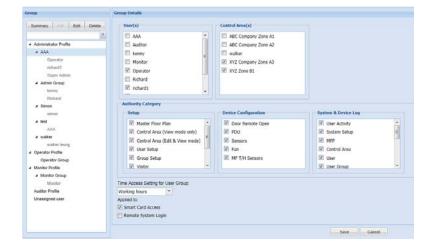
User Setup

- To create a user list for building the user group.
- Each user has his own login name & password for remote System login.
- Each user also has his own smartcard for cabinet access
- · Before users join a user group, they can do nothing.



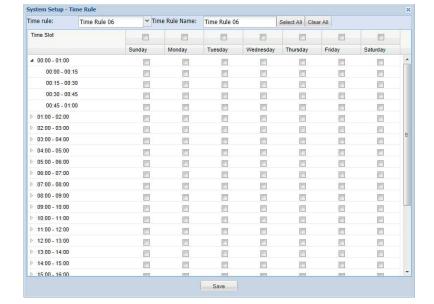
User Group

- To form a user group from the User list.
- To define the user group with authority and which Control Area(s) to monitor & access.
- Each user subordinated to only ONE user group.
- If the user wants to join one more user group, a new login name, password & smartcard number MUST be assigned.
- Each user group MUST select ONE time rule. All group user can access the cabinet according to the time period of the selected time rule.
- Without time rule assignment, All group user cannot access the cabinet.



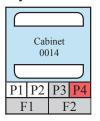
Time Rule

- To set time rules up to 32.
- Afterward, all time rules will be shown in user group for their selection.
- Only ONE time rule can be assigned to ONE user group.



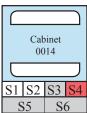
Cabinet icon has two layers, the layer one by default shows on all control area under view mode for status monitoring. User can click cabinet icon to switch to layer two.

Layer one



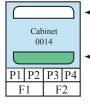
- show PDU status (P1,P2, P3, P4)
- if PDU is enabled & connected, P icon in WHITE color
- · if PDU is enabled BUT disconnected, P icon in RED color
- if PDU is on alarm status, P icon also in RED
- · if PDU is disabled, P icon in GREY color
- show Fan unit status (F1, F2)
- if Fan unit is enabled & connected, F icon in WHITE color
- if Fan unit is enabled BUT disconnected, F icon in RED color
- · if Fan unit is on alarm status, F icon also in RED color
- · if Fan unit is disabled, F icon in GREY color

Layer two



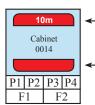
- show TH sensor status (S1, S2)
- if TH sensor is enabled & connected, S1, S2 icon in WHITE color
- if TH sensor is enabled BUT disconnected, S1, S2 icon in RED color
- if TH sensor is on alarm status, S1, S2 icon also in RED color
- · if TH sensor is disabled, S1, S2 icon in GREY color
- show smoke & shock sensor status (S3, S4)
- if smoke & shock sensor is enabled & connected, \$3, \$4 icon in WHITE color
- if smoke & shock sensor is on alarm status, S3, S4 icon also in RED color
- · if smoke & shock sensor is disabled, S3, S4 icon in GREY color
- show water sensor status (\$5, \$6)
- if water sensor is enabled & connected, \$5, \$6 icon in WHITE color
- if water sensor is on alarm status, \$5, \$6 icon also in RED color
- · if water sensor is disabled, \$5, \$6 icon in GREY color

Door status



- - Door close status in white

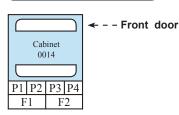
← - - Door open status in green

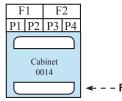


 Door open overdue status in red (show overdue time)

- - Door alarm status in red (unauthorized open)

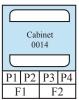
Door direction



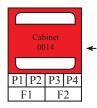


- - Front door

Connection status

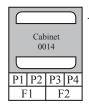


 Normal connection status (color in blue)



- - Disconnection status (color in red)

Non-configure cabinet



-- (color in grey)

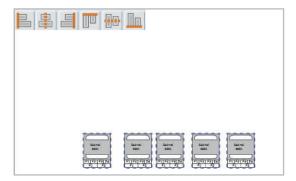
control area.

In MFP master floor plan, the grey cabinet icon shows that the cabinet has not been configured with IP setting yet.

In CA control area, the grey cabinet icon shows that the cabinet has been deleted in master floor plan.
The user should remove this non-function cabinet from

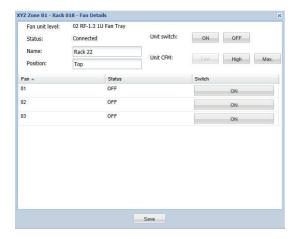
Cabinet Alignment

- >> Provided by MFP & CA
- >> For user to arrange the cabinet in a neat way
- >> Top / middle / bottom alignment
- >> Left / center / right alignment



Fan

- >> Status
- >> Fan Unit Setting
- >> Temp. Setting



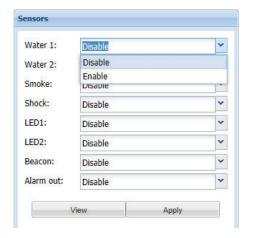
Individual Cabinet Door

- >> Door open by remote
- >> View the record of last door open & close record



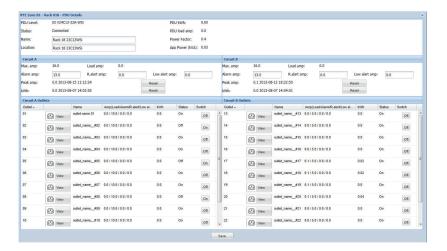
Sensors / Peripherals

- >> Sensor Status (provided by CA view mode)
- >> Sensor Setting



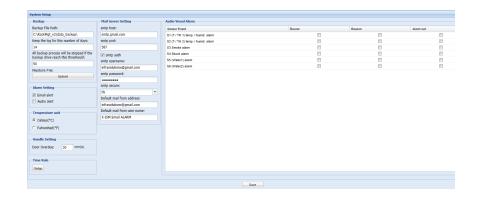
PDU

- >> Status
- >> PDU / Temp + Humid Setting
- >> Outlet Schedule
- >> Outlet Switch ON / OFF



System Setup

- >> Backup & Restore
- >> Alarm Setting, Mail Server Setting, Audio Visual Alarm
- >> Temperature unit
- >> Door opening overdue setting
- >> Time Rule



Device & Event Log

Devices:

System:

>> Cabinet

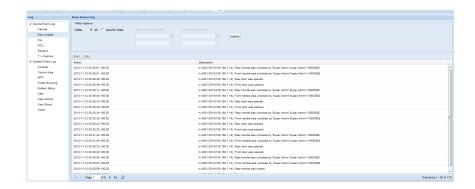
>> Console

>> MFP

- >> Door Access
- >> Control Area
- >> Fan
- >> Sensors

>> T/H Sensor

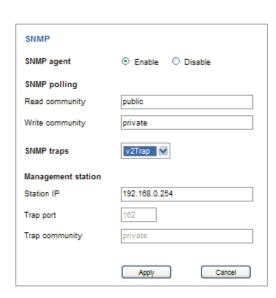
- >> System Setup
- >> User
 - >> User Activity
 - >> User Group
 - >> Visitor



SNMP

 $\label{lower} \mbox{InfraBox can manage the following connected devices via $$NMP:$ }$

- >> Smartcard handles
- >> PDUs
- >> Fan Units
- >> Sensors
- >> Peripherals



Individual Key Lock



• Up to 500 individual key-locks available

Part no.:

ISK-C051 set of 2 for front & rear door

Unique Key Lock



- Unique key dedicated to single project / customer regionally
- For project size over 500 racks

Part no.: ISK-UKL

Proximity Smartcard



- Proximity 26-bit format
- Single card for multiple application
- · Custom layout available

Part no.:

ISC-P10 pack of 10

MiFARE Smartcard



- MiFARE 26-bit format
- Single card for multiple application
- · Custom layout available

Part no.:

ISC-M10 pack of 10

Proximity Card Reader



- Compatible to **Proximity** 26-bit Smartcard format
- · Convenient way for Smartcard ID checking
- Driverless for easy installation

Part no.: ISC-PCR

MiFARE Card Reader



- Compatible to MiFARE 26-bit Smartcard format
- · Convenient way for Smartcard ID checking
- Driverless for easy installation

Part no.: ISC-MCR

Key Hardware

>> InfraBox - X-1000 or X-2000

Connection	X-1000	X-2000
Smartcard Handles w/ Door Sensors	*	~
PDUs		✓
Fan Units		~
Sensors / Peripherals		

>> Smartcard handle - Proximity or MiFARE

Smartcard Compatibility	X-600P	X-600M
Proximity	*	
MiFARE		~

>> Door Sensor - Inductive or Mechanical

Inductive Door Sensor (S-DSI)	Mechanical Door Sensor (S-DSW)
• light weight / mini size / adhesive	• low cost / precise
easy setup for existing rack retrofit	cost efficient integration to new rack
• no custom cutting required on door	custom cutting required on door

Management Software

>> Select the Matrix server license package

Part no.	Cabinet License no.	Client License no.
X-ISM-10+5	10	5
X-ISM-20+5	20	5
X-ISM-50+5	50	5
X-ISM-100+5	100	5
X-ISM-300+5	300	5
X-ISM-500+10	500	10
X-ISM-1000+10	1000	10

>> Cabinet license for additional requirement (up to 3000)

Part no.	Cabinet License no.	
X-N005	5	
X-N010	10	
X-N020	20	
X-N050	50	
X-N100	100	
X-N200	200	

>> Client license for additional need (up to 100)

Part no.	Client License no.	
X-C005	5	

PDU (X-2000 only)

InfraPower intelligent PDU:

WSi Switched + Outlet measurement

WS Switched

Wi Monitored + Outlet measurement

Monitored PDU

* All PDUs come with Temp. + Humid. sensor port x 2

Outlet: Voltage (AC):

US Nema 110V IEC C13 / C19 230V / 208V UK BS1363 + IEC 230V GR Schuko + IEC 230V

Fan Unit (X-2000 only)

InfraCool remote fan unit :

RF-33.9 33U remote door mount fan panel w/ 9 fans
 RF-1.3 1U rackmount expansion fan tray w/ 3 fans
 RF-1.6 1U rackmount expansion fan tray w/ 6 fans
 RF-1.9 1U rackmount expansion fan tray w/ 9 fans

* All remote fan units come with Temp. sensor x 1

Sensor / Peripheral (X-2000 only)

IG-TH01-2M	Temp. + Humid. sensor	w/ 2m cord
IG-TH01-4M	Temp. + Humid. sensor	w/ 4m cord
IG-T01-2M	Temp. sensor	w/ 2m cord
IG-T01-4M	Temp. sensor	w/ 4m cord
IG-S01-1M	Smoke sensor	w/ 1m cord
IG-S01-3M	Smoke sensor	w/ 3m cord
IG-V01-1M	Shock sensor	w/ 1m cord
IG-V01-3M	Shock sensor	w/ 3m cord
IG-W01-3M	Water sensor	w/ 3m Cat6 cable
IG-DSI-2M	Inductive door sensor, pair	w/ 2m cord
IG-DSI-4M	Inductive door sensor, pair	w/ 4m cord
IG-DSW-2M	Mechanical door sensor, pair	w/ 2m cord
IG-DSW-4M	Mechanical door sensor, pair	w/ 4m cord
CLB-IX-002	LED light bar	w/ 2m cord
CLB-IX-003	LED light bar	w/ 3m cord
IG-FB03-1M	LED beacon	w/ 1m cord
IG-FB03-3M	LED beacon	w/ 3m cord



Founded in 1995, Austin Hughes is a design and manufacturing group that offers a broad range of solutions based around 19 inch rack mount technology: the UltraRack IT server rack series, InfraRack intelligent rack solutions, InfraPower intelligent remote management power solutions, InfraCool intelligent remote cooling systems, InfraGuard environmental sensors and peripherals, InfraSolution remote locking and access control & CyberView LCD KVM switches. We also offer industrial & commercial IT products: UltraView professional displays & MiniBoot web power reboot.

Austin Hughes has ISO14001 and ISO9001 approved design, manufacturing, assembly and test facilities. We support a worldwide customer base through our global locations in the Americas, EMEA, APAC and ASEAN and through an extensive authorized channel partner network.





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