

IOVU-430M

Multi-touch Empowered Arm Based Flat-bezel Panel PC

While touch sensor is commonplace for single points of contact, IOVU-430M's multi-touch sensor enables users to interact with the system with more than one finger at a time. IOVU-430's RISC-based system provides high performance, lower power consumption, wide operating temperature, rugged compact form factor and cost efficiency. Built-in Wi-Fi module, GPIO (General Purpose Input/Output) and CAN-bus control have varied applications be flexible.



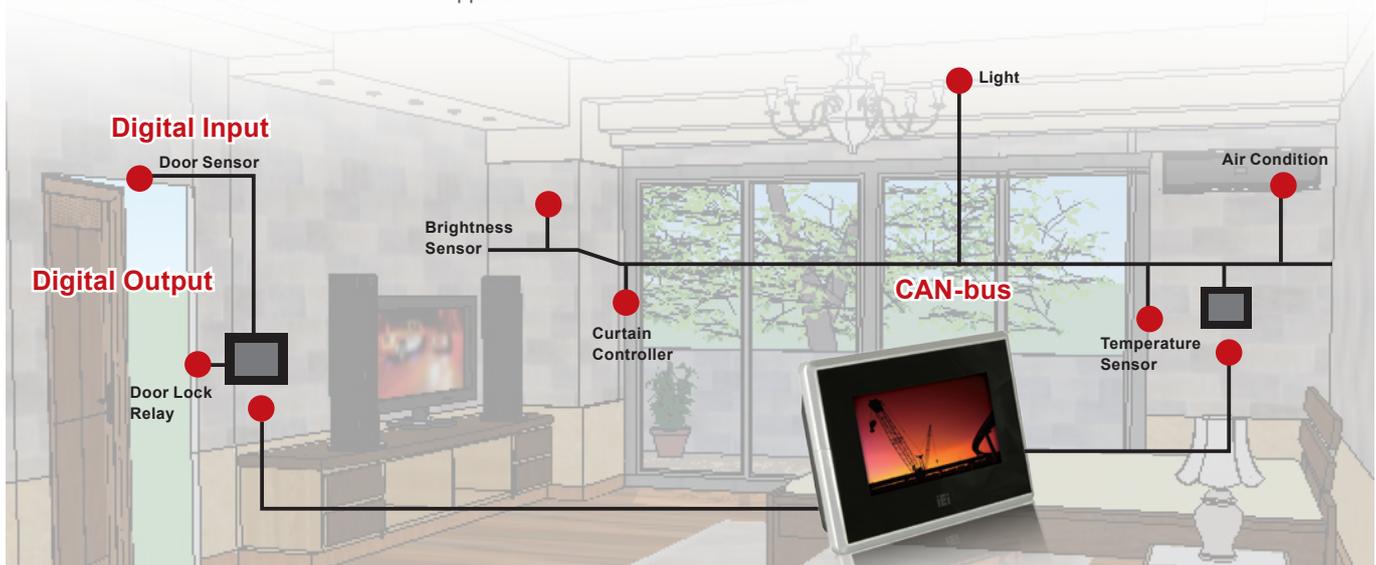
Features:

- RISC-based processor provides high performance and extremely low power consumption
- 4.3" widescreen WQVGA TFT LCD with projected-capacitor touch screen
- Multi-touch function provides flexible touch control
- Compact fanless design with plastic housing
- Built-in 1.5w speakers
- Built-in 802.11b/g Wi-Fi function
- CAN-bus and GPIO provide flexible industrial control
- Flat multi-touch screen and IP65 compliant
- Mini Secure Digital (SD) card slot for storage expansion

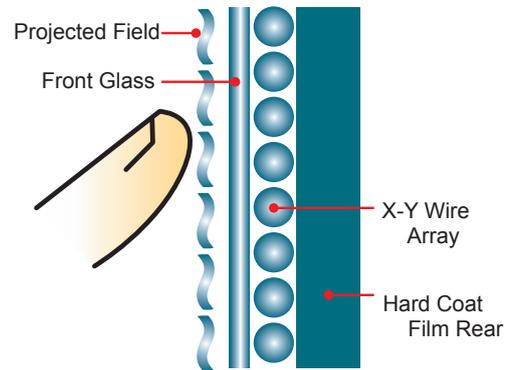


Flexible Connectivity

Designed for automation applications, IOVU-430M provides various control interface choices to fit different automatic control applications. One can use GPIO (General Purpose Input & Output) in single control cases, for instance, to receive door sensor signal via digital input and send output signal to lock relay for door control. Furthermore, IOVU-430M provides CAN-bus connectivity which empowers to compose a smart network in advanced automation applications.



Projected Capacitor Multi-touch



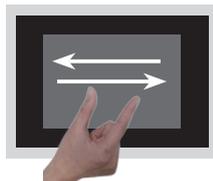
Activated by a finger or gloved hand

Operation Theory

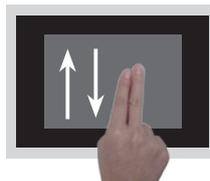
PCT is based on the principle of embedding an array of micro-fine sensing wires within a multi-layer laminated screen behind a protective front surface, ensuring that the sensing medium is well-protected from accidental and malicious damage.

IEI IOVU-430M Multi-touch SDK

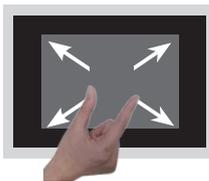
Empowered by equipping multi-touch technology, IOVU-430M provide users with a more delightful controlling experience. Compared to conventional single-touch technology, now application programmers increase user interface to more friendliness by providing intuitive gesture control methods. IEI shares software development kit and demo AP with source code to support quick software building. IEI IOVU-430M multi-touch SDK provides up to 10 gestures for user to define various users behaviors which makes operating more convenient and interesting.



Slide (Multi-touch)
Left (Right)



Slide (Multi-touch)
Up (Down)



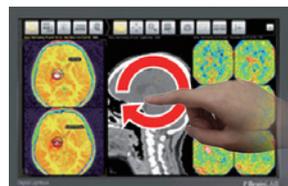
Zoom Out



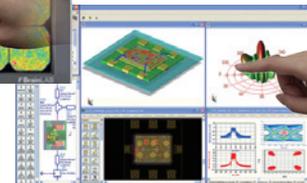
Zoom In



Presentation



Healthcare



e-Collaboration

Gesture Applications

Using a combination of gestures, users can freely rotate, zoom-in, and zoom-out, to emphasize specific photographs, graphics, or diagrams. With the ability to go back to a wider vision of an entire slide, convenience and flexibility is greatly enhanced during the communication process.

Flat Bezel Panel

The IOVU-430M full-flat surface screen makes the screen and bezel appear to blend seamlessly together. The flat-bezel design removes the front frame (bezel) of standard LCD to create a seamless surface. The IOVU-430M zero-bezel resistive/projective capacitive touch system offers aesthetic elegance, easy to clean, seamless front face.

- Better visual effects
- No EDGE EFFECTS
- Sleek, stylish luxury look without clutter
- Easy clean properties



Full Flat Screen

In-Wall Cage



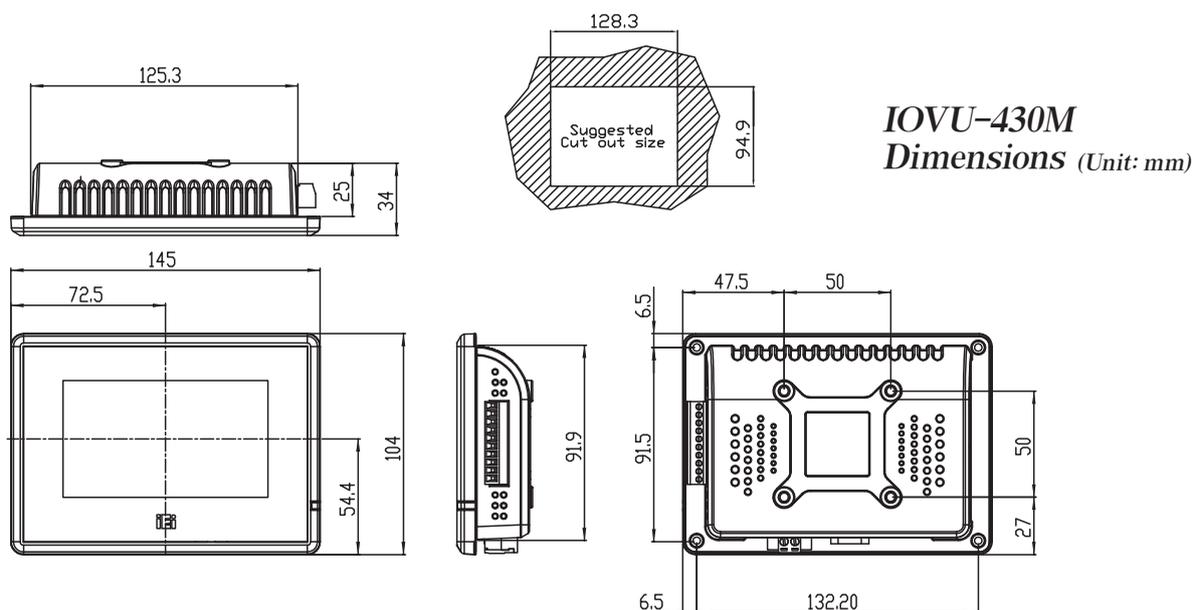
White in-wall cage



Black in-wall cage

IOVU-430M Specifications

Model	IOVU-430M	Audio	2 x 1W speaker
LCD size	4.3"	Construction Material	ABS + PC Plastic
Max. Resolution	480 x 272	LED Function	1 x Power ON/OFF LED on front panel
Brightness (cd/m²)	400	Mounting	Wall, stand, vstand and arm (VESA 50 x 50)
LCD Color	262K	Front Panel Color	Black
Pixel Pitch (mm)	0.066(H) x 0.198(V)	Dimensions (W x H x D mm)	145 x 104 x 34
Backlight MTBF	10000 hrs	Operation Temperature (°C)	0°C ~ 50°C
Touch Screen	Projected-Capacitor	Storage Temperature (°C)	-20°C ~ 60°C
CPU	MARVELL XScale PXA270 416MHz	Net Weight (kg)	0.7
RAM	128MB SDRAM	IP Level (Front Panel)	IP 65
Bootloader Storage	2MB boot ROM	Power Requirement	12~36V DC input
OS/Program Storage	1GB miniSD card	Power Consumption	7W
I/O Ports and Switches	1 x RS-232/422/485 COM port (software controllable) 1 x Reset button 1 x 10/100Mbps LAN 1 x USB1.1 host 1 x CAN-bus 2.0b 6 x GPIO (voltage range 2.97V~3.63) 2-pin terminal block DC input		



Packing List

1 x IOVU-430M
1 x Null modem cable
1 x Screw kits
1 x Utility CD includes SDK, utilities and technical document
1 x Touch pen (only for single-touch mode)

Options

Part No.	Description
63000-FSP060DBAB1555-RS	12V/5A DC 60W power adapter with bare wire, 90~264V AC input
IOVU-430M-IWC/B/-R10	In-wall cage
IOVU-430M-IWC/W/-R10	In-wall cage

Ordering Information

Part No.	Description
IOVU-430M-CE5/MT/-R10	4.3" TFT, WQVGA fanless with MARVELL XScale PXA270 CPU, 128MB SDRAM, projected-capacitor multi-touch panel PC with built-in Windows® CE 5.0 license
IOVU-430M-CE5/ST/-R10	4.3" TFT, WQVGA fan-less with MARVELL XScale PXA270 CPU, 128MB SDRAM, resistor type single-touch panel PC with built-in Windows® CE 5.0 license
IOVU-430M-CE5/ST/WL/-R10	4.3" XSCALE PXA270 416MHZ resistor type single-touch panel PC with 802.11b/g Wi-Fi function ,built-in Windows® CE 5.0
IOVU-430M-CE5/MT/WL/-R10	4.3" XSCALE PXA270 416MHZ capacitor type multi-touch panEL PC with 802.11b/g Wi-Fi function ,built-in Windows® CE 5.0