NEW Product **XGT Panel**

iXP Series

Convenient control with a single touch!

A user-oriented interface, enhanced performance, and soft and quick screen switching and respond speed to touch!

Meet iXP series of LSIS that genuinely and fully connects humans with equipments.

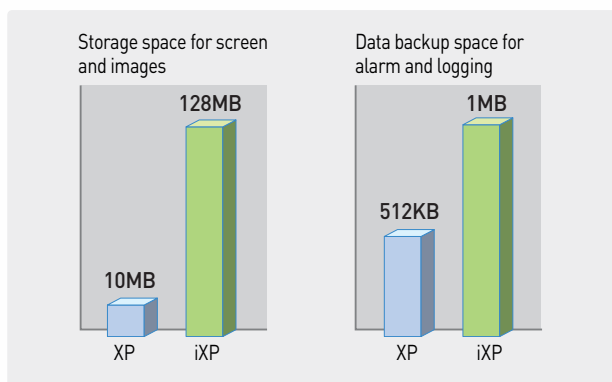## It is highly competitive using the user-friendly technologies.

- Quick screen switching and response speed to touch
- 16.7M TFT colored LCD
- Large drawing / backup memory (Drawing-128MB, Backup-1MB)
- Sound I/O support
- Various interfaces
  - USB Host 3ch (Front: 1, Rear: 2), Device 1ch (Front)
  - CF card and SD card
  - Various communication drivers provided
- Presence sensor applied (within 1m)

High Speed

High-performance 1GHz CPU is installed to improve the data and screen switching speed, and Windows CE 6.0 Professional OS is adopted to execute NET-based external applications.

Large Memory

Large device memory is provided to save mass data.

Storage space for screen and images

128MB
10MB
XP   iXP

Data backup space for alarm and logging
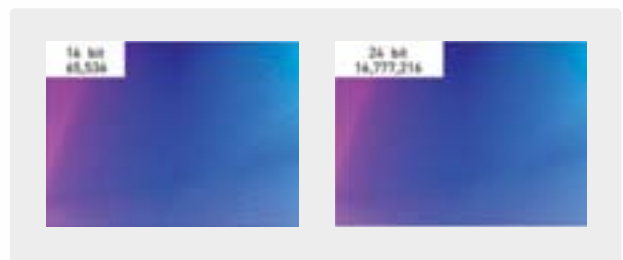
1MB
512KB
XP   iXP

Presence Sensor

Sensor detects movement within 1m, to control the backlight, ensuring a longer life of the product.

More Colorful

High luminance/resolution LCD with an LED backlight and 24 bit colors to express clear and vivid colors of 16,777,216.

16 bit 65,536

24 bit 16,777,216

Window CE-based new HMI developed with advanced technologies of LSIS to optimize the user experience

XGT Panel iXP / XP Series

iXP Series

Standard

| Ethernet I/F | Serial I/F(RS-232C) | Serial I/F(RS422/485) |
| USB I/F | CF Card I/F, SD | |

	15"(38cm)	**12.1"**(31cm)	**10.4"**(26cm)
Standard	**iXP90-TTA** TFT 16,777,216 colors XGA(1024 × 768 dots)	**iXP80-TTA** TFT 16,777,216 colors SVGA(800 × 600 dots)	**iXP70-TTA** TFT 16,777,216 colors SVGA(800 × 600 dots)

XP Series

General

| Ethernet I/F | Serial I/F(RS-232C) | Serial I/F(RS422/485) |
| USB I/F | CF Card I/F, SD | Expansion port |

Economical

| Serial I/F(RS-232C) | Serial I/F(RS422/485) | USB I/F |
| CF Card I/F | | |

	15"(38cm)	**12.1"**(31cm)	**10.4"**(26cm)
General	**XP90-TTA** TFT 65,536 colors XGA(1024 × 768 dots)	**XP80-TTA** TFT 65,536 colors SVGA(800 × 600 dots)	**XP70-TTA** TFT 65,536 colors VGA(640 × 480 dots)
Economical			

8.4"(21cm)

iXP50-TTA

TFT 16,777,216 colors
SVGA(800 × 600 dots)
※ Coming soon

8.4"(21cm)	7"(17.7cm)	5.7"(14cm)	

XP50-TTA

TFT 65,536 colors
VGA(640 × 480 dots)

XP40-TTA

TFT 65,536 colors
WVGA(800 × 480 dots)
※ CF card I/F and expansion
  ports not supported.

XP30-TTA

TFT 65,536 colors
QVGA(320 × 240 dots)

XP30-BTA

STN MONO (8-column Gray)
QVGA(320 × 240 dots)

XP40-TTE

TFT 65,536/256(Default) colors
WVGA(800 × 480 dots)
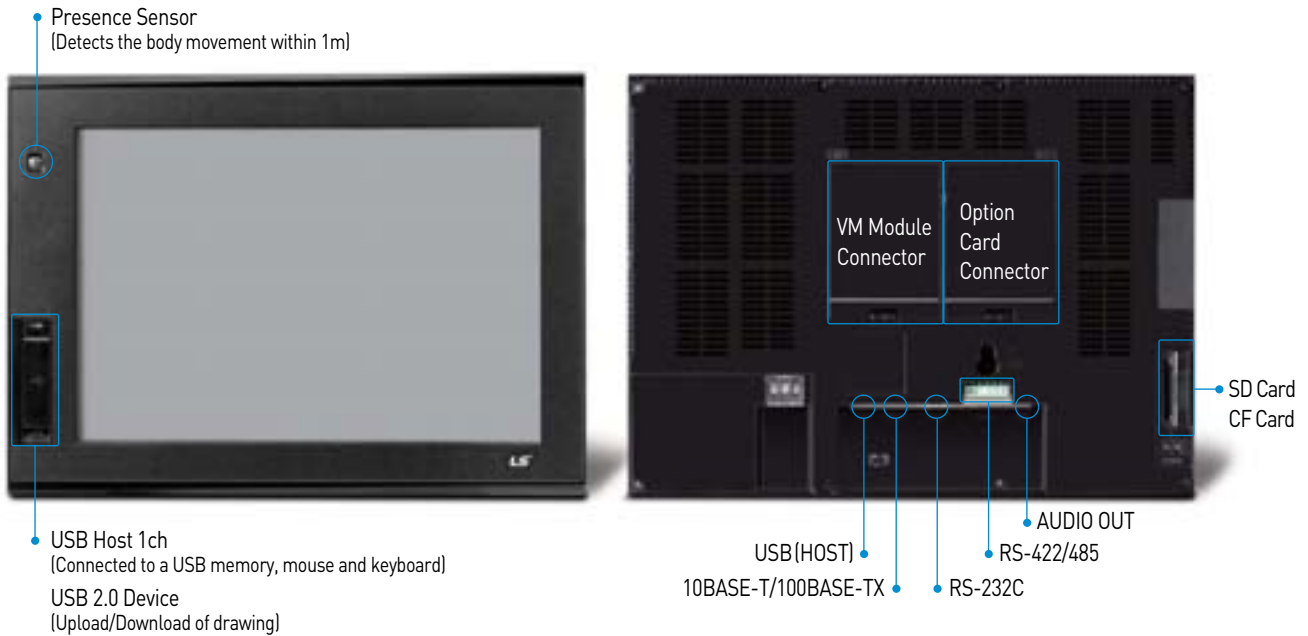※ CF Card I/F not supported.

XP30-TTE

TFT 256 colors
QVGA(320 × 240 dots)

XP30-BTE

STN MONO Economical type
(8-column Gray)
QVGA(320 × 240 dots)
※ CF Card I/F and USB I/F
  not supported.

Hardware Related Functions iXP

Presence Sensor
(Detects the body movement within 1m)

VM Module Connector

Option Card Connector

SD Card
CF Card

USB Host 1ch
(Connected to a USB memory, mouse and keyboard)

USB 2.0 Device
(Upload/Download of drawing)

USB (HOST)

10BASE-T/100BASE-TX

RS-232C

RS-422/485

AUDIO OUT

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iXP 1 Respective Front USB Host/Device Channel

- An additional USB host channel is installed in the front panel.
- A front USB host is used to connect to a USB memory, mouse and keyboard.
- A front USB device port is used to change the XP-Runtime without opening a control panel or download/upload the drawing file created using XP-Builder.
- USB download cable (USB-310A)

Front USB port

USB-310A

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iXP Sound Output Function (For all iXP models)

- The sound files (wav, mp3) registered using XP-Builder can be output to speakers connected to HMI.
- An alarm is generated via speakers to warn operators.
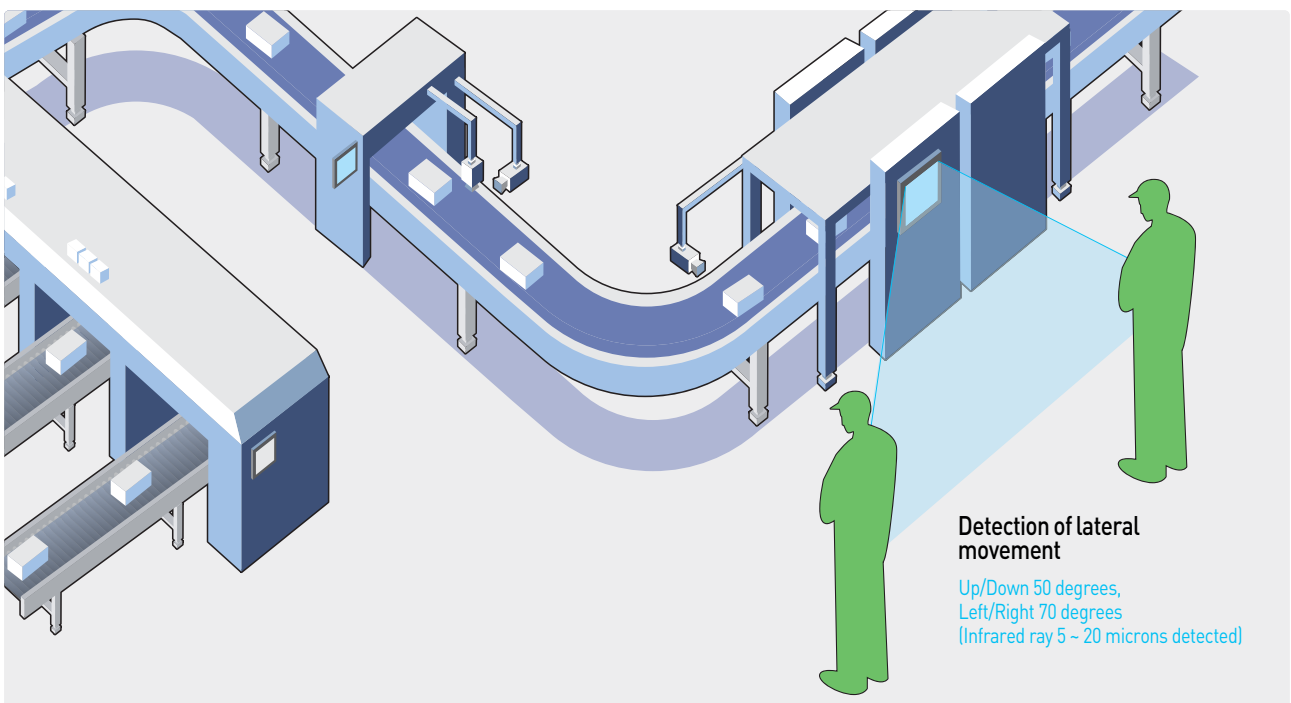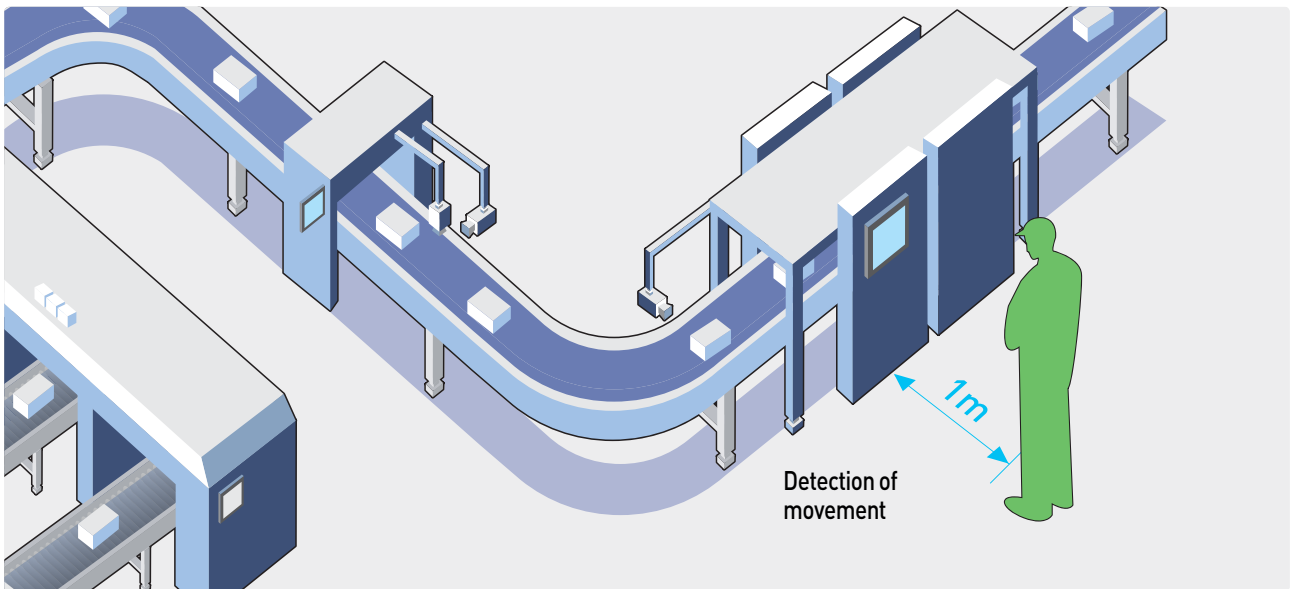- Up to 512 sound files can be saved.

An alarm is turned on

An error occurred

Sound files: max. 512 files

PLC   iXP   Speaker

iXP Function to use SD Cards

iXP supports additional SD memory cards along with previous USB/CF memory cards to diversify the backup means.

Picture Card 4GB

16GB Additional

iXP Presence Sensor (For all iXP models)

- The XP presence sensor detects movement within 1m to turn on a backlight.
- When not used, it turns OFF the screen to maintain a longer lifespan of the backlight.

1m

Detection of movement

Detection of lateral movement

Up/Down 50 degrees,
Left/Right 70 degrees
(Infrared ray 5 ~ 20 microns detected)
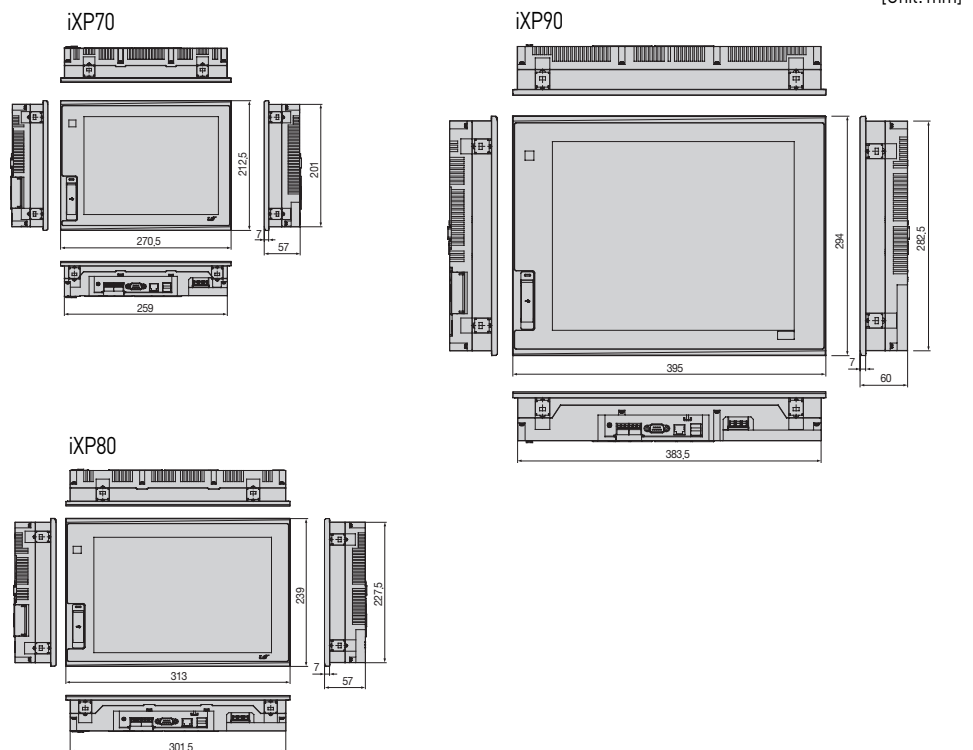
iXP Series

High-resolution and performance
- 1GHz high-performing CPU & quick screen refreshing speed
- 16,777,216. TFT color (24bit) support & high-luminance/resolution LCD
- Mass internal memory (User memory: 128MB, Data backup: 1MB)

User-oriented simple environment
- Various storage interfaces (USB/CF/SD)
- Movement detection (presence sensor) system (within 1m)

CE KC C(UL)US LISTED

Dimensions

[Unit: mm]

iXP70

212,5 / 201 / 270,5 / 7 / 57 / 259

iXP90

294 / 282,5 / 395 / 7 / 60 / 383,5

iXP80

239 / 227,5 / 313 / 7 / 57 / 301,5

General Information

Item	Description				Standard
Ambient Temperature	0℃～+50℃				
Storage Temperature	-20℃～+60℃				
Ambient Humidity	10～85%RH, without dew condensation				
Storage Humidity	10～85%RH, without dew condensation				
Vibration resistance	Occasional vibration			Counts	IEC 61131-2
	Frequency	Acceleration	Amplitude	10 times each direction (X, Y and Z)	
	5 ≤ f〈9㎐	–	3.5mm		
	9 ≤ f ≤ 150㎐	9.8㎨	-		
	Continuous vibration				
	Frequency	Acceleration	Amplitude		
	5 ≤ f〈9㎐	-	1.75mm		
	9 ≤ f ≤ 150㎐	4.9㎨	-		
Shock resistance	Maximum shock acceleration: 147㎨(15g) * Authorization time: 11ms * Pulse waveform: Half-sine wave (3 times each of X, Y and Z) *				IEC 61131-2
Vibration resistance	Square wave impulse noise	DC: ±800V			LSIS Standards
	Electrostatic discharge	±4kV (Contact discharge)			IEC 61131-2, IEC 61000-4-2
	Radiated electromagnetic field noise	80 ~ 100MHz, 10V/m			IEC 61131-2, IEC 61000-4-3
	Fast transient/Burst noise	Power Module: 2 kV, Communication Interface: 1kV			IEC 61131-2, IEC 61000-4-4
Operating ambience	Free from corrosive gas and excessive dust				
Altitude	2,000m (6,562ft) or below				
Pollution degree	2 or under				
Cooling method	Natural air-cooling				

Specifications

Item		iXP70-TTA	iXP80-TTA	iXP90-TTA
Display Type		TFT color LCD		
Display Size		26.4cm (10.4″)	30.7cm (12.1″)	38.1cm (15″)
Resolution		800×600(SVGA)	800×600(SVGA)	1,024×768(XGA)
Color		16bit/24bit Color (default 16bit)		
Viewing Angle		Left/Right: 80 deg. Up: 60 deg. Down: 80 deg.		
Backlight		LED mode		
Backlight Capacity		60,000h		
Brightness		700 cd/㎡	550 cd/㎡	800 cd/㎡
Touch Panel		Analogue resistive		
Sound		Magnetic buzzer (85dB)		
Processor		ARM Cortex-A8 Core (32bit RISC), 1GHz		
Sound Input		-		
Sound Output		1channel, stereo sound		
Memory	Flash	1GB (Screen 128MB)		
	Operation RAM	512MB		
	Backup RAM	1MB		
Backup Type		Date/Time, Logging/Alarm/Recipe data, non-volatile device		
Battery Capacity		Around 3 years (upon operation at 25℃)		
USB Port		3 channels, USB 2.0 host (mouse, keyboard and USB memory driver supported)		
		1channel, USB 2.0 device (Project export/import to/from PC)		
RS-232C		1 channel		
RS-422/485		1 channel, for both 422/485		
Ethernet		1 channel, IEEE802.1a, 10Base-T/100Base-TX		
CF Card		1 slot (Compact Flash)		
SD Card		1 slot (SDHC support)		
Body Monitoring		Distance: Left/Right 1~1.5m, Front 40~50cm		
		Angle: Up/Down- 100 degrees, Left/Right- 140 degrees (Infrared ray 5~20 microns detected)		
Sound Output		LINE-OUT 1channel sound		
Video Input		-		
Video Output		-		
Expansion IF Module		Communication & I/O option module installed (to be provided in the future)		
VM I/F		4-channel video input (to be provided in the future)		
Certification		CE, UL(cUL), KC		
IP		IP65		
Size (mm)		270.5×212.2×57.0	313.0×239.0×57.0	395.0×294.0×60.0
Panel Cut (mm)		259.0×201.0	301.5×227.5	383.5×282.5
Power		AC100~240V, DC12/24V		
Power Consumption (W)		42	42	42
Weight (kg)		2.2	2.4	3.9