



Performance, Design, and Versatility  
**MT8000iE • XE • mTV • iP Series**



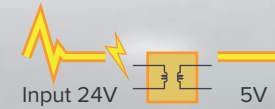
### Ultra-slim form factor

Enables HMI can be installed in any industrial control environment.



### Built-in Wi-Fi

802.11 b/g/n wireless communication standards. (MT8103iE)



### Power isolation protection

Effectively avoids surges and ensures the reliability of HMI. (MT8050iE/ MT8053iE/ MT8071iE/ MT8073iE/ MT8102iE/ MT8103iE)



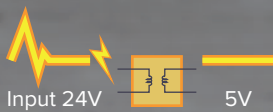
### Dual Ethernet ports

Dual Ethernet ports offers you to set up WAN/LAN or two different LAN/LAN network configurations. (MT8073iE/ MT8053iE)

# iE Series

## iE Series, easily installed in any industrial control environment

- Ultra-slim form factor and new color design.
- Isolated RS-485 and PCB coating protections.



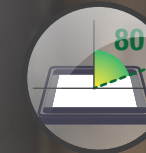
### Power isolation protection

Effectively avoids surges and ensures the reliability of HMI.



### Silver side

Elegant silver side and streamlined styling form factor shows aesthetic sense. (MT8090XE/ MT8092XE)



### Wide viewing angle

Up to 80° wide viewing angle makes HMI monitoring less limited. (MT8121XE/ MT8121XE2/ MT8150XE)

# XE Series

## XE Series, optimal for industrial control application in various harsh environments

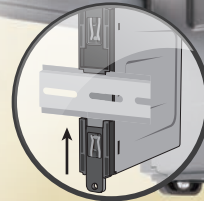
- 9.7" high-resolution (1024 x 768 pixels) HMI.
- 12" /15" large sizes of HMIs with aluminum enclosure.
- Isolated RS-485, PCB coating, and power isolation protections.

# mTV Series

## mTV Series, creates a new HMI vision

- HDMI output allows displaying projects on any size of TV monitors with the HDMI interface.
- PCB coating and power isolation protections.

HDTV supported



10/100/1000 Base-T x 1

COM1 RS-232  
COM2 RS-485 2W/4W  
COM3 RS-485 2W

### Compact design and DIN-rail mountable

Easily installed in any industrial control environment.



### HMI device SMALLER, display range BIGGER

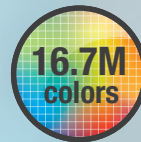
Perfectly fitted in any size of control cabinet and flexibly connected to any large size of HDTV.

\*The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

# iP Series

## New Choice, Unprecedented Experience!

- 10.1" high resolution LCD (1024 x 600 pixels) and 16.7M colors display.
- Supports for more than 300 different brands of PLC and controllers.



### Advanced Visualization

16.7-million colors display.

### High Resolution

MT8102iP features a high resolution 1024 x 600 LCD, and wide viewing angle (T: 60° / B: 60° / L: 70° / R: 70°).



10.1" MT8102iP

4.3" MT8051iP



7" MT8071iP



# The Comparison of Software Features Between Different Models



Software Feature	mTV Series	iE Series	XE Series	iP Series
Project & Firmware Size Limit	64MB	22.5MB	64MB	22.5MB
History Size Limit	64MB	16MB	64/ 120MB	16MB
Project Protection	●	●	●	●
USB Cable Download			MT8121XE MT8121XE2 MT8150XE	
Pictures/Shape Library Embedded in Project	●	●	●	●
PLC TAG Embedded in Project	●	●	●	●
e-Mail	●	●	●	
Enhanced Security Mode	●	●	●	
VNC Server	●	●	●	
Audio Output	● (HDMI)			
CAN Bus			●	
Circular Trend Display	●	●	●	
Combo Button	●	●	●	
Media Player			●	
MQTT(Publisher / Subscriber)	●	●	●	
Operation Log	●	●	●	
OPC UA Client	●	●	●	
Picture Viewer	●	●	●	
Recipe Database	●	●	●	
USB Camera	●		●	
IP Camera			●	
VNC Viewer	●	●	●	
Watchdog	●	●	●	●
EasyAccess 2.0	Optional	Optional MT8053iE/MT8073iE/ MT8103iE Built-in License	Optional MT8092XE Built-in License	

**mTV Series :** mTV-100

**iE Series :** MT8050iE, MT8053iE, MT8070iE, MT8071iE, MT8073iE, MT8102iE, MT8103iE

**XE Series :** MT8090XE, MT8092XE, MT8121XE, MT8121XE2, MT8150XE

**iP Series :** MT8051iP, MT8071iP, MT8102iP

## mTV Series



	Model	mTV-100
<b>Display</b>	Display	Display to HDTV
	Resolution	HDTV Supported
	Brightness (cd/ m <sup>2</sup> )	HDTV Supported
	Contrast Ratio	HDTV Supported
	Backlight Type	HDTV Supported
	Backlight Life Time	HDTV Supported
	Colors	HDTV Supported
<b>Memory</b>	Flash	256 MB
	RAM	256 MB
<b>Processor</b>		32-bit RISC 600MHz
<b>I/O Port</b>	SD Card Slot	SD/SDHC
	USB Host	USB 2.0 x 1
	Ethernet	10/100/1000 Base-T x 1
	COM Port	COM1: RS-232 COM2: RS-485 2W/4W COM3: RS-485 2W
	HDMI Output	Resolution 1280 x 720
	Audio Output	HDMI Audio Output
	<b>RTC</b>	
<b>Power</b>	Input Power	24±20%VDC
	Power Isolation	Built-in
	Power Consumption	230mA@24VDC
	Voltage Resistance	500VAC (1 min.)
	Isolation Resistance	Exceed 50MΩ at 500VDC
	Vibration Endurance	10 to 25Hz (X, Y, Z direction 2G 30 minutes)
<b>Specification</b>	PCB Coating	Yes
	Enclosure	Plastic
	Dimensions WxHxD	27 x 130 x 115 mm
	Weight	Approx. 0.18 kg
	Mount	35 mm DIN rail mounting
<b>Environment</b>	Protection Structure	IP20
	Storage Temperature	-20° ~ 70° C (-4° ~ 158° F)
	Operating Temperature	-20° ~ 55° C (-4° ~ 131° F)
	Relative Humidity	10% ~ 90% (non-condensing)
<b>Certificate</b>	CE	CE marked
	UL	cULus Listed
<b>Software</b>		EasyBuilder Pro EasyAccess 2.0 (Optional)



	Model	MT8050iE	MT8053iE	MT8070iE	MT8071iE	MT8073iE	MT8102iE	MT8103iE	
Display	Display	4.3" TFT		7" TFT		7" TFT		10.1" TFT	
	Resolution	480 x 272		800 x 480		800 x 480		1024 x 600	
	Brightness (cd/ m²)	400		400		400		350	
	Contrast Ratio	500: 1		800: 1		800: 1		500: 1	
	Backlight Type	LED		LED		LED		LED	
	Backlight Life Time	>30,000 hrs.		>30,000 hrs.		>30,000 hrs.		>50,000 hrs.	
	Colors	16.7M		16.7M		16.7M		16.7M	
	LCD Viewing Angle (T/B/L/R)	50/70/70/70		80/60/80/80		80/60/80/80		60/60/70/70	
	Pixel Pitch (mm)	0.198(H) x 0.198(V)		0.1926(H) x 0.179(V)		0.1926(H) x 0.179(V)		0.2175(H) x 0.2088(V)	
Touch Panel	Type	4-wire Resistive Type		4-wire Resistive Type		4-wire Resistive Type		4-wire Resistive Type	
	Accuracy	Active Area Length(X)±2%, Width(Y)±2%		Active Area Length(X)±2%, Width(Y)±2%		Active Area Length(X)±2%, Width(Y)±2%		Active Area Length(X)±2%, Width(Y)±2%	
Memory	Flash	128 MB		128 MB		128 MB		128 MB	
	RAM	128 MB		128 MB		128 MB		128 MB	
Processor		32-bit RISC 600MHz		32-bit RISC 600MHz		32-bit RISC 600MHz		32-bit RISC 600MHz	
I/O Port	USB Host	USB 2.0 x 1		USB 2.0 x 1		USB 2.0 x 1		USB 2.0 x 1	
	Ethernet	10/100 Base-T x 1	LAN 1: 10/100/1000 Base-T x 1 LAN 2: 10/100 Base-T x 1	10/100 Base-T x 1		10/100/1000 Base-T x 2		10/100 Base-T x 1	
	WiFi	N/A		N/A		N/A		IEEE 802.11 b/g/n 802.11b: max 19.76 dBm 802.11g: max 14.07 dBm 802.11n: max 15.41 dBm	
	COM Port	COM1: RS-232/RS-485 2W/4W COM3: RS-485 2W		COM1: RS-232/RS-485 2W/4W COM3: RS-485 2W	COM1: RS-232 COM2: RS-485 2W/4W COM3: RS-485 2W	COM1: RS-232 COM2: RS-485 2W/4W COM3: RS-232/RS-485 2W*2	Con.A: COM1 RS-485 2W, COM2 RS-485 2W/4W, COM3 RS-485 2W/4W*1 Con.B: COM1 RS-232 / COM3 RS-232*2		
	RS-485 Dual Isolation	N/A		Yes	N/A	N/A		N/A	
RTC		Built-in		Built-in		Built-in		Built-in	
Power	Input Power	24±20%VDC	10.5~28VDC		24±20%VDC		24±20%VDC		24±20%VDC
	Power Isolation	Built-in		N/A		Built-in		Built-in	
	Power Consumption	400mA@24VDC	900mA@12VDC ; 450mA@24VDC		350mA@24VDC	450mA@24VDC	600mA@24VDC		650mA@24VDC
	Voltage Resistance	500VAC (1 min.)		500VAC (1 min.)		500VAC (1 min.)		500VAC (1 min.)	
	Isolation Resistance	Exceed 50MΩ at 500VDC		Exceed 50MΩ at 500VDC		Exceed 50MΩ at 500VDC		Exceed 50MΩ at 500VDC	
	Vibration Endurance	10 to 25Hz (X, Y, Z direction 2G 30 minutes)		10 to 25Hz (X, Y, Z direction 2G 30 minutes)		10 to 25Hz (X, Y, Z direction 2G 30 minutes)		10 to 25Hz (X, Y, Z direction 2G 30 minutes)	
Specification	PCB Coating	Yes		Yes		Yes		Yes	
	Enclosure	Plastic		Plastic		Plastic		Plastic	
	Dimensions WxHxD	128 x 102 x 32 mm		200.3 x 146.3 x 34 mm		200.3 x 146.3 x 34 mm		271 x 213 x 36.4 mm	
	Panel Cutout	119 x 93 mm		192 x 138 mm		192 x 138 mm		260 x 202 mm	
	Weight	Approx. 0.25 kg		Approx. 0.6 kg		Approx. 0.6 kg		Approx. 1 kg	
	Mount	Panel mount		Panel mount		Panel mount		Panel mount	
	Protection Structure	UL Type 4X (indoor use only) / NEMA4 / IP65 Compliant Front Panel	NEMA4 / IP65 Compliant Front Panel		UL Type 4X (indoor use only) / NEMA4 / IP65 Compliant Front Panel		UL Type 4X (indoor use only) / NEMA4 / IP65 Compliant Front Panel	UL Type 4X (indoor use only) / NEMA4 / IP65 Compliant Front Panel	
	Storage Temperature	-20° ~ 60° C (-4° ~ 140° F)		-20° ~ 60° C (-4° ~ 140° F)		-20° ~ 60° C (-4° ~ 140° F)		-20° ~ 60° C (-4° ~ 140° F)	
Operating Temperature	0° ~ 50° C (32° ~ 122° F)		0° ~ 50° C (32° ~ 122° F)		0° ~ 50° C (32° ~ 122° F)		0° ~ 50° C (32° ~ 122° F)		
Relative Humidity	10% ~ 90% (non-condensing)		10% ~ 90% (non-condensing)		10% ~ 90% (non-condensing)		10% ~ 90% (non-condensing)		
Certificate	CE	CE marked		CE marked		CE marked		CE marked	
	UL	cULus Listed		cULus Listed		cULus Listed		cULus Listed (UL 61010-2-201)*3	
	ATEX	N/A		N/A	ATEX Zone 2/22 Category 3 G/D	ATEX Zone 2/22 Category 3 G/D		N/A	
Software	EasyBuilder Pro EasyAccess 2.0 (Optional)	EasyBuilder Pro Built-in EasyAccess 2.0		EasyBuilder Pro EasyAccess 2.0 (Optional)	EasyBuilder Pro Built-in EasyAccess 2.0		EasyBuilder Pro EasyAccess 2.0 (Optional)	EasyBuilder Pro Built-in EasyAccess 2.0	

\*1 MT8102iE/ MT8103iE: COM3 RS-485 4W will not be available when COM1 RS-485 2W is used. ( MT8103iE shipped after 2018/10 support COM1: RS485 2W & COM3: RL485 4W. Please use EasyBuilder Pro V6.01.01 or later versions.)

\*2 MT8073iE/ MT8102iE/ MT8103iE: Only Tx & Rx (no RTS/CTS) may be used for COM1 RS-232 when COM3 RS-232 is also used.

\*3 MT8102iE: For customers who require UL, please order MT8102iEU. (MT8102iE is not UL listed.)

# XE Series



Model		MT8090XE	MT8092XE	MT8121XE	MT8121XE2	MT8150XE
Display	Display	9.7" TFT	9.7" TFT	12.1" TFT		15" TFT
	Resolution	1024 x 768	1024 x 768	1024 x 768		1024 x 768
	Brightness (cd/ m <sup>2</sup> )	350	350	500		400
	Contrast Ratio	500: 1	500: 1	700: 1		700: 1
	Backlight Type	LED	LED	LED		LED
	Backlight Life Time	> 30,000 hrs.	> 30,000 hrs.	> 50,000 hrs.		> 50,000 hrs.
	Colors	262K	262K	16.2M	16.7M	16.2M
	LCD Viewing Angle (T/B/L/R)	60/70/70/70	60/70/70/70	80/80/80/80	70/70/80/80	70/70/80/80
	Pixel Pitch (mm)	0.192(H) x 0.192(V)	0.192(H) x 0.192(V)	0.24(H) x 0.24(V)		0.297(H) x 0.297(V)
	Touch Panel	Type	4-wire Resistive Type	4-wire Resistive Type	4-wire Resistive Type	
Accuracy		Active Area Length(X)±2%, Width(Y)±2%	Active Area Length(X)±2%, Width(Y)±2%	Active Area Length(X)±2%, Width(Y)±2%		Active Area Length(X)±2%, Width(Y)±2%
Memory	Flash	512 MB	512 MB	256 MB		256 MB
	RAM	256 MB	256 MB	256 MB		256 MB
Processor		32-bit RISC 1GHz	32-bit RISC 1GHz	32-bit RISC 1GHz		32-bit RISC 1GHz
I/O Port	SD Card Slot	N/A	N/A	SD/SDHC		SD/SDHC
	USB Host	USB 2.0 x 1	USB 2.0 x 1	USB 2.0 x 1		USB 2.0 x 1
	USB Client	N/A	N/A	USB 2.0 x 1		USB 2.0 x 1
	Ethernet	10/100 Base-T x 1	10/100/1000 Base-T x 2	10/100 Base-T x 1		10/100 Base-T x 1
	COM Port	Con.A: COM2 RS-485 2W/4W, COM3 RS-485 2W Con.B: COM1 RS-232	Con.A: COM2 RS-485 2W/4W, COM3 RS-485 2W Con.B: COM1 RS-232, COM3 RS-232*	COM1: RS-232/RS-485 2W/4W, COM3: RS-485 2W		COM1: RS-232/RS-485 2W/4W COM3: RS-485 2W
	RS-485 Dual Isolation	N/A	N/A	Yes		Yes
	CAN Bus	N/A	Yes	N/A		N/A
RTC		Built-in	Built-in	Built-in		Built-in
Power	Input Power	24±20%VDC	24±20%VDC	24±20%VDC		24±20%VDC
	Power Isolation	Built-in	Built-in	Built-in		Built-in
	Power Consumption	500mA@24VDC	650mA@24VDC	800mA@24VDC		1000mA@24VDC
	Voltage Resistance	500VAC (1 min.)	500VAC (1 min.)	500VAC (1 min.)		500VAC (1 min.)
	Isolation Resistance	Exceed 50MΩ at 500VDC	Exceed 50MΩ at 500VDC	Exceed 50MΩ at 500VDC		Exceed 50MΩ at 500VDC
	Vibration Endurance	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)		10 to 25Hz (X, Y, Z direction 2G 30 minutes)
Specification	PCB Coating	Yes	Yes	Yes		Yes
	Enclosure	Plastic	Plastic	Aluminum		Aluminum
	Dimensions WxHxD	260.6 x 203.1 x 36.5 mm	260.6 x 203.1 x 36.5 mm	317 x 244 x 46 mm		366 x 293 x 57 mm
	Panel Cutout	250 x 192 mm	250 x 192 mm	305 x 231 mm		352 x 279 mm
	Weight	Approx. 0.85 kg	Approx. 0.85 kg	Approx. 2.1 kg		Approx. 2.75 kg
	Mount	Panel mount, VESA mount 75 x 75 mm	Panel mount, VESA mount 75 x 75 mm	Panel mount, VESA mount 75 x 75 mm		Panel mount, VESA mount 75 x 75 mm
	Environment	Protection Structure	NEMA4 / IP65 Compliant Front Panel	UL Type 4X (indoor use only) / NEMA4 / IP65 Compliant Front Panel	UL Type 4X (indoor use only) / NEMA4 / IP66 Compliant Front Panel	NEMA4 / IP66 Compliant Front Panel
	Storage Temperature	-20° ~ 60° C (-4° ~ 140° F)	-20° ~ 60° C (-4° ~ 140° F)	-20° ~ 60° C (-4° ~ 140° F)		-20° ~ 60° C (-4° ~ 140° F)
	Operating Temperature	0° ~ 50° C (32° ~ 122° F)	0° ~ 50° C (32° ~ 122° F)	0° ~ 50° C (32° ~ 122° F)		0° ~ 50° C (32° ~ 122° F)
	Relative Humidity	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)		10% ~ 90% (non-condensing)
Certificate	CE	CE marked	CE marked	CE marked		CE marked
	UL	N/A	cULus Listed	cULus Listed	N/A	cULus Listed
	ATEX	ATEX Zone 2/22 Category 3 G/D	ATEX Zone 2/22 Category 3 G/D	N/A		ATEX Zone 2/22 Category 3 G/D
Software		EasyBuilder Pro	EasyBuilder Pro	EasyBuilder Pro		EasyBuilder Pro
		EasyAccess 2.0 (Optional)	Built-in EasyAccess 2.0	EasyAccess 2.0 (Optional)		EasyAccess 2.0 (Optional)

\* MT8092XE: Only Tx & Rx (no RTS/CTS) may be used for COM1 RS-232 when COM3 RS-232 is also used.

# iP Series



Model		MT8051iP	MT8071iP	MT8102iP
Display	Display	4.3" TFT	7" TFT	10.1" TFT
	Resolution	480 x 272	800 x 480	1024 x 600
	Brightness (cd/ m <sup>2</sup> )	400	300	350
	Contrast Ratio	500: 1	500: 1	500: 1
	Backlight Type	LED	LED	LED
	Backlight Life Time	>30,000 hrs.	>30,000 hrs.	>20,000 hrs.
	Colors	16.7M	16.7M	16.7M
	LCD Viewing Angle (T/B/L/R)	50/70/70/70	70/50/70/70	60/60/70/70
	Pixel Pitch (mm)	0.198(H) x 0.198(V)	0.1926(H) x 0.179(V)	0.2175(H) x 0.2088(V)
Touch Panel	Type	4-wire Resistive Type	4-wire Resistive Type	4-wire Resistive Type
	Accuracy	Active Area Length(X)±2%, Width(Y)±2%	Active Area Length(X)±2%, Width(Y)±2%	Active Area Length(X)±2%, Width(Y)±2%
Memory	Flash	128 MB	128 MB	128 MB
	RAM	128 MB	128 MB	128 MB
Processor		32-bit RISC 600MHz	32-bit RISC 600MHz	32-bit RISC 528MHz
I/O Port	USB Host	USB 2.0 x 1	USB 2.0 x 1	USB 2.0 x 1
	Ethernet	10/100 Base-T x 1	10/100 Base-T x 1	10/100 Base-T x 1
	COM Port	COM1: RS-232/RS-485 2W/4W COM3: RS-485 2W	COM1: RS-232, COM2: RS-485 2W/4W	Con.A: COM2 RS-485 2W/4W, COM3 RS-485 2W Con.B: COM1 RS-232 4W, COM3 RS-232 2W*
RTC		Built-in (CR2032 3V lithium battery.)	Built-in	Built-in
Power	Input Power	10.5~28VDC	10.5~28VDC	10.5~28VDC
	Power Isolation	Built-in	Built-in	Built-in
	Power Consumption	800mA@12VDC ; 400mA@24VDC	1A@12VDC ; 500mA@24VDC	1.3A@12VDC ; 650mA@24VDC
	Voltage Resistance	500VAC (1 min.)	500VAC (1 min.)	500VAC (1 min.)
	Isolation Resistance	Exceed 50MΩ at 500VDC	Exceed 50MΩ at 500VDC	Exceed 50MΩ at 500VDC
	Vibration Endurance	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)
Specification	Enclosure	Plastic	Plastic	Plastic
	Dimensions WxHxD	128 x 102 x 32 mm	200.4 x 146.5 x 34 mm	271 x 213 x 36.4 mm
	Panel Cutout	119 x 93 mm	192 x 138 mm	260 x 202 mm
	Weight	Approx. 0.25 kg	Approx. 0.52 kg	Approx. 1 kg
	Mount	Panel mount	Panel mount	Panel mount
Environment	Protection Structure	NEMA4 / IP65 Compliant Front Panel	NEMA4 / IP65 Compliant Front Panel	NEMA4 / IP65 Compliant Front Panel
	Storage Temperature	-20° ~ 60° C (-4° ~ 140° F)	-20° ~ 60° C (-4° ~ 140° F)	-20° ~ 60° C (-4° ~ 140° F)
	Operating Temperature	0° ~ 50° C (32° ~ 122° F)	0° ~ 50° C (32° ~ 122° F)	0° ~ 50° C (32° ~ 122° F)
	Relative Humidity	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)
Certificate	CE	CE marked	CE marked	CE marked
Software		EasyBuilder Pro	EasyBuilder Pro	EasyBuilder Pro

\* MT8102iP: Only Tx & Rx (no RTS/CTS) may be used for COM1 RS-232 when COM3 RS-232 is also used.

The Product's colors printed in this brochure may differ from those of the actual product.

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**RoHS** ISO 9001:2015

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