



**M2I Corporation**

**Industrial PC-HMI  
TOP-PCVIEW  
Hardware Manual**

---

Thank you for using TOP-PCVIEW series of M2I corporation.

Please read this manual carefully to know installing, wiring, operating, servicing and inspecting this equipment.

## Index

|                                                                |    |
|----------------------------------------------------------------|----|
| Index .....                                                    | 2  |
| Chapter 1 Safety Precautions.....                              | 4  |
| Chapter 2 Overview .....                                       | 6  |
| 2.1 Product Introduction.....                                  | 6  |
| 2.2 Package Contents.....                                      | 6  |
| 2.3 Explanation of Model Name .....                            | 6  |
| Chapter 3 Product Specifications.....                          | 7  |
| 3.1 Power Specifications .....                                 | 7  |
| 3.2 System Specifications .....                                | 7  |
| 3.3 LCD Specifications.....                                    | 7  |
| 3.4 Touch Specifications .....                                 | 7  |
| 3.5 Ethernet Specifications.....                               | 8  |
| 3.6 Audio Specifications.....                                  | 8  |
| 3.7 External Display Output Specifications.....                | 8  |
| 3.8 USB Specifications.....                                    | 8  |
| 3.9 Others .....                                               | 8  |
| 3.10 Optional Specifications.....                              | 8  |
| 3.11 Environment Specifications .....                          | 9  |
| 3.12 Structure Specifications.....                             | 9  |
| Chapter 4 Parts Names and Functions.....                       | 9  |
| 4.1 TOP-PCVIEW10**** .....                                     | 9  |
| 4.2 TOP-PCVIEW 12 / 15 / 17 **** .....                         | 10 |
| 4.3 TOP-PCVIEW19**** .....                                     | 10 |
| 4.4 Front Parts Names and Specifications.....                  | 11 |
| 4.5 Side Parts Names and Specifications.....                   | 11 |
| Chapter 5 Installation .....                                   | 13 |
| 5.1 Installation Requirements .....                            | 13 |
| 5.2 Installation Procedure.....                                | 13 |
| 5.3 Front USB (*Locker type, Option) .....                     | 15 |
| Chapter 6 Interface with Other Device.....                     | 16 |
| 6.1 Serial Communication Mode setting and specifications ..... | 16 |
| 6.2 Ethernet setting and specifications.....                   | 18 |
| 6.3 USB Specification.....                                     | 19 |
| Chapter 7 Wiring .....                                         | 20 |
| 7.1 Power wiring .....                                         | 20 |
| 7.2 Ground wiring .....                                        | 20 |
| Chapter 8 System Utilities .....                               | 21 |
| 8.1 System Recovery Solution.....                              | 21 |
| 8.2 Touch panel compensation .....                             | 24 |
| 8.3 EWF (Enhanced Write Filter) Settings .....                 | 24 |
| 8.4 Backlight brightness settings .....                        | 26 |
| 8.5 RAID Settings (*Premium Option) .....                      | 26 |
| Chapter 9 Maintenance .....                                    | 32 |

|                                             |    |
|---------------------------------------------|----|
| 9.1 Cleaning the Display .....              | 32 |
| 9.3 Problems with the Device.....           | 32 |
| Chapter 10 Products and Warning Label ..... | 33 |
| 10.1 TOP-PCVIEW10/12/15/17**** .....        | 33 |
| 10.2 TOP-PCVIEW19**** .....                 | 33 |
| Chapter 11 Products Label.....              | 34 |
| 11.1 AC Power Models .....                  | 34 |
| 11.2 DC Power Models.....                   | 34 |

## Chapter 1 Safety Precautions

### ■ Before using the product

To use the product safely and effectively, please read the contents of this manual thoroughly before use. Please keep to the safety precaution, for it is to prevent accidents and potential danger from occurring. Safety precaution is classified into 'Warning' and 'Caution' and their meanings are as follows. Also the indicated illustrations on the product and in the manual have the following meanings.

|                                                                                                  |                                                                                   |
|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|  <b>Warning</b> | Violating the instruction may result in serious personal injury or death.         |
|  <b>Caution</b> | Violating the instruction may result in slight personal injury or product damage. |
|                 | Be cautious, for danger may be present.                                           |
|                 | Be cautious, for there is a possibility of an electric shock.                     |

### ■ General Precautions **Caution**

-  Do not press the screen with a hard or sharp object (awl, screwdriver, pen) with too strong a force.  
It may cause malfunction of touch due to damage of the front sheet.
-  Do not use or store in an environment with high vibration.
-  Do not allow foreign objects such as water, liquids, or metal powders to enter the product. This may cause breakage or electric shock.
-  Use the radio or mobile phone at least 30cm away from the main unit.
-  Two or fewer bright spots may appear on the LCD screen, and certain areas may appear brighter, but this is not a defect in LCD characteristics.
-  Do not store or operate in direct sunlight. Direct sunlight can change the properties of the LCD.

### ■ Design Precautions **Warning**

- Do not install the location which exceeds allowed temperature. Product can be damaged or shorten the life. Especially Install environment as below should be avoided.
-  As the malfunction & incorrect result of Products could damage the stability of the entire systems and human body, you must install damage preventing interlock circuit such as emergency stop, Protective circuits, positioning upper and lower limit switch and interlock for forward/reverse operation.
-  When computer or other controllers communicate and exchange data with products or change operation mode of products, set up protective sequence program in PC or Controller for protecting system from communication error.
-  The output signal or communication lines should be separated from the power line or high tensioned wire.  
They should be installed 100mm (3.94 inch) or more from each other.

### ■ Environmental conditions **Caution**

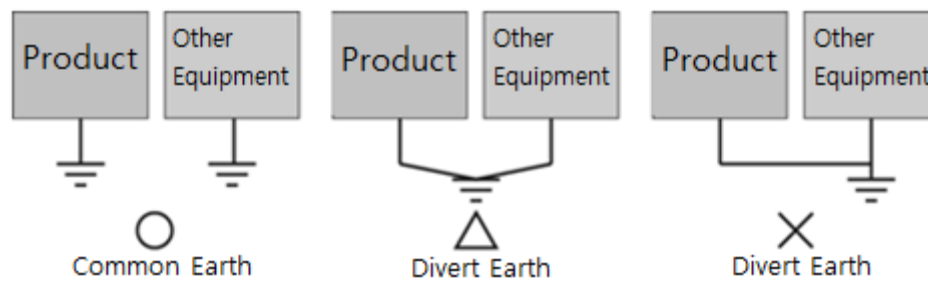
-  Indoor use only.
-  Altitude up to 2000m.
-  The length of Power Cable should be 3m (10 ft) or less.

### ■ Wiring Precautions **Warning**

-  Be sure the wiring is done correctly by checking the product's rated voltage and the terminal layout.  
Incorrect wiring could result in fire, damage or malfunctions.
-  Tighten the terminal screw with the specified torque. If the screws of terminal are loose, it could result in

short circuit, fire, malfunctions. FG Terminal must be used a dedicated ground. Not doing so could result in malfunctions.

- ❗ a. Grounding should be the Class 3 grounding. The cable for grounding should be more than 4mm<sup>2</sup>.
- ❗ b. grounding point be closed to the products and make short the distance to the ground cable if possible. Please see below.



#### ■ Installation Precaution

Do not install the location which exceeds allowed temperature. Product can be damaged or shorten the life. Especially Install environment as below should be avoided.

- ⊘ Do not Install product to the place which the ambient temperature is out of limits, from 0°C to 60°C or on the surface of control board which high pressure equipment is installed.
- ⊘ Do not install to the place where strong shock or vibration continuously have impacted on product.
- ❗ The space between back of product and back of control board must be more than 100mm for maintenance and ventilation.
- ⊘ Do not storage and operate in the place in direct sunlight. By the strong ultraviolet rays can degrade the quality of LCD Displays.

#### ■ Disposal Precaution

When you dispose of product, please treat it as industrial waste. It can create poisonous substances or explosion.

#### ■ Cell Type Battery Specifications

If a "CMOS CHECKSUM ERROR" occurs during booting, the BIOS setup cannot be saved due to the exhaustion of the CMOS battery, so users should replace the button battery that is fixed in the product.

| Item             | Content                                             |
|------------------|-----------------------------------------------------|
| Battery Voltage  | DC 3V                                               |
| Battery Model    | CR2032(lithium Battery)                             |
| Battery lifetime | About 3 years (In case of ambient temperature 25°C) |
| Image            |                                                     |

\* Specifications are subject to change depending on the model.

■ All field-wiring connections to this unit shall be from Limited Voltage. Limited below 24Vdc isolated secondary source with an output fuse, or Class 2.

## Chapter 2 Overview

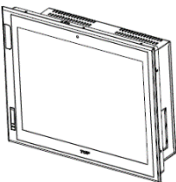
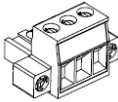
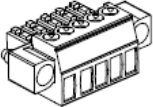
### 2.1 Product Introduction

The industrial PC-HMI touch panel with industrial PC is required in industry, Windows applications, and RS-232C/422/485, Ethernet-based Control of the other devices that are connected to this unit (PLC) is a device used to communicate with the primary objective.

### 2.2 Package Contents

please make sure that all of components are in the package.

Pictures shown may vary as a guide for understanding the real components.

| Item                           | Figure                                                                                         | Quantity     |
|--------------------------------|------------------------------------------------------------------------------------------------|--------------|
| Main Body                      |               | 1            |
| User Manual                    |               | 1            |
| Power Connector                |             | 1            |
| Terminal block<br>5P connector |             | 1            |
| Mounting Clamp                 |             | 6            |
| Accessories<br>(Sold separate) |  USB Memory | User Options |

### 2.3 Explanation of Model Name

#### (1) Basic Model Name

| TOP-PCVIEW | □□           | □□               | □                      | □          |
|------------|--------------|------------------|------------------------|------------|
| Series     | Display Size | Option           | Resolution             | Power Type |
|            | 10 : 10.4"   | 00 : Celeron     | X : XGA (1024 x 768)   | *A: AC     |
|            | 12 : 12.1"   | 10 : 4th Core-i3 | S : SXGA (1280 x 1024) | D: DC      |
|            | 15 : 15.0"   | 20 : 8th Core-i3 | H : HD (1366 x 768)    |            |
|            | 17 : 17.0"   | 30 : 8th Core-i5 |                        |            |
|            | 19 : 18.5"   |                  |                        |            |

## (2) Option

| <input type="checkbox"/> <input type="checkbox"/> | - | <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> BAY |
|---------------------------------------------------|---|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|------------------------------|
| Built-in program                                  |   | RAM Capacity                                      | O/S install location                              | DISK Capacity                                     | HDD RACK                     |
| *WF : Windows OS+TOPVIEW License                  |   | R4 : 4GB                                          | H : mSATA(On board)                               | 64 : 64GB                                         | *1 : 1 Slot                  |
| WN : Windows OS                                   |   | *R8 : 8GB                                         | *HE : 2.5" SSD(External)                          | 128 : 128GB                                       | 2 : 2 Slot                   |
| NF : TOPVIEW License                              |   |                                                   |                                                   | *256 : 256GB                                      |                              |
| NN : No Option                                    |   |                                                   |                                                   |                                                   |                              |

- "\*" is a default option.

## Chapter 3 Product Specifications

### 3.1 Power Specifications

|                       |                |                           |
|-----------------------|----------------|---------------------------|
| Input Voltage         | AC Power       | AC100~240V, 50/60Hz       |
|                       | DC Power       | DC 24V                    |
| Voltage Endurance     | AC Power       | AC85/170V, Less than 10ms |
|                       | DC Power       | DC 24V, Less than 10ms    |
| Power Consumption     | 60W or less    |                           |
| Insulation resistance | 500V DC, 10 MΩ |                           |

### 3.2 System Specifications

| Item                       | Model  | Description                            |
|----------------------------|--------|----------------------------------------|
| CPU                        | 00     | Intel® Celeron® Processor J1900        |
|                            | 10     | Intel® Core-i3™ Processor 4010U        |
|                            | 20     | Intel® Core-i3™ Processor 8145UE       |
|                            | 30     | Intel® Core-i5™ Processor 8365UE       |
| Base/Burst Frequency / TDP | 00     | 2.0@2.42 GHz / 10W                     |
|                            | 10     | 1.7GHz / 15W                           |
|                            | 20     | 2.2@3.9 GHz / 15W                      |
|                            | 30     | 1.6@4.1 GHz / 15W                      |
| System Memory              | 00, 10 | DDR3L SO-DIMM 8GB. (Max. Capacity 8GB) |
|                            | 20, 30 | DDR4 SO-DIMM 8GB. (Max. Capacity 32GB) |
| Main Disk                  |        | 2.5" SSD 256GB (*Default)              |

### 3.3 LCD Specifications

| Item                     | Model            | Description            |
|--------------------------|------------------|------------------------|
| Resolution and Luminance | TOP-PCVIEW10**** | 1024 X 768, 400cd/m2   |
|                          | TOP-PCVIEW12**** | 1024 x 768, 700 cd/m2  |
|                          | TOP-PCVIEW15**** | 1024 x 768, 500 cd/m2  |
|                          | TOP-PCVIEW17**** | 1280 x 1024, 250 cd/m2 |
|                          | TOP-PCVIEW19**** | 1366 x 768, 250 cd/m2  |
| Number of Colors         | 16.7M            |                        |

### 3.4 Touch Specifications

|            |                        |
|------------|------------------------|
| Touch Type | Analog resistive touch |
|------------|------------------------|

### 3.5 Ethernet Specifications

|           |                 |
|-----------|-----------------|
| Speed     | 10/100/1000Mbps |
| Connector | RJ-45 x 2       |

### 3.6 Audio Specifications

|               |                   |
|---------------|-------------------|
| Audio Codec   | Realtek ALC888S   |
| I/O Connector | SPK, Line-in, MIC |

### 3.7 External Display Output Specifications

| Item               | Model  | Description                                            |
|--------------------|--------|--------------------------------------------------------|
| Graphic Controller | 00     | Intel Gen7 Graphic Engine                              |
|                    | 10     | Intel HD Graphics 4400                                 |
|                    | 20, 30 | Intel UHD Gfx 620                                      |
| VGA                | 00     | 최대 2560 x 1600 at 60Hz                                 |
|                    | 10     | 최대 1920 x 1200 at 60 Hz                                |
|                    | 20, 30 | Not support                                            |
| HDMI               | 00     | HDMI 1.4a for HD video playback, 1080P at 60Hz         |
|                    | 10     | HDMI 1.4 for HD video playback, 4096 x 2304 at 24Hz    |
|                    | 20, 30 | HDMI 1.4 up to 4096 x 2160@30/24Hz                     |
| DP                 | 00     | Not support                                            |
|                    | 10     | Not support                                            |
|                    | 20, 30 | DP 1.2 up to 4096 x 2306@60Hz                          |
| Mulit-Display      | 00     | VGA + HDMI, VGA + LVDS, HDMI + LVDS                    |
|                    | 10     | VGA + HDMI, VGA + LVDS, HDMI + LVDS, VGA + HDMI + LVDS |
|                    | 20, 30 | DP + HDMI, DP + LVDS, HDMI + LVDS, DP + HDMI + LVDS    |

### 3.8 USB Specifications

| Item  | Model  | Description              |
|-------|--------|--------------------------|
| Front | Common | USB 2.0 x 1              |
| Side  | 00     | USB 2.0 x 3, USB 3.0 x 1 |
|       | 10     | USB 2.0 x 2, USB 3.0 x 2 |
|       | 20, 30 | USB 3.1 x 4              |

### 3.9 Others

|          |                     |           |
|----------|---------------------|-----------|
| HDD RACK | 1-Bay 2.5" HDD RACK | Default   |
|          | 2-Bay 2.5" HDD RACK | (*Option) |

\* TOP-PCVIEW10 does not support HDD RACK. (\*SSD on board)

\* If you need 2-bay HDD RACK, please contact M2I Corporation.

### 3.10 Optional Specifications

| Item                | Windows O/S Option                                     | Adoptable Model |
|---------------------|--------------------------------------------------------|-----------------|
| Optional O/S        | - Windows Embedded Standard 7 (WES7) 32/64bit KOR/ENG  | 00, 10          |
|                     | - Windows 7 Professional for Embedded System 64bit KOR |                 |
|                     | - Windows 10 IoT 1809 LTSC 64bit 한글/영문                 | Common          |
| TOPVIEW License USB | USB Dongle Inserted                                    | Common          |

\* A basic O/S of Celeron and 4th Core-i3 product is WES7.

\*\* Intel 8th product is only for Windows 10, WES7 or Win 7 Pro is not supported to install.

### 3.11 Environment Specifications

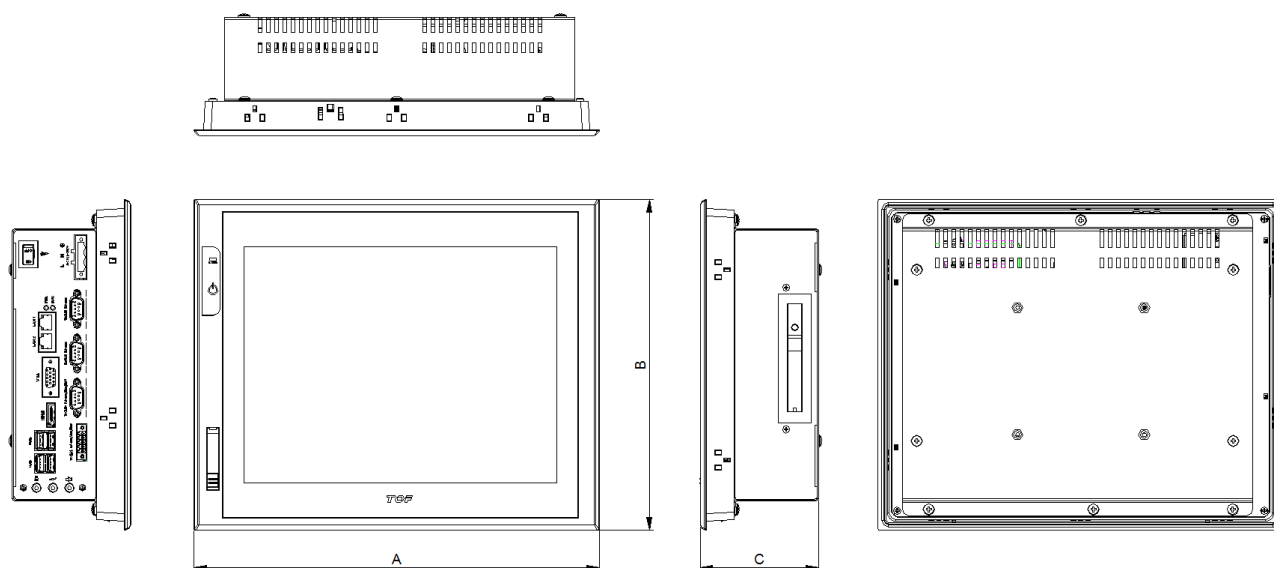
|                           |                                                                          |                         |
|---------------------------|--------------------------------------------------------------------------|-------------------------|
| Operation Temperature(°C) | No humidity                                                              | 0 ~+60°C                |
|                           | humidity 95%                                                             | 0~+40°C(Non-Condensing) |
| Storage Temperature(°C)   | -20°C ~ +60°C                                                            |                         |
| Atmosphere                | No corrosive gas                                                         |                         |
| Vibration Endurance       | Amplitude: $10 \leq F < 25$ Hz(2G) X,Y,Z each direction (for 30 minutes) |                         |
| Noise Immunity            | 1000Vp-p (Pulse width 1 $\mu$ s)                                         |                         |
| Electrostatic Discharge   | Electrostatic Discharge from EN61000-4-2: $\pm 4$ kV                     |                         |
| Shock Endurance           | 10G X,Y,Z each direction(for 3 times)                                    |                         |
| withstand voltage         | 500V (Line-Line)                                                         |                         |
| Ground connection         | Class 3(Under 100 $\Omega$ )                                             |                         |
| Protection Classification | Front Side: IP65, Rear Side: IP2X                                        |                         |

### 3.12 Structure Specifications

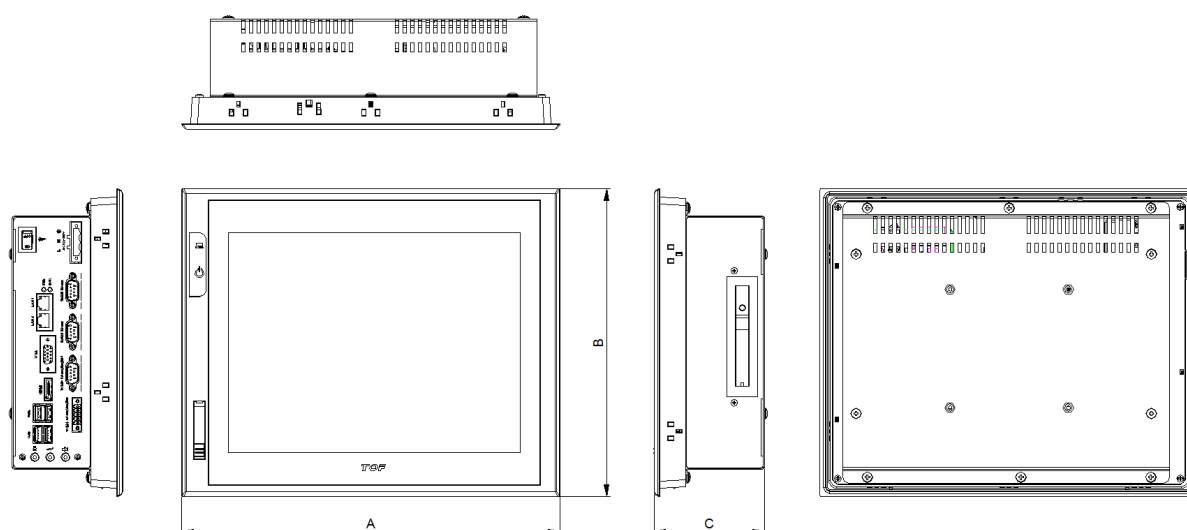
| Item           | Model                   | Model Name   | Dimension          |
|----------------|-------------------------|--------------|--------------------|
| Dimension(mm)  | 00, 10                  | TOP-PCVIEW10 | 276 x 219.5 x 87.9 |
|                |                         | TOP-PCVIEW12 | 320 x 261 x 93.5   |
|                |                         | TOP-PCVIEW15 | 370 x 301 x 87     |
|                |                         | TOP-PCVIEW17 | 414 x 348 x 86.6   |
|                |                         | TOP-PCVIEW19 | 497 x 316 x 86.6   |
|                | 20, 30                  | TOP-PCVIEW19 | 497 x 316 x 94.8   |
| Cooling System | Natural air circulation |              |                    |
| Case Material  | AL(Aluminium)           |              |                    |

## Chapter 4 Parts Names and Functions

### 4.1 TOP-PCVIEW10\*\*\*\*



## 4.2 TOP-PCVIEW 12 / 15 / 17 \*\*\*\*

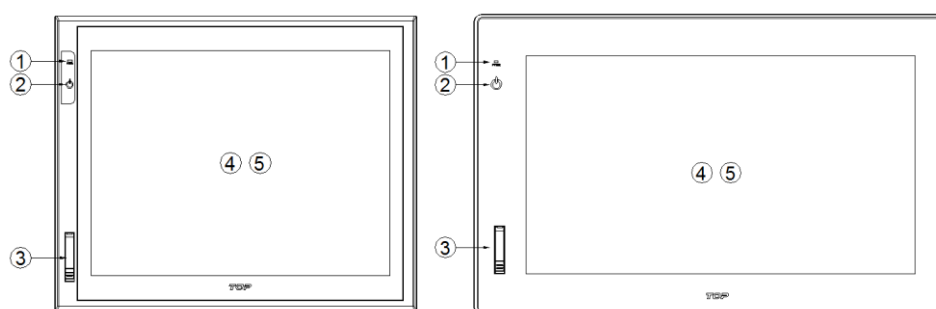


## 4.3 TOP-PCVIEW19\*\*\*\*

|                                                     |  |
|-----------------------------------------------------|--|
| <b>TOP-PCVIEW</b><br><b>1900**</b><br><b>1910**</b> |  |
| <b>TOP-PCVIEW</b><br><b>1920**</b><br><b>1930**</b> |  |

| Model Name                 | A (mm) | B (mm) | C (mm) |
|----------------------------|--------|--------|--------|
| TOP-PCVIEW10****           | 276    | 219.5  | 87.9   |
| TOP-PCVIEW12****           | 320    | 261    | 93.5   |
| TOP-PCVIEW15****           | 370    | 301    | 87     |
| TOP-PCVIEW17****           | 414    | 348    | 86.6   |
| TOP-PCVIEW19 [00], [10] ** | 497    | 316    | 86.6   |
| TOP-PCVIEW19 [20], [30] ** | 497    | 316    | 94.8   |

## 4.4 Front Parts Names and Specifications



| No | Name               | Description                                                                   |
|----|--------------------|-------------------------------------------------------------------------------|
| ①  | Power LED          | Display the System Power State                                                |
| ②  | Front power switch | System power on / off touch switch (* On/off contact for more than 3 seconds) |
| ③  | USB Port           | Front USB HOST Port                                                           |
| ④  | TFT LCD            | TFT 16M Color LCD                                                             |
| ⑤  | Touch Panel        | Analog resistive touch type                                                   |

## 4.5 Side Parts Names and Specifications

### 4.5.1 Right

| TOP-PCVIEW 10**** | TOP-PCVIEW 12 / 15 / 17 / 19**** |
|-------------------|----------------------------------|
|                   |                                  |

### 4.5.2 Left

| TOP-PCVIEW 10 / 12 / 15 / 17 / 19 [00], [10] ** | TOP-PCVIEW 10 / 12 / 15 / 17 / 19 [20], [30] ** |
|-------------------------------------------------|-------------------------------------------------|
|                                                 |                                                 |

## 4.5.3 TOP-PCVIEW 10 / 12 / 15 / 17 / 19 [00], [10] \*\*

| No. | Item            | Type               | Description                                               |
|-----|-----------------|--------------------|-----------------------------------------------------------|
| 1   | Power Switch    | Rocker Switch-2P   | System power ON / OFF switch                              |
| 2   | Power Connector | Terminal Block-3P  | Power input, Pitch 7.62mm                                 |
| 3   | Disk LED        | LED                | Display Disk operation status                             |
| 4   | Power LED       | LED                | Display Disk operation status                             |
| 5   | LAN Port #1, #2 | RJ-45 2Ch.         | Ethernet communication ports, configurable independent IP |
| 6   | VGA             | DSUB-15P           | VGA external monitor connection                           |
| 7   | HDMI            | HDMI Port          | HDMI external monitor connection                          |
| 8   | USB #1          | USB 2Ch.           | USB Ports                                                 |
| 9   | USB #2          | USB 2Ch.           | USB Ports                                                 |
| 10  | SPK             | Audio Jack(3.5Pi)  | Audio output                                              |
| 11  | LINE-IN         | Audio Jack (3.5Pi) | External Audio input                                      |
| 12  | MIC             | Audio Jack (3.5Pi) | External Mic input                                        |
| 13  | COM1            | DSUB-9(Male)       | RS-232C Port                                              |
| 14  | COM2            | DSUB-9(Male)       | RS-232C Port                                              |
| 15  | COM3            | DSUB-9(Male)       | RS-232C/422/485 Port                                      |
| 16  | COM4            | Terminal Block-5P  | RS-232C/422/485 Port, Pitch 3.50mm                        |
| 17  | HDD Rack        | 2.5" bay Slot      | 2.5" External Hard drive Rack                             |

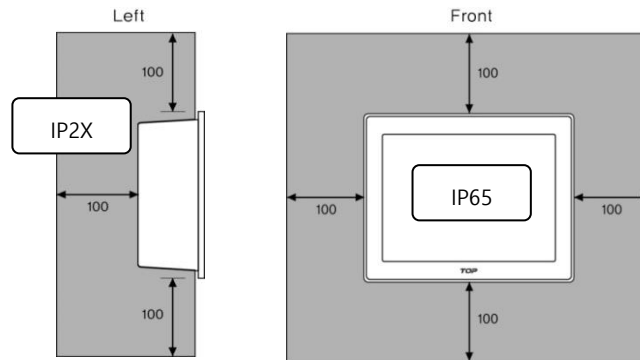
## 4.5.4 TOP-PCVIEW 10 / 12 / 15 / 17 / 19 [20], [30] \*\*

| No. | Item            | Type               | Description                                               |
|-----|-----------------|--------------------|-----------------------------------------------------------|
| 1   | Power Switch    | Rocker Switch-2P   | System power ON / OFF switch                              |
| 2   | Power Connector | Terminal Block-3P  | Power input, Pitch 7.62mm                                 |
| 3   | Disk LED        | LED                | Display Disk operation status                             |
| 4   | Power LED       | LED                | Display Disk operation status                             |
| 5   | LAN Port #1, #2 | RJ-45 2Ch.         | Ethernet communication ports, configurable independent IP |
| 6   | COM1            | DSUB-9(Male)       | RS-232C/422/485 Port                                      |
| 7   | DP              | DP Port            | DP external monitor connection                            |
| 8   | HDMI            | HDMI Port          | HDMI external monitor connection                          |
| 9   | USB             | USB 4Ch.           | USB Ports                                                 |
| 10  | SPK             | Audio Jack(3.5Pi)  | External Audio output                                     |
| 11  | LINE-IN         | Audio Jack (3.5Pi) | External Audio input                                      |
| 12  | MIC             | Audio Jack (3.5Pi) | External Mic input                                        |
| 13  | COM2            | Terminal Block-5P  | RS-232C/422/485 Port, Pitch 3.50mm                        |
| 14  | COM3            | DSUB-9(Male)       | RS-232C Port                                              |
| 15  | COM4            | DSUB-9(Male)       | RS-232C Port                                              |
| 17  | HDD Rack        | 2.5" bay Slot      | 2.5" External Hard drive Rack                             |

## Chapter 5 Installation Warning

### 5.1 Installation Requirements

(1) To safe use of the product, keep the 100mm space between the wall and the product. And install the cooling fan in an enclosed space to ensure performance and ventilation.

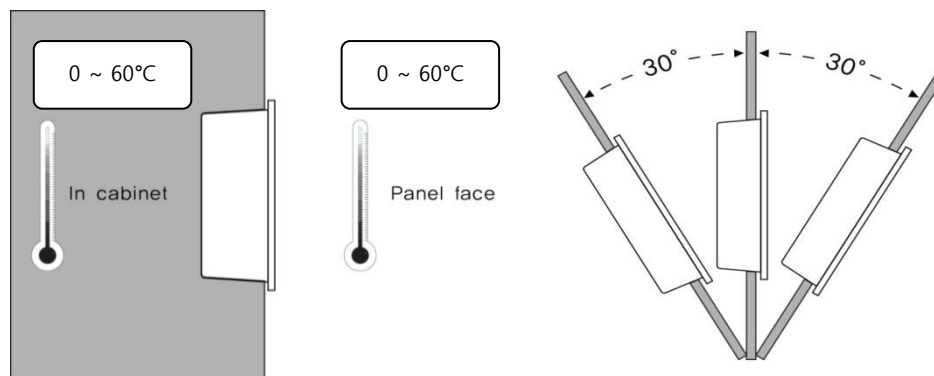


(2) TOP PC should be installed within 0 ~ 60°C(relative-humidity 0%) or 0~40°C(relative-humidity less than 95%, (Non-Condensing)), otherwise the screen may be changed or cause malfunction and damage.

(3) Be sure that heat from surrounding equipment does not cause TOP PC to exceed its standard operating temperature.

(4) When you don't see within 30°, you may not see clearly.

(5) Please remove all of mechanical dangers around the product for preventing mechanical risks.



### 5.2 Installation Procedure Warning

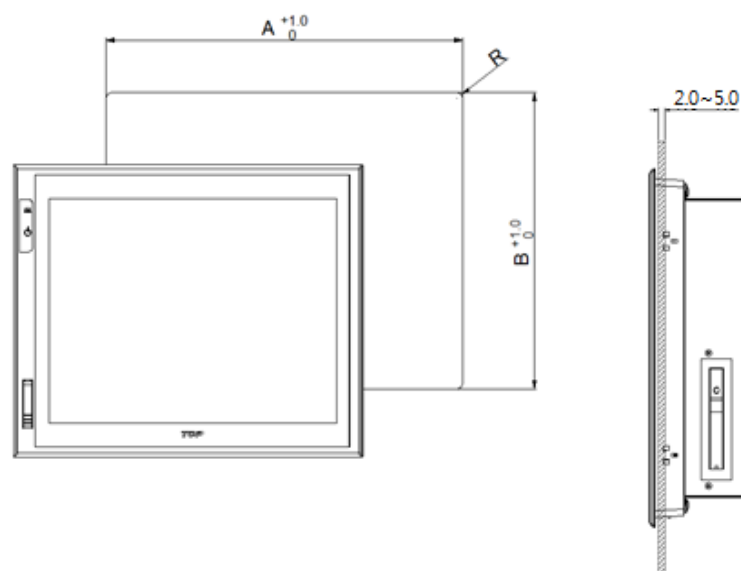
For mounting product to the control panel, it should be recommended following below items.

#### 5.2.1 Panel Cut-out

Make a panel cut which product is mounted and insert the TOP PC to the panel form the front side.

(1) The Size of Panel Cut (Mounting Place)

Making the Panel Cut (Mounting Size) per each TOP PC Series as below Table, Before Installation.

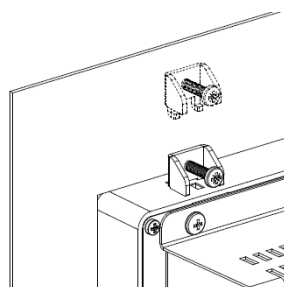


| Model Name       | A(mm)         | B(mm)         | R(mm)            |
|------------------|---------------|---------------|------------------|
| TOP-PCVIEW10**** | 260.0(+1.0/0) | 202.0(+1.0/0) | Max. 5.0(+1.0/0) |
| TOP-PCVIEW12**** | 306.0(+1.0/0) | 247.0(+1.0/0) |                  |
| TOP-PCVIEW15**** | 355.0(+1.0/0) | 286.0(+1.0/0) |                  |
| TOP-PCVIEW17**** | 400.0(+1.0/0) | 334.0(+1.0/0) | Max. 2.0(+1.0/0) |
| TOP-PCVIEW19**** | 479.0(+1.0/0) | 298.0(+1.0/0) |                  |

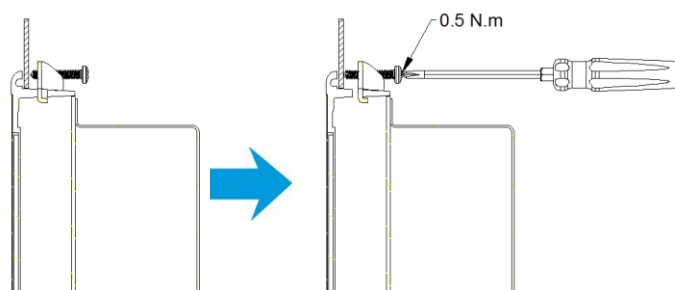
## (2) Fixation

Installation methods should be following by using the supplied installation Clamps.

a. Insert the clamp into the slot of Product.



b. Secure the Product in the mounting cut-out from behind with the clamp.



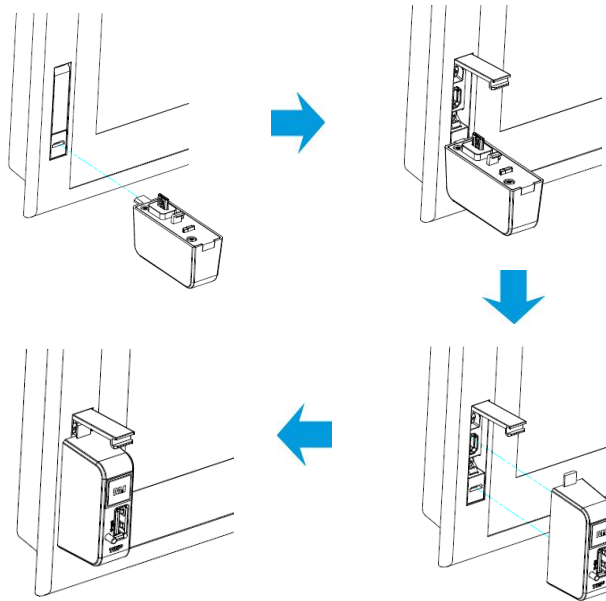
c. If the screw is over tightened, it may cause the front deformation, thus resulting the touch sensor can't work properly. Tighten the screw to 0.5Nm.

Caution: Front protection (IP) will not able to work when clamp is not tightened in 0.5N.m power.

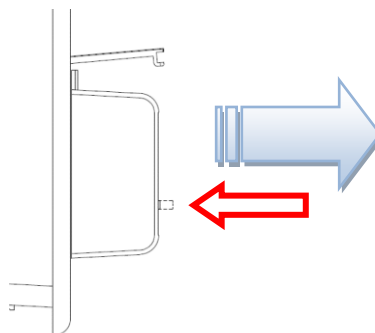
## 5.3 Front USB (\*Locker type, Option)

### 5.3.1 Open / Close

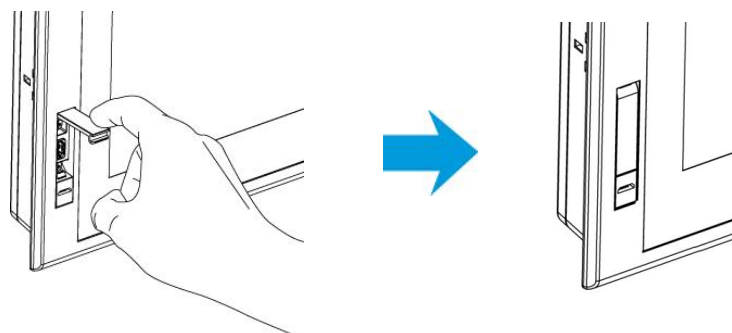
(1) Open the cover: The cover opens when you insert the USB connector into the front USB Home.



(2) Gender Remove: Hold down the button below and pull back the USB gender.



(3) Close the cover: Close and slide the cover of the connector.



\* Locker type USB cover is required for front USB gender use. Please contact M2I Corporation.

## Chapter 6 Interface with Other Device

Please refer to below explanations to communicate with other devices.

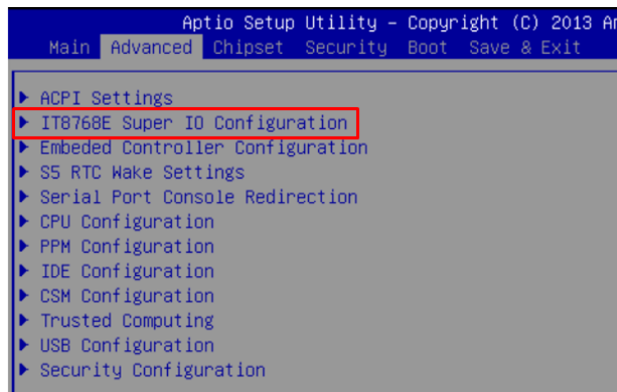
### 6.1 Serial Communication Mode setting and specifications

#### 6.1.1 Set serial communication mode

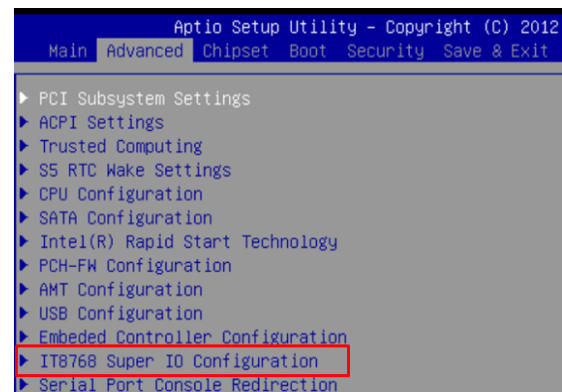
Boot <DEL> or <ESC> Press the key to set the communication mode can be changed in CMOS.

(1) TOP-PCVIEW \*\* [00], [10] \*\*

Advanced -> IT8768(E) Super IO Configuration -> Select Serial Port -> Select one in [Serial Port] Mode from [RS-232 Mode], [RS-422 Mode], and [RS-485 Mode].



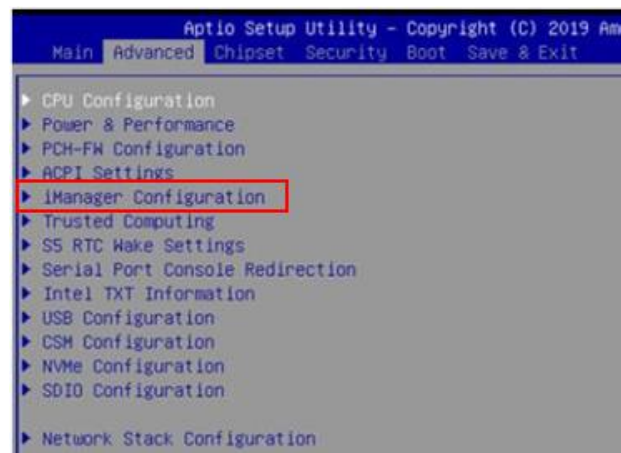
TOP-PCVIEW \*\* [00]\*\*



TOP-PCVIEW \*\* [10]\*\*

(2) TOP-PCVIEW \*\* [20], [30] \*\*

Advanced -> iManager Configuration -> Select Serial Port -> Select one in [Serial Port] Mode from [RS-232 Mode], [RS-422 Mode], and [RS-485 Mode].



#### 6.1.2 Available Communication Mode by Port

Serial mode can be chosen in COM1 ~ COM4. You can set below communication mode.

(1) TOP-PCVIEW \*\* [00], [10] \*\*

| Serial Port         | COM1          | COM2          | COM3    | COM4    |
|---------------------|---------------|---------------|---------|---------|
| Manufacturer status | RS-232C       | RS-232C       | RS-485  | RS-485  |
| Available settings  | Not available | Not available | RS-232C | RS-232C |
|                     |               |               | RS-422  | RS-422  |

## (2) TOP-PCVIEW \*\* [20], [30] \*\*

| Serial Port         | COM1    | COM2    | COM3          | COM4          |
|---------------------|---------|---------|---------------|---------------|
| Manufacturer status | RS-232C | RS-232C | RS-232C       | RS-232C       |
| Available settings  | RS-422  | RS-422  | Not available | Not available |
|                     | RS-485  | RS-485  |               |               |

## 6.1.3 Serial Communication Specification

## (1) RS-232C

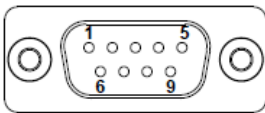
| Item                   |            | Description                                |
|------------------------|------------|--------------------------------------------|
| Protocol               |            | Full Duplex                                |
| Synch.                 |            | Asynchronous                               |
| Communication Distance |            | About 15m                                  |
| Type of connection     |            | 1:1                                        |
| Control Code           |            | ASCII Code or HEXA Code                    |
| Baud Rate              |            | Max. 115,200 bps                           |
| Data Type              | Data Bit   | 7, 8 bit                                   |
|                        | Parity Bit | NONE, ODD, EVEN Parity                     |
|                        | Stop Bit   | 1, 2 bit                                   |
| Connector Type         |            | DSUB 9pin(Male), Terminal Block 5P(3.50mm) |

## (2) RS-422/485

| Item                   |            | Description                                |
|------------------------|------------|--------------------------------------------|
| Protocol               |            | Full Duplex, Half Duplex                   |
| Synch.                 |            | Asynchronous                               |
| Communication Distance |            | About 500m                                 |
| Type of connection     |            | 1:N (N ≤ 31)                               |
| Control Code           |            | ASCII Code or HEXA Code                    |
| Baud Rate              |            | Max. 115,200 bps                           |
| Data Type              | Data Bit   | 7, 8 bit                                   |
|                        | Parity Bit | NONE, ODD, EVEN Parity                     |
|                        | Stop Bit   | 1, 2 bit                                   |
| Connector Type         |            | DSUB 9pin(Male), Terminal Block 5P(3.50mm) |

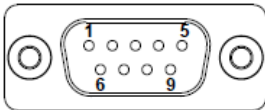
## (3) Pin Number and Signals for DSUB-9 (RS-232C Only)

Relevant Ports: [00], [10] - COM1, COM2 / [20], [30] - COM3, COM4

| Type                                                                                             | Pin No. | Signal | Direction | Meaning               |
|--------------------------------------------------------------------------------------------------|---------|--------|-----------|-----------------------|
| 9Pin male<br> | 1       | DCD    | Input     | Data Carrier Detect   |
|                                                                                                  | 2       | RXD    | Input     | RS-232C Receive Data  |
|                                                                                                  | 3       | TXD    | Output    | RS-232C Transmit Data |
|                                                                                                  | 4       | DTR    | Output    | Data Terminal Ready   |
|                                                                                                  | 5       | SG     | GND       | Signal Ground         |
|                                                                                                  | 6       | DSR    | Output    | Data Set Ready        |
|                                                                                                  | 7       | RTS    | Output    | Request to Send       |
|                                                                                                  | 8       | CTS    | Input     | Clear to Send         |
|                                                                                                  | 9       | RI     | Input     | Ringing Indicator     |

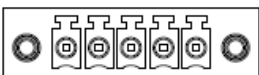
## (4) Pin Number and Signals for DSUB-9 (RS-232C/422/485)

Relevant Ports: [00], [10] - COM3 / [20], [30] - COM1

| Type                                                                                               | Pin No. | Signal                  | Direction    | Meaning                                |
|----------------------------------------------------------------------------------------------------|---------|-------------------------|--------------|----------------------------------------|
|  <p>9Pin male</p> | 1       | TXD(-)<br>TRX(-)        | Input/Output | 422: TXD(-)<br>485: TRX(-)             |
|                                                                                                    | 2       | TXD(+)<br>TRX(+)<br>RXD | Input/Output | 422: TXD(+)<br>485: TRX(+)<br>232C: RX |
|                                                                                                    | 3       | RXD(+)<br>TXD           | Input/Output | 422: RXD(+)<br>232C: TX                |
|                                                                                                    | 4       | RXD(-)                  | Input        | 422: RXD(-)                            |
|                                                                                                    | 5       | SG                      | GND          | Signal Ground                          |
|                                                                                                    | 6       | DSR                     | Output       | Data Set Ready                         |
|                                                                                                    | 7       | RTS                     | Output       | Request to Send                        |
|                                                                                                    | 8       | CTS                     | Input        | Clear to Send                          |
|                                                                                                    | 9       | RI                      | Input        | Ringing Indicator                      |

## (5) Pin Number and Signals for Terminal Block-5P (RS-232C/422/485)

Relevant Ports: [00], [10] - COM4 / [20], [30] - COM2

| Type                                                                                | Pin No. | Signal                  | Direction    | Meaning                                 |
|-------------------------------------------------------------------------------------|---------|-------------------------|--------------|-----------------------------------------|
|  | 1       | TXD(+)<br>TRX(+)<br>RXD | Input/Output | 422: TXD(+)<br>485: TRX(+),<br>232C: RX |
|                                                                                     | 2       | TXD(-)<br>TRX(-)        | Output       | 422: TXD(-)<br>485: TRX(-)              |
|                                                                                     | 3       | SG                      | GND          | Signal Ground                           |
|                                                                                     | 4       | RXD(+)<br>TXD           | Input/Output | 422: RXD(+)<br>232C: TX                 |
|                                                                                     | 5       | RXD(-)                  | Input        | 422: RXD(-)                             |

\* For Serial Communication with RS-232C, Twisted Pair Cable must be used to communication cable corresponding to each Signal Pins such as RXD & TXD and SG. The RD & SD should be wired by cross connection. SG must be wired direct connection.

\* For Serial Interface with RS-422/485, Twisted Pair Cable must be used to communication cable corresponding to each Signal Pins such as [TXD+, TXD-], [RXD+, RXD-] and [TRX+, TRX-].

\* The shield cable of communication should not be used to signal ground. It may cause failure of communication.

\* Serial port is not isolated.

\* SG (Signal Ground) and FG (Frame Ground) are connected internally.

\* If you are connecting external devices SG careful not to have a short circuit.

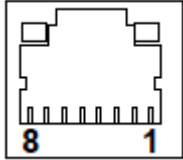
## 6.2 Ethernet setting and specifications

## (1) Ethernet Specification

| Item           |                             | Description                                                        |
|----------------|-----------------------------|--------------------------------------------------------------------|
| IEEE Compliant | TOP-PCVIEW ** [00], [10] ** | IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, 10BaseT/100BaseT/1000BaseT |
|                | TOP-PCVIEW ** [20], [30] ** | IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.ab,                 |

|                      |                               |
|----------------------|-------------------------------|
|                      | 10BaseT/100BaseT/1000BaseT    |
| Speed                | 10M / 100M / 1000M bps        |
| Communication Method | Base Band                     |
| Communication Cable  | UTP (Unshielded Twisted Pair) |
| Modular Jack         | RJ-45 x 2                     |

## (2) RJ45 Pin Map

| Type                                                                              | Pin No. | color        | Signal                    |
|-----------------------------------------------------------------------------------|---------|--------------|---------------------------|
|  | 1       | Orange/White | TX+(10/100M), BI_DA+(GHz) |
|                                                                                   | 2       | Orange       | TX-(10/100M), BI_DA-(GHz) |
|                                                                                   | 3       | Green/White  | RX+(10/100M), BI_DB+(GHz) |
|                                                                                   | 4       | Blue         | BI_DC+(GHz)               |
|                                                                                   | 5       | Blue/White   | BI_DC-(GHz)               |
|                                                                                   | 6       | Green        | RX-(10/100M), BI_DB-(GHz) |
|                                                                                   | 7       | Brown/White  | BI_DD+(GHz)               |
|                                                                                   | 8       | Brown        | BI_DD-(GHz)               |

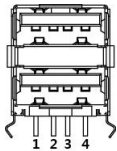
\* IP configuration when connecting separated by internal / external network, you must enter each separate IP.

\* Use a 1Gbps UTP cable is required standard Cat 5e or CAT 6 confirmation.

| * UTP Cable Contents | Cat 5e                  | Cat 6                            |
|----------------------|-------------------------|----------------------------------|
| Speed                | MAX. 1Gbps              | 1Gbps or more                    |
| Band width           | 100Mhz                  | 250Mhz                           |
| Data Loss            | 100m Increase data loss | No data loss over 100m intervals |

## 6.3 USB Specification

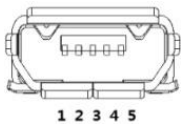
### 6.3.1 USB Port

| Type                                                                                | Item                | Description                             |
|-------------------------------------------------------------------------------------|---------------------|-----------------------------------------|
|  | USB Interface       | USB 3.1/3.0/2.0/1.1                     |
|                                                                                     | Speed               | Max.480Mb/s, Max.5Gb/s                  |
|                                                                                     | Current Consumption | USB 2.0: 5.0V@500mA, USB3.0: 5.0V@900mA |
|                                                                                     | Connector type      | Type A(2ch)                             |

\* To use USB 3.0, your device must also support USB 3.0 specification.

\* Ports with blue color inserts support USB 3.0.

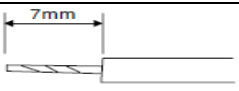
### 6.3.2 Front USB

| Type                                                                                | Item                | Description                                                                   |
|-------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------|
|  | USB Interface       | USB2.0/1.1                                                                    |
|                                                                                     | Speed               | Max.480Mb/s                                                                   |
|                                                                                     | Current Consumption | 5.0V@500mA                                                                    |
|                                                                                     | Cable Length        | 1.5m (Cable from M2I is recommended. Meet the length limit for other cables.) |
|                                                                                     | Connector type      | Micro USB B, Female                                                           |

## Chapter 7 Wiring Warning

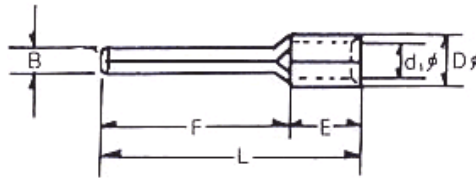
### 7.1 Power wiring

(1) The Power cable should have the following specification.

|                                                      |                                                                                              |
|------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Power Cable Specification                            | 0.75~2.5mm <sup>2</sup> (18~12AWG)                                                           |
| FG Cable Specification                               | 2mm <sup>2</sup> (14AWG) or more                                                             |
| Conductor type                                       | Simple or Stranded wire(Use Copper Conductors only)                                          |
| Bolt tightening force                                | ≥ 0.5N.m  |
| Conductor length                                     |           |
| Temperature rating of the field installed conductors | 65°C Only                                                                                    |

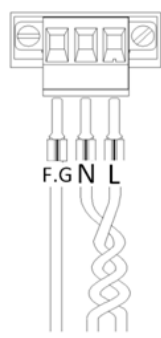
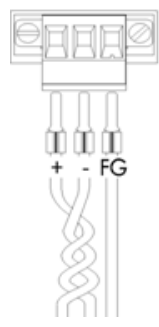
(2) The Power terminal should have the following specification.

Use Pin type terminal for preventing from wearing out and improving the electrical transmission.



| B       | L     | F     | E | D       | d     |
|---------|-------|-------|---|---------|-------|
| 1.8~2.0 | 22~18 | 12~14 | 5 | 3.3~3.8 | 2~2.5 |

(3) Wiring of power is as follows.  Warning

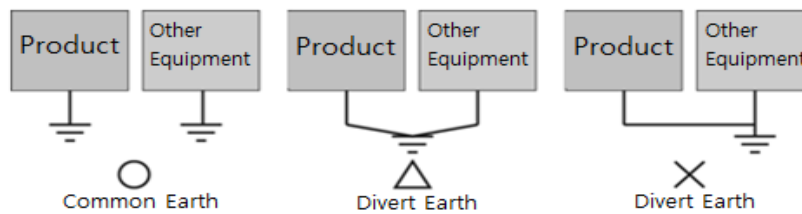
| AC Power                                                                            | DC Power                                                                              |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |

### 7.2 Ground wiring Warning

(1) The Product has enough anti-noise measure, so except that there are many noises specially, the ground is not needed. When doing ground, please refer to the followings.

(2) The ground should be the exclusive ground. The ground should be type 3 ground (ground resistor is less than 100Ω)

(3) When not doing the exclusive ground, do common ground like figure B).



(4) Use the cable more than 2mm<sup>2</sup>. Put the point of the ground near TOP PC and shorten ground line.

## Chapter 8 System Utilities Warning

### 8.1 System Recovery Solution

User error or virus, when a system file is corrupted, you can recover to the factory default state.

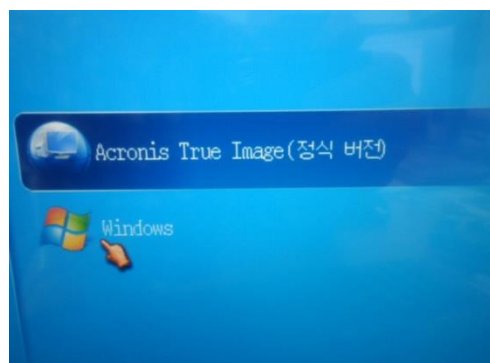
Although the recovery program is built into the body, it is recommended to produce a recovery USB memory stick.

#### 8.1.1 TOP-PCVIEW \*\* [00], [10] \*\*

After the Post process (self-test) is finished, press F11 to run the recovery program. Available to the recovery of the factory default state following a recovery procedure. Factory reset recovery time is within 30 minutes. Please be careful when restoring all previously saved data will be deleted.

(1) Select the Acronis True Image.

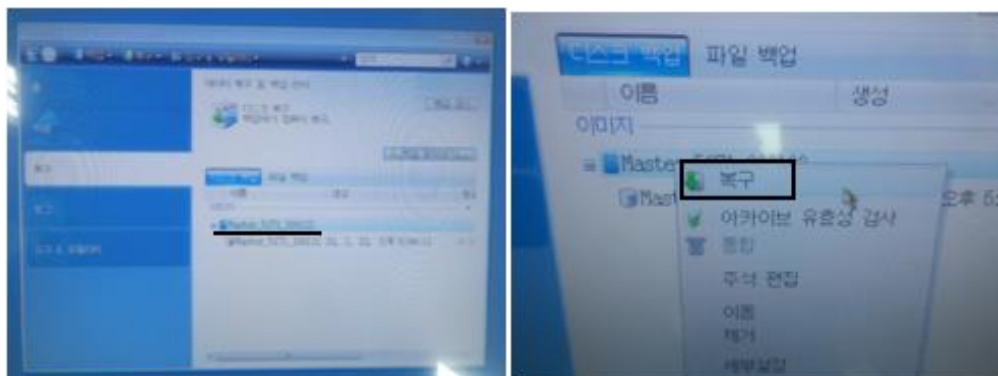
At this time, do value using a mouse or touch screen, you should always select only the keyboard.



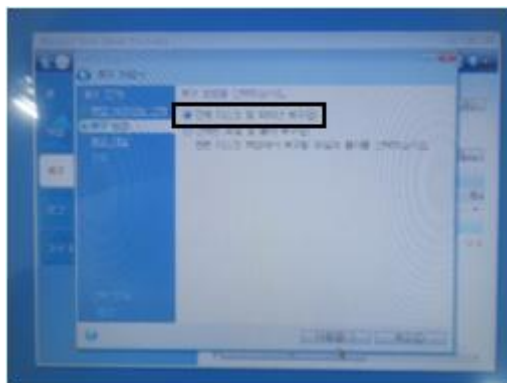
(2) When the following screen appears, execute in the order specified.

1) Select backup archive: Press the right button on the image file list to select "Recover".

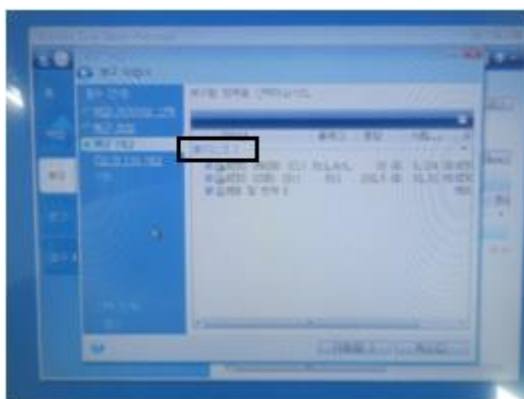
If there is no recovery file on the right, select [Browse Backup]-> [Acronis Secure Zone]-> Restore File on the right side of the screen.



2) [Recovery method]: Select "Recover whole disks and partitions."



3) [Recovery target]: Check all drive selections of "Disk 1".



4) [Destination of Disk 1]: After checking the partition information of the selected disk, click "OK" in the [Confirm] warning when "Next" is selected to proceed with recovery.

\* If recovery fails and you cannot proceed to the next step, please uncheck "MBR and track 0" in [Recover to].

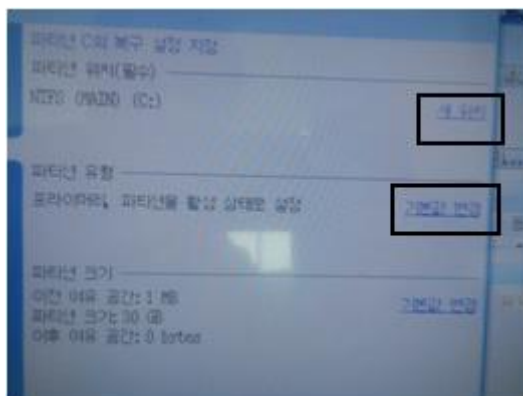
\*\* If it stops for a long time during recovery, turn off the power and try the recovery procedure again.

5) If "MBR and Track 0" is deselected, the [Partition C Settings] and [Partition D Settings] menus will be created additionally.

[Partition C Settings]

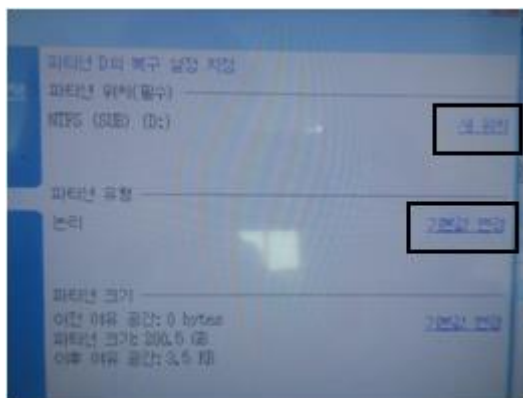
\* Partition Location (Required): Specify as (C:).

\* Partition type: set "primary, partition active".



[Partition D Settings]

- \* Partition Location (Required): Specify as (D:)
- \* Partition Type: "Logic" setting

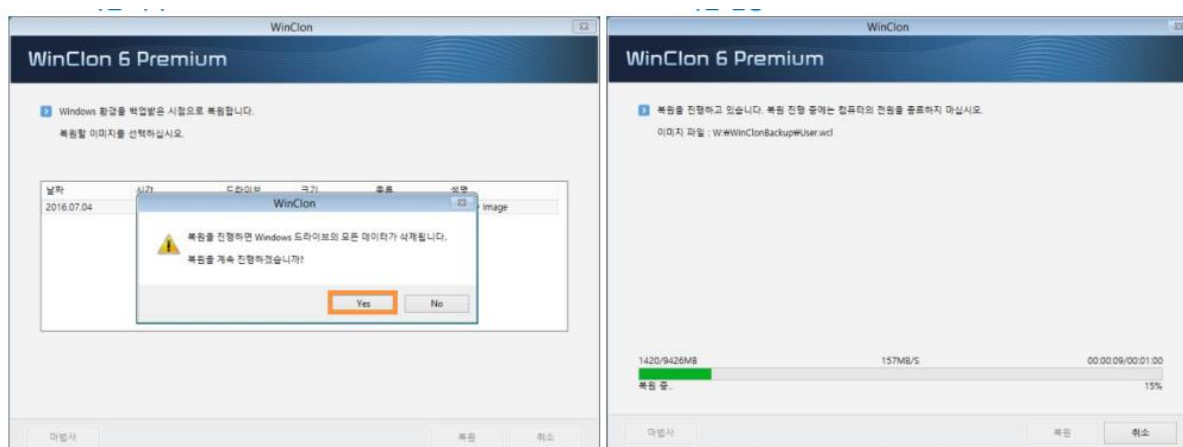


### 8.1.2 TOP-PCVIEW \*\* [20], [30] \*\*

After the Post process (self-test) is finished, press F11 to run the recovery program. Available to the recovery of the factory default state following a recovery procedure. Factory reset recovery time is within 10 minutes. Please be careful when restoring all previously saved data will be deleted.



If you touch 'Factory Reset' button, it will start the recovery.



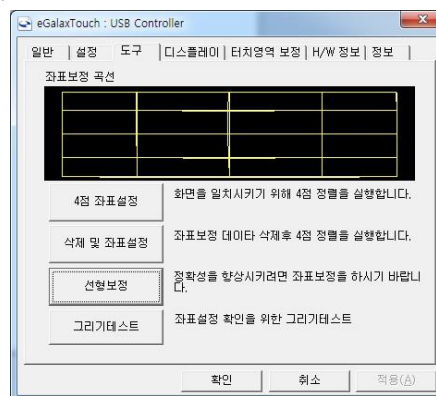
## 8.2 Touch panel compensation

Calibration settings are used when the user wants a touch panel coordinates and the coordinates do not match. Calibration settings are as follows.

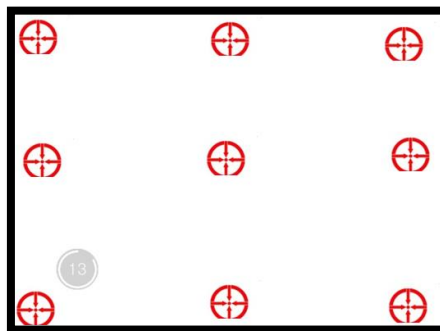
(1) Run eGalaxTouch - Configure Utility Program.



(2) Run "tool" - "Linearization Calibration".



(3) Click and hold the pointer is displayed correctly.



Do not correction from a sharp object. improve accuracy when you hold down the exact location, such as a stylus pen.

## 8.3 EWF (Enhanced Write Filter) Settings

\* Only support in WES7 O/S.

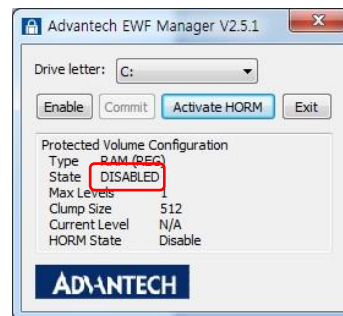
\*\* Model: TOP-PCVIEW \*\* [00], [10] \*\*

EFW is to prevent a direct write to the disk, a technology that allows you to give the OS partition and the protection of unit. When using the EWF, all write operations are being written in physical memory, when the reboot is initialized, and it will save to disk when needed. The physical memory is called an overlay the information related to the write operation on the overlay will be accumulated. The Product can be set easily by built-in applications.

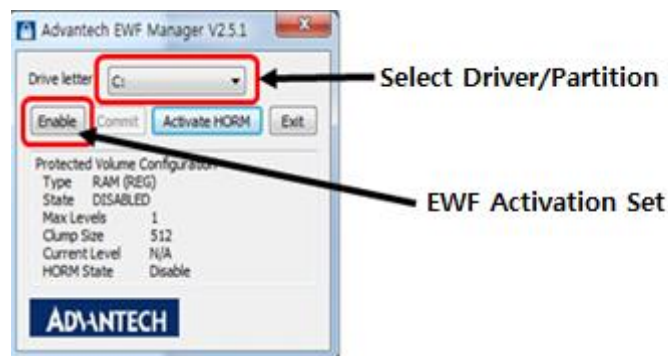
- \* "Enable": EWF is active by using the write protection on the disc.
- \* "commit": information is stored in a temporary space on the active state of EWF (write operation) to the storage on the disk.
- \* "Disable": deactivate the EWF creates the disk as normal.
- \* "Activate HORM": all disks are available from the state and the EWF is enabled, the system shut down like hibernation.
- \* Decorate it to the boot prompt

(1) When you run the EWManager of the Start menu as shown below will run the program.

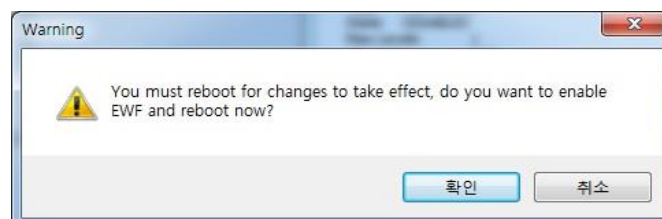
(2) The default status of EWManager is set to DISABLED.



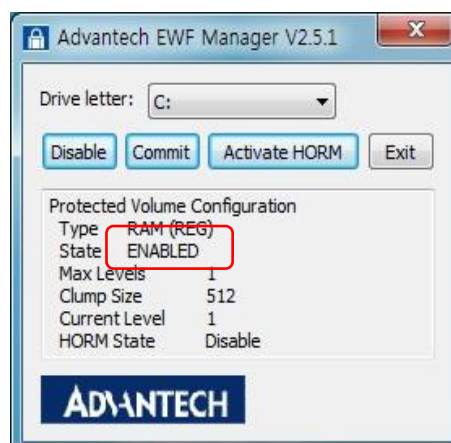
(3) Set to ENABLED.



(4) It turns to ENABLED after re-boot.



(5) Check the 'ENABLE' is adopted.



(6) Press the button DISABLED during commit, press the Disable button. If you do not press all of the contents in the temporary space had to switch to DISABLED state as initialized commit.

\* The EWF function may not work normally when restoring to the factory default state. If you need the function, please contact M2I CORPORATION.

## 8.4 Backlight brightness settings

\* Supporting Models: TOP-PCVIEW \*\* [00], [10] \*\*

You can adjust the display brightness to suit your needs. Adjustable in five steps, and the default settings are to Highest. To use other settings must be selected in CMOS.

- (1) boot -> <DEL> or <ESC> Press the key to enter the CMOS screen.
- (2) "Select the Advanced -> Embedded Controller Configuration -> Backlight Level.
- (3) Adjust the desired brightness at the bottom of the screen.



- (4) Select "Save & Exit" -> "Save changes and Exit".

\* TOP-PCVIEW \*\* [20], [30] \*\*: You can set in [Windows -> "Display Setting"].

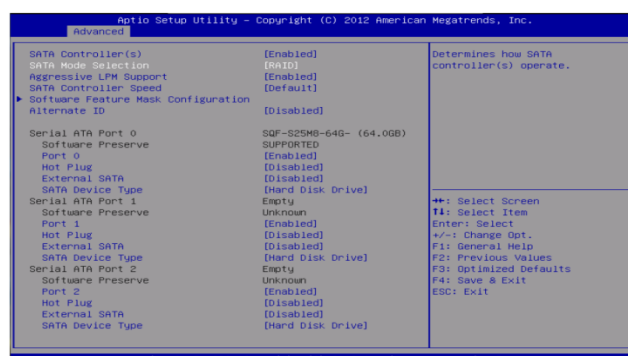
## 8.5 RAID Settings (\*Premium Option)

For Premium models, RAID can be configured using the optional 2-bay hard drive.

If you are creating an array of RAID 1 (Redundant Array of Inexpensive Disks), you can use two new drives, or you can use the old and new drives. Instead of striping data, RAID 1 replicates data stored on one drive to another array drive. It provides some level of data redundancy and allows you to reconfigure arrays without losing data in the event of a drive failure. The new disk must have the same or larger capacity than the existing disk. If the two capacities are different, the small capacity disc is the reference storage capacity. For example, if one disk storage capacity is 256 GB and the other disk is 64 GB, the maximum storage capacity of RAID 1 is set to 64GB.

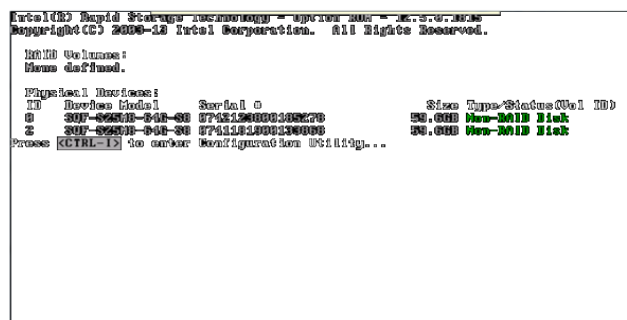
- (1) BIOS Setting

To use RAID, you need to change the SATA mode to RAID in BIOS as below.

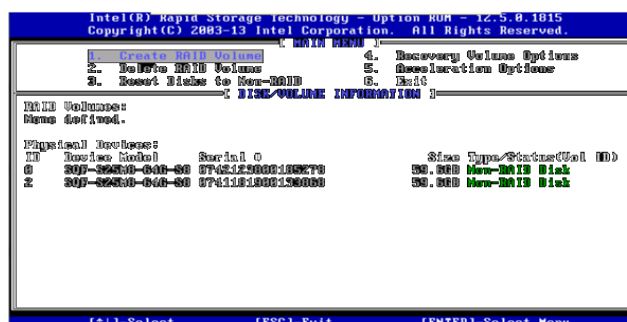


## (2) RAID Setting

If you see the message below when booting up, press "CTRL + I" key to enter RAID configuration screen.



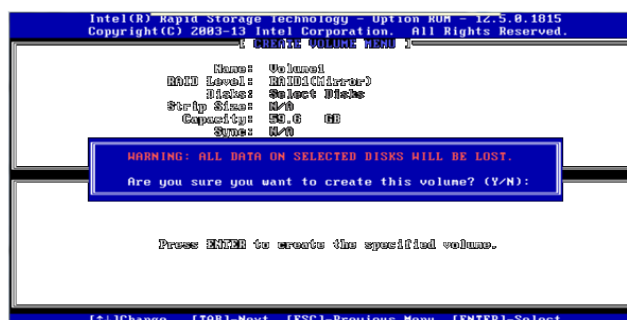
If RAID is already existing, only 1 and 6 can be selected as below, and Disk information is displayed as Non-RAID.



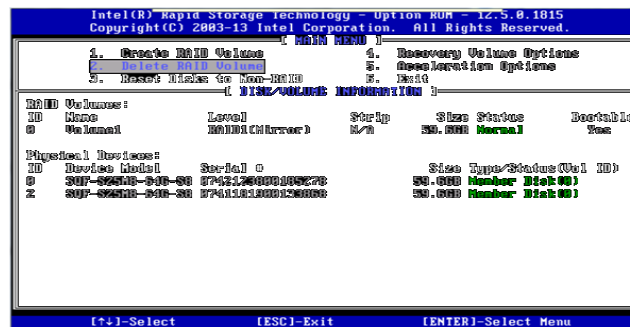
If you select 1 menu, RAID configuration screen will appear as below. You can move with the Tab key. Select the desired RAID level in the RAID level by using the up and down arrow keys, then select Create Volume to configure the RAID level.



Confirmation window before RAID configuration. Press the "Y" key.

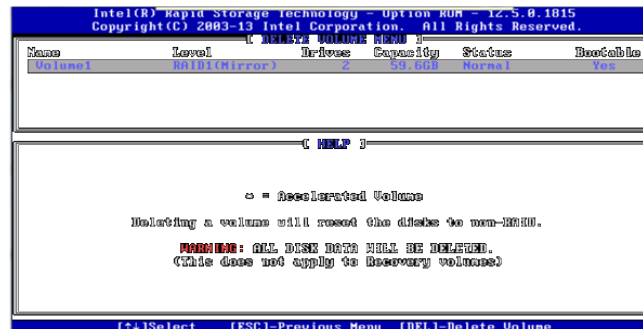


The RAID configuration is completed. When the configuration is completed, exit with EXIT and install Windows.

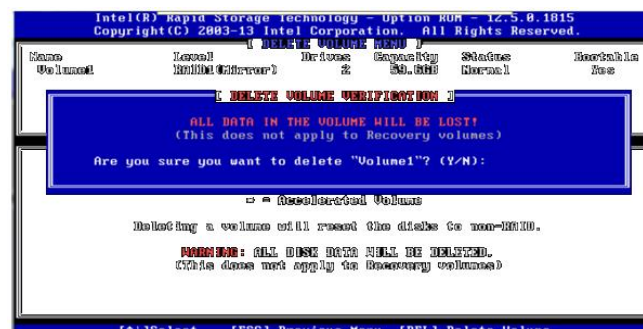


### (3) Delete RAID

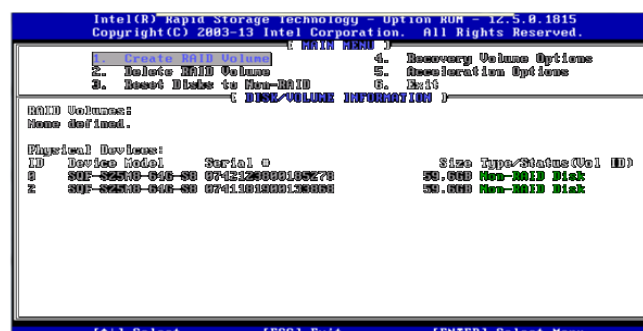
If you do not need RAID, you can delete it by using menu 2 (delete RAID Volume). When executing the menu No. 2, the delete menu appears as shown below. Enter "Del" key when deleting.



After entering the Del key, a confirmation window appears once more. Press "Y" at this time.



After deletion, it will come out like the screen before the first configuration. The status changes from Member Disk to Non-RAID Disk.



### (4) Initialize the RAID DISK to normal DISK

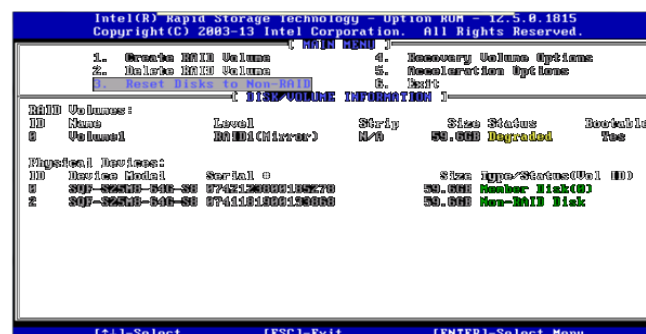
To delete the information on the RAID configuration disk, use menu 3 (Reset Disks to Non-RAID). This process should be used again when using AHCI mode again. Select the disk you want to reset and press "Enter".



It is a window to check again whether user request is correct. Press "Y".

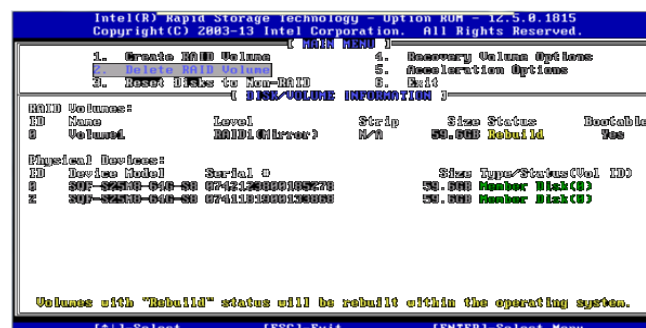


Once the initialization is completed, it will be recognized as a general disk, so you will be asked if you want to configure raid, but if you press "Esc", you will return to the window as below.



(5) When removing the RAID Disk

If you unplug a disk while using RAID, you will be prompted to rebuild it as shown below. Enter the OS and rebuild using the Intel RST tool.

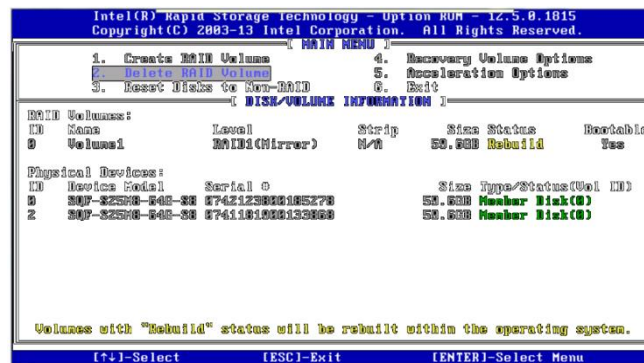


(6) When connecting a new disk with a RAID Disk failure

After connecting the new hard disk, enter RAID menu (Ctrl + I). If you press Enter at this time, a new hard disk is added with the RAID configuration (RAID1) that you created previously. (It is also possible with the intel RST utility of the OS) After the addition, you need to rebuild from Intel RST utility in OS.

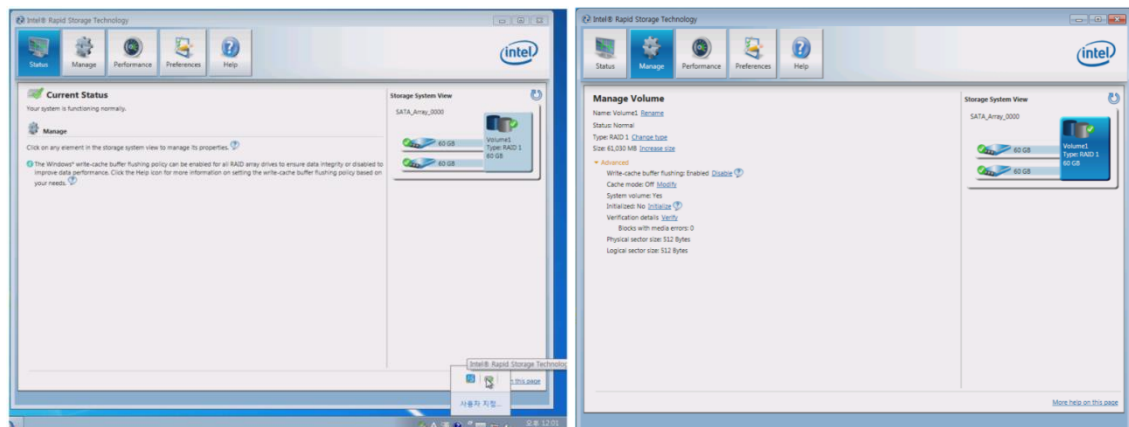


Select "Exit" for Rebuild and exit.

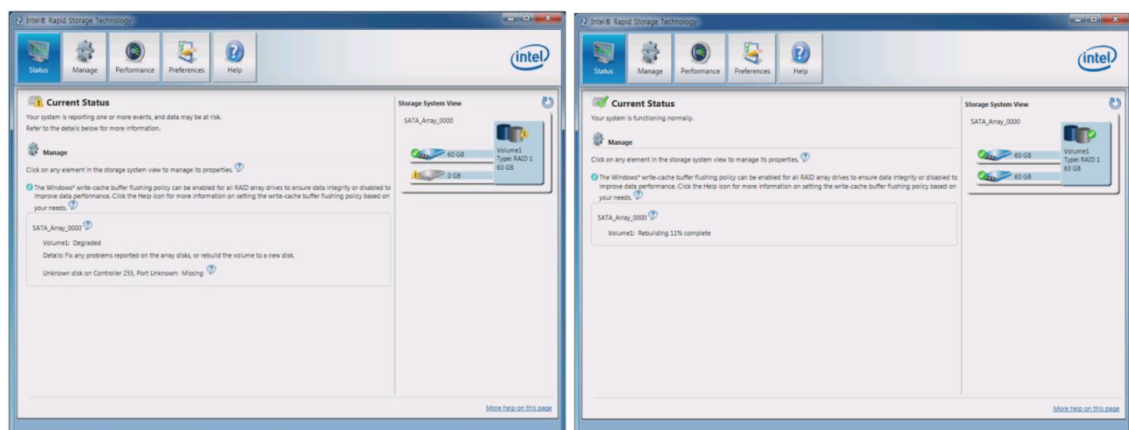


## (7) Windows setting

Intel RST can be launched from the icon in the lower right corner or from the launcher. If there is no problem, it will be displayed as below.

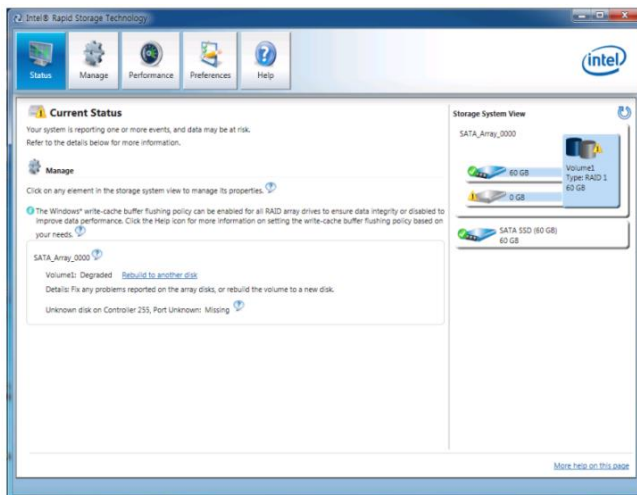


If the disk is broken or there is a problem with the connection, the disk with the problem as shown below is displayed.

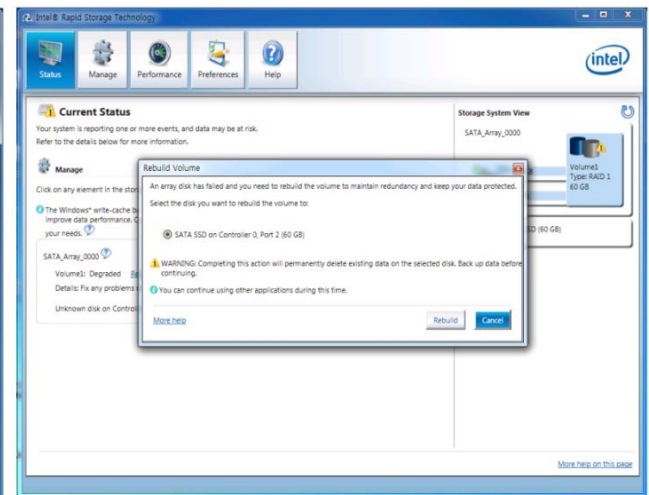


If there is a problem with the connection and it is reconnected, the rebuild starts as below when rebooting.

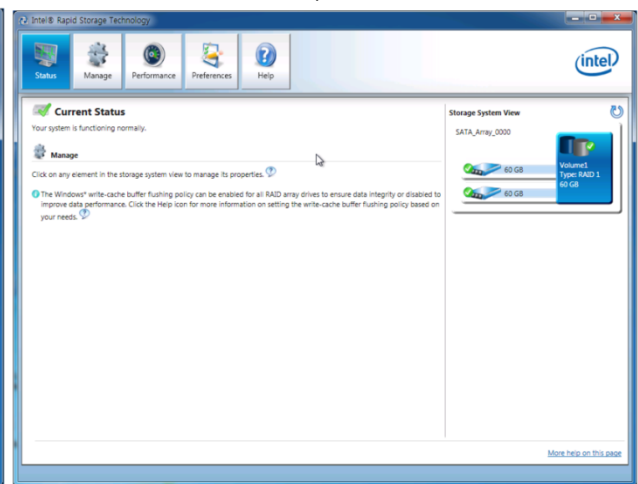
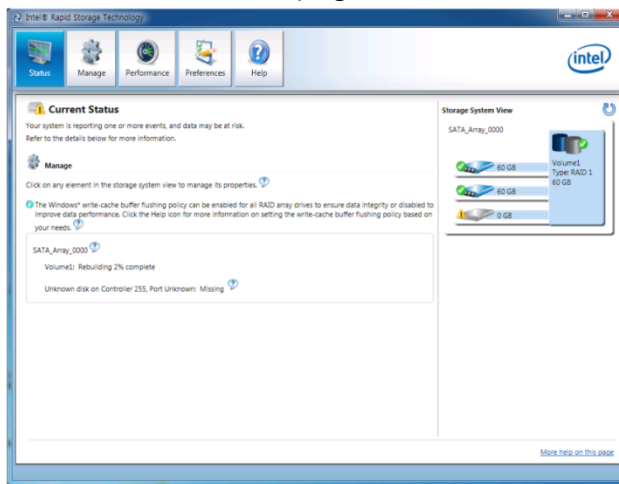
If a new hard disk is connected due to a failure of one disk, a window asking whether you want to rebuild the new disk will appear as shown below. At this time, click "rebuild to another disk" to rebuild.



Rebuild in progress screen



Rebuild completed screen



## (8) Precautions when using RAID1 function

- 1) Disk synchronization (rebuilding) has two discs that use the recovery solution. Use a disk labeled "RAID".
- 2) When using the recovery solution, click on the recovery image "Invisible Backup" Browse, "Acronis Secure Zone" and click "OK".
- 3) I do not see the retail license of Windows 7 after recovery. Please use the input to serial number 25.
  - Activate Windows - After you change your product key, click Enter your product key and connect to an external network.
  - If activation fails, set the computer time to the current time.
- 4) After the recovery, the recovery solution will be disabled. Be sure to click "Tools & Utilities" - "Activate "Acronis Startup Recovery Manager" - "Activate".

## Chapter 9 Maintenance Warning

### 9.1 Cleaning the Display

When the surface or frame of the display become dirty, spray the cleaning solution onto a soft cloth and wipe the device. Do not spray the cleaning solution directly onto the device.

### 9.2 Periodic Check Points

Check the followings periodically for best condition of the device.

(1) Environment

- a. Is the operating temperature within the allowable range?
- b. Is the operating humidity within the allowable range?
- c. Is the Surrounding pollution no corrosive gas?

(2) Power

- a. Is the input voltage within the change range?
- b. Check the front power switch surface for damage, scratches, and contamination.

(3) Related Items

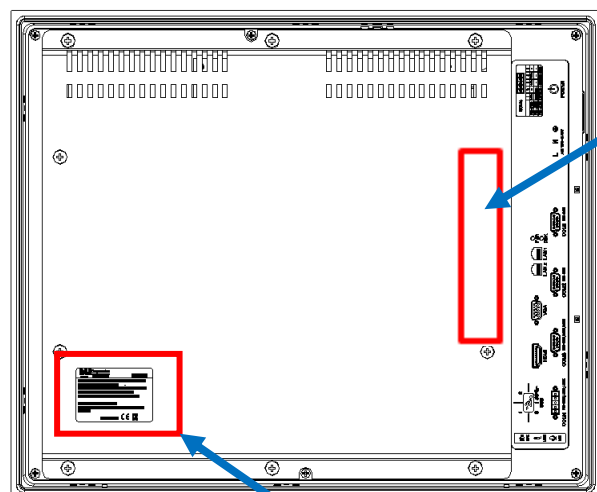
- a. Check the touch pad there is no damage, scratch or pollution by eye.
- b. Check the guarantee duration of LCD Backlight by eye.

### 9.3 Problems with the Device Warning

- (1) If there is a problem during operation, stop using it and contact the A/S department of M2I Corporation, which is indicated on the product label.
- (2) Only the authorized worker from M2I Corporation can check and repair problems related to malfunction of the machine.
- (3) If the problem cannot be solved at the installation site, the equipment can be collected and moved to M2I Corporation.
- (4) The manufacturer, M2I Corporation, is not responsible for damage or malfunction of the equipment caused by the use conditions of the user beyond the installation and use standards described in the manual.

## Chapter 10 Products and Warning Label

### 10.1 TOP-PCVIEW10/12/15/17\*\*\*\*

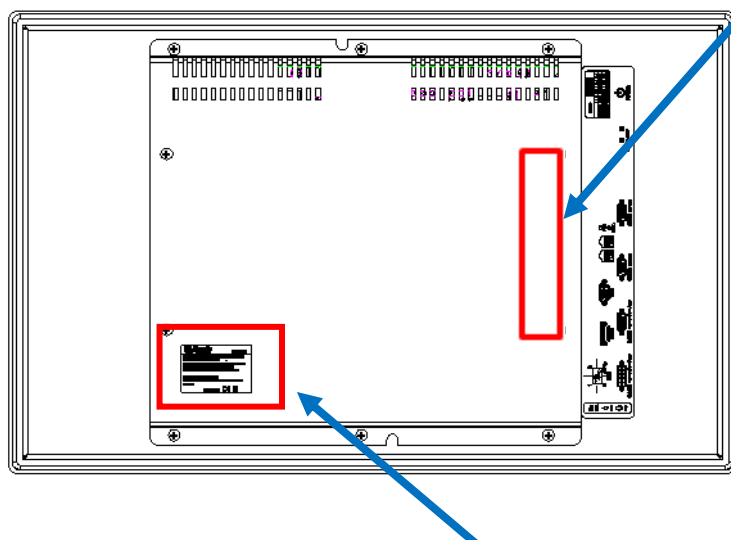


Product Label

 **Warning**

**! Do not connect or disconnect all cables when energized.**

### 10.2 TOP-PCVIEW19\*\*\*\*



Product Label

 **Warning**

**! Do not connect or disconnect all cables when energized.**

## Chapter 11 Products Label

### 11.1 AC Power Models



Manufacture(AS): M2I Corporation

11-35, Simin-daero 327beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do 14055, Korea

Tel: 82-31-465-3366

Product Name: Industrial PC-HMI Touch Panel

Model Name: **TOP-PCVIEW**□□ □□ □**A**

Operating Temp: 0 °C ≤ Ta ≤ +60 °C (No humidity) / +40 °C (RH 95%)

Power specification: TOP-PCVIEW Series...**A**, AC 100-240V, 50/60 Hz, 60W or less

KC Certificate NO.:

Internal Cell: Model Name CR2032 (lithium Battery)

Serial Number:

### 11.2 DC Power Models



Manufacture(AS): M2I Corporation

11-35, Simin-daero 327beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do 14055, Korea

Tel: 82-31-465-3366

Product Name: Industrial PC-HMI Touch Panel

Model Name: **TOP-PCVIEW**□□ □□ □**D**

Operating Temp: 0 °C ≤ Ta ≤ +60 °C (No humidity) / +40 °C (RH 95%)

Power specification: TOP-PCVIEW Series...**D**, 24 Vdc, 60W or less

KC Certificate NO.:

Internal Cell: Model Name CR2032 (lithium Battery)

Serial Number:

Copyright: M2I corporation 2022.08

[www.m2i.co.kr](http://www.m2i.co.kr)

- When using M2I equipment, thoroughly read this datasheet and associated manuals introduced in this datasheet, also pay careful attention to safety and handle the module properly.
- Store this datasheet in a safe place so that you can take it out read it whenever necessary.

#### User Guide

This product has Relevant Assessments for business environment. If this product is used in home environment, there can be an interference.