

# PV8070iH

Human Machine Interface  
with 7" TFT LCD display



## 【Introduction】

PV8000 series is the HMI range of NemaVision-iPC. With the design concept of meeting customers' satisfaction while easy-to-Use attribute as before, a PV-8000 not only performs as a Human Machine Interface but also plays as a role of data exchange center. Through the most popular Ethernet connection, data can be shared among PV-8000s without limitation and any SCADA/HMI software on the PC can simply access data from PV-8000s. PV-8000 series is the best choice for your requirement tomorrow.

The PV-8070iH is equipped with a USB 1.1 host, a USB 2.0 high speed device and SD card slot.

## ▣ Specifications

- ▣ **Construction:** plastic molding housing
- ▣ **Display:** 7" 65,536 color TFT LCD
- ▣ **CPU and core logic:** 32Bit RISC 400MHz processor
- ▣ **DRAM:** 64 MB DDR2 on board
- ▣ **Storage:** 128 MB flash memory on board,
- ▣ **I/O:** 3 serial ports: Com1: RS-232/RS-485 2w/4w,  
Com2: RS-232,  
Com3: RS-232/RS-485 2w  
1 Ethernet port (10/100Base-T)  
1 USB 1.1 host  
1 USB 2.0 high speed device
- ▣ **Sound output:** Line out
- ▣ **RTC:** Built-in
- ▣ **Power input:** 24±20%V<sub>DC</sub>, 250mA @24VDC
- ▣ **Dimension (W x H x D):** 200 x 146 x 42.5mm
- ▣ **Weight:** 0.85kg
- ▣ **Software:** EB8000 V2.0.0 or later

## ▣ Features

- ▣ 7" 800x480 TFT LCD
- ▣ Fan-less cooling system
- ▣ Built-in flash memory and RTC
- ▣ NEMA4/IP65 compliant front panel
- ▣ LED Back Light
- ▣ One USB Host and one USB client port
- ▣ SD card slot
- ▣ Power Isolator inside
- ▣ Com1 RS485 supports MPI 187.5K

## ▣ LCD Display

Display type	TFT LCD
Display size (diagonal)	7"
Max colors	65536
Resolution	800 x 480
Pixel pitch (HxV, mm)	0.1905 x 0.0635
Viewing angle (°)	70/50/70/70(T/B/R/L)
Luminance (cd/m <sup>2</sup> )	500
Backlight	LED
Backlight Life time	30,000 hrs.
Contrast ratio	500:1

## ▣ Touchscreen

- ▣ **Type:** 4-wire, analog resistive
- ▣ **Resolution:** continuous
- ▣ **Light transmission:** above 80%
- ▣ **Life:** 1 million activation minimum

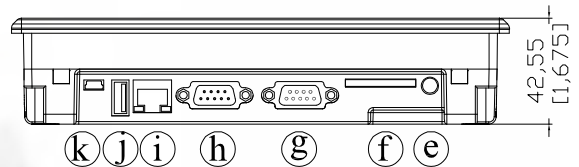
## ▣ Environmental Specifications

- ▣ **Operating temperature:** 0° ~ 50°C (32° ~ 122°F)
- ▣ **Storage temperature:** -20° ~ 60°C (-4° ~ 140°F)
- ▣ **Relative humidity:** 10% ~ 90% @ 40°C, non-condensing
- ▣ **Shock (operation):** 10 to 25Hz(X,Y,Z direction 2G 30minutes)
- ▣ **CE/FCC :** Complies with EN 55022:2006, Class A  
EN 61000-3-2:2006  
EN 61000-3-3:1995+A1:2001+A2:2005  
EN 55024:1998+A1:2001+A2:2003
- ▣ **Front panel meets NEMA4 / IP65**

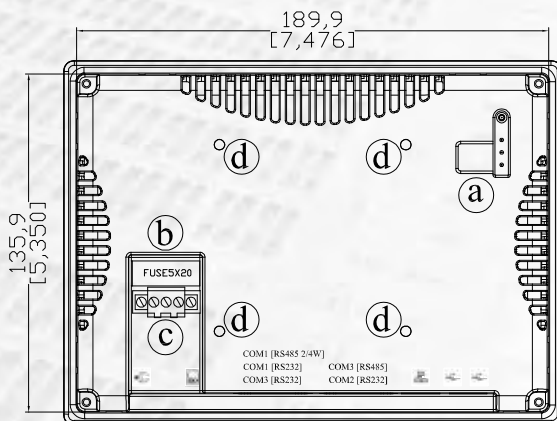
## ☒ Dimensions Drawing



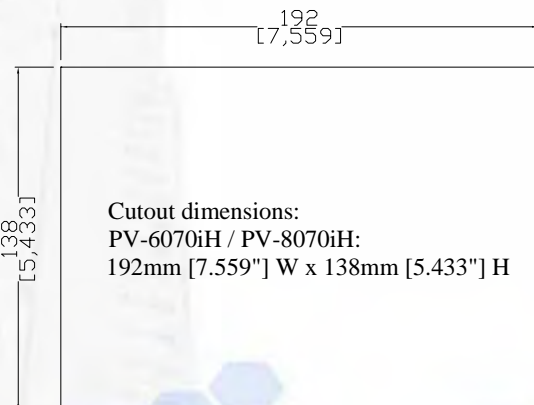
**Front View**



**Bottom View**



**Rear View**



a	DIP SW & Reset button	g	Com1 RS485, Com3 RS485, Com3 RS232
b	Fuse	h	Com1 RS232, Com2 RS232
c	Power connector	i	Ethernet port (RJ-45)
d	VESA 75mm screw holes	j	USB Host port
e	Line Out	k	USB Client port
f	SD card slot		

## Ordering Information

### ☒ **PV-8070iH:**

7" 800x480 TFT LCD HMI, 128MB flash memory/64MB DDR2 RAM on board.

### ☒ **RZCMT6100:**

PV-6000/8000 i series download cable / Mini USB to USB 2.0 100 cm