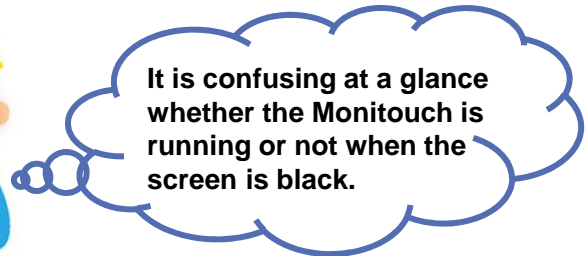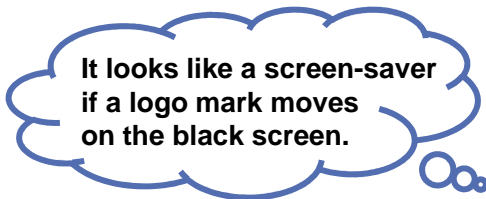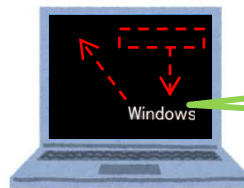# Fuji Electric
MONITOUCH EXPRESS

A little ingenuity with macros: screen-savers

It is possible to make a screen-saver screen like a PC with macros and the animation function!

BEFORE **Screens go black by using the backlight off function. If a logo mark could move in the screen, it would be like a screen-saver of PC.**

Black

A logo mark moves.

Windows

It looks like a screen-saver if a logo mark moves on the black screen.

It is confusing at a glance whether the Monitouch is running or not when the screen is black.
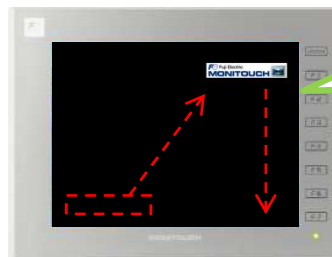
If macros and the animation function are combined...

AFTER **If the screen is not touched for a certain period of time, it will change over to the screen-saver screen! It is easiest to understand that the HMI is in screen-saver mode by seeing a logo mark moving!**

If the screen is not touched for a certain period of time...

A logo mark is moving!

Easy to understand it is a screen-saver screen.

It is good to be able to create different types of animation depending on types of your machines by using suitable images.
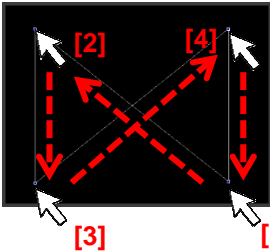
For more information, please read the next page!

Images are moved by the animation function

It is possible to load bitmap or JPEG files and use them as images for animation!
The movement of the animation is specified with your mouse on V-SFT!

E.g.) A screen-saver screen
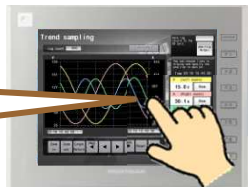
[2] **[4]**

[3]   **[1] / [5]**

> It is possible to specify the movement easily by clicking your mouse at the point to which you want to move the image in order!

*For the details of the animation function, please refer to "V9 reference manual (1)"

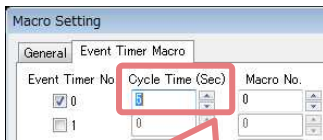## Screens are changed over to the screen-saver screen by macros

It is possible to detect whether the screen is touched or not by monitoring the touch switch's status. A system device $s901 is used for it.

> **$s900: Touch switch status (bit 0)**
> **$s901: X coordinate (absolute)**
> **$s902: Y coordinate (absolute)**

For example,
When screens are set to change over to the screen-saver without touch for more than 5 seconds, event timer macro is useful. ([System setting] > [Macro Setting] > [Event Timer Macro])

＜An example of macros ＞

Macro Setting

General | Event Timer Macro

Event Timer No	Cycle Time (Sec)	Macro No.
☑ 0	5	0
☐ 1	0	0

> Macros run every 5 sec.

```
0 ;Event timer macro (5 sec)
1 ;
2 ;Macro doesn't run during displaying the screen-saver screen.
3 IF($s00000 == 100) LB 0 (W)
4 ;
5 ;Monitore touch switch status
6 ;Compare the X coordinate of the current touch point
7 ;with that of the previous touch point
8 IF($s00901 != $u00100) (W)
9 ;Disagreement: Store the current touch point in $u100.
10 $u00100 = $s00901 (W)
11 ELSE
12 ;Agreement: change over to the screen-saver screen.
13 $M00000 = 100 (W)
14 SYS (SET_SCRN) $M00000
15 ENDIF
16 ;
17 ;
18 LB 0:
19 ;Macro end
```

Switch function: return is used on returning to the previously displayed screen.

> A transparent switch should be placed into the entire screen.

Please try to make a screen-saver screen with a little ingenuity!

Hakko Electronics Co., Ltd.