

Proposal for Equipment Improvement with USB Cameras

USB camera display

USB camera images can be displayed in real time. Since all V10/V9 series models support USB camera connection as standard, this improvement can be implemented by modifying existing equipment without purchasing a new MONITOUCH. Besides, USB cameras are reasonably priced and widely available, allowing for easy implementation.

Before

The equipment stopped on an automated production line, but the cause cannot be identified...



Can we somehow check what happened when the error occurred?

By introducing a USB camera

After

Record video before and after an error occurs so you can check it later!

Error detected → Start recording

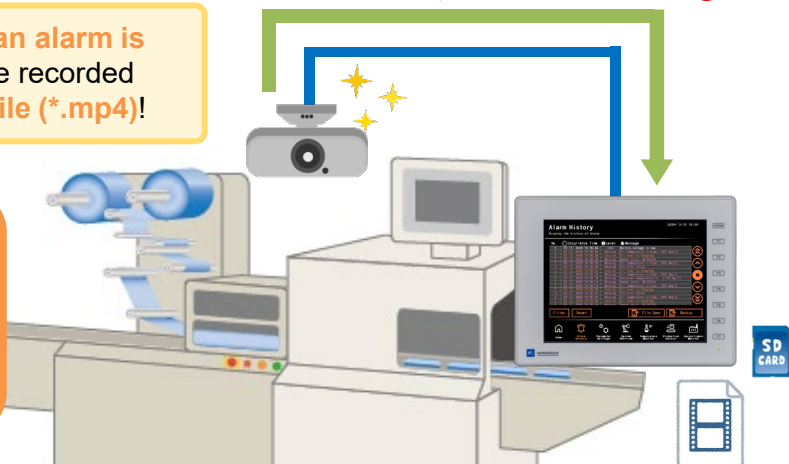
USB camera video **before and after an alarm is detected (up to 180 seconds)** can be recorded and saved to the storage as **a video file (*.mp4)**!

Shortens the time required to identify the cause of the equipment trouble and **solve problems**
--> Achieve improved equipment operational efficiency!

This helps you to analyze video footage by comparing with errors **in chronological order** for the smooth cause investigation!

Timestamps can be added to video files.

Video file (MPEG-4)



In addition

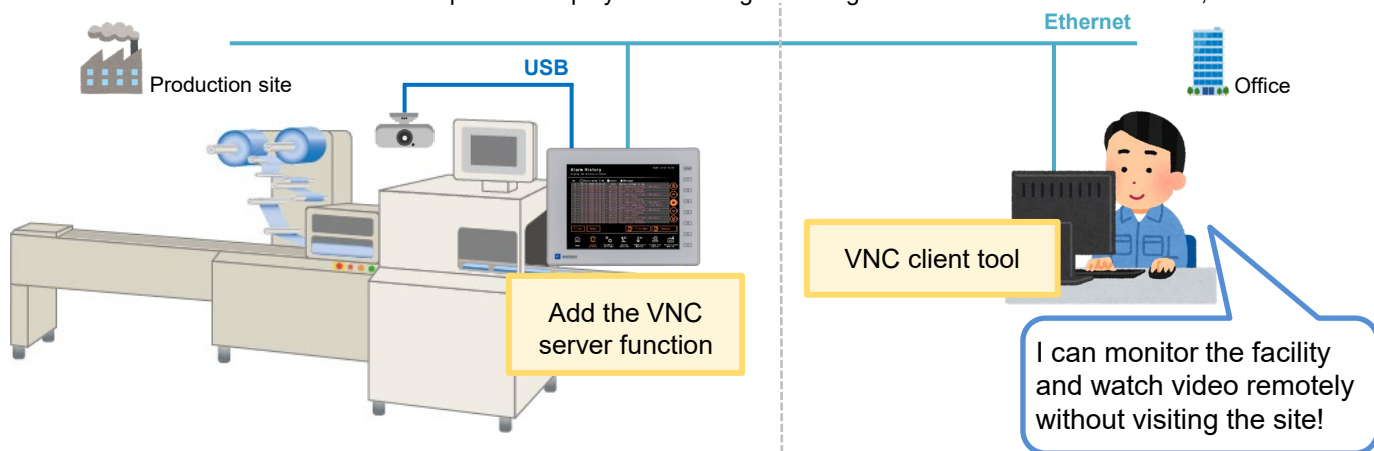


Connect the V10/V9 series to a PC or tablet via Ethernet to monitor it remotely! (VNC server function)

With the V10 series, you can remotely monitor USB camera images*1 and play recorded videos*2 to confirm what happened when an alarm occurred!

*1 Not supported on the V9 series

*2 It is not possible to play video during recording before and after an alarm event,



All you need is a USB camera and a USB hub!



What kind of specifications are required for connection?

USB camera



Item	Specifications	Remarks
Interface	USB3.0, USB2.0	
Communication standard	UVC (USB Video Class) support	
Resolution	320 x 240、 640 x 480	USB cameras that do not support 320x240 or 640x480 resolutions cannot be connected.
Frame rate	Max. 30FPS	
Encoding	YUYV, Motion JPEG	Motion JPEG is supported on V10 system program Ver. 1.700 or later. (Not supported on V9)

More options for selecting a USB camera!

USB-HUB



- With external power supply
- Connect the USB camera to port 1

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