

Enhanced Security

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1. Overview

This demo project introduces the Enhanced Security Mode. Unlike General Mode, Enhanced Security Mode provides many features for account management that can be done directly on HMI. Users can also import accounts or login via USB/SD.



2. Setting up the Screen

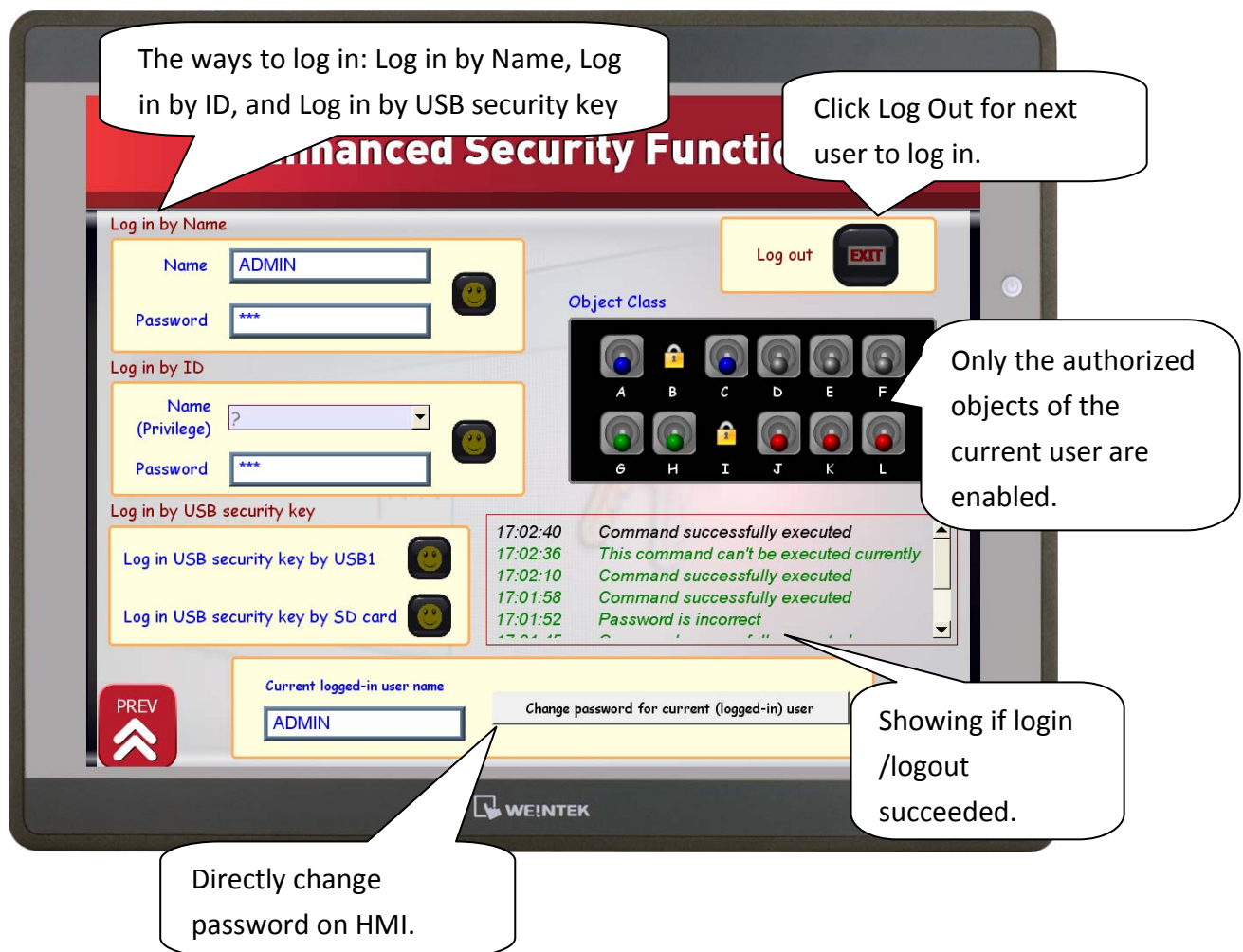
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The demonstration below shows how to log in. Click on  on the lower left side, a popup login dialog is shown, click [Login by Name], another popup dialog shows up for typing in user name manually. Before [Login by USB security key] is clicked, please insert the USB which contains the key generated using Administrator Tool to HMI USB port. Users can log in directly.




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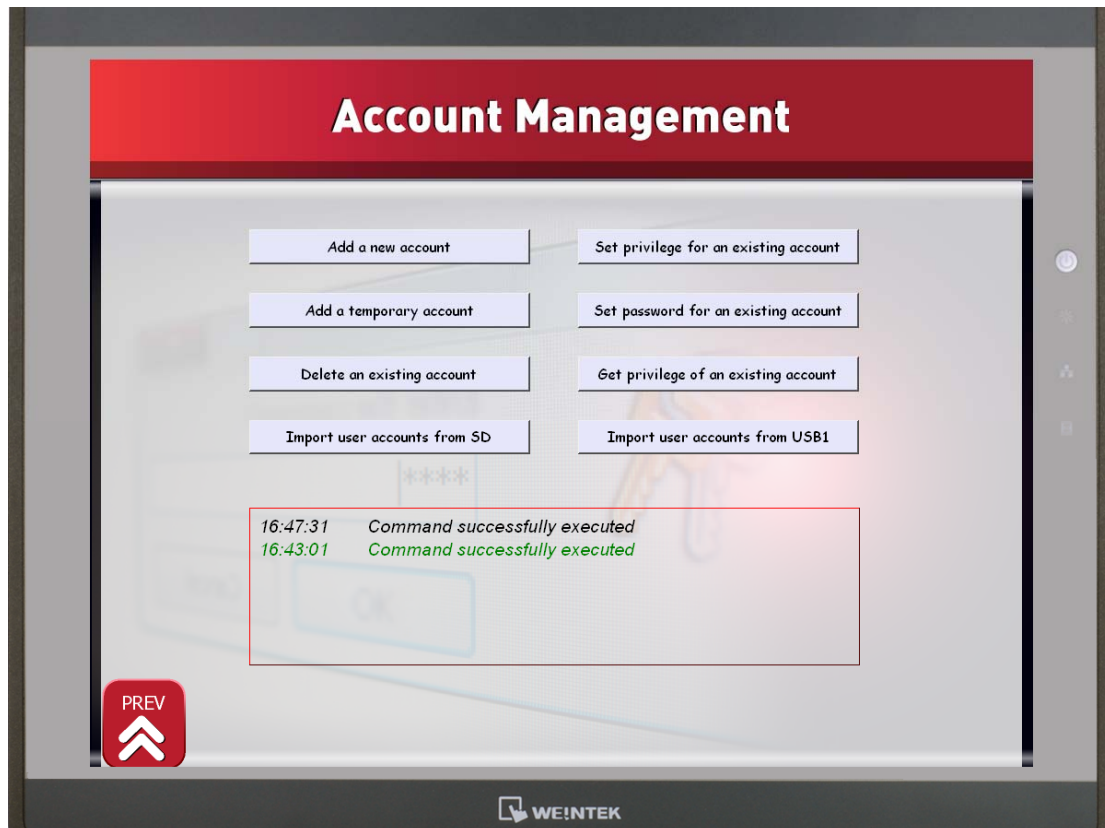
On the operation window, the objects on the right side allow users to directly control. Different users are authorized to control different classes of objects. To change to another user, click [Log out], and type in another user name and password. The left part shows different ways to log in: [Log in by Name], [Log in by ID], and [Log in by USB security key]. It is allowed to change password by clicking [Change password for current (logged-in) user].



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On top page if login using ADMIN and password 111, clicking  on the lower left side will open the Account Management window. Eight functions are offered here.

Note: This window is only enabled when login using ADMIN (password 111) or admin (password 111111).



1. Add a new account

Directly add new user account, password and assign operator privileges on HMI.

The screenshot shows the 'Add a new account' screen on an HMI. The screen has a blue header with the title 'Add a new account' in red. Below the title are three input fields: 'Name', 'Password', and 'Privilege'. The 'Privilege' field is a grid of 12 circular buttons labeled A through L. At the bottom of the screen are two large buttons: 'OK' (with a green checkmark) and 'EXIT' (with a red X). Three callout boxes provide instructions: '1. Type in new name and password.' points to the Name and Password fields; '2. Assign operator privileges.' points to the Privilege grid; and '3. Click OK to finish settings.' points to the OK button.

Add a new account

Name

Password

Privilege

| | | | | | |
|---|---|---|---|---|---|
| A | B | C | D | E | F |
| G | H | I | J | K | L |

OK EXIT

1. Type in new name and password.

2. Assign operator privileges.

3. Click OK to finish settings.

2. Add a temporary account

This allows adding new users and setting the operable time period for each user. When time is up, the user will lose the account privileges.

Add a temporary account

1. Type in new name and password.

2. Specify user operable time. (minutes)

3. Assign operator privileges.

4. Click OK to finish settings.

Name:

Password:

Effective time: mins, (0 -> infinite)

Privilege:

| | | | | | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| A | B | C | D | E | F |
| <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| G | H | I | J | K | L |

3. Delete an existing account

Directly delete an existing account on HMI.

Delete an existing account

1. Type in the account name to be deleted.

Or, select the account to be deleted from the option list.

2. Click to delete the specified account.

Click to delete the specified account.

Name:

ID:

4. Import user accounts from SD

Via Administrator Tool, edit new user account and password then save to SD. Insert the SD card to HMI to import the new user account and password.

5. Set privilege for an existing account

Change the specified privileges of an existing account.

The screenshot shows the 'Set privilege for an existing account' screen. It features a 2x6 grid of privilege buttons labeled A through L. Below the grid are input fields for 'Name' (containing 'OPERATOR') and 'ID' (a dropdown menu showing 'OPERATOR (AGHI)'). There are two 'OK' buttons with green checkmarks and one 'EXIT' button at the bottom. Callouts provide instructions: '1. Assign new privileges.' points to the privilege buttons; '2. Type in the account name to re-assign new privileges.' points to the Name field; '3. Click OK to finish settings.' points to the first OK button; and 'Click OK to finish settings.' points to the second OK button.

1. Assign new privileges.

2. Type in the account name to re-assign new privileges.

3. Click OK to finish settings.

Select the account name to re-assign new privileges from option list.

6. Set password for an existing account

Directly re-assign new password for an existing account on HMI.

The screenshot shows the 'Set password for an existing account' screen. It features input fields for 'Password' (masked with asterisks), 'Name' (containing 'OPERATOR'), and 'ID' (a dropdown menu showing 'OPERATOR (ABF)'). There are two 'OK' buttons with green checkmarks and one 'EXIT' button at the bottom. Callouts provide instructions: '1. Type in new password.' points to the Password field; '2. Type in account name.' points to the Name field; '3. Click OK to finish settings.' points to the first OK button; and 'Click OK to finish settings.' points to the second OK button. A fourth callout, 'Select the account name to re-assign new password from option list.', points to the ID dropdown menu.

1. Type in new password.

2. Type in account name.

3. Click OK to finish settings.

Select the account name to re-assign new password from option list.

7. Get privilege of an existing account

Type in account name, the specified privileges will be shown for reference.

The screenshot shows a user interface titled "Get privilege of an existing account". It features a grid of 12 circular privilege buttons labeled A through L. Below the grid are two input fields: "Name" and "ID", both containing the text "OPERATOR". To the right of each input field is a green "OK" button with a checkmark. At the bottom center is a red "EXIT" button. Four callout boxes provide instructions: 1. "1. Type in the account name." points to the "Name" field. 2. "2. Click OK to finish settings. The specified privileges will be shown above." points to the "OK" button next to the "Name" field. 3. "Select the account name to check from option list." points to the "ID" field. 4. "Click OK to finish settings." points to the "OK" button next to the "ID" field.

Get privilege of an existing account

Privilege

A B C D E F

G H I J K L

Name OPERATOR OK

ID OPERATOR OK

EXIT

1. Type in the account name.

Select the account name to check from option list.

2. Click OK to finish settings. The specified privileges will be shown above.


Click OK to finish settings.

8. Import user accounts from USB1

Via Administrator Tool, edit new user account and password then save to USB. Insert the USB to HMI to import the new user account and password.

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Log in from top page, click  to display VIDEO IN window. The backlight brightness and contrast ratio can be adjusted.



3. Addresses

The object addresses used in this demo project are listed below, the addresses and object ID can be modified based on actual usage.

| Object | Address | Object ID | Description |
|------------------|------------|-----------|------------------------------|
| Window 4 | | | |
| Toggle switch | LB-9020 | TS_0 | Show/hide system setting bar |
| Window 10 | | | |
| Function key | | FK_0 | Switch to base window 11 |
| | | FK_1 | Switch to base window 12 |
| | | FK_2 | Switch to base window 131 |
| Direct window | LB-50 | WC_0 | Popup window 35 |
| | LB-100 | WC_1 | Popup window 30 |
| Set bit | LB-50 | SB_0 | Set OFF when window opens |
| | LB-100 | SB_1 | Set OFF when window opens |
| | LW_Bit-100 | SB_2 | Set OFF when window opens |
| | LW_Bit-101 | SB_3 | Set OFF when window opens |
| | LW_Bit-102 | SB_4 | Set OFF when window opens |
| | LW_Bit-103 | SB_5 | Set OFF when window opens |
| | LW_Bit-104 | SB_6 | Set OFF when window opens |
| | LW_Bit-105 | SB_7 | Set OFF when window opens |
| | LW_Bit-106 | SB_8 | Set OFF when window opens |
| | LW_Bit-107 | SB_9 | Set OFF when window opens |
| | LW_Bit-108 | SB_10 | Set OFF when window opens |
| | LW_Bit-109 | SB_11 | Set OFF when window opens |
| | LB-50 | SB_12 | Set OFF |
| | LB-100 | SB_13 | Set OFF |
| Toggle switch | LB-50 | TS_0 | Set LB-50 ON/OFF |
| | LB100 | TS_1 | Set LB-100 ON/OFF |
| Set Word | LW-0 | SW_0 | Set value 3 to LW-0, Log out |
| Alarm Bar | | AB_0 | Display message |

| Window 11 | | | |
|---------------|----------|-------|--------------------------------------|
| Function key | | FK_0 | Switch to base window 10 |
| | | FK_1 | Import user data by USB security key |
| | | FK_2 | Import user data by SD card |
| | | FK_3 | Execute macro 2 |
| Event Display | LW-50 | ED_0 | Display message |
| ASCII Input | LW-4 | AE_0 | User Name |
| | LW-12 | AE_1 | User Password |
| | LW-12 | AE_2 | User Password |
| Option List | LW-2 | OL_0 | User account |
| Set Word | LW-0 | SW_0 | Input value 1 (log in by name) |
| | LW-0 | SW_1 | Input value 2 (log in by ID) |
| | LW-0 | SW_2 | Input value 3 (log out) |
| | LW-0 | SW_3 | Input value 3 (log out) |
| Set Bit | LB-100 | SB_0 | Execute macro 0 |
| | LB-80 | SB_1 | Popup window 19 |
| Toggle Switch | LB-0 | TS_0 | LB-0 ON/OFF |
| | LB-1 | TS_1 | LB-1 ON/OFF |
| | LB-2 | TS_2 | LB-2 ON/OFF |
| | LB-3 | TS_3 | LB-3 ON/OFF |
| | LB-4 | TS_4 | LB-4 ON/OFF |
| | LB-5 | TS_5 | LB-5 ON/OFF |
| | LB-6 | TS_6 | LB-6 ON/OFF |
| | LB-7 | TS_7 | LB-7 ON/OFF |
| | LB-8 | TS_8 | LB-8 ON/OFF |
| | LB-9 | TS_9 | LB-9 ON/OFF |
| | LB-10 | TS_10 | LB-10 ON/OFF |
| | LB-11 | TS_11 | LB-11 ON/OFF |
| ASCII | LW-10754 | AD_0 | Display current account name. |

| | | | |
|------------------|------------|------|--|
| Display | | | |
| Direct Window | | WC_0 | Popup window 38 |
| | | WC_1 | Popup window 39 |
| | | WC_2 | Popup window 19 |
| Window 12 | | | |
| Function key | | FK_0 | Display window 20 |
| | | FK_1 | Display window 21 |
| | | FK_2 | Display window 22 |
| | | FK_3 | Display window 23 |
| | | FK_4 | Display window 24 |
| | | FK_5 | Display window 25 |
| | | FK_6 | Import user account via USB |
| | | FK_7 | Back to window 10 |
| | | FK_8 | Import user account via SD |
| Set Word | LW-0 | SW_0 | Write value 3 (log out) |
| Set Bit | LB-100 | SB_0 | Execute macro 0 |
| Window 19 | | | |
| ASCII Input | LW-4 | AE_0 | Old Password |
| | LW12 | AE_1 | New Password |
| | LW-120 | AE_2 | Confirm Password |
| Function Key | | FK_0 | Close Window |
| | | FK_1 | Execute macro 1 |
| Set Bit | LB-100 | SB_0 | Execute macro 0 (when window opens) |
| | LB-100 | SB_1 | Don't execute macro 0 (When window closes) |
| | LB-80 | SB_2 | Set OFF(when window closes) |
| Window 20 | | | |
| Toggle Switch | LW_Bit 300 | TS_0 | Privilege class A |
| | LW_Bit 301 | TS_1 | Privilege class B |
| | LW_Bit 302 | TS_2 | Privilege class C |

| | | | |
|------------------|------------|-------|--|
| | LW_Bit 303 | TS_3 | Privilege class D |
| | LW_Bit 304 | TS_4 | Privilege class E |
| | LW_Bit 305 | TS_5 | Privilege class F |
| | LW_Bit 306 | TS_6 | Privilege class G |
| | LW_Bit 307 | TS_7 | Privilege class H |
| | LW_Bit 308 | TS_8 | Privilege class I |
| | LW_Bit 309 | TS_9 | Privilege class J |
| | LW_Bit 310 | TS_10 | Privilege class K |
| | LW_Bit 311 | TS_11 | Privilege class L |
| Set Word | LW-0 | SW_0 | Input value 5, confirm adding new account |
| Set Bit | LB-100 | SB_0 | Execute macro 0 (when window opens) |
| | LB-100 | SB_1 | Don't execute macro 0 (When window closes) |
| Function key | | FK_0 | Close window |
| ASCII Input | LW-4 | AE_0 | Type in account name |
| | LW-12 | AE_1 | Type in account password |
| Window 21 | | | |
| Toggle Switch | LW_Bit 300 | TS_0 | Privilege class A |
| | LW_Bit 301 | TS_1 | Privilege class B |
| | LW_Bit 302 | TS_2 | Privilege class C |
| | LW_Bit 303 | TS_3 | Privilege class D |
| | LW_Bit 304 | TS_4 | Privilege class E |
| | LW_Bit 305 | TS_5 | Privilege class F |
| | LW_Bit 306 | TS_6 | Privilege class G |
| | LW_Bit 307 | TS_7 | Privilege class H |
| | LW_Bit 308 | TS_8 | Privilege class I |
| | LW_Bit 309 | TS_9 | Privilege class J |
| | LW_Bit 310 | TS_10 | Privilege class K |
| | LW_Bit 311 | TS_11 | Privilege class L |
| Set Word | LW-0 | SW_0 | Input value 6, adding temporary account |
| Function | | FK_0 | Close window |

| | | | |
|------------------|------------|-------|---|
| Key | | | |
| ASCII Input | LW-4 | AE_0 | Type in account name |
| | LW-12 | AE_1 | Type in account password |
| Numeric Input | LW-2 | NE_0 | Specify operable time period (minutes) |
| Set Bit | LB-100 | SB_0 | Execute macro 0 (when window opens) |
| | LB-100 | SB_1 | Don't execute macro 0 (When window closes) |
| Window 22 | | | |
| Set Word | LW-0 | SW_0 | Input value 7, confirm deleting an existing account |
| | LW-0 | SW_1 | Input value 8, confirm deleting an existing account |
| Function Key | | FK_0 | Close window |
| ASCII Input | LW-4 | AE_0 | Type in account name |
| Set Bit | LB-100 | SB_0 | Execute macro 0 (when window opens) |
| | LB-100 | SB_1 | Don't execute macro 0 (When window closes) |
| Option List | LW-2 | OL_0 | Display all the accounts |
| Window 23 | | | |
| Toggle Switch | LW_Bit 300 | TS_0 | Privilege class A |
| | LW_Bit 301 | TS_1 | Privilege class B |
| | LW_Bit 302 | TS_2 | Privilege class C |
| | LW_Bit 303 | TS_3 | Privilege class D |
| | LW_Bit 304 | TS_4 | Privilege class E |
| | LW_Bit 305 | TS_5 | Privilege class F |
| | LW_Bit 306 | TS_6 | Privilege class G |
| | LW_Bit 307 | TS_7 | Privilege class H |
| | LW_Bit 308 | TS_8 | Privilege class I |
| | LW_Bit 309 | TS_9 | Privilege class J |
| | LW_Bit 310 | TS_10 | Privilege class K |

| | | | |
|------------------|------------|-------|--|
| | LW_Bit 311 | TS_11 | Privilege class L |
| Set Word | LW-0 | SW_0 | Input value 9, confirm new privilege settings |
| | LW-0 | SW_1 | Input value 10, confirm new privilege settings |
| ASCII Input | LW-4 | AE_0 | Type in account name |
| Function Key | | FK_0 | Close window |
| Set Bit | LB-100 | SB_0 | Execute macro 0 (when window opens) |
| | LB-100 | SB_1 | Don't execute macro 0 (When window closes) |
| Option List | LW-2 | OL_0 | Display all the accounts |
| Window 24 | | | |
| ASCII Input | LW-4 | AE_0 | Type in account name |
| | LW-12 | AE_1 | Type in account password |
| Set Word | LW-0 | SW_0 | Input value 11, confirm new password settings |
| | LW-0 | SW_1 | Input value 12, confirm new password settings |
| Function Key | | FK_0 | Close window |
| Set Bit | LB-100 | SB_0 | Execute macro 0 (when window opens) |
| | LB-100 | SB_1 | Don't execute macro 0 (When window closes) |
| Option List | LW-2 | OL_0 | Display all the accounts |
| Window 25 | | | |
| Toggle Switch | LW_Bit 300 | TS_0 | Privilege class A |
| | LW_Bit 301 | TS_1 | Privilege class B |
| | LW_Bit 302 | TS_2 | Privilege class C |
| | LW_Bit 303 | TS_3 | Privilege class D |
| | LW_Bit 304 | TS_4 | Privilege class E |

| | | | |
|------------------|------------|-------|---|
| | LW_Bit 305 | TS_5 | Privilege class F |
| | LW_Bit 306 | TS_6 | Privilege class G |
| | LW_Bit 307 | TS_7 | Privilege class H |
| | LW_Bit 308 | TS_8 | Privilege class I |
| | LW_Bit 309 | TS_9 | Privilege class J |
| | LW_Bit 310 | TS_10 | Privilege class K |
| | LW_Bit 311 | TS_11 | Privilege class L |
| Set Word | LW-0 | SW_0 | Input value 13, confirm checking account privilege data |
| | LW-0 | SW_1 | Input value 14, confirm checking account privilege data |
| ASCII Input | LW-4 | AE_0 | Type in account name |
| Option List | LW-2 | OL_0 | Display all the accounts |
| Window 35 | | | |
| Function Key | | FK_0 | Popup window 36 |
| | | FK_1 | Popup window 37 |
| Window 36 | | | |
| ASCII Input | LW-4 | AE_0 | Type in account name |
| | LW-12 | AE_1 | Type in account password |
| Set Word | LW-0 | SW_0 | Input value 1 |
| Set Bit | LB-50 | SB_0 | Set LB-50 OFF |
| Function Key | | FK_0 | Close window |
| Window 37 | | | |
| Function Key | | FK_0 | Log in via USB |
| | | FK_1 | Log in via SD |
| | | FK_2 | Close window |
| Set Bit | LB-50 | SB_0 | Set LB-50 OFF |
| Window 38 | | | |
| Set Word | LW-0 | SW_0 | Input value 4 |

| | | | |
|-------------------|---------|------|---|
| Set Bit | LB-68 | SB_0 | Set LB-68 OFF |
| Set Bit | LB-80 | SB_1 | Set LB-80 OFF |
| Window 39 | | | |
| Set Bit | LB-69 | SB_0 | Set LB-69 OFF |
| Function Key | | FK_0 | Execute macro 2 |
| Window 131 | | | |
| Video In | LW-1300 | VI_0 | Video In Object |
| Set Word | LW-0 | SW_0 | Input value 3, log out |
| | LW-1300 | SW_1 | Input value 1, display Video Input window |
| | LW-1302 | SW_2 | Adjust Contrast Ratio |
| | LW-1302 | SW_3 | Adjust Contrast Ratio |
| | LW-1303 | SW_4 | Adjust Backlight Brightness |
| | LW-1303 | SW_5 | Adjust Backlight Brightness |