



User Manual

Industrial monitors series SEMxx

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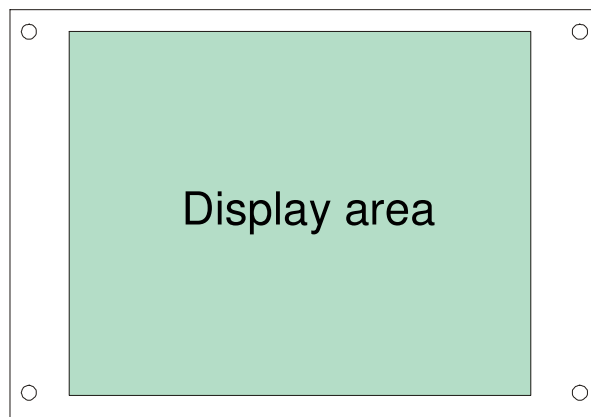
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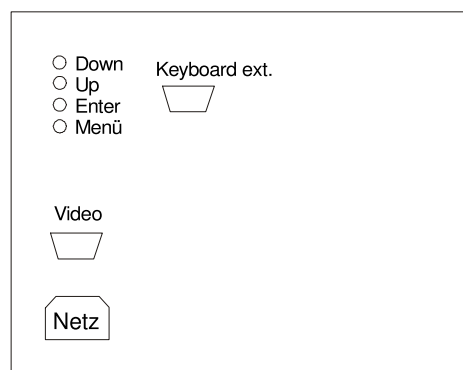
1 Safety Instructions

1. Please read all of the following instructions before use.
2. Follow all warnings and instructions marked on this product.
3. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this product where water spills may occur.
5. Prevention from falling, do not place this product on an unstable surface.
6. To protect this monitor from overheating, slots and openings on the back and bottom of this unit (used for ventilation) should never be blocked. Never be placed near a radiator or heating element.
7. Only operate this monitor from the power source indicated on the marking label.
8. Never puncture any objects through the walls of the monitor. High voltage points could result in electric shock, fire hazard or cause a short circuit.
9. Save this instruction manual for later use.
10. Refer all servicing to a qualified service personnel.

2 Setup



Frontside



Backside

Connect the power cable on the backpanel of the monitor.
Connect the video-signal cable on the backpanel of the monitor.
Connect the keyboard cable on the backpanel of the monitor.

3 Operation

All settings made with an On Screen Display (OSD).

To adjust a screen image you can use the following procedure:

1. adjust the screen image vertical
2. move the image horizontal until it fits on left side of the display area
3. adjust the horizontal size to fit the screen image in the display area
4. repeat step 2 and 3 until the screen image fits horizontally
5. adjust the phase of the pixel clock

4 OSD Control

4.1 OSD Main menu

To activate the Main menu push the *Menu* button at the backside.

Select an entry by moving the bar with the *Up* and *Down* buttons.

By pressing the *Enter* button you take the action.

The Usermode, horizontal and vertical frequency are displayed in the Main menu.

4.2 Submenu Display

In the Submenu Display you can adjust the screen image.

With *Up* or *Down* and then *Enter* you activate the function (adjust mode).

In the adjust mode will be displayed a number in the row of the activated function.

With *Up* or *Down* you make the adjustment. To leave the adjust mode press the *Enter* button.

The adjustment can saved as an Usermode to be restored after power up or video mode changed (see in Submenu Usermodi).

- Brightness 
adjusts foreground white level of screen image
- Contrast 
adjusts background black level of screen image
- H - Center 
moves screen image horizontally
- V - Center 
moves screen image vertically
- H - Size 
adjusts the horizontal size (width) of screen image
- Phase 
adjusts the phase of pixel clock
- Exit
back to Main menu

Kommentar [vs1]:

4.3 Submenu Usermodi

In the Submenu Usermodi you can save the adjustments.

If after power up or video mode changed the monitor searches the Usermodes to find saved adjustments for the applied video modus. If there found an Usermode, the saved adjustments will be restored. If no Usermode found, standard adjustments applied.

Is an Usermode active you can see it at the Main menu
("stored" above the vertical frequency).

To save the adjustments the Save entry and push the *Enter* button.

To clear the adjustments choose the Clear entry and push the *Enter* button.

4.4 Submenu Picture

In the submenu Picture you can do special adjustments depending on the display size.

With the buttons „Up“ or „Down“ und and then „Enter“ you can select a function (adjust mode), and then with „Up“ and „Down“ change the setting. With „Enter“ you will leave the adjust mode.

The settings you have done should be saved in an Usermode (see Submenu Usermode), to be stored permanently.

- Expansion

- OFF the picture will displayed with 1 pixel Input = 1 pixel on the display
- USER adjust the Zoom between OFF and MAX
- ASP (Option) expansion with preservation of the aspect ratio
- MAX the picture will expanded to the whole display area

- Mirror (Option)

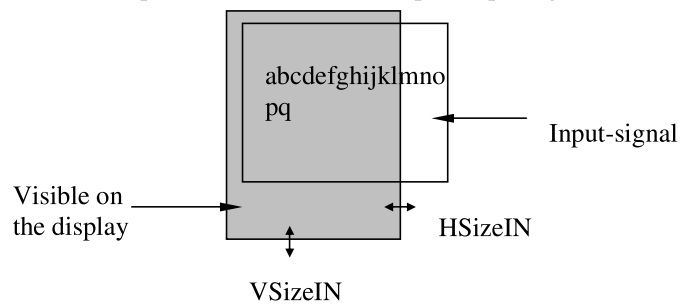
to mirror the picture horizontally

ON – mirrored picture

OFF – normal picture

this setting stored immediately permanent

- HSizeIN
 - VSizeIN
- Size of the capture window for the sampled input signal



- Zoom (option)
go to the Zoom-Menu

4.5 Submenu Zoom

The Submenu Zoom is available through Submenu Picture -> Zoom.

In the Submenu Zoom you can adjust the Zoom between OFF(1:1) und Max(100%).

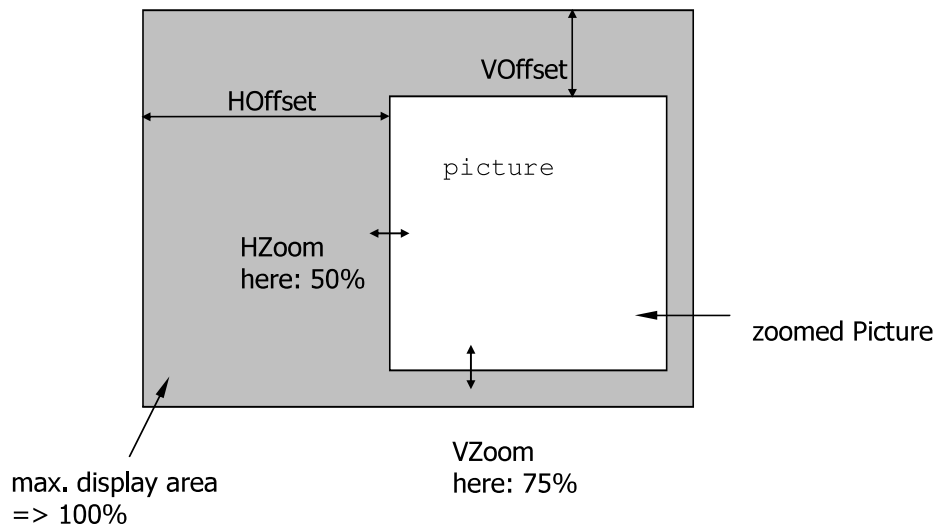
These settings change the picture only if the Expansion is USER.

These settings should be done after the successful picture adjustment.

With the buttons „Up“ or „Down“ and then „Enter“ you can select a function (adjust mode), and then with „Up“ and „Down“ change the setting. With „Enter“ you will leave the adjust mode.

The settings you have done should be saved in an Usermode (see Submenu Usermode), to be stored permanently.

- HZoom
- VZoom
percentage zoom value refer to the display area
default: 100%
- HOffset
- VOffset
position of the zoomed picture in the display area
default: Center



4.6 Submenu Advanced

The Submenu Advanced Special settings regarding in dependence on attached display be performed.

With the Keys „Up“ or „Down“ and then press the „Enter“- key will the desired function activated (Adjustment mode), they will then with the keys „Up“ and „Down“ be suspended. By pressing the Key „Enter“ leave this adjustment mode.

The parameter settings should be saved on adjustment mode (see submenu Usermodi).

- Edge HSync (option)

Settings of the active signal edge at HSync-Impulses
(the setting H-Center is relatively to this edge)

- Interlace (option)

Power up of Interlaced-modus for Interlaced-Timings
ON – aktived
OFF – normale timing

- Field (option)

representation sequence of the Fields with Interlaced-Timings
1.line Odd, 2.line Even, 3. line Odd or
1.line Even, 2.line Odd, 3.line Even

- Deinterlace (option)

This is the Deinterlacing-process selected:
1 - without filtering
2 – with spatial filtering
3 – with motion compensation filtering

- Sharpness (option)

With this you can the sharpness of the Interpolation (picture expansion) in 3 steps select

- CRT-Replace (option)

ON - Expansion max of full size of display
OFF – Expansion max of 90% the full size of display

- OSD-Blend (option)

With this you can the transparency of the OSD select (by settings of the pictures helpfully), will not be saved, at the next start of the LCD the default value be used

- TIMING (option)

- Prefilter

Only at video options used

- Aperture

Only at video options used

- Video FRC

Only at video options used

Menu TFT4

