User Manual

SK-RGB-DVI-2

Table of Contents

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 device 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 device from the power source indicated on the marking label.

8. Never puncture any objects through the walls of the device. 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.

11. Do not expose the divice to direct sunlight

2 Setup

Connect the monitor to the converter.
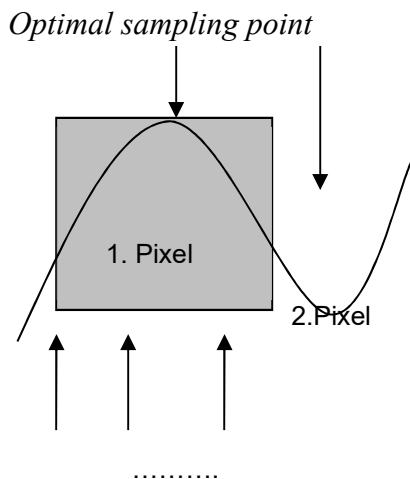
Connect the signal cable and power on the video source.

3 Function

The converter is driven by analog video signals (RGB) and control signals H/V-Sync.

Within the converter, the RGB signals are digitized via analog-to-digital (A/D) conversion to generate the drive signals for the TFT display.

Due to the A/D conversion, an additional adjustment is required compared to conventional monitors.

Adjusting the phase ensures optimal pixel sampling.

Optimal sampling point

1. Pixel

2.Pixel

………..

Possible phase setting for the first pixel

4 Operation

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

To adjust a new mode you can use the following procedure:
To activate the Menu push *„Menu"* and select the resolution
of the connected monitor in the menu *„Box".*

Set the monitor to the converter's signals (auto adjust, auto…)

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

1. adjust the screen image vertical.
2. Move the image horizontal until it fits on the 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

4.1 OSD Main menu

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

In the Menu you can choose Display, Usermode and Picture.

Select an entry by moving the bar with the „*Up*" and „*Down*" buttons.
By pressing the „*Enter*"- button you take the action.

The OSD vanishes, when you push „*Exit*" entry or „*Menu*"

Additionally the horizontal and vertical frequency and ,if already saved, the Usermode are displayed in the Main menu.

If the menu shows instead of the vertical or horizontal frequency:

No H-sync or No V-sync

No video signal is available.

In this case, please check the connection to the grafic source.

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)

4.3 Submenu Usermodi

In the Submenu Usermodi you can save the adjustments.

These Settings will be used, if the mode is recognized.

The current setting is marked with a star.

Select an entry by moving the bar with the „*Up*" and „*Down*"
buttons.
By pressing the „*Enter*"- button you take the action.

To save the adjustments select the „*save*" entry and push the
„*Enter*"-button.

To clear the adjustments choose the „*clear*" entry and push
the „*Enter*"-button.

All horizontally and vertically frequencies are set to"0"

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.
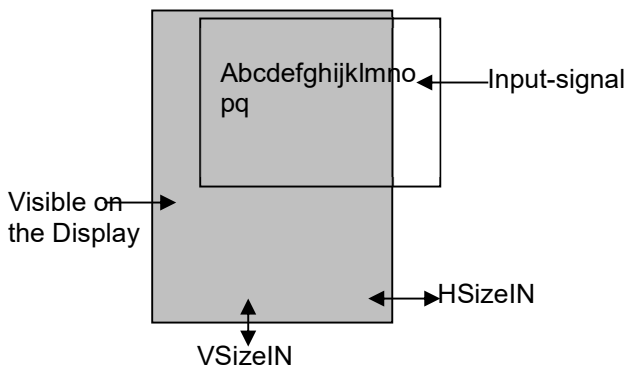
- Expansion

- 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 is stored immediately permanent

• HSizeIN
• VSizeIN

Size of the capture window for the sampled input signal

• Zoom (option)
go to submenu Zoom

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"* 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.
         • H-Zoom
         • V-Zoom
         percentage zoom value refer to the display area
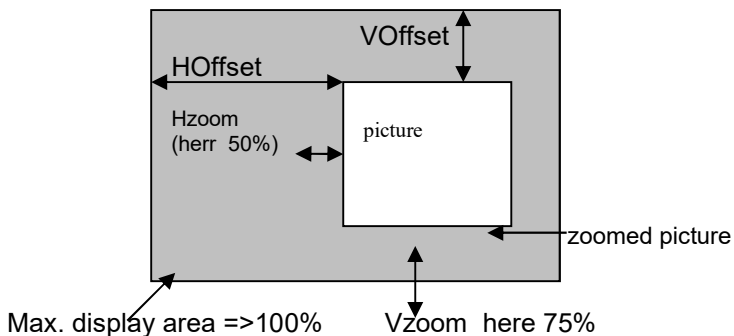   default: 100%
         • HOffset
         • VOffset
         position of the zoomed picture in the display area
         default: Center

VOffset

HOffset

Hzoom
(herr 50%)

picture

zoomed picture

Max. display area =>100%   Vzoom here 75%

4.6 Submenu Advanced

In the Advanced submenu, there are special setting options depending on the connected display.
With the *"Up"* or *"Down"* buttons and then pressing the *"Enter"* button, the required function will be activated (setting mode).
With the *"Up"* and *"Down"* the mode can be set.
With pressing the *"Enter"* key you exit the setting mode.

The set parameters should be saved in a user mode (see submenu User modes), so that they are permanently preserved.

- Edge HSync (Option) Setting the active signal edge of the HSync impulse
  (the H-Center setting is relative to this edge)

- Interlace (Option) Switch on the interlaced mode for interlaced timings
  ON - switched on
  OFF - normal timing

- Field (Option) View order of the fields for interlaced timings
  1st line Odd, 2nd line Even, 3rd line Odd .... or
  1st line Even, 2nd line Odd, 3rd line Even ....

- Deinterlace (Option) The deinterlacing process is selected here:
  1 - without filtering
  2 - with spatial filtering
  3 - with motion compensation filtering

- Sharpness (Option) This allows you to choose the sharpness in interpolation (image expansion) in 3 steps.

- CRT-Replace (Option) ON - Expansion Max to full screen size OFF – Expansion Max to 90% of the display size

- OSD-Blend (Option) Allows the transparency of the OSD to be set (helpful when adjusting the image). It is not saved, the next time the LCD is switched on, the default value set

- TIMING (Option)

  Prefilter
  Used only with video option.

  Aperture
  Used only with video option.

  Video FRC
  Used only with video option.

4.7 Submenu Box

The output resolution of the connected monitor can be
adjusted with Submenu Box:

- Resolution: selection:

- 640x480
- 800x600
- 1024x768
- 1366x768
- 1440x900
- 1280x1024
- 1680x1050

DDC: 1024x768 (Standardsetting)

- DCC Info:

Displays the data of the connected monitor, if DDC is assisted.