

# SunLight12X

SunLight12X

Full featured TFT-Display  
in XGA-Resolution 1024 x 768  
with Inputs for PC and Video and DVI  
and extreme bright Backlight

The Nickl SunLight12X is designed for the research and development of automobile manufacturers and those suppliers. It is able to display colour images within the whole range of graphics standards such as DOS text modes, VGA, SVGA, XGA, SXGA graphics and Video standards like NTSC, PAL and SECAM. As option a DVI input is available. All input resolutions smaller than 1024 x 768 dots can be expanded by an excellent image expanding technique which uses both, horizontal and vertical filtering.

Due to its high brightness of up to 800 cd/m<sup>2</sup> combined with its anti-glare coating and viewing angles of 80° in each direction it is best suitable for mobile applications. The wide supply voltage range 9 V...36 V of the internal galvanically decoupled power supply makes applications running with 12 V or 24 V possible. Also 28 V of aeroplanes can be applied to the power input.

## Applications

- Research and development of automobile applications
- TV broadcast
- Visualizing processes
- Monitoring

- **Brightness up to 800 cd/m<sup>2</sup>**
- **Wide supply voltage range 9..36V, galvanically insulated**
- **PC-Graphics and Video: PAL, NTSC and SECAM in S-Video and FBAS**
- **Two VGA input channels galvanically insulated, DVI and Touch optional**
- **Compact dimensions: (287 x 216 x 35) mm<sup>3</sup>**



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Elektronik-Entwicklung

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Displays are our  
business...

# SunLight12X

## Technical Data

Display	307.5 mm (12.1"), active area (245.76 mm x 184.32) mm <sup>2</sup>
Resolution	1024x768 pixels
Brightness	5...800 cd/m <sup>2</sup> , up-/down-keys, automatic adoption to environmental brightness
Optical characteristics	Contrast: 400:1, response time rising+falling: 40ms Viewing angle: (U/D/L/R): 80/80/80/80°
Technology	TFT-Stripe-RGB, 6-bit per colour (262k colours)
Video Inputs	2 x DOS Text, VGA 640x480, SVGA 800x600, XGA 1024x768, 56..85 Hz, RGB analogue, 0,7Vpp, DC-Restore, H- and V-Sync 1 x DVI single-link 1 x NTSC, PAL, SECAM as S-Video, 75 Ohm 1 x NTSC, PAL, SECAM as CVBS, 75 Ohm
Touch Panel	Resistive technology, integrated, optional
Power Supply	9..36 V, with galvanic de-coupling, polarity-save typ. 36 W at full brightness, power-off on loss of video signal
Connectors	1. 2 x PC graphics 15-pin HD D-Sub receptacle 2. DVI 3. S-Video Mini-DIN 4 4. CVBS BNC 5. Supply: 5-pin D-Sub Header 6. Touch panel: 9-pin D-Sub header optional
Case	Polystyrol black, further colours on request WxHxD w/o touch option: (287 x 216 x 35) mm <sup>3</sup>
Temperature Range	Operating: 0..+55 °C, storage -25..+60 °C
Mass	1595 g

## Accessories

- 1EMXTDH-x  
Holder for car and laboratories
- 1EZKA-HS15HS15-x-HQ  
Video signal cable with ferrite bead, L=1,5m, 2m,  
5m, 7m or 10m
- 1EZKA-DB9BAN5-x  
Cable for power supply with two banana plugs,  
L=2m or 7m
- 1EZPAS-DB5  
Power connector, D-Sub5 high-current, receptacle for  
soldering

## Order Codes

- 1EMSL12X-DT  
TFT-display, 12.1", SunLight12X, 1024x768, Vin=9..36V,  
~650cd/m<sup>2</sup>, multivideo standards, touch panel
- 1EMSL12X-T  
TFT-display, 12.1", SunLight12X, 1024x768, Vin=9..36V,  
~650cd/m<sup>2</sup>, multivideo standards, touch panel
- 1EMSL12X-D  
TFT-display, 12.1", SunLight12X, 1024x768, Vin=9..36V,  
800cd/m<sup>2</sup>, multivideo standards + DVI-input, particular
- 1EMSL12X  
TFT-display, 12.1", SunLight12X, 1024x768, Vin=9..36V,  
800cd/m<sup>2</sup>, multivideo standards, particular for mobile use  
- Further variants on request -

