

# RuggedLight8X

**New**  
RuggedLight8X

## Rugged 8,4" TFT-Display with XGA resolution and aluminium case with a lot of video inputs and extrem bright LED backlight

The RuggedLight8X is designed for research and development of automobile manufacturers and their suppliers. It is able to display colour images within the whole range of graphics standards such as DOS text modes, VGA, SVGA, XGA graphics and Video standards like NTSC, PAL and SECAM. Colour modulation can be either CVBS or S-Video. All input resolutions smaller than 1024 x 768 dots can be expanded optionally by an excellent image expanding technique which uses both, horizontal and vertical filtering. Bigger resolutions are rendered down to the native resolution of the TFT. Optional there is a touch panel available.

The anodized aluminium case of this Display makes it rugged. The attractive and ergonomic design is the base for a unobtrusive display in a test car.

Due to its high brightness of up to 1000 cd/m<sup>2</sup> combined with its anti-glare coating it is best suitable for mobile applications. The wide supply voltage range 9...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

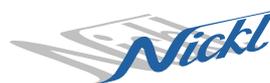
- Research and development of vehicles
- Process Visualisation
- Visualising of data when measuring environmental data by use of aeroplanes
- Supervisory

- brightness up to 1000cd/m<sup>2</sup>
- aluminium case
- DisplayPort++, DVI(HDMI), VGA, SVideo, FBAS Inputs
- compact dimensions and small case borders (215x162x43)mm<sup>3</sup>
- customised connector-variants
- touchscreen optional



8,4"  
1024x768  
1000cd/m<sup>2</sup>

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Elektronik-Entwicklung

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business...

# RuggedLight8X

## Technical Data

Display	213.12 mm (8.4"), active area (170.496 x 127.872) mm <sup>2</sup>
Resolution	1024 x 768 pixels
Brightness	5...1000 cd/m <sup>2</sup> , up-/down-keys, automatic adoption to environmental brightness
Optical characteristics	Contrast: 600:1, response time rising 4ms falling: 12ms Viewing angle: (U/D/L/R): 80/60/80/80°
Technology	TFT-Stripe-RGB, 8-bit per colour (16.7M colours)
Video Inputs	DOS-Text@56..85Hz, stretched or centered VGA-SVGA@56..85Hz, stretched or centered XGA 1024x768@56..85Hz XGA+@56..85Hz shrank or cropped WXGA+..UXGA@56..72Hz shrank or cropped Video PAL, NTSC, SECAM, FBAS/CVBS, S-Video
Touch Panel	Resistive technology, integrated, optional, USB interface, drivers for Win98/ME®, WinNT®, Windows 2000®, WindowsXP®, Windows7® are available, approx. 20% lose of brightness
Power Supply	9..36 V, with galvanic de-coupling, polarity-save typ. 25 W at full brightness, power-off on loss of video signal
Connectors	DVI, DisplayPort, Mini-DIN 4, BNC, 5-pin D-Sub, Mini-USB
Case and Dimensions	aluminium, anodized, WxHxD (215 x 162 x 43) mm <sup>3</sup>
Temperature Range	operating: -30..+70°C, storage: -40..+70°C
Mass	1170(1310)g

## Accessories

- 1EMSL10XH-x  
Holder for car and laboratories
- 1EZKA-DB5BAN2-x  
Power supply cable with D-Sub-5 and banana plugs  
L=2m, 5m or 7m
- 1EZPAS-DB5  
Power connector, D-Sub5 receptacle for soldering

## Order Codes

- 1EMRL8X-T  
TFT-display, RuggedLight8X, 8.4", 1024x768,  
1.000cd/m<sup>2</sup>, DVI-I/VGA & CVBS & S-Video, DisplayPort
- 1EMRL8X  
TFT-display, RuggedLight8X, 8.4", 1024x768,  
1.000cd/m<sup>2</sup>, DVI-I/VGA & CVBS & S-Video, DisplayPort
- 1EMRL8X-DP++  
8,4", 1024x768, 1.000cd/m<sup>2</sup>, DP++/DVI-I/VGA/CVBS/SVIDEO, 9..36V
- 1EMRL8X-DP++T  
8,4", 1024x768, 1.000cd/m<sup>2</sup>, DP++/DVI-I/VGA/CVBS/SVIDEO, 9..36V, touch  
- Further variants on request -

