RuggedLight15FHD

Full-HD 15.6" TFT display
with Picture-in-Picture function, DisplayPort, DVI-I / VGA, HDMI inputs

The RuggedLight15FHD is specifically designed for high demands in research and development inside vehicles. This is a 1920x1080 pixels high resolution and high brightness computer display with a robust aluminum housing, e.g. for mobile measurement, visualization and control device parameterization. Optionally, a PCAP touch screen can be integrated with a USB interface - with modern operating systems this is a multi-touch capable input device.
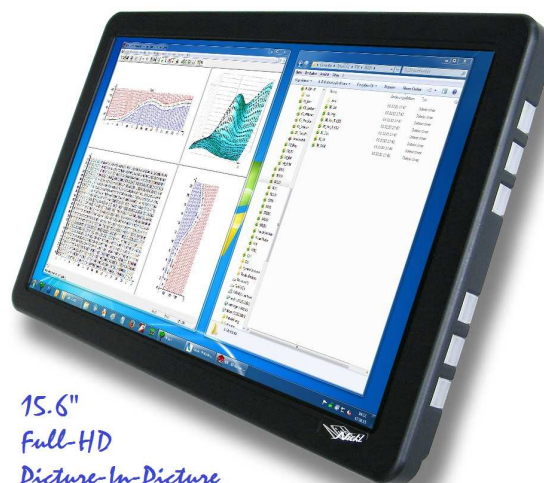
Thanks to the "premium high resolution" graphics processor in the special electronics from our own development and production, special features such as Picture-in-Picture and Picture-by-Picture functionality are possible for two simultaneously image input signals. With inputs for DisplayPort & DVI-I / VGA & HDMI signals, there are a variety of connectivity options.

The non-reflecting surface, the wide viewing angle and high brightness TFT panel in a compact, black anodized aluminum housing and a supply range of 9..36VDC with galvanic isolation guarantee best results in test vehicles.

- Full-HD 1920x1080 resolution @ 15.6"
- Picture-In-Picture & Picture-By-Picture
- DisplayPort DP 1.2, DVI-I/VGA, HDMI 1.4
- optional PCAP-touchscreen
- compact aluminium housing (389x238x39)mm³
- Ball joint, Alupyramide, VESA 50 o. 75 holder possible

15.6"
Full-HD
Picture-In-Picture
PCAP-Touch Option

applications:
- Mobile measuring equipment or control device parameterization in test vehicles
- Process visualization or monitoring functions
- TV studio and live broadcasts in the OB van
- airborne collection and control of earth and environmental data

Displays are our business...

RuggedLight15FHD

Display	396mm (15.6"), active area (344 x 194)mm², 16:9
Resolution	1920 x 1080 pixels
Brightness	typ. 5..600cd/m², HB-variant: typ. 15..1100cd/m² (with PCAP-touch each approx. 15% reduced)
Optical characteristics	Contrast: typ. 800:1, response time rising+falling: typ. 30ms Viewing angle (O/U/L/R): typ. 80/65/80/80°
Technology	TFT-Stripe-RGB, 8-bit per colour (16,7M colours)
Signal processing	DOS-Text@50..85Hz, zoomed and centered VGA..@50..85Hz, zoomed and centered FHD 1920x1080@50..85Hz ..WUXGA@50..85Hz shrinked Picture-In-Picture & Picture-By-Picture function for two selectable image input signals
Touch Panel	optional, integrated, PCAP-technologie, MiniUSB-interface, HID-conformal device for Multitouch-capable OS as e.g. Windows7®/Windows8®, brightness red. <20%
Power Supply	9..36 VDC, galvanically decoupled, reverse polarity protected typ. 20 W (HB: typ. 33W) at full brightness, typ. 0.6W in Deep Sleep / no video signal or Off, typ. 2 mA @ 12VDC leakage at shutdown signal
Connectors	DisplayPort, HDMI, DVI-I (VGA via adaptercable), D-Sub5 (Power), Mini-USB (Touch)
Case and Dimensions	Aluminum, black anodized, peripherally rounded WxHxD: (389 x 238 x 39) mm³ central mounting by solid ball joint, aluminum pyramid, VESA 50 or VESA 75
Temperature Ranges	operation: non-Touch-variant: typ. -30..+70 °C, Touch-variant: typ. -10..+50°C, HB-variant: typ. -30..+50°C, storage: typ. -40..+70 °C
Mass (touch variant)	1980g (2410)g

1EYCBSH-0905
Massive ball joint for a direct fixing at the RL15FHD

1EYCH-MP1
Aluminium pyramid for fixing to the ball joint, for surface and pipe mounting without accessories

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 (rec. minimal accessories for power supply)

1EMRL15FHD-T-HB
RL15FHD-T-HB, 15.6", 1920x1080, typ. 1.000cd/m², DisplayPort&DVI-I/VGA&HDMI, PIP&PBP, PCAP-touch

1EMRL15FHD-T
RL15FHD-T, 15.6", 1920x1080, typ. 550cd/m², DisplayPort&DVI-I/VGA&HDMI, PIP&PBP, PCAP-touch

1EMRL15FHD-HB
RL15FHD-HB, 15.6", 1920x1080, typ. 1.100cd/m², DisplayPort&DVI-I/VGA&HDMI, PIP&PBP, black alumin.

1EMRL15FHD
RL15FHD, 15.6", 1920x1080, typ. 600cd/m², DisplayPort&DVI-I/VGA&HDMI, PIP&PBP, black alumin.

- Further variants on request -

Nickl
Elektronik-Entwicklung
www.nickl.de

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