

ImageHub30

New
ImageHub30

ImageHub30 puts PC-Graphics and Video to integrated dashboard displays of various vehicles by utilizing the ImageCutter30

Together with the Nickl ImageCutter30, the ImageHub30 is able to put images to the dashboard display of various vehicles. The ImageHub30 gets its signal from the ImageCutter, which has already tailored the signal timing to the needs of the specific car interface. The ImageHub30 does the physical adaption. For safety purposes, the original image can be displayed alternatively. E.g. safety-relevant information can be displayed at critical situations.

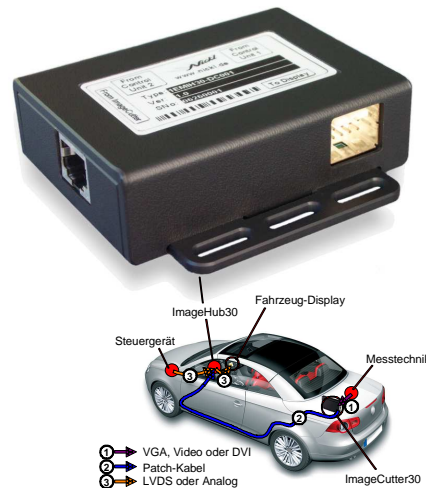
The supply of the very compact Nickl ImageHub30 comes from the ImageCutter30, easing the integration into the target car.

Transmission of the signals between the ImageCutter and the ImageHub is done via standard patch cables known from the network technique. By AC coupling, a DC decoupling of the ImageCutter and ImageHub is achieved, allowing potential differences which may be present between the front and the rear area of the wiring harness.

Applications:

- Displaying measurement data in testing vehicles
- Developing new man-machine interfaces
- Building concept cars with exotic TFTs

- Adaption to interfaces of various vehicles
- Flexible mounting due to small dimensions
- Multiplexing between original image and PC/Video image
- DC De-coupling of ImageHub30 and ImageCutter30
- Obtains supply from ImageCutter30



ImageHub30

bnireal Data

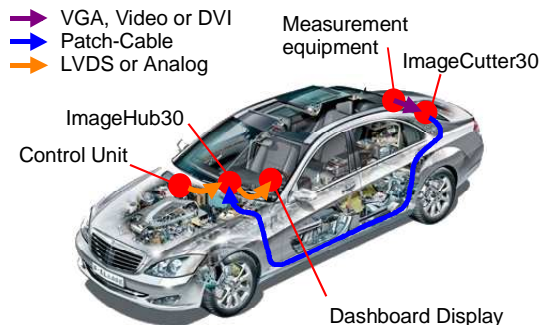
Common Properties	Can receive data from ImageCutter30 via a network patch cable
Output Multiplexer	Output selectable selects between ImageCutter30 image and Control Unit Image. One additional control unit input at 1EMIH30-DC001.
Properties 1EMIH30-ANA001	RGB-Output 0,7Vpp Signal, G with SyncOnGreen 1,0Vpp HS, VS, CSync, pixel clock output Configurations: SyncOnGreen on/off, CSync pulse width, CSync subpixel delay, Polarity for Clock, CSync, HS, VS Connector: Header 2.54mm 10-pin for analog in and out
Properties 1EMIH30-BMW001	LVDS output DC-coupled Configurations: Clock doubling, Polarity for ClockInData, Data mapping BMW-RGB 565 or BMW-3x6bit Connector: Header 2.54mm 10-pin for LVDS-In and LVDS-Out
Properties 1EMIH30-DC001	LVDS output AC-coupled Connectors: Tyco DC part #: A0485456928 for LVDS-Out and 2x LVDS-In
Dimensions B x H x T	ImageHub30-ANA001: (84x80x24)mm ³
Case	Polystyrol, schwarz
Operating temperature	0..+60 °C
Storage temperature	-25..+60 °C
Mass	ca. 75 g
Supported vehicles	see http://www.nickl.de/Products/CarlImage/lh30/CompatList_uk.htm

Accessories

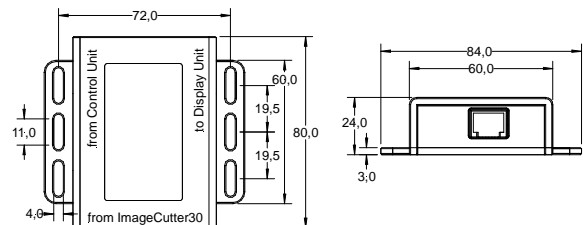
- 1EZKA-2xRJ45S-x-BLU
Cable, Patch, 2 x RJ45 plug with buckling protection, Cat.5, blue, L=1, 2, 5, 7 and 10 m
- 1EZKA-PFB10PFB10-x
Cable for connection of control unit or dashboard display, round, 1:1 mapping, 2x 10pol. Receptacles

List of options

- 1EMIH30-AUDIO01
ImageHub30 for AUDI, i.e. A6/C6 (MMI: 7.0"/400x240 oder 7.0"/800x480), 1x 2-wire LVDS-input, 1x 2-wire
- 1EMIH30-BMW002
ImageHub30 for BMW, i.e. F01/7series successor (CID/8.8"o.10.25"/1280x480), 1x 2-wire LVDS-input, 1x
- 1EMIH30-ANA001
ImageHub30 for analoge interfaces, i.e. Astra H/Zafira B (Navi o. TV/6.5"/400x234) and Corsa D/Signum/Vectra
- 1EMIH30-DC001
ImageHub30 for DaimlerChrysler, i.e. W221 (Combi Instr./8.0"/800x400 + Head Unit/8.0"/800x480), 1x
- 1EMIH30-DC002
ImageHub30 for Daimler W221 Headrest display (800x400), 1x LVDS output, 1x LVDS input
- Further variants on request -



Example of System



Standard case design
Design depends on type of vehicle

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Elektronik-Entwicklung

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