ImageCutter30

ImageCutter30 and ImageHub30 put PC-Graphics and Video to integrated Dashboard Displays

In order to put images to an integrated dashboard display, the Nickl ImageCutter30 tailors the image geometries and timings to fit the needs of the dashboard display. This signal can then be put to the display interface via the Nickl ImageHub which is especially adapted to the target vehicle. The image can be zoomed, shrank cropped or expanded to the target resolution. For example, a PC signal of 1024 x 768 dots can be cropped to 800x480 dots thus achieving a pixel-by-pixel mapping.
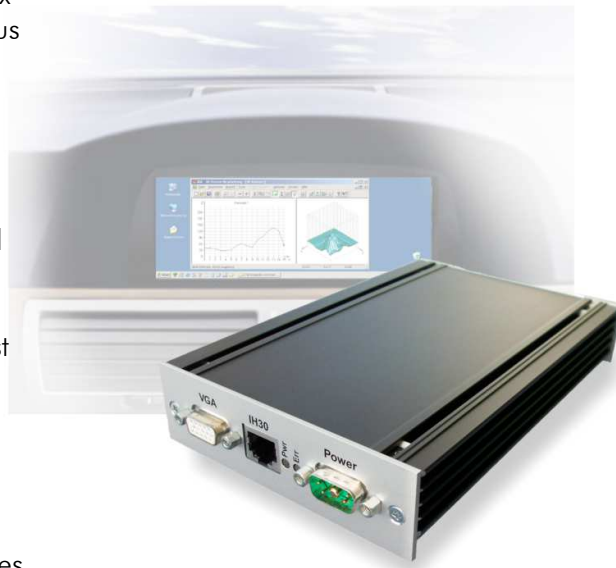
The tailored signal is routed via a standard Ethernet patch cable from the ImageCutter to the ImageHub. This is done via AC coupling technique allowing DC isolation of the ground nodes.

The Nickl ImageCutter30 is housed in a robust aluminium case.

Applications:
    Displaying measurement data in R&D vehicles
    Developping new Man-Machine-Interfaces
    Building concept cars with exotic TFT formats

- Generates output timing for dashboard display
- Input up to SXGA@85 Hz analog, DVI or Video
- Wide supply range 9..36VDC, polarity-protected
- Adaption to vehicle interface via ImageHub30

Displays are our business...

ImageCutter30

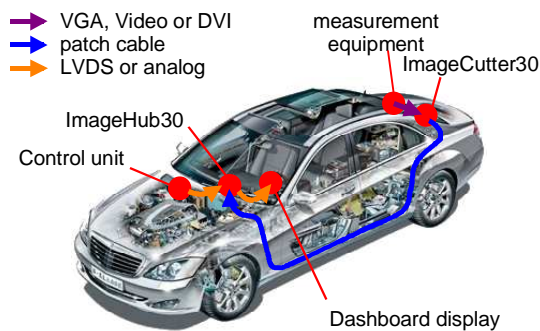|	
Video Inputs	VGA and DVI: DOS-Text, VGA, SVGA, XGA, SXGA @ 56..85 Hz Video: PAL, NTSC, SECAM as YC or FBAS, depending on variant
Output Timings	Self configuring at boot-up with data held in the ImageHub30
Output Signal	LVDS single-pair, AC-coupled, up to 30MHz dot clock, supply and communication interfece for ImageHub30
Connectors	1. VGA 15-pin HD D-Sub receptacle (all variants) 2. DVI receptacle (only 1EMIC30-CD) 3. Video FBAS BNC (only 1EMIC30-C & -CD *1) 4. S-Video Mini-DIN 4 (only 1EMIC30-S *1) 5. Supply: 5-pin D-Sub header 6. Output to ImageHub30
Power Supply	9..36 V galvanically de-coupled, polarity save
Dimensions	(171 x 111 x 32) mm^3 w/o connectors
Case	Aluminium profile, black anodized, front panels silver anodized
Operating temperature	0..+55 °C
Storage temperature	-25..+60 °C
Mass	530 g
	*1) not for all types of vehicles

Accessories

1EZKA-HS15HS15-x-HQ
Video signal cable with ferrite bead, L=1,5m, 2m, 5m, 7m or 10m

1EZKA-DB5BAN2-x
Power supply cable with D-Sub-5 and banana plugs L=2m, 5m or 7m

1EZKA-2xRJ45S-x-BLU
Cable, Patch, 2 x RJ45 plug with buckling protection, Cat.5, blue, L=1, 2, 5, 7 and 10 m

Order Codes

1EMIC30-CD
ImageCutter30 with DVI, VGA and CVBS video input, up to 30 MHz dot clock

- Further variants on request -

→ VGA, Video or DVI
→ patch cable
→ LVDS or analog

measurement equipment
ImageCutter30
ImageHub30
Control unit
Dashboard display

Example of a system with ImageCutter

171,0
32,1
111,4
86,9
S-Video or FBAS
DVI (optional)
RS-232
shiftable nuts M2,5
VGA
ImageHub30
Power
VGA
IH30
Pwr
Err
Power

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