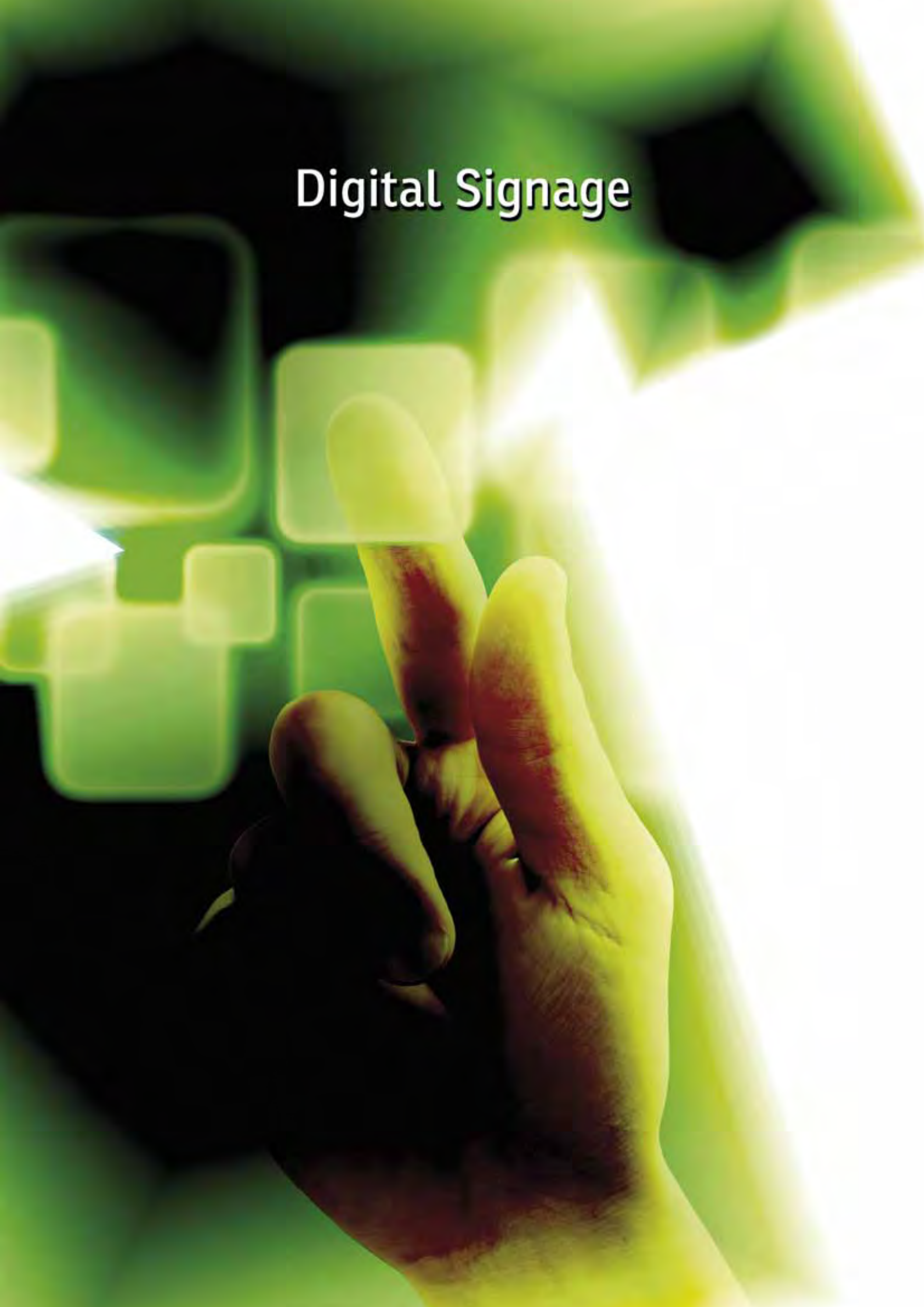


Digital Signage



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Customer Reference: Arno



About the company: Arno

The ARNO Group is an international, third generation owner-run company specialised in creating the in-store shopping experience – retail interiors, shop in shop, displays and interactive systems.

ARNO's full service concept assists and supports global brands and their retail operations from design concept to prototyping and production onto effective in store implementation.

The POP is the consumer's direct point of contact with the brand. Here ARNO creates the brand experience which sells the product.

Active elements are required in order to win over the customers at the POP. Emotional, targeted interaction with the consumer makes the difference.

In addition to future-oriented design, interactive systems, which engage the customer with the brand, are the trend at the POP.

Everything from one source, ARNO provides the complete package: soft- and hardware, furniture and after sales service.

Canvys' Display Solutions for Arno

Canvys develops and supplies Arno with a wide range of customized display solutions making them ideal partners. Every application gets the right cost sensitive monitor.

Canvys is able, based on projects, to deliver various display sizes from 7" up to 52".

As a customized solution partner Arno integrates most of the Canvys screens as an Open Frame Monitor. This allows Arno to focus on the shop design.



Winner of the Bronze POPAI Europe-Award 2010 in the category "Digital Media Solution"



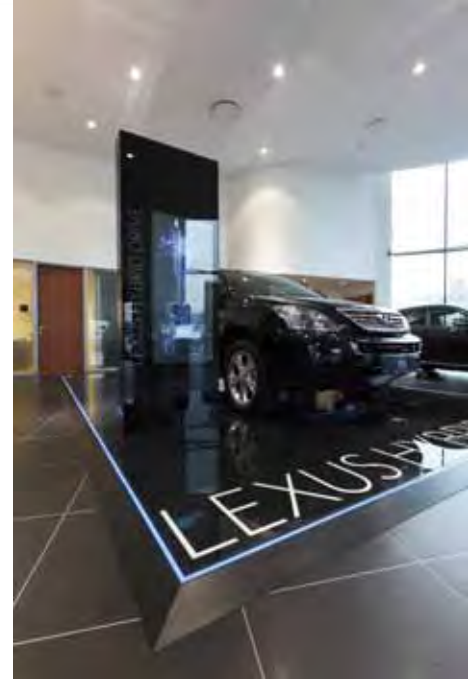
SKY

To support the launch of the SKY pay TV provider, a new shop in shop system was developed, manufactured and delivered over a thousand times in Germany and Austria.

It features screens and interactive elements which communicate the philosophy of the new program structure.

Bauerfeind

Bauerfeind BODYTRONIC® measurement system determines via a 3D model, the shape, circumferences and length of each leg and the digital footprint to provide a perfectly matching of running shoes, sport insoles and sport compression socks. The high quality shop in shop developed and produced for worldwide Bauerfeind flagship stores as well as for special trade retailers in Germany (e.g. Intersport) features digital media components such as LCD screens.



Winner of the Gold POPAI Europe-Award 2010 in the category "Automotive"



Lexus

The interactive shop in shop system was developed to support the introduction of Lexus' groundbreaking Hybrid Drive system "HDS". The shop in shop spotlights Lexus' dual power delivery systems and regenerative braking as well as explaining visually and intuitively their advanced systems.

The virtual reality demo involves an interactive movie screen, which can be updated by a flash-card, graphics for the entrance drum and a HDS screen in the selections area.



Customer Reference: Citron



About the company: Citron GmbH

With almost 20 years of experience in developing and manufacturing infrared single and dual point touch screens **Citron GmbH** has extended its portfolio to the new type of infrared multi touch called dreaMTouch®.

This innovative kind of input system reliably detects and tracks up to 32 touch points. In opposite to other available systems there is no calibration required. The dreaMTouch® can be operated in any mounting position without drift or re-calibration. Although any kind of surface is possible the standard dreaMTouch® is delivered with a non reflecting, smooth 4 mm laminated security glass window.

Any size from 24" up to 82" can be realised in customer projects. Standard sizes of 24", 32", 46" and 65" are available as well.

In addition **Citron GmbH** develops and manufactures special display solutions for industrial, medical or military applications.

Canvys' Display Solutions for Citron GmbH

For optimum integration with dreaMTouch® overlays a long term availability chassis with easy integration options is required.

The Canvys CP Series is available without a front cover. It offers internal 24 V power supply and a mounting place for an USB-B connector. Furthermore it is qualified for wall and table mounting positions.

This makes the Canvys CP Series an ideal base chassis for the dreaMTouch® of Citron.

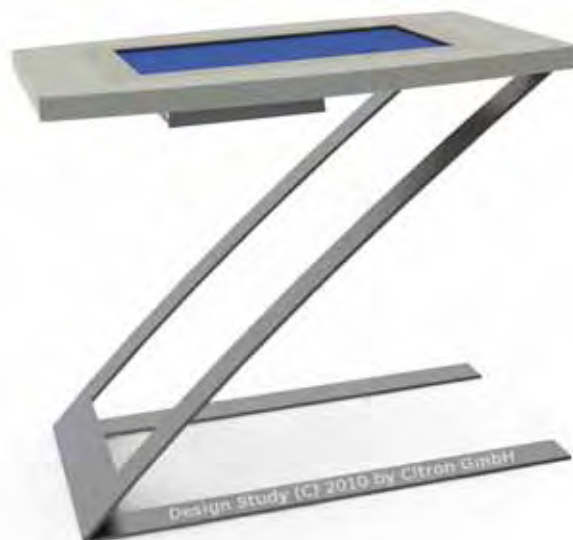


Canvys Integrated
multi touch

Canvys CP Series customized with Citron multi touch front bezel



Bottom view of Canvys CP Series with connector panel, customized with Citron multi touch front bezel



Touch Table - Design Study © 2010 by Citron

CUSTOMER REFERENCE

Highly Configurable Compact Panel Solutions

- PC/Media Player integration
- Serial OSD - monitoring and controlling
- 24/7 h applications
- Glass / touch integration
- Sunlight readable



Canvys offers their high quality CP (compact panel) product line in 26", 32", 42" and 52".

Canvys **CP Series** stand for *robustness, long-life cycle and reliability*.

All versions (besides 26") have an integrated "user platform" on the rear side. This enables the customers to integrate e.g. PC/media player or other own solutions. These robust displays are manufactured in Germany with high quality components and long availability.

Configure your own CP display for your needs!

FEATURES



PC/Media Player Integration

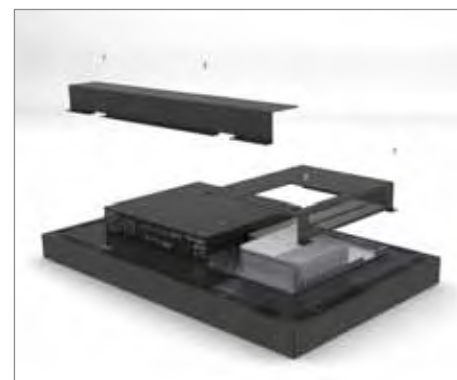
The **CP Series** enables the customer to integrate a PC or a Media Player.

Canvys provides a standard solution which will fit for mini PC's: DE45/DE57, Apple Mac, Fujitsu-Siemens Esprimo and Media Player: EYEZONE 1080P.

Due to a flexible basis plate all mentioned standard devices can be integrated very easily. The device, also the cables will be hidden behind cover sheets (PC cover sheet and cable channel) for a clean and attractive solution (see pictures).



32", backside, w/o option PC integration



32", backside, w/ PC mounted on basis plate, w/o mounted cover sheets (PC cover and cable channel)



32", backside, w/ PC mounted on basis plate, w/ mounted PC cover sheet



32", backside, w/ option PC integration

Solutions with Canvys CP Series

Serial OSD

Customers who already purchased the Canvys **LI Series** in the past know the reliable graphics controller (CRTtoLCD) which is now integrated in the **CP Series** too. Canvys is able to realize for its customers their own boot-logos, sensors and many different interfaces.

The displays can be monitored and controlled completely through a serial interface (RS232).

Customers can integrate the LCDs into a network by connecting them with a PC. Backlights and temperature can be controlled remotely.

24/7 h Usage

With the 24/7 h engineering approach and it's high quality metal case, the **CP Series** is the best solution for *POS / POI, industrial, transportation and digital signage applications.*

Glass/Touch Integration

The **CP Series** is available with protection glass for a rugged environment. For touch applications, Canvys integrates 3M's Surface Capacitive Touch technology (SCT) or Dispersive Signal Technology (DST), for a precise and accurate touch (others on request).



Example for a customized solution: stainless steel housing

Sunlight Readable

By integration of a rugged bonded glass the display is readable under sunlight. The bonded glass enables a solution that highly reduces internal light reflections and refractions, maximizing the clarity of the display. The bonding process improves also the robustness of the display surface.

Horizontal Usage

Due to regulable fans a overheat control is guaranteed. The horizontal usage is ideal for integration in gaming tables or marine applications.



Option: VESA adapter flexible mounting system VESA 200, many different mounting holes also for Rittal ceiling mount



CP series w/ mounted VESA adapter - rear view -



CP series w/ mounted VESA adapter - side view - Adapter position angular (8.5° max), possible to lock (anti-theft-protection)

CP Series Technical Data – 26" / 32"

26"

32"



| Series | Canvys CP Series | | |
|---|--|--|--------------------|
| Model / Type | PD-CP26CM | PD-CP32AU *** | PD-CP32AH |
| Size | 26" / 65.0 cm | 32" / 81.3 cm | 32" / 81.3 cm |
| Active area (H × V) | 554.1 × 347.8 mm | 697.7 × 392.3 mm | 698.4 × 392.9 mm |
| Resolution | 1920 × 1200 / WUXGA | 1366 × 768 / WXGA | 1920 × 1080 / HDTV |
| Pixel pitch | 0.287 mm | 0.511 mm | 0.364 mm |
| Display colours | 16.7 M | | |
| Brightness | 350 cd/m ² w/o touch | 450 cd/m ² w/o touch | |
| Contrast ratio | 1500:1 typ. | 2500:1 typ. | 5000:1 typ. |
| Response time | 8 ms typ. | 6.5 ms typ. | |
| Viewing angle (H × V) | 176° / 176° (CR=10) | 178° / 178° (CR=10) | |
| I/O ports | D-Sub 15 pin (analog), DVI-D optional: Video & S-video | | |
| Power consumption | approx. 150 W | approx. 170 W | |
| MTBF backlight | 40,000 h | 50,000 h | |
| Dimensions (W × H × D) chassis version | 594.0 × 388.0 × 116.0 mm | 775.0 × 465.0 × 108.0 mm (chassis w/o VESA adapter) | |
| Weight LCD (with front bezel) / VESA adapter | 15.5 | approx. 22.3 kg / approx. 7.8 kg | |
| Operating temperature | 0 °C to +40 °C | 0 °C to +35 °C | |
| Storage temperature | -20 °C to +60 °C | | |
| Misc | Landscape mode, portrait mode panel on request; additional 12 VDC output, PC integration only available on project base VESA 75/100 | Landscape mode, Portrait mode panel on request; additional 12 VDC output | |
| Housing material | Steel in RAL9005, fine structure | | |
| Approval | CE, EN 61000-6-3/6-1, 60950-1 | | |
| Mounting | Mounting holes (M4) on side and rear cover | | |
| Power input; power supply approvals | 110 - 230 VAC; safety regulations: UL60950-1/ 60601-1, CSA, CE, TUV EN60950-1/ 60601-1 | | |
| Options | <ul style="list-style-type: none"> Housing (chassis and front bezel) in customized colours and structure Chassis version 3M surface capacitive touch screen, ohters on request Protection glass Sunlight readable panel (bonded) on request Different inputs Sound (on request) Remote control Web interface (on request) | <ul style="list-style-type: none"> Housing (chassis and front bezel) in customized colours and structure Chassis version Different touch screen: 3M Surface Capacitive Touch, DST, Projective Capacitive (on request), Multitouch for 32" and 42" (on request) Protection glass Sunlight readable panel (bonded) Different inputs Sound (on request) Remote control Individual PC/Media Player integration VESA adapter with VESA 200; 8.5 degree tiltable, possibility to lock (security); different mounting holes, also for Rittal® Web interface (on request) | |
| Features | <ul style="list-style-type: none"> Glass and touch integration possible High quality displays made in Germany Flexible Kontron controller 2x OSD, on side and back OSD RS232C serial interface Complete monitoring and controlling (also from afar) Silent fan Ideal for desktop applications 24/7h usage | <ul style="list-style-type: none"> Glass and touch integration possible High quality displays made in Germany Flexible Kontron controller OSD RS232C serial interface Complete monitoring and controlling (also from afar) Horizontal usage Ideal for Digital Signage and industrial applications Mounting solution for PC/Media Player Clean and attractive solution 24/7 h usage | |

*** PD-CP32AU available only on project basis!



42" 52"

CP Series Technical Data – 42" / 52"

DATA SHEET

| Series | Canvys CP Series | |
|--|--|---|
| Model / Type | PD-CP42AU | PD-CP52 |
| Size | 42" / 106.7 cm | 52" / 132.1 cm |
| Active area (H × V) | 930.2 × 523.3 mm | 1152.0 × 648.0 mm |
| Resolution | 1920 × 1080 / HDTV | |
| Pixel pitch | 0.485 mm | 0.600 mm |
| Display colours | 16.7 M | |
| Brightness | 700 cd/m ² w/o touch | 600 cd/m ² w/o touch |
| Contrast ratio | 3500:1 typ. | 1700:1 typ. |
| Response time | 6.5 ms typ. | 8 ms typ. |
| Viewing angle (H × V) | 178° / 178° (CR=10) | |
| I/O ports | D-Sub 15 pin (analog), DVI-D optional: Video & S-video | D-Sub 15 pin (analog), DVI-D Video & S-video |
| Power consumption | approx. 270 W | approx. 400 W |
| MTBF backlight | 60,000 h | 50,000 h |
| Dimensions (W × H × D) chassis version | 998.0 × 591.0 × 113.4 mm | 1226.0 × 720.0 × 131.0 mm (front version w/o VESA adapter) |
| Weight LCD (with front bezel) / VESA adapter | approx. 34.4 kg / approx. 7.8 kg | 55.0 kg (incl. touch) / approx. 7.8 kg |
| Operating temperature | 0 °C to +35 °C | |
| Storage temperature | -20 °C to +60 °C | |
| Misc | Landscape and portrait mode; additional 12 VDC output | Landscape and Portrait mode, Hand holds, IR sensor on request, HDMI on request, additional 12VDC output |
| Housing material | Steel in RAL9005, fine structure | |
| Approval | CE, EN 61000-6-3/6-1, 60950-1 | |
| Mounting | Mounting holes (M4) on side and rear cover | |
| Power input; power supply approvals | 110 - 230 VAC; safety regulations: UL60950-1/ 60601-1, CSA, CE, TUV EN60950-1/ 60601-1 | |
| Options | <ul style="list-style-type: none"> • Housing (chassis and front bezel) in customized colours and structure • Chassis version • Different touch screen, DST for 42", Multitouch for 32" and 42" on request, Protective capacitive touch for 52" • Protection glass • Sunlight readable panel (bonded) • Different inputs • Sound (on request) • Remote control • Individual PC/Media Player integration • VESA adapter with VESA 200; 8.5 degree tiltable, possibility to lock (security); different mounting holes, also for Rittal® • Web interface (on request) | |
| Features | <ul style="list-style-type: none"> • Glass and touch integration possible • High quality displays made in Germany • Flexible Kontron controller • OSD RS232C serial interface • Complete monitoring and controlling (also from afar) • Horizontal usage • Ideal for Digital Signage and industrial applications • Mounting solution for PC/Media Player • Clean and attractive solution • 24/7 h usage | |

Open Frame Solutions

26"

32"

42"



32" open frame

| Series | Open Frame for Integration | | Monitor for Integration |
|------------------------|---|---|--|
| | Model / Type | LK-BE26AU | LK-BE32AU |
| Size | 26" / 66 cm | 32" / 80.1 cm | 42" / 106.7 cm |
| Active area (H × V) | 575.8 × 323.7 mm | 698.4 × 392.9 mm | 930.2 × 523.3 mm |
| Resolution | 1366 × 768 / WXGA | 1920 × 1080 / HDTV | |
| Pixel pitch | 0.422 mm | 0.363 mm | tbd. |
| Display colours | 16.7 M | | |
| Brightness | 420 cd/m ² w/o integration | 450 cd/m ² w/o integration | |
| Contrast ratio | 3000:1 | 5000:1 | |
| Response time | 6.5 ms typ. | | |
| Viewing angle (H / V) | 178° / 178° (CR=10) | | 176° / 176° (CR=10) |
| I/O ports | D-Sub 15pin (analog) others on request | | D-Sub 15pin (analog), HDMI ×2 |
| Power consumption | approx. 152 W | approx. 90 W | approx. 201 W |
| MTBF backlight | 50,000 h | | |
| Dimensions (W × H × D) | 655.4 × 402.4 × 105.2 mm | 770.8 × 460.8 × 96.9 mm | 1025.0 × 643.4 × 135.4 mm |
| Weight | approx. 14.0 kg | approx. 16.0 kg | approx. 30.0 kg |
| Operating temperature | 0 °C to +40 °C | | +5 °C to +40 °C |
| Storage temperature | -20 °C to +60 °C | | |
| Options* | surface capacitive touch, others on request | | optical touch screen, others on request |
| Misc. | OSD on backside | | OSD on side; RJ45 In/Out (RS232C In, RS-485In/Out); Audio out; Remote control; Light Sensor |
| Approval | CE, RoHS | | |
| Mounting | removable mounting brackets VESA 100 | removable mounting brackets VESA 200 | mounting brackets up and downw/ VESA 400 × 200 |
| Power input | 90 - 264 V AC | 100 - 240 V AC | |
| Features | <ul style="list-style-type: none"> • Brilliant picture quality • Touch integration possible • Easy chassis, attractive price • Audio (on request) • Pls ask for further sizes for your needs | | |
| Options* | <ul style="list-style-type: none"> • Touch screen • Protection glass • Portrait panel • Different inputs • Speaker • Full customization in eg. chassis size, material, colours | | |

Open Frame Solutions with Media Player **18.5"** **21.5"**



MV18EHAXC02XXX front view



MV18EHAXC02XXX integrated media player and interfaces

DATA SHEET

| Model / Type | MV18EHAXC02XXX | MV21EFAXC02XXX |
|---------------------------------|--|---------------------------|
| Size | 18.5" / 46.9 cm | 21.5" / 54.7 cm |
| Active area (H × V) | 409.8 × 230.4 mm | 476.64 × 268.11 mm |
| Resolution | 1366 × 768 / WXGA (16:9) | 1920 × 1080 / HDTV (16:9) |
| Display colours | 16.7 M | |
| Brightness | 300 cd/m ² w/o touch | |
| Contrast ratio | 1000:1 typ. | |
| Viewing angle (H / V) | 170° / 160° (CR=10) | |
| I/O ports | D-Sub 15 pin (analog), DVI-D 24+1pin (digital), Video | |
| Power consumption | 32 W max. | tbd. |
| MTBF backlight | 50,000 h (typ.) | |
| Dimensions (W × H × D) | 440.0 × 257.0 × 49.0 mm | tbd. |
| Weight (with front bezel) | approx. 6.0 kg | tbd. |
| Operating / Storage temperature | +5 °C to +35 °C / -10 °C to +60 °C | |
| Options | Integrated media player, protection shield, LED panel, others on request | |
| Misc. | Audio out | |
| Approval | CE, RoHS | |
| Mounting | VESA 75 mounting brackets (removable) | |
| Input | DC 12 V | |

| Besides stand alone media players (see page 54) Canvys offers integrated Media Player solutions | | |
|---|---|---|
| | Low-end | High-end |
| Physical input connectors | USB, CF (SD/SDHC) | RJ45 Ethernet, USB, CF |
| Physical output connectors | CVBS (AV/composite connector) | HDMI 1.3a (Full-HD 1080p with audio) D-sub VGA connector 3.5 mm combined analog A/V out |
| Resolution support | MPEG-1/MPEG-2/MPEG-4 support to 720 × 576 RM, RMVB support to 1024 × 768 MOV / MP4 support to 640 × 480 | VGA support to 1920 × 1200 (max.) HDMI support to Full-HD 1080p with audio |
| Video format support | RM, AVI, MP4, MPEG, ... | S6-S12, E4-E8, ... |
| Image format support | JPG, BMP, GIF, PNG, ... | S1-S3, E1-E3, ... |
| Misc. | Built in infrared remote controller | Internal 2 GB NAND flash |
| Detailed spec on request. | | |

46" & 55" Industrial Ultra-Slim LED Backlight Displays

46"

55"



DATA SHEET

| Model / Type | | 46" PD-CL46LED-FNAZ | 55" PD-CL55LED-FNAZ |
|-------------------------------------|---------------------------------|--|--|
| LCD panel | Brightness | 450 cd/m ² typ. | |
| | Contrast ratio | 4000:1 | |
| | Viewing angle (H / V) | 178° / 178° | |
| | Response time | 5.5 ms (GTG) | |
| | Supported colours | 16.7 M | |
| | Display resolution | 1920 × 1080 (16:9) | |
| Signal compatibility / Connectivity | Horizontal / Vertical frequency | 30 ~ 80 KHz / 56 ~ 75 Hz | |
| | Connector | HDMI ×2 / VGA / Component / AV / S-V / Audio / DisplayPort / DVI(optional) | |
| | Communication port | D-Sub 9 Pin In, RJ45 In/Out (RS232C In, RS-485 In/Out) | |
| Mechanical | Dimensions w/o stand (W×H×D) | 1081.5 × 639.7 × 42.58 mm / 42.58" × 25.19" × 1.81" | 1272.4 × 743.2 × 46.1 mm / 50.09" × 29.26" × 1.81" |
| | Weight | Net: 23 kg / 50.71 lb; Gross: 28 kg / 61.73 lb | Net: 29 kg / 63.93 lb; Gross: 35 kg / 77.16 lb |
| | Wall / Arm mount type | 200 × 200 mm / 400 × 400 mm VESA | |
| Electrical | Power consumption | 228 W max. | 237 W max. |
| | Stand by consumption | 1 W | |
| Options | Touch | tbd. | |
| | Protective surface | tbd. | |
| | Openframe type | available | |
| | Accessories | Speaker; stands | |

The Canvys 46" & 55" Industrial Ultra Slim LED Displays represent the cutting edge of direct view LCD technology. It combines ultra high resolution and unparalleled image quality with configurable I/O in a large format display for a wide range of digital signage and control-room application.

With a power consumption of <1 W in standby Mode both models comply with the Energy Star 5.0 standard. Because your solution has to be right, Canvys offers innovative touch integration and to protect your investment in critical environments we have the possibility to integrate a protective shield.

Features

- Backlight LED
- High brightness 450 cd/m²
- High contrast Ratio 5000:1
- High resolution 1920 × 1080
- Energy Star 5.0

Large Screens 32" 42"



DATA SHEET

| Model / Type | | 32" PD-CL32-FNAZ | 42" PD-CL42-FNAZ |
|-------------------------------------|---------------------------------|--|---------------------------|
| LCD panel | Brightness | 480 cd/m ² | 450 cd/m ² |
| | Contrast ratio | 3000:1 | 5000:1 |
| | Viewing angle (H / V) | 176° / 176° | |
| | Response time | 6.5 ms (GTG) | |
| | Supported colours | 16.7 M | |
| | Display resolution | 1366 × 768 (16:9) | 1920 × 1080 (16:9) |
| Signal compatibility / Connectivity | Horizontal / Vertical frequency | 30 ~ 65 KHz / 56 ~ 75 Hz | 30 ~ 80 KHz / 56 ~ 75 Hz |
| | Connector | HDMI 1.3c ×2 / VGA | |
| | Audio in | - | |
| | Audio out | S-PDIF out | |
| | Communication port | D-Sub 9 Pin In, RJ45 In/Out (RS232C In, RS-485 In/Out) | |
| Mechanical | Dimensions w/o stand (W×H×D) | 700.4 × 396.4 × 120.2 mm | 1022.2 × 615.3 × 124.4 mm |
| | Weight | tbd. | 22.0 kg |
| | Wall / Arm mount type | tbd. | 400 × 200 mm VESA |
| Electrical | Power consumption | 201 W max. | 231 W max. |
| | Stand by consumption | < 1 W | |
| Options | Touch | on request | |
| | Protective surface | Tempered Glass | |
| | Openframe type | Available | |
| | Accessories | Speakers; stands; further connection capabilities on request | |

Open Frame Solutions

The Canvys open frame displays are designed for quick integration into kiosks, digital signage and other custom applications. They combine ultra-high resolution and unparalleled image quality with configurable I/O in a large format for a wide range of digital signage and control-room application.

Touch Integrated Solutions

Choose from a wide range of sizes and touch screen technologies for your interactive application design. We offer high precision touch technology panels with exceptional close viewing visual clarity. There's a perfect touch screen display for your next customer interaction design.

Large Screens

55"

65"



| Model / Type | | 55" PD-CL55-FNAZ | 65" PD-CL65-FNAZ |
|-------------------------------------|---------------------------------|--|--|
| LCD panel | Brightness | 500 cd/m ² | |
| | Contrast ratio | 4000:1 | 5000:1 |
| | Viewing angle (H / V) | 176° / 176° | 178° / 178° |
| | Response time | 4.5 ms (GTG) | 5.5 ms (GTG) |
| | Supported colours | 16.7 M | |
| | Display resolution | 1920 × 1080 (16:9) | |
| Signal compatibility / Connectivity | Horizontal / Vertical frequency | 30 ~ 90 KHz / 56 ~ 75 Hz | |
| | Connector | HDMI 1.3c × 2 / VGA | HDMI 1.3c × 2 / VGA, ComponentS-V / AV |
| | Audio in | - | Mini jack-PC audio in |
| | Audio out | S-PDIF out | |
| | Communication port | D-Sub 9 Pin In, RJ45 In/Out (RS232C In, RS-485 In/Out) | |
| Mechanical | Dimensions w/o stand (W×H×D) | 1307.0 × 777.8 × 134.1 mm | 1567.6 × 942.6 × 155.7 mm |
| | Weight | 44.0 kg | 67.0 kg |
| | Wall / Arm mount type | 600 × 200 mm VESA 600 × 300 mm VESA | 400 × 400 mm VESA 400 × 600 mm VESA |
| Electrical | Power consumption | 273 W max. | 578 W max. |
| | Stand by consumption | < 1 W | |
| Options | Touch | on request | |
| | Protective surface | Tempered Glass | |
| | Openframe type | Available | |
| | Accessories | Speakers; stands; further connection capabilities on request | |

DATA SHEET

Customizable Options

Canvys integrated displays are highly customizable with room for expansion. Add DVD players, PC systems, extra hard drives, dual network cards, broadband wireless or wireless LAN cards. These integrated displays bring together brilliant displays with fast, powerful systems for applications that are downright impressive.

Because it has to be right

We have the right display, form factor and technology to offer a complete product line to match your design criteria and product requirements.

46" Ultra High Brightness LCD for Integration **46"**



DATA SHEET The Canvys 46" Ultra High Brightness Open Frame represents the cutting-edge of high brightness LED edge-lit direct-view LCD technology. It combines long life with ultra-high resolution and unparalleled image quality with configurable I/O in a large format display for a wide range of outdoor digital signage applications.

Key Features

- LED edge-lit
- Ultra High Brightness
2200 cd/m² brightness from the unique LED backlight ensures clear images in high ambient light conditions
- Prolonged Life
Over 80,000 hours of LED life
- Liquid Cooling System
Lowers the surface temperature of the LCD
- Energy Saving
Wide dimming control
- Low Cost of Ownership
- Vivid Colour Experience
- IRFM™ technology helps prevent image retention
- Portrait and Landscape use
- Thermal Diagnosis Technology
- Easy Integration with Enclosure

| Series | | 46" Ultra High Brightness | |
|-------------------------------------|---------------------------------|---|--|
| Model / Type | | PD-CL46HB-FNAZ | |
| LCD panel | Brightness | 2200 cd/m ² typ. | |
| | Contrast ratio | 6000:1 typ. | |
| | Viewing angle (H / V) | 176° / 176° | |
| | Response time | 6.5 ms (GTG) typ. | |
| | Supported colours | 16.7 M | |
| | Display resolution | 1920 × 1080 (16:9) | |
| Signal compatibility / Connectivity | Horizontal / Vertical frequency | 30 ~ 90 KHz / 56 ~ 75 Hz | |
| | Input resolution | 1920 × 1080 @ 60 Hz (Analog) 1920 × 1080 @ 60 Hz (Digital) | |
| | Connector | HDMI 1.3c ×2 / DVI / VGA / Component / S-V / AV | |
| | Audio in | Mini jack-PC Audio in, RCA Audio In ×2 | |
| | Audio out | S-PDIF out | |
| Mechanical | Communication port | D-Sub 9 Pin In, RJ45 In/Out (RS232C In, RS-485 In/Out) | |
| | Dimensions w/o Stand (W×H×D) | 697.1 × 1077 × 139.9 mm / 27.44" × 42.40" × 5.51" | |
| | Weight | Net: 65 kg / 143.3 lb; Gross: 72 kg / 158.73 lb | |
| | Wall / Arm mount type | 400 × 400 mm VESA | |
| OSD functions | OSD control function | RS232C, Push Button, IR Remote Controller | |
| | OSD language function | English, Chinese | |
| | Multimedia function | PIP, PBP (side by side), Zoom | |
| | Source auto detect function | Yes | |
| Electrical | Power supply | AC 100 V ~ 240 V (50/60 Hz) | |
| | Power consumption | Max. 1300 W Normal operation: 800 W Night time: 400 W Standby: 5 W | |
| Environmental | Operating temperature | 0 °C ~ +35 °C, 85% RH | |
| | Storage temperature | -20 °C ~ +60 °C, 85% RH | |
| Options | Stand | Metal stands | |

Sunlight Readable – High Brightness Display Solutions



General Information

Sunlight readable displays due to improving the performance and protection of displays.

The display-enhancing lamination process provides customers with a solution that highly reduces internal light reflections and refractions, maximizing the clarity of the display. This is caused by elimination of condensation and contamination between display glass and front glass / touch screen.

The Lamination process improves also the robustness of the display surface.

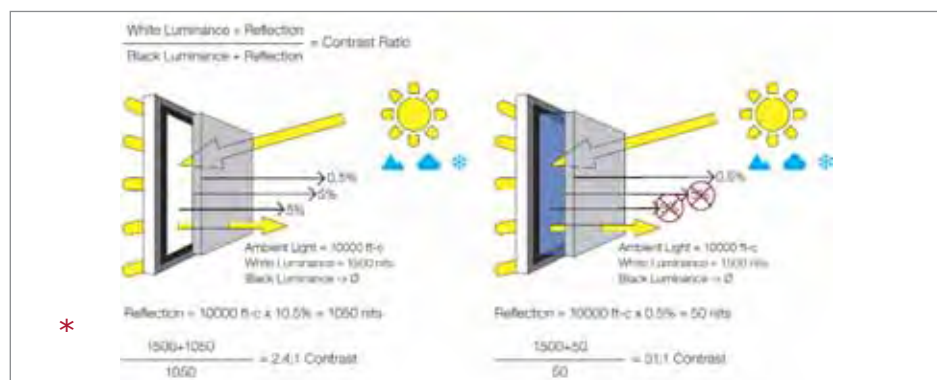
Features

- All in one: sunlight readable and ruggedized protection glass
- Reduction of reflective loss from all surfaces to less than 1 % using an AR coated glass - Increases of contrast by 3 - 5 times minimum (see graphics below)
- Appropriate front cover surface can improve scratch and impact resistance
- Elimination of air gap, preventing moisture and condensation behind the cover surface
- Elimination of the need for cleaning by preventing dust from collecting between the flat panel and the cover surface

More Features

- Long-life technology
- Removable process – total recovery of display - in case of scratches - easy handling for repair
- No stress on the LCD which can result in double refraction (white spots)
- Traditional backlight - no backlight modification
- Useable with glass and acrylic front plates also with plastic and glass based touch screen systems
- All sizes on request, available up to 72"

FEATURES



Each transition point, air to glass or glass to air, reflects over 4 % of the ambient light. These reflections reduce the contrast and readability of the display, especially in high ambient, uncontrollable lighting applications.

* These formulas are simplified to the contrast ratio and are indicative of how the bonding application works under sunlight conditions.

Direct bonding eliminates the two internal points of reflection. With AR coatings on the front, overall reflections drop to less than 1 %. The lack of an air-gap increases thermal conductivity, preventing heat build-up. Additionally, solid bond prevents moisture from forming on the inside of the front cover glass.



Display front air ventilation solution



Canvys Touch Solutions for NEC

40" 46"



MultiSync® P-401



MultiSync® P-461 side view

DATA SHEET

| Series Model / Type | NEC MultiSync® P-401 | NEC MultiSync® P-461 |
|----------------------------------|---|----------------------|
| Size | 40" / 101.6 cm | 46" / 117 cm |
| Active area (H x V) | 885.2 x 497.6 mm | 1018.4 x 572.5 mm |
| Resolution (optimal) | 1920 x 1080 / HDTV | |
| Pixel pitch | 0.530 mm | 0.461 mm |
| Display colours | 16.7 M | |
| Brightness typ. | 500 cd/m ² , 700 cd/m ² max. | |
| Contrast ratio | 3000:1 | 4000:1 |
| Viewing angle (H / V) | 178° / 178° | |
| Response time (typ.) | 8 ms | |
| Horizontal frequency | 31.5 – 91.1 kHz | |
| I/O ports | Analog: 1x S-Video; Analog: 5x BNC, Component, Composite (via BNC und Cinch); Analog: 1x D-sub 15 pin; Digital: 1x DVI-D (mit HDCP); Digital: 1x HDMI; Digital: 1x Display Port; Audio: Cinch (RCA); Remote: Ethernet, RS232, IR remote | |
| Power consumption | 330 W max. | 360 W max. |
| Dimensions (W x H x D) w/o stand | 920 x 532 x 140 mm | 1055 x 609 x 140 mm |
| Frame size | 15.5 mm | 16.5 mm |
| Weight | 29.4 kg w/o stand | 36.1 kg w/o stand |
| Operating temperature | +5 °C to +40 °C | |
| Options | 3M Dispersive Signal Touch Technology, acrylic shield, stand base | |

Canvys offers a wide range of NEC displays with integrated solutions. Ask your local sales representative and see also page 23.

Canvys Touch Solutions for NEC

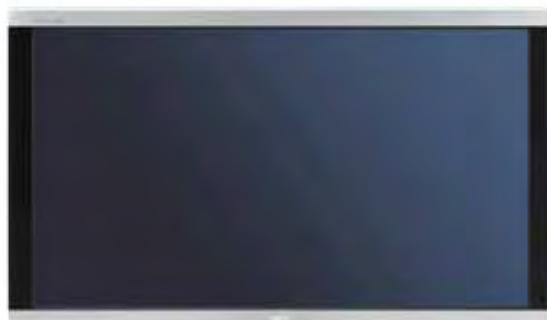

31.5"

40"

46"



MultiSync® V321 side view



Mulleos® M401 front view



Mulleos® M461 side view

| Series Model / Type | NEC MultiSync® V321 | NEC Mulleos® M401 | NEC Mulleos® M461 |
|----------------------------------|--|---|--|
| Size | 31.5" / 80 cm | 40" / 101.6 cm | 46" / 117 cm |
| Active area (H × V) | 697.7 × 392.3 mm | 885.2 × 497.6 mm | 1018.4 × 572.5 mm |
| Resolution (optimal) | 1366 × 768 | 1920 × 1080 Full HD | |
| Pixel pitch | 0.511 mm | 0.641 mm | 0.530 mm |
| Display colours | 16.7 M | | |
| Brightness typ. | 450 cd/m ² | | |
| Contrast ratio | 3000:1 | 4000:1 | |
| Viewing angle (H / V) | 178° / 178° | | |
| Response time (typ.) | 8 ms | | |
| Horizontal frequency | 31.5 – 91.1 kHz | | |
| I/O ports | Analog: 1× D-sub 15 pin; 1× S-Video; Component (BNC); Composite (BNC); RGBHV (BNC); Digital: 1× DVI-D (mit HDCP); 1× HDMI Analog: 1× D-sub 15 pin; 1× BNC Composite Out; Audio: 2× Cinch (RCA); 1× Cinch 3,5 mm ;1× Cinch (RCA); Remote: LAN; RS-232C (9-Pin D-sub) input/output; D-sub 15 and DVI-D (DDC/CI); remote IR | Analog: 1× D-sub 15 pin; 1× S-Video; 5× BNC, Component, Composite (via BNC & Cinch); Digital: 1× DVI-D (w/ HDCP); 1× HDMI ; 1× DisplayPort; Analog: 1× BNC Composite Out; 5× BNC for RGBHV, Component and Composite; Audio: 2× Cinch (RCA); 1× Cinch 3,5 mm ;1× Cinch (RCA); Remote: Ethernet; RS-232C (9-Pin D-sub) input/output; D-sub 15 and DVI-D (DDC/CI); remote IR | |
| Power consumption | 140 W max. | 240 W max. | 280 W max. |
| Dimensions (W × H × D) w/o stand | 789 × 476.3 × 133 mm | 981.8 × 582.4 × 142.5 mm | 1112.8 × 659.4 × 142.5 mm |
| Frame size | 44.2 mm (right, left), 40.5 mm (underneath, above) | 18.2 mm (right, left), 18.2 mm (underneath, above) | 40.6 mm (right, left), 40.6 mm (underneath, above) |
| Weight | 14.3 kg w/o stand | 25 kg w/o stand | 29.8 kg w/o stand |
| Operating temperature | +5 °C to +40 °C | | |
| Options | Touch on request, acrylic shield, stand base | | |

Industrial Panel PCs – 8.4" / 12.1" / 15"



Panel mount model

Plastic housing with motion sensor and card reader

Stainless steel fully IP65

DATA SHEET

| LCD size | 8.4" | 12.1" | 15" |
|------------------------------------|--|--|--|
| Brightness | 250 cd/m ² | 370 cd/m ² | 350 cd/m ² |
| Max. resolution | 800 × 600 | | 1024 × 768 |
| Touch screen type | Resistive touch, others on request | | Resistive touch |
| Input | RJ-45 (COM3 & COM4 with 5 V or 12 V power); 1× D-sub 15F, 1× RJ-45, 4× USB Type 2.0 | RJ-45 (COM1 standard RS-232; COM2 RS-232 / 422 / 485 selectable by jumper; COM3 & COM4 pin 9 with 5 V or 12 V power by jumper); 1× D-sub 25F, 1× RJ-45, 4× USB Type A, 1× RJ-11 (12 V or 24 V), 1× Mic-in, 1× Line-out | 1× PS/2 KB & mouse; 1× Ethernet; 2× USB; 2× COM; 1× DC input |
| Options | Intel® Celeron™, Intel® Celeron® M, Intel® Pentium® M, Intel® Core™ Duo, Intel® Core™ 2 Duo, Intel® Atom™ N270 | | Intel® Atom™ N270 |
| CPU | Intel® Celeron™, Intel® Celeron® M, Intel® Pentium® M, Intel® Core™ Duo, Intel® Core™ 2 Duo, Intel® Atom™ N270 | | Intel® Atom™ N270 |
| System memory | 2× DDR SO-DIMM slot, up to 2 GB | | 1× DDR SO-DIMM slot, up to 1 GB |
| Flash memory | on request | 1× CF (without HDD) | |
| Expansion | 1× mini PCI slot (support 802.11, WLAN card), PCI express on request | | |
| Dust & water proof, certifications | IP54 (front), CE | Nema 4 / IP 65 (front), CE | Nema 4 / IP 65 (all sides), CE |

Canvys Panel PCs are designed in a ultra slim and exquisite metal enclosure, which catches most eye contacts.

We offer seven display sizes (standard) 8.4"/ 10.4"/ 12.1"/ 15"/ 17"/ 19"/ 21.5".

The Panel PCs are fitted with touch and meets industrial application requirements like IP65.

Please send your request to Canvys.

Different Housing Designs

- Complete metal housing, painted in different colours
- Complete stainless steel housing
- Plastic housing
- Panel mount model
- Open frame model

Features

- Slim and compact
- VESA mounting 75 or 75/100
- Fanless (with Atom™ processor)

Different Options

- CPU, Memory, Expansion
- Motion sensor
- Card reader
- Camera
- Light sensor
- WLAN
- Remote
- OS
- Stand base
- Other sizes on request

Industrial Panel PCs – 17" / 19" / 21.5"

17"

19"

21.5"



With WLAN



Open frame with touch screen



21.5" in black metal

| LCD size | 17" | 19" | 21.5" |
|------------------------------------|--|--|--|
| Brightness | 300 cd/m ² | | |
| Max. resolution | 1280 × 1024 | | 1920 × 1080 |
| Touch screen type | Resistive touch, others on request | | |
| Input | RJ-45 (COM1 standard RS-232; COM2 RS-232 / 422 / 485 selectable by jumper; COM3 & COM4 pin 9 with 5 V or 12 V power by jumper); 1× D-sub 25F, 1× RJ-45, 4× USB Type A, 1× RJ-11 (12 V or 24 V), 1× Mic-in, 1× Line-out | 4× USB; 2× RJ45; 3× COM (2× RS232, 1× RS232/422/485); 1× VGA; 1× PS/2 KB/MS; 1× MIC; 1× Line out; 1× Line in; 1× DC in (11-32 V) | RJ-45 (COM1 standard RS-232; COM2 RS-232 / 422 / 485 selectable by jumper; COM3 & COM4 pin 9 with 5 V or 12 V power by jumper); 1× D-sub 25F, 1× RJ-45, 4× USB Type A, 1× RJ-11 (12 V or 24 V), 1× Mic-in, 1× Line-out |
| Options | | | |
| CPU | Intel® Celeron™, Intel® Celeron® M, Intel® Pentium® M, Intel® Core™ Duo, Intel® Core™ 2 Duo, Intel® Atom™ N270 | Intel® Atom™ N270 | Intel® Celeron™, Intel® Celeron® M, Intel® Pentium® M, Intel® Core™ Duo, Intel® Core™ 2 Duo, Intel® Atom™ N270 |
| System memory | 2× DDR SO-DIMM slot, up to 4 GB | 1× DDR SO-DIMM slot, up to 2 GB | 2× DDR SO-DIMM slot, up to 4 GB |
| Flash memory | on request | | |
| Expansion | 1× mini PCI slot (support 802.11, WLAN card), 1× PCI express | N.A. | 1× mini PCI slot (support 802.11, WLAN card), 1× PCI express |
| Dust & water proof, certifications | Nema 4 / IP 65 (front), CE | N.A. | Nema 4 / IP 65 (front), CE |

DATA SHEET

Markets and Applications

- Digital Signage
- Kiosk
- E-home
- Healthcare
- Industrial automation
- Transportation
- Gaming
- and many more

Please also ask for desktop solutions!

- Extremely compact point-of-sale terminal
- Smart and lightweight
- High reliability & stability

Please also ask for medical solutions!

- For hospitality environments like patient TV
- Ultra slim front bezel
- Water and grease resistance
- Video and Audio in
- OSD in front

Desktop Display with Integrated PC **18.5"** **20"** **22"**



DATA SHEET

| LCD size | 18.5" | 20" | 22" |
|-------------------|---|-----------------------|-----------------------|
| Brightness | 250 cd/m ² | 300 cd/m ² | 350 cd/m ² |
| Max. resolution | 1366 × 768 | 1680 × 1050 | |
| Touch screen type | Resistive touch | | |
| Input | 1× RJ-45, 4× USB Type A, 1× RS232, 1× Mic-in, 1× Line-out, 1× VGA, 1× DC in | | |
| Options | | | |
| CPU | Intel® Core™ 2 Duo P8400 2.26 GHz, Intel® Atom™ N270 1.6GHz single core | | |
| System memory | 1× DDR SO-DIMM slot, up to 1 GB | | |
| Flash memory | 1× CF slot Type III | | |
| Expansion | 1× mini PCI slot (support 802.11, WLAN card) | | |
| Certifications | CE | | |

Features

- Slim and compact
- Touch screen
- Fanless (with Atom™ procesor)
- VESA mounting 75 or 75/100
- Cost effective
- Stand with cable management
- Metal housing
- Long-term available

Different Options

- CPU, Memory, Expansion
- WLAN
- OS
- Stand base
- Other sizes on request
- Protection glass
- Customized housing (on project basis)

Markets and Applications

- Digital Signage
- Kiosk
- E-home
- Gaming
- Retail
- POS / POI
- and other applications

Thin-Client Stand Base Solution

Description

A computer is necessary to bring content to life on any display, but where do you store the additional hardware? Canvys has an answer to that question with a PC-Display that is a complete desktop solution - a display with a SBC (Single Board Computer) integrated directly into the stand base. This simple, yet elegant custom PC-Display has clean lines and ample computing power. In fact, the PC is embedded so subtly, you may wonder how we did it.



This thin-client display-base solution provides smart cable management and is available for displays with internal and external power supplies. Canvys uses the Pico-ITX™ small form factor boards from Kontron, which are ideal for small, powerful devices. The p-ITX-SP 2.5" SBC features the Intel® ATOM™ Z510/Z530 processor in speeds up to 1.6 GHz.

To bring information from this powerful SBC to life, Canvys recommends the **VA (plastic case) and VM (metal case) desktop series displays**. Starting at 12" these feature rich displays are available in sizes up to 22".



Outstanding characteristics of the Canvys **VA and VM desktop series** are the attractive narrow bezel and that the VA and VM series LCDs are available with touch screens or protective glass.

Applications

- Digital Signage
- POS/POI
- Gaming

Highlights

- Desktop: narrow bezel
- Atom™ processor, up to 1 GB DDR2 RAM
- High quality components
- Simple elegant design
- Customized colours on request



| | |
|------------------------------|--|
| Suitable for following sizes | up to 22" |
| CPU | Intel® Atom™ Z510 / 530 processors |
| Chipset | Intel® System Controller Hub US15W |
| HDD | Single or Dual SATA II (chipset option) 1× PATA 44 Master / Slave |
| System memory | 1× DDR2 SO-DIMM up to 1 GB |
| Audio controller | HD Audio analog / SPDIF |
| Common features | 4 Bit GPI/O TTL, SDIO |
| Special features | TPM 1.2 - 1× microSD socket |
| Ethernet | Intel® 82574L Gigabit Ethernet |
| Graphics | tbd: DirectX 9.0e, OpenGL 2.0, Shader based 2D and 3D dual independent graphics |
| Graphics controller | tbd: Integrated decoders in Intel® System Controller Hub US15W for MPG2 and H.264 / MPEG-4 AVC |
| Resolution | DVI up to 1920 × 1080 @ 60Hz LVDS up to 1280 × 1024 @ 85Hz |
| USB | 6× USB 2.0 (2× at front panel, 4× on board) |

High-End Full HD Media Player - WiFi Option

FEATURES

BrightSign's networking solutions offer convenient content delivery, practical sign status and unique digital signs capabilities for any application.

- Convenient Content Updates.
- Diverse Real-time Content Feeds.
- Unique Ethernet Synchronization.
- Secure Network Monitoring.

BrightSign Networking options

- **Simple File Networking:**
Free networking solution designed for small networks to send basic content updates over the Internet.
- **Local Networking:**
Free networking solution designed for small networks to send content updates and get basic status of remote units using a local area network.
- **BrightSign Network:**
Affordable and scalable BrightSign hosted networking solution suited for small and large networks that require a secure and complete network solution with security, network monitoring, advanced scheduling and reporting.

BrightAuthor

Create, publish and network presentations with ease.

- FREE PC software application that easily creates, publishes and networks digital signs
- **Create:** design full-screen or multi-zone presentations and build playlists
- **Publish:** create a complete presentation packet including content, playlists and controls ready to successfully playback on BrightSign
- **Network:** sends published presentations over a network and provides a network management interface.



CP Series with screenshot of BrightAuthor

Markets

- Retail
- Point-of-Purchase Displays
- Interactive Product Demonstrations
- Advertising and Promotions
- Museums
- Exhibitions
- Sport Arenas
- Transportation

Options

- Expansion Modules
- Live Video Feed Adaptor
- Supports standard Ethernet WiFi adaptors

Players fit very well for Canvys CP Series (pages 37-40)

Please contact your responsible Canvys Sales Manager for BrightSign products.

|  HD110 |  HD210 * |  HD1010 * |
|---|---|---|
| <ul style="list-style-type: none"> • For simple looping video playback • Easy-to-use playlists tell BrightSign how to play back your content • Split screen into zones, control each zone with its own playlist • Content update by SD card | <ul style="list-style-type: none"> • BrightSign networking solutions deliver remote content to installed units quickly and easily without ever leaving the office • Support for reporting, scheduling and security is also included | |
| <ul style="list-style-type: none"> • True HD video • HDMI and VGA connectivity • Playlist support and looping media • Zones with support for video, images and text tickers • Compact and easily mounted • Includes BrightAuthor PC Application | <p>Offers all the features of the HD110 and adds:</p> <ul style="list-style-type: none"> • Remote content update capabilities • Networked RSS feeds for news, weather and more • Real-time reporting for ad playback confirmations • Group networking capability for targeted content updates • BrightSign Simple Networking or BrightSign Network Manager support • World class security, authentication • Redundancy and fail-safe modes <p>* also available w/ built-in WiFi antenna</p> | <p>This model supports all the features of both the HD110 and HD210, while also adding interactivity and control abilities with its GPIO, serial, USB and Ethernet ports.</p> <p>* also available w/ built-in WiFi antenna</p> |