

**dzine**

dzine nv  
't Hoge 49

[t] +0032 56 24 90 90  
[f] +0032 56 24 90 99

[e] [info@dzine.be](mailto:info@dzine.be)  
[w] [www.dzine.be](http://www.dzine.be)

## PIDS Overview

PIDS is short for Public Information Display System. It's a digital system for display of all kinds of information. Whether it is used for airports, schools, companies, shops, railway stations or other public buildings, dzine's PIDS show all information in a reliable and efficient way. Typical applications include the display of schedules, publicity, corporate information and product presentation. But, the sky is the limit!

Besides that, dzine's PIDS has several benefits:

1. Most buildings already have a network infrastructure, so additional cabling is not required.
2. Every display element (Monitor, Plasma, TFT, projector,...) has its own controller, thus can display separate information.
3. Highly extendable: add-on modules provide additional features like video rotation and seamless integration in wireless and fiber-optic networks.

dzine's PIDS has 4 major components:

1. A network
2. GT2 Server (software)
  - a. Creation of information pages
  - b. Display management
  - c. Content Management (optional)
3. On or more Graphic Engine Boards (stand-alone or integrated in a display element)
4. One or more display elements (Monitor, Plasma, TFT, projector,...)

## GT2 Server Software

The GT2 Server is the heart of the information display systems: it bundles two powerful programs:

1. **IDS Server:** manage the information pages that appear on the displays in the network.
2. **Page Editor:** create graphical information pages for any type of display in the network.

### IDS SERVER

IDS Server is the core-application of the PIDS. It guarantees full control over all displays and controllers available in the network.

#### *Use simple drag 'n drop to control the displays!*

- Schedule information pages
- Remote-control displays (power on, shutdown, reboot, ...)
- Remote-control display settings (brightness, contrast,...)
- File management (delete, upload, download,...)
- Log all user and program actions
- Very little network load (all content is stored on the display)

### PAGE EDITOR

Page Editor ensures easy content creation because it is a WYSIWYG editor (What You See Is What You Get): it's page view matches the view of a real display.

#### *Create stunning information pages with minimal effort!*

- Intuitive, visual user interface
- Objects: text, images, video clips, tables, Flash®-files, web pages, ...
- Database support (ODBC)
- Real-time video
- Images (JPEG, GIF, animated GIF, BMP, TIFF)
- Extensive formatting (fills, gradients, styles, borders,...)
- Project management
- Support for LED panels

## Graphic Engine

Currently, the Graphic Engine 7 (GE7) is the latest, most powerful version of the GE series.

The GE7 transforms any monitor, plasma or TFT display into an intelligent multimedia terminal. Because it supports the vast majority of network infrastructures (Ethernet, RS-232, RS-484, WiFi, Fiber-optic), it can be easily integrated into any existing network. The GE7 supports a whole range of video modes suitable for every type of display and comes with the pre-installed GT2 Client.

### Stand-alone vs. Integrated

There are two ways to setup the Graphic Engine 7:

1. Stand-alone: a stand-alone device, requiring a separate power supply. The output is limited to VGA and S-Video.
2. Integrated: integrated in the housing of the display. Integrated GE's provide better image, require less cabling, take up less space and are visually more appealing. On top of that, a display with integrated GE can be remote-controlled (power on/off, reboot, ...)

### Add-on modules

For additional features, extend the Graphic Engine 7 using one or more add-on modules.

- TV Tuner: provides inputs for RF, S-video and CVBS signals.
- WiFi module: integrates the GE7 into a Wireless network.
- Video Rotator: rotates video images displayed on a vertical-oriented display.

## Displays

A standard display features:

- Integrated Graphic Engine
  - ↳ MPEG2 decoder
  - ↳ De-interlace module
  - ↳ Harddisk (> 30 Gb)
  - ↳ CompactFlash Card (32 Mb)
  - ↳ GT2 Client
- Standard wall bracket
- Ambient Light Control (ALC)
- Laminated safety glass (7 mm)
- Anti-glare treatment
- IP20

*IP20: protection against solid objects over 12 mm (e.g. fingers)*

*IP54: protection against dust; limited ingress and protection against water sprayed from all directions. Temperature control.*

### Available displays

- PDP (plasma) 42", 50" and 60"
- TFT 17", 19", 30" and 40"

## GT2 Player & Operating System

The Graphic Engine is a powerful multimedia controller that requires a fast operating system to support its dedicated functions. The Graphic Engine can run two different operating systems:

1. On Time
2. Microsoft® Windows® 2000 or Windows® XP Embedded

### On Time RTOS

The On Time operating system is a fast, reliable, royalty-free OS which is highly recommended for dedicated applications like airports, shops, banks and other public infrastructures.

- High performance
- Increased stability (dedicated kernel, no superfluous drivers loaded)
- Secure (hacker & virus-proof)

The On Time OS guarantees continuous operation. It requires very few resources and allows full control over low-level hardware functions.

*For more information, please visit <http://www.on-time.com>*

### Microsoft® Windows® 2000/XP Embedded

Microsoft Windows 2000 & Windows XP Embedded are based on the well-known Windows® operating system. This offers several additional features like viewing Flash® movies, PowerPoint® slideshows, web pages and displaying video formats like Microsoft AVI (.avi), Windows Media Video (.wmv), ...

*For more information, please visit <http://www.microsoft.com/windows/embedded/>*

## References

- **Paris Airport:** 450 x Conrac TFT 40" with integrated Graphic Engine (2003)
- **Singapore Airport:** 600 x Conrac TFT 40" with integrated Graphic Engine (2004)
- More than **160 airports worldwide** (Hong Kong, JFK, Frankfurt, Zaventem, AD Paris,...)
- **Colruyt Belgium:** 800 x TFT with integrated Graphic Engine (2004)
- **Belgacom Shops:** 105 x projectors with stand-alone Graphic Engine (2003-2004)
- **Shoes In The Box:** 70 x PDP with stand-alone Graphic Engine (2001)

Other customers:

- Shell
- Exxon Mobil
- Mobistar
- Sheraton Hotels
- Volkswagen (Germany)
- World Trade Organisation (Genève)
- European Commission
- Janssens Pharmaceuticals
- Interbrew
- Kinopolis
- Wyth Pharmaceuticals
- Electrabel
- TGV, De Lijn, NMBS, TEC, SBS, TBIS, RATIS
- ...

***More than 45.000 devices installed worldwide!***