

## CONRAC MARKETING INFORMATION

### Professional High Performance Display Solutions

Hardware, Software, Training  
& Support for

### Public Information Display Systems

Detailed comparison between CONRAC PD-Series  
of Professional Intelligent Information Displays  
and Standard Consumer Displays  
Comparison CONRAC PD-Series / Standard Consumer Displays



## Public Displays versus Consumer Displays

Description	CONRAC PD-Series with integrated Controller	Standard Consumer Displays
<b>Housing</b>	Robust aluminium housing, powder coated to customer requirements Designed to operate in a public environment Delivered with CONRAC standard mounting kit or as built-in unit Special requirements for housing on request (e.g. IP55, colour)	Standard consumer style housing, not suitable for public environment Designed as a stand-alone unit
<b>Screen Glass</b>	Highly efficient anti-reflective laminated safety glass, scratch resistant	Non laminated standard glass or plastic panel designed for consumer environment
<b>Testing</b>	Complete unit temperature tested for 24h operation in landscape and portrait applications	Tested for standard consumer application only (approx. 6h/d)
<b>Controls</b>	No accessible front controls which may be operated accidentally Remote control via I/R keyboard or over the LAN possible	Front controls visible and accessible No network control
<b>Network and Interfaces</b>	Ethernet 10/100/1000 Base T (detectable) Ethernet fibre optic network Wireless LAN option (WIFI) SNMP capable Optional CVBS input Optional TV tuner input Optional VGA input Optional dual Ethernet interface for MPEG streaming	Standard VGA and video input No integrated network controller

**Public Displays versus Consumer Displays**

<b>Description</b>	<b>CONRAC PD-Series with integrated Controller</b>	<b>Standard Consumer Displays</b>
<b>Internal Video Interface</b>	Direct Digital Interface to panel Automatic phase detection Automatic picture or shift adjustment	Standard analogue interface
<b>Special Display Control Features</b>	Temperature control via LAN Ambient Light Control (ALC) Hardware watchdog Processor fan failure detection Network statistics Blanking feature during start-up Control of brightness, contrast, on/off, standby etc. via the network	Only limited display controls Functions available via separate RS232 serial interface
<b>Video Signal Processing</b>	De-Interlacing module for integrated controller for optimal video performance	Standard video signal processing with external PC only
<b>Portrait video mode</b>	Real time video rotation module to display video clips in portrait mode	Not available, necessary to create video in portrait mode
<b>Controller hardware configuration</b>	Operating System stored on non rotating medium (Compact Flash) Mass storage failure does not effect standard functions Flexible hardware configuration by using industrial standard PC components	Hard disk in external standard PC
<b>Operating systems</b>	Selection of OS MSDOS™ extended RTOS (Real Time OS) Windows™ 95/NT/CE/2000/XP Linux MSDOS™, RTOS and Windows CE™ can be resistant on Compact Flash in integrated controller Flexible licensing policy	Windows on external standard PC Windows™ licence required, subject to Microsoft® licensing policy

**Public Displays versus Consumer Displays**

<b>Description</b>	<b>CONRAC PD-Series with integrated Controller</b>	<b>Standard Consumer Displays</b>
<b>Display Software</b>	<p>Graphics Terminal (GT2) software supplied with controller hardware</p> <p>Supports any kind of display hardware</p> <p>Large number of installations at hundreds of airports worldwide</p> <p>Source code and development support available on request</p> <p>Designed for reduced network load by using event triggered object orientated features available in the GT2 software</p> <p>GT2 software is specially developed to cater for the demands of large public information systems in particular high availability 24h/d</p>	No integrated application software available
<b>Display Devices</b>	<p>CONRAC manufactured and supported products:</p> <p>TFT 26", 32", 40", 46", 57", 82"</p> <p>LED Boards</p> <p>LCD Boards</p> <p>Split Flap Display Boards</p>	Normally not full range of display technologies supported
<b>Service and Lifetime</b>	<p>Reliable industrial solution for 24h/d operation</p> <p>Long term service and support</p> <p>Continuous improvement and development</p> <p>Warranty up to 36 months for complete unit including integrated controller and software</p>	<p>No experience of such applications and projects</p> <p>Only support for consumer products</p>

## Other benefits of working with CONRAC for Public Information Display System Projects

- CONRAC offers only high quality certified products "Made in Germany" DIN/ISO 9000+ certified
- CONRAC's policy is a long term commitment to the PIDS market
- CONRAC has over 30 years experience in PIDS projects
- CONRAC has installed more than 100 PIDS in airports, railway stations, bus stations and congress centres, to name just a few, worldwide
- CONRAC guarantees long term support > 5 years for all display devices
- CONRAC offers fully integrated display units designed for single connectivity
- CONRAC provides easy access to all built-in components e.g. slot-in controller
- CONRAC supports automatic status control with pre-defined SNMP functions
- CONRAC offers complete turn-key system solutions



## Production and quality check



## Examples - Airport Installations



Dubai International Airport / United Arab Emirates

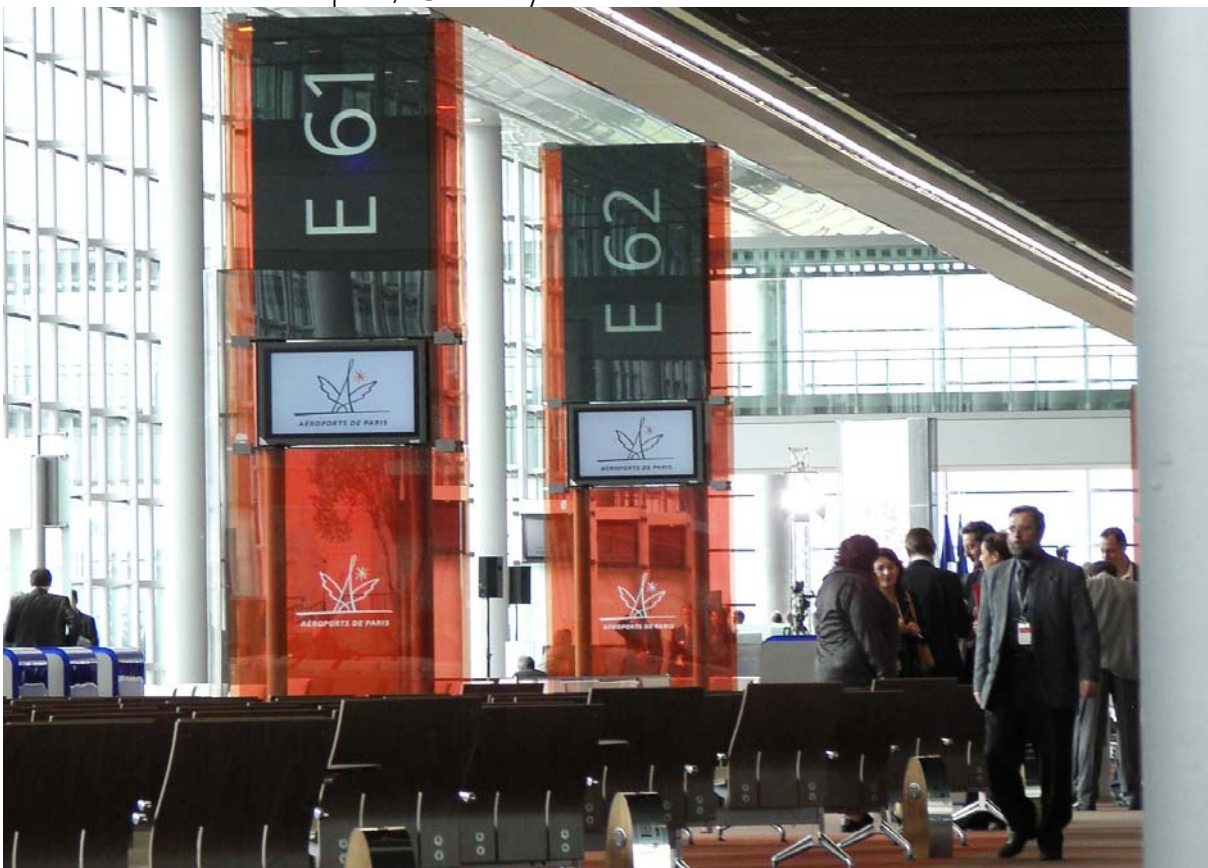


Changi International Airport / Singapore

## Examples - Airport Installations



Frankfurt Rhein-Main-Airport / Germany

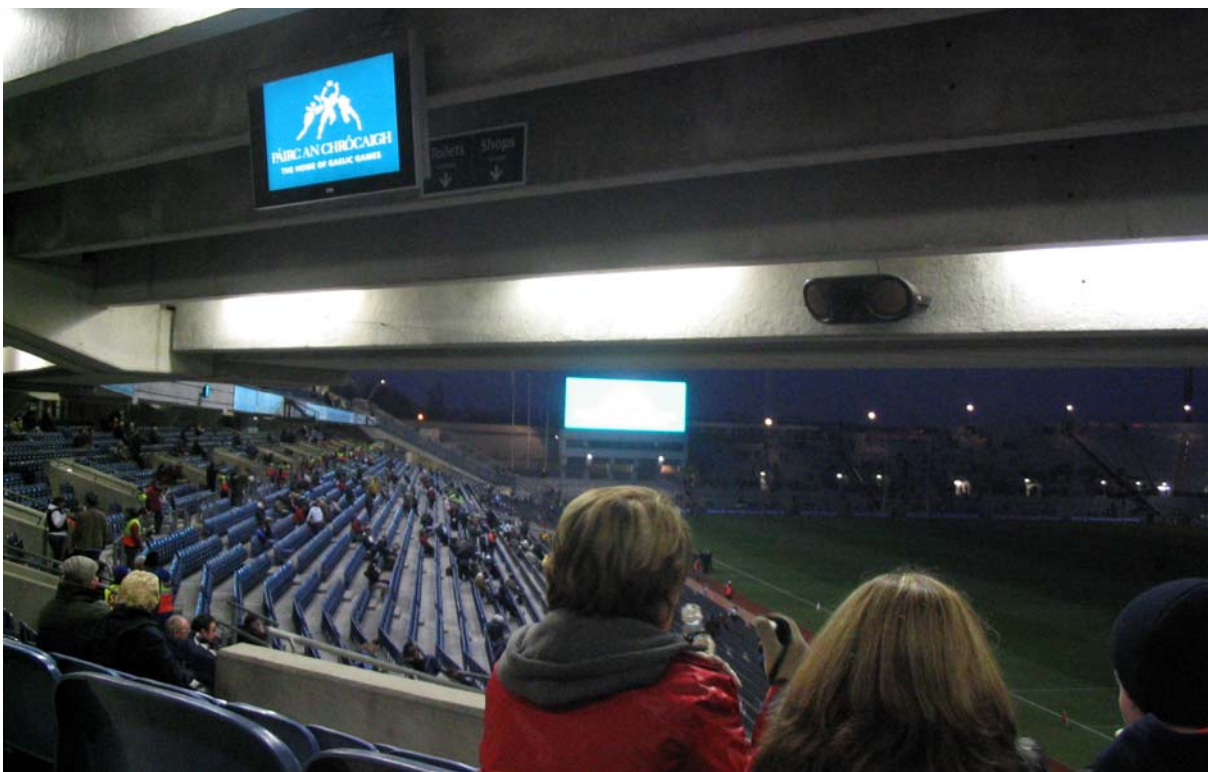


Charles de Gaulle Airport, Paris / France

## Examples - Digital Signage Installations



Kinepolis / Belgium



Croke Park Stadium, Dublin / Ireland

## Examples - Digital Signage Installations



University cafeteria, Duesseldorf / Germany



Schloss Strassen Center, Berlin / Germany

## Examples - Digital Signage Installations



Kaufhof Aachen / Germany

Technical specification subject to change without prior notice. 04.07.2007

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