

# PTW ANNUAL 2011

## STANDING THE TEST OF TIME

### Purpose-built equipment will always prove of value.

There's nothing really new to this cognition: In the long run it will always pay off to use what's made for the purpose it is intended for. This applies to every type of product or equipment you can think of. Of course, there's always the option to do differently. You can certainly drive a sports car off-road, it is just a question of how often you do this and how long it will last when doing so. There's no question that in this case a 4x4 all-terrain vehicle will suffer less damage, be more practical, more comfortable and definitively also less troublesome.

The same applies to equipment used in an airport terminal, involving round-the-clock operation, dust and other contamination, mechanical stress and even vandalism. Talking about displays, additional wear and tear is added by steady images and the need to drive the displays at high contrast and brightness levels to counteract the effect of the light-flooded surroundings of modern airport terminals. As in the "off-road" example, also in this case there is the option to use commercial flat screens, saving money in terms of purchase price. However, made for TV applications and engineered for running a few hours a day, the obvious question is, how long the product will last in all-day-all-night operation in public surroundings without the need for extensive maintenance or exchange of the units. This again does not only cost money in terms of spare parts or spare units, it also involves a lot of time and manpower causing even higher costs.

CONRAC is active in the airport business for more than 40 years. There are installations in more than 200 airports world-wide with tens of thousands of public displays up and running all around the globe. With an installation base like this, key objective has to be reliability and durability of the products supplied. As a result of extensive R&D, decades of direct experience in the field and very close co-operation with the key suppliers, CONRAC has implemented vital functions into their products to guarantee trouble-free operation and to prolong the lifetime. Important part of the philosophy is to offer cost-effective display solutions reducing the cost of ownership and of course, eco-friendly equipment based on low-power technology. During all phases of development the target is a high-quality and durable products with low maintenance costs and incorporating the technology required for future uses.

The latest products developed for use in public environments are:

### Fully protected displays in new stretched format

Dust and waterproof according the international protecting rating IP65, the new stretched version of CONRAC's range of outdoor useable displays, has been specially designed for continuous use in strenuous environments.

Equipped with a high definition sunlight-readable display panel offering a brightness of 1000 cd/m<sup>2</sup> and a contrast ratio of 1200:1, the 6938 PD provides excellent readability regardless of the surrounding lighting conditions. ALC (Ambient Light Control) ensures best viewing at all times. An ambient light sensor continually adjusts the screen brightness level according to the surrounding lighting conditions.



The display features a diagonal of 38" (97cm) with an aspect ratio of 16 : 4,18 and dimensions of 1154 x 425,7 x 183mm (WxHxD). This equals so to speak the top half of a 42" display, thus providing the ideal format for use in applications with height restrictions such as low passage ways, above doors, in baggage handling applications, at bus stops, etc., where conventional displays cannot not be used.

The stretched displays are available with an integrated IPC (Industrial PC). Designed for 24/7 operation, this embedded solution offers an extremely reliable platform in networked applications. The high performance IPC is based on the latest low-power embedded technology. Remote monitor control allows monitoring and control of display settings such as stand-by, brightness and contrast. It also provides information such as temperature, maintenance status etc. Alternatively integrated controller boards or monitor-only versions can be supplied.

The display's IP65-rated housing and safety glass panel with high efficiency anti-glare and contrast enhancing treatment provide anti-vandal protection as well as resistance to moisture and dust. For extreme temperatures, a display heating with internal climate control can be integrated.

The new IP65 outdoor housing concept provides a front access feature for easy maintenance.

Further display sizes as well as fully customised versions can be realised on project basis.



## 55 inch Public Displays

New addition to CONRAC's Public Display series is a 55" (140cm) display with robust fire-retardant aluminium housing and protective contrast enhancing safety glass panel with anti-glare treatment.

With its full HD resolution and active screen dimensions of 1209 x 680mm the display is ideally suited for the display of arrival and departure information and even provides enough room to combine this with digital advertising.

Designed for 24/7/365 operation, the 6055 PD is equipped with CONRAC's highly innovative patented cooling concept lowering the temperature and enhancing the display lifetime. The intelligent system works

in two cycles, an open loop and a closed loop. Despite the Public Display's laminated safety glass panel, it cools the TFT panel from front and back. Furthermore, a special sealing method avoids dust accumulation inside the display. The cooling system is very energy efficient and maintenance-free, hence reducing the cost of ownership.

## Displays for safety relevant applications

Based on decades of experience in display technologies, CONRAC has developed a special product line guaranteeing for safety-relevant applications. The range of framebufferless displays meets the compulsory requirements of safety-relevant applications such as air traffic control, railway control, etc. The framebufferless displays avoid frozen images which is a pre-condition for IECC\* applications.

All displays are designed for 24/7/365 operation and comply with the relevant safety standards. The 60xx ID framebufferless series features advanced performance characteristics and exceptional mechanical construction combined with a modern slim bezel design.

Despite the slim look, the displays' high efficiency power supplies are integrated in the housing. VESA compatibility simplifies quick and easy mounting of the displays.

Available screen sizes and formats are 19" (48cm) 5:4 format, 22" (56cm) and 26" (66cm), both in 16:10 widescreen format.

\* IEEC: Integrated Electronic Control Centre



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CONRAC 6938 PD Stretched Display - IP65

CONRAC Public Display 6055 PD

CONRAC Framebufferless Displays

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## CONTACT

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**CONRAC GmbH, Lindenstrasse 8, D-97990 Weikersheim, Germany**  
**Phone +49-7934-101-0, Fax +49-7934-101-101, E-Mail [info@conrac.de](mailto:info@conrac.de), [www.conrac.de](http://www.conrac.de)**

Contact / Press:

Petra Ollhoff, Manager Marketing Communications

Phone +49-7934-101-204, Fax +49-7934-101-102, E-Mail [p.ollhoff@conrac.de](mailto:p.ollhoff@conrac.de)