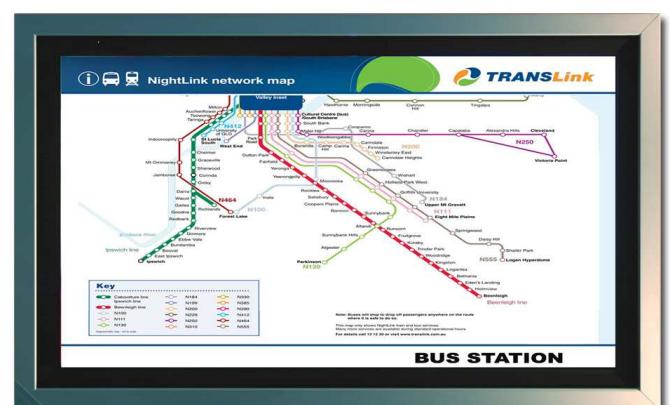# HANTAREX
ELECTRONIC SYSTEMS

DIGITAL SIGNAGE SOLUTIONS

32", 46" LCD MONITOR
AIRTANK OUTDOOR series

A NEW WAY TO INFORM

DIGITAL SIGNAGE SOLUTIONS

AIRTANK LCD OUTDOOR series

INTEGRATED PC versions:

AIRTANK 32 IP66 - PC 330
AIRTANK 46 IP66 - PC 330 - 700
AIRTANK 46 IP54 - PC 330 - HB* 1500 H
AIRTANK 46 IP54 - PC 330 - HB* 1500 V
AIRTANK 46 IP66 - PC I3 - 700
AIRTANK 46 IP54 - PC I3 - HB* 1500 H
AIRTANK 46 IP54 - PC I3 - HB* 1500 V

standard versions:

AIRTANK 46 IP66 - 700
AIRTANK 46 IP54 - HB* 1500 H
AIRTANK 46 IP54 - HB* 1500 V

The monitors have been designed for public information applications in **critical environments, such as Railways stations, Bus or tramways stations, Hubs, Subways stations, Public information nad Digital Signage system for outdoor**, and generic displays located under critical weather conditions.

These environments require a high protection level to avoid reliability problems generated by dust, water and humidity which can strongly reduce the lifetime and/or the device's functionality.

(*) HB: High Brightness

frontal PORTRAIT view

Special anodised aluminum alloy structure with an (IP54 or IP66) compliance

HIGHLIGHTS & PERFORMANCES

STRUCTURE
- **IP66 antivandalic, ruggedIsed structure**, anodized aluminum cabinet, with **special internal passive cooling** with no external airflow (available on 32"/46" 700 cd/sqm versions)
- special **hermetic IP66 multi-connections box** for easy inputs connections (available on 32"/46" 700 cd/sqm versions)
- **continous 24/7 operations**
- special vertical/horizontal **Compass Opening**, for easy maintenance (provided by means of a single user)
- **special brackets included** (only for the 46" models)
- **ANTIGLARE** (for 700 cd/sqm panel) or **SUNSTOP** (for 1.500 cd/sqm panel) front laminated protective glasses
- **ANTI-CONDENSE** proof
- working temperature from **-5° up to + 35°C,** optionally upgradable to -20° **by using heater system**
- **HB High Brightness versions immune from isotropic effect, ready for sun direct application**

SOFTWARE
- theft/vandal shock sensor
- complete **STANDARD DIAGNOSTIC SOFTWARE** including:
  - overtemperature automatic shutdown
  - ON/OFF control (via RS 232 protocol), controls over internal temperature, fans function (on/off), ambient light sensor (auto-dimming), shock sensor and fans regulation (by means of an optional module)
- complete **ADVANCED DIAGNOSTIC SOFTWARE** (only over integrated PC i2703 module), and by means of a dedicated **SNMP protocol and Checkview local software** for diagnostics, including:
  - ambient light control (autodimming),
  - control for internal voltages, backlight, fans status and regulation, shock sensor

ARRANGEMENTS
- with/without PC module (standard versions)
- internal VGA/HDMI extender (on special project request)

OPTIONS
- capacitive **Touch Screen system**
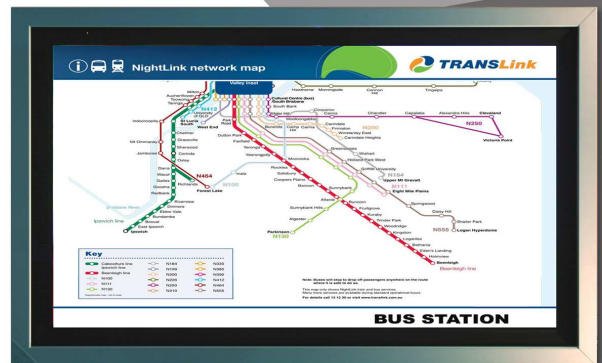- **integrated heater** (up to -30°)

side PORTRAIT view

Internal passive cooling with any external airflow exchange available over specific versions

Special Compass-opening,for an easy single user maintenance

frontal LANDSCAPE view

LCD industrial panels for a 24/7 continuous working

ANTIGLARE or SUNSTOP front laminated protective glasses

INTEGRATED PC
VERSIONS:

STANDARD VERSIONS:

AIRTANK 46 – 700
AIRTANK 32 PC 330
AIRTANK 46 PC 330 – 700
AIRTANK 46 – 1500 H
AIRTANK 46 PC 330 – 1500 H
AIRTANK 46 – 1500 V
AIRTANK 46 PC 330 – 1500 V
AIRTANK 46 PC I3 – 700
AIRTANK 46 PC I3 – 1500 H
AIRTANK 46 PC I3 – 1500 V

AIRTANK LCD OUTDOOR series

COMPASS-opening functionality

AIRTANK Hantarex monitors have a built-in structure, based over a **special anodized aluminum alloy cabinet**, with hi-protective grade (IP54 or IP66 compliance). The monitors have been designed for public information applications in **critical environments**, such as:

· Railways stations
· Bus or tramways stations or hubs
· Subways stations
· Public information system for outdoor
· Generic displays located under critical weather conditions

These environments require a high protection level to avoid reliability problems generated by dust, water and humidity which can strongly reduce the lifetime and/or the device's functionality.

The AIRTANK design and structure make these problems swept away. The monitors are **armored monitors**, boasting, as per its name, a hi-protection level. The monitors are rugged monitors, with a an **IP66 or an IP54** protection level. This compliances provide over some versions (the 46" AIRTANK 700 cd/sqm models), the versions to use **passive cooling with any external airflow exchange.**
Internal air is clean and it does not generate itself any dust or water problems. Of course this leads to big advantages in terms of reliability, safety and device durability.

Hantarex monitors provide an advanced technology able to **use high brightness panels** even in full sun exposure conditions, without any roof or protection cover.
AIRTANK is then a monitor not only to support critical environmental conditions, but also to be used for **Direct Sun applications.**

AIRTANK monitor allows the user to **substitute every internal parts without unhook the monitor** from the wall or ceiling bracket. The special opening system provides a quick and efficient access to the internal components. **The special 'compass' opening** offers a strong maintenance and inspection phases' reduction and a meaningful ease of intervention: **just one service people is requested.**

Hantarex monitors AIRTANK use only LCD panels designed for industrial environments with continuous usage **24h per day and 7 days a week (24/7)**. The other remaining components are as well industrial kinds, with extended temperature range.

Several versions are available with **HB high brightness 46" panels (1500 cd/sqm) with IP54 protection degree** for Direct Sun applications, and other versions are available **with 46" standard brightness (700 cd/mq) with IP66 protection degree** for generic Outdoor applications.

The Hantarex AIRTANK monitors are available in two versions, standard and with an Embedded PC module. Among the standard with Embedded PC the user can choose **two different PC module types, Type 210 suggested for FIDs/PIDs applications and Type 2703, suggested for Digital Signage applications.**
The user can **optionally** ask for a **special arrangement with a controller board or a video extender.**

Hantarex monitors AIRTANK allow the customer to **optionally select a special Touch Screen functionality (capacitive single-touch)**, and the front **frame color** as well as for the **logo** in the desired Pantone selection.

MONITOR TECHNICAL SPECIFICATIONS

CASE materials	Anodized aluminum
	46" e 32" : IP66
Protection degree against water and dust	46" HB: IP54
	IK10
Mechanical protection degree	EN60950
Reference safety standard	Hantarex Quick Opening system with compass-opening on horizontal and vertical
Maintenance	
External connections	For Airtank 32: power, LAN, USB or other on request
	For Airtank 46 versions: hermetic multi-connection box
Reference standard for glass	EN356
Protection glass	Laminated, antivandalism, antiglare, antistatic, light transmission coefficient 90%, Sun Stop glass (for version 46" HB only)
Thermal control	Winter mode
	Heater to startup at working temperature of min. -20°C (option), Antimoisture devices
Ventilation	Fan automatic control
	Hantarex special ventilation system with no filters (IP66 versions)
ENVIRONMENT operating temperature	- 5°/+ 35° C (continuous operations 24/7, no heater)
operating temperature with heater	- 20°/+ 35° C
relative humidity	10-90% (no condensing)
DISPLAY Tecnology	LCD TFT
Dimension	32"-46"
Aspect ratio	16:9
Native resolution	1366x768 pixel (32" e 46" HB) or 1920x1080 pixel (46")
Colors	16 M
Brightness	46" HB: 1500 cd/sqm
	46" : 700 cd/sqm
	32": 450 cd/sqm
Contrast ratio	46" HB: 3000:1
	46": 4000:1
	32": 3500:1
View angle	178°
Orientation	Horizontal or vertical
Response time	< 8 ms
Support for high brightness	Version 46" HB supporting Sun Direct applications (unprotected sun exposure)
CONTROLLER	For MONITOR ONLY versions (suggested for INPUT VIDEO applications)
Video interface	Analog (VGA, D-Sub 15 pin), digital (DVI-I and HDMI)(internal connections for versions with PC330, external connections for versions with monitor only)
Control	Serial port (9 pin Dsub)
	IR remote control, serial protocol for controlling video parameters, ambient light automatic control (autodimming)
Video control	Via OSD (brightness, contrast, color, sharpness, various zooms, autoadjust, dimming, autodimming)
Screen saver	Presettable (blue screen, pixel shift, wiper, gray background)
Timer	Presettable for internal time, wakeup, sleep
STANDARD DIAGNOSTICS	- over temperature automatic shutdown
	- ON/OFF control (via RS 232 protocol), controls over internal temperature, fans function (on/off), ambient light sensor (auto-dimming), shock sensor and fans regulation (by means of an optional module)
CONTROLLER	For versions with PC, suggested for DIGITAL SIGNAGE applications
Video interface	Digital (LVDS)(internal connections)
Control	Serial port (9 pin Dsub)
Video control	via lan, local program for controlling monitors parameters, ambient light automatic control (autodimming)
ADVANCED DIAGNOSTICS	complete ADVANCED DIAGNOSTIC SOFTWARE (only over integrated PC 2703 module), and by means of a dedicated SNMP protocol and Checkview local software for diagnostics, including: - ambient light control (autodimming), - control for internal voltages, backlight, fans status and regulation, shock sensor

	COMPUTER type 210 for FIDs/PIDs applications	**COMPUTER type 2703 for DIGITAL SIGNAGE applications**
CPU	Intel Atom N270 1.6 Ghz	Intel Core i3 M330 2.13 Ghz
RAM (default)	2 Gb	2 GB
non volatile	SSD -16 Gb /HDD 250 Gb	SSD up to 16 Gb / 250 Gb HDD
GRAPHICS	1920x1080 pixel Digital Internal	1920x1080 pixel Digital Internal
LAN	GigaEthernet 10/100/1000	GigaEthernet 10/100/1000
WLAN	802.11 g/n (option)	802.11 g/n (option)
other connectivity	on request	on request
interaction	keyboard/trackball wireless	keyboard/trackball wireless
operating system	Windows XP embedded	Windows 7 embedded

DIGITAL SIGNAGE

No Limits for Digital Signage

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