

Keeping your visibility on the safe side

Pixy AG is a leading global electronics company active in the development and manufacture of customer-specific visualisation systems for the transport industry (rail, air and water traffic). At its head office in Turgi (Switzerland) and its subsidiary in Shanghai, high-quality devices and software for data visualisation are manufactured. All products meet the extreme requirements for smooth operation in rough mobile and industrial environments. On account of its long-standing experience in the data visualisation field and constant innovation capacity, the customers can fully depend on the reliability of the devices.



General Principle

Pixy is particularly interested in the long-term satisfaction of its customers, staff and suppliers. The continuous development of company networks and strategic partnerships considerably increases performance. Innovation and high quality standards are the basis for developing new technologies which Pixy makes available for exploitation by its customers. The dedication, team spirit, flexibility and willingness of our staff members to assume responsibility are the foundation for success.

Certification

The success of the Pixy products and services is the result of its consistent focus on high-quality services. Quality management is applied to all areas of Pixy AG, ranging from the selection of product components to the planning of research and development and process design in manufacturing.

- IRIS Rev. 02
- ISO 9001:2008
- ISO 14001:2004

Global deployment



Pixy products are used wherever the need for mobile visualisation encounters a raw industrial environment. Whether in arctic cold or oven-like heat – our users can count on our products reliability. Robustness and an above-average long-term service life are additional characteristics of our Screenboards®.

Local presence in a global market

For the worldwide deployment of our products, our local marketing partners are in daily action. Their specific knowledge of regional markets is a clear success factor in the planning and accompaniment of our projects. Intensive training programs help optimise collaboration between the marketing partners and Pixy headquarters in Turgi, Switzerland, and to continuously improve of their knowledge of our products and company. The asian Market is completely handled by the Pixy subsidiary in Shanghai.

Pixy (Shanghai) Co. Ltd.
Shanghai / China
<http://www.pixychina.cn>



Development, production and sales
for the Asian market

Rail Comp s.r.o.
Prague 5 / Czech Republic
<http://www.railcomp.cz>



Sales and support
for the Czech Republic and Slovakia

B & L International SP. Zo.o.
Warsaw / Poland
<http://www.bil.com.pl>



Sales and support
for the Polish market

Pishro Control Saman PCS
Tehran / Iran
<http://www.samancontrol.com>



Sales and support
for the Islamic Republic Iran

TCMS



Complete hardware and software solution for diagnostic system visualization.

Video



Complete TCP/IP video solutions (rear-view mirror replacement, compartment monitoring) comprising hardware and software.

CBTC



Customized visualization (hard- and software) for the control of local passenger trains.

ETCS



Certified hardware and ETCS application software from one source.

Mobile visualization systems

Whether for new vehicles or refurbishment projects, our products are available in a number of sizes and performance classes. Developed in accordance with the European railway standard EN 50155, all devices operate in the extended temperature range (-40 to $+70$ °C) and fulfil the corresponding EMC, shock and vibration test requirements.



Screenboards® Serie INC



Key Features:

- Open hardware architecture
- Allows the flexibility to choose between multiple options (e.g. communication interfaces, operating systems, display sizes)
- Ideal for integrating into existing control systems (e.g. migration of existing applications)
- Suitable for TCMS-, signalling- and/or video-applications

Screenboards® Serie SIP



Key Features:

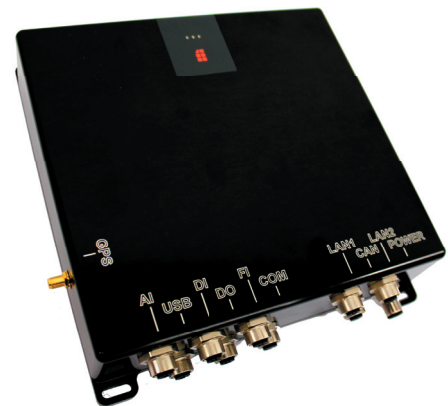
- Profound hardware architecture
- Delivered with Pixy Application Designer (PAD)
- Simple and flexible application programming
- Short time-to-market
- Minimum system costs
- Suitable for TCMS-, signalling- and/or video-applications

Recent developments



The **INC-100** is a 10.4" flat DMI with an Intel Atom processor and LED backlight. The high-performance device is particularly suitable for TCMS and video applications (analog & digital) and includes all the standard interfaces. Due to the fast CPU, RAM and a CFast card connected to a SATA interface, the boot time is significantly shorter than in previous models. The INC-100 is also equipped with an optional additional 1.4" status display on the top left.

The mobile data recording device **DLU-10** is designed for use on mobile platforms in industrial environments under extreme environmental conditions or outdoors. The typical applications of the DLU range from testing and diagnostics (Commissioning of the train / error analysis) Long-term data acquisition (recording the operation hours of the train) and optimizations based on train statistics to eliminate performance or weakness issues.



SIP-32 is a 6.5" DMI with an ARM Cortex-A8 processor and LED backlight. It is a low-cost, mid-performance display, which is preferably used in TCMS applications. The standard interfaces include CAN, Ethernet and USB. Other important features are the long life, the extra robust design of components and housing as well as an attractive design. The SIP-32 is easy to program with PAD.

Pixy Screenboards®

	INC-9n.xx	INC-10n.xx	SIP-2n.xx	SIP-3n.xx
CPU	Intel ATOM Z520PT	Intel ATOM E3845	Intel ATOM Z520PT	ARM Cortex-A8
Chipset	USW15PT	-	USW15PT	-
RAM	1 GB	2 GB	1 GB	1 GB
Flash	on board (4GB)	4 - 32 GB CFast	on board (4GB)	2 GB SD Card
TFT display, size	8.4" / 10.4" / 12.1"	10.4" / 12.1"	8.4" / 10.4" / 12.1"	6.5" / 10.4" / 12.1"
TFT display, resolution *	VGA / SVGA / XGA	VGA / SVGA / XGA	VGA / SVGA / XGA	VGA / SVGA
TFT display, brightness *	420 - 600 cd/m2	420 - 600 cd/m2	420 - 600 cd/m2	420 - 1300 cd/m2
Backlight	LED	LED	LED	LED
MTBF Backlight *	70k / 100k h (half brightness)	70k / 100k h (half brightness)	70k / 100k h (half brightness)	70k h (half brightness)
Touch	resistive	resistive	resistive	resistive
Keys (max.) *	26 / 32	32	26 / 32	20 / 32
Power Consumption	20 W	25 W	20 W	12 W
Fieldbuses:				
LAN 100BASE-TX	✓ (2x)	✓ (2x)	✓ (2x)	✓ (2x)
VLAN	✓	✓		
CAN	✓	✓	✓	✓
MVB	✓	✓	✓	
RS422	✓	✓		
RS485	✓	✓		
Audio (Stereo) / Buzzer	✓ / ✓	✓ / ✓	✓ / ✓	✓ / ✓
Service Interface USB	✓	✓	✓	✓
Applications:				
TCMS	✓	✓	✓	✓
ETCS	✓	✓		
CBTC	✓	✓		
Video Application digital	✓	✓		
Turnkey Solution	✓	✓	✓	✓
Operating Systems:				
Pixy-Linux	✓	✓		
Microsoft WES 2009	✓			
Software:				
Pixy Appl. Designer (PAD)			✓	✓
Pixy Video Appl. (PVA)	✓	✓		
MVB API	✓	✓		
CANopen Stack	✓	✓	✓	✓
Temperature Range:				
Operational temp.	-40...+70°C	-40...+70°C	-40...+70°C	-40...+70°C
Storage temp.	-40...+70°C	-40...+70°C	-40...+70°C	-40...+70°C
IP Class (Front / Device)	65 / 42	65 / 42	65 / 42	65 / 42

* Depending on the device size



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High-grade driver's desk displays and software
for diagnosis, signaling and video-applications

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