pixometer

Meter reading via smartphone camera



From the consumer straight into your accounting system



Meter reading via smartphone camera

Scanning is the new typing

As easy as scanning a bar code

Point the smartphone or tablet camera at the meter. *pixometer* finds the counter in the whole image – there is no need to align the counter to a fixed frame on the screen. Readings from electricity, gas, or water meters are recognized almost instantly. It is that simple.

Mobile image recognition

Detection and recognition do not require a connection to the cloud – anywhere. The captured value is instantly available and will be read out loud, if you like.

Optimum image quality

During the scan, *pixometer* monitors image quality and controls camera parameters. This ensures best image quality for reliable detection.

Evidence of reading

The underlying image can be stored along with the recognized meter value. It shows the complete meter and may be used for later reference.



Try pixometer now!



http://pixometer.io

A smart move: Your benefits from pixometer

Quick - Efficient - State-of-the-art

The full solution for municipalities and utilities

pixometer comprises the complete solution for meter reading submission by the customer: a branded customer app, middleware for data management, interfaces to billing systems and to meter data management systems.

The submission of readings with a customer app is a smart alternative to postcards or a web portal:

Customer motivation

- · Quick and easy reading submission
- No appointments with professional meter readers. No filling out postcards
- Platform for additional value: send news, give saving hints, provide customer service through the app

Streamline processes, reduce costs

- Saves time and money by submitting data straight into accounting system
- Fast and accurate recognition of meter readings
- Efficient submission by the customer with high return rates
- Avoidance of expensive and cumbersome reading and submission errors
- Direct gateway to your accounting system
- Photo for later reference
- Customer retention with a modern app

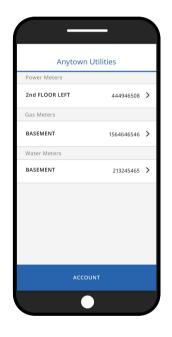
Act in the spirit of EC Energy Efficiency Directive

- Consumption transparency through display of consumption and cost trends
- Lowest effort for regular consumption readings
- Awareness and incentive to save energy

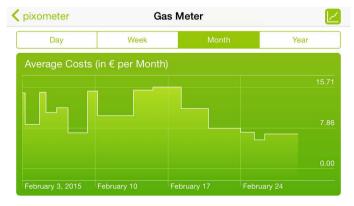
Your custom pixometer

Register - Scan - Save

pixometer can become your new communication channel to customers. The *pixometer* customer app includes:



- Your branding
- Capture and recognition of meter readings with the smartphone camera
- · Consumption plots and trends
- · Always up-to-date readings and contract data
- Easy registration process based on contract number and e-mail address
- Automatic and reliable synchronization of contract data and readings through encrypted communication with SSL/TLS
- Integration of your content (news, customer service, energy saving hints, etc.)
- Native app for iOS and Android



pixometer provides the shortcut

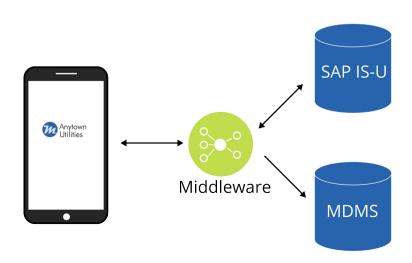
From the consumer's basement into your accounting system

Gateway to your accounting

In addition to the customer app, *pixometer* comprises the matching server component (middleware). It handles synchronization with the app and provides a user interface for your employees. In conjunction with our partners *ConVista* and *dvs.net*, we offer solutions interfacing with your accounting or your meter data management system (MDMS). Between meter and bill, there is no media break.

pixometer middleware at a glance:

- · Web interface for managing customer, meter, and reading data
- · Plausibility check of meter readings
- Interface to SAP IS-II
- Interface to meter data management systems
- REST interface for connection of any services, such as an already existing web portal



pixometer SDK: Meter capture on your app

Get more out of your app

You already have an app?

Our meter reading module can easily be integrated into your existing app. Provide your customers with easy means to capture and submit their readings. Benefit from the efficiency of our recognition technology.

pixometer SDK at a glance:

- State-of-the-art image recognition for your app
- Reliable detection and recognition of meter readings for electricity, gas, and water
- · Image recognition on the device
- Simultaneous detection of multiple counters on multi-tariff meters
- Quality-controlled reference image of the meter
- Switch for camera torch

pixometer SDK APIs:

- Native Software Development Kit (SDK) for iOS and Android
- SDK for app frameworks *PhoneGap/Cordova* and *Appcelerator Titanium*

pixometer Pro: Solution for workforces

Tool for professionals: Click, Point, Done.

Camera based meter recognition for technicians

pixometer Pro is our solution for enterprises. Support your employees in field service processes. Be it meter exchange or gauging, our recognition module can be made accessible at the push of a button on your technician's mobile computer. This saves tedious and error prone entry with an on-screen keyboard.

Together with our partner *Greengate*, we offer a seamless integration into *GS-Mobile*, a mobile solution for contract documentation. For workforce management systems such as *GE Field Force Automation*, we offer a flexible solution that hands over captured data to the application.



pixometer Pro at a glance:

- · Acquires meter reading, meter number (via barcode) and reference image
- Detection is initiated by hardware button (e.g. devices by *Motion*) or from the Windows Quick Launch bar (e.g. *Panasonic* devices)
- Images are stored in the file system for later reference

pixolus

mobile visual data capture



Dr. Markus Beermann, Dr. Mark Asbach, Dr. Steffen Kamp, Dipl.-Ing. Marco Lierfeld, Dr. Barbara Krausz, Dr. Stefan Krausz

pixolus GmbH

Eupener Str. 165 50933 Cologne, Germany http://pixolus.de

Contact:

Dr. Stefan Krausz +49 221 949992-0 stefan.krausz@pixolus.de

Our partners:







