

Table of Contents

01.

Technology That Makes You Feel Good Lobby FAYTECH® 55" MEGASCREEN FOR A PLEASANT STAY 07. 02. Welcome to HOTEL PYRAMID! FAYTECH® 15.6" INTERACTIVE MIRROR 03. 08. HOReception Lobby and Lounge Areas POLYTOUCH® NEO 21.5 POLYTOUCH® FLEX21.5 CHECK-IN & CHECK-IN PRO 04. 09. Reception Hotel Parking Lot & Outdoor Arrival Area POLYTOUCH® FLEX21.5 LITE POLYTOUCH® OUTDOOR 05. 10. Cafeteria & Hotel Restaurant Backoffice POLYTOUCH® PASSPORT 32 & AKHET® VARIOFLEX PYRAMID LOCATION SYSTEM

06.

This brochure introduces Pyramid as your partner for the digitalization of your hospitality business with self-service terminals, digital signage and IT servers.

We will show you how our three brands AKHET®, faytech® and POLYTOUCH® cover the entire digitalization chain in the hospitality industry in an isometric overview. Welcome Good Design Award. The GDA is one of the most prestigious to the virtual "Hotel Pyramid!"

The solutions you will discover there are available in baseline configurations that cover numerous applications off the shelf. Additional purchases of optional components or peripheral modules are generally not necessary.

For special use cases, our hardware's platform principle supports the cost-efficient and rapid implementation of As you will see: We will accompany you as your competent your special requirements. This makes Pyramid your first choice for setting up a new or modernizing an existing digital infrastructure in your hospitality business, regardless of whether you opt for an off-the-shelf configuration or a custom solution.

The functional and attractive design of our self-service terminals, which usually integrate all peripheral devices within the chassis, has received several international

In 2020, the FLEX received the European Design Award; in 2021 the NANO received the Chicago Athenaeum's awards for industrial and product design in the world.

Also important to know: We will provide you with a dedicated contact person for your digitalization project. He or she will be an expert in your industry and will support you from kick-off to roll-out and beyond. A telephone service line is also available to answer your questions.

partner in the digitalization of your hotel, motel or hostel, with innovative technologies, designs and services.

We are Pyramid: Agile. Creative. Reliable.

ABOUT THE AUTHOR

Dr. Christian Hartmeier...

is Content Creator for Pyramid's AKHET® (industrial computers and servers), faytech® (touch monitors and touch computers) and POLYTOUCH® (self-service terminals, paging and location systems) brands.



01. TECHNOLOGY THAT MAKES YOU FEEL GOOD

In the hospitality industry, guests' contact with staff is a decisive factor in guest satisfaction: checking in and out at reception, reserving a table for breakfast, or discussing options for a stroll through the city.

However, the personnel shortage, both in Germany and in other countries, is making this difficult: employee time has become a precious commodity. More and more tasks are landing on fewer shoulders. Recruiting additional staff is often unsuccessful, despite the administrative effort being expended on it. Under these circumstances, meeting guests' expectations becomes a feat. Cutting services or reducing opening hours is not a solution for this dilemma.

Considering all this, it makes more sense to concentrate scarce employee resources where they provide guests the greatest added value, and to hand over to technology solutions those tasks that can be digitized without sacrificing service quality.

These include terminals for self-service check-in. No guest wants to wait at reception – neither the business traveler after a hard day's work nor a family after a long journey on crowded roads. With one or more kiosk systems in your lobby, you can multiply the speed of check-in and ensure that the guests' stress ends when they arrive at your accommodation.

Another standard service in every hospitality establishment is providing information to guests. Questions about the hotel, public transit and popular sights in the city are usually top of mind. This is another service that is amenable to digitalization, by using a terminal to provide answers electronically.

Technology solutions can free up your staff to provide those services that make guests want to come back and recommend your accommodation. So let your staff do what machines cannot, for example, handing out small birthday presents, creating proposals for group tours, having cribs set up, providing hikers with boxed lunches, delivering room service, calling a taxi, and – most crucial of all – dealing with complaints.

If you are asking yourself how your guests will react to such technology solutions, you should know that acceptance of self-service solutions is increasing in all sectors, and the hospitality industry is no exception. In many places, digitalization has not just begun, but is already well advanced. This also applies to hotels, motels and hostels: the use of self-service offerings increases if guests derive recognizable benefits from them and the systems are easy to use.

In addition, in 2021, 20 to 49-year-olds accounted for almost 50 % of vacation travelers in Germany. Generation Y and Generation Z are very open to technology in all areas of life. For them, human-to-human interaction is no longer as important as it was to previous generations. Self-service stations at their accommodation are just as natural to them as booking rental cars online, automated self-check-in at airports, and online shopping on the internet.

Due to the extensive differentiation in the hospitality industry, there is no one golden path to successful digitalization. Individual hospitality establishments have different requirements than small chains, and these in turn have different requirements from large chains. Each operator has to decide for themselves which digital components will bring the greatest benefits to their guests, their employees and themselves. Our experts will be happy to advise you! The same also applies to the interfaces between our terminals and your HMS, door locking system and payment processor.

Pyramid wishes you an informative read!





The AKHET®, faytech® and POLYTOUCH® brands form an ecosystem that gives Pyramid customers numerous competitive advantages:

Advantage 1

The technologies of the Pyramid brands complement each other perfectly. Wherever possible, we use our own components for our solutions. For example, the heart of our new OUTDOOR, a self-service terminal for outdoor areas, is an AKHET® industrial computer. The touchscreen comes from faytech®. POLYTOUCH® provides the kiosk-specific hardware. The interaction of these three in-house brands results in optimum compatibility, quality and performance.

Advantage 2

With our brands, we serve entire digitalization flows, i.e., Pyramid customers benefit from a wide range of solutions. They receive technology from a single source for their individual use cases and touchpoints. This also applies to our consulting services: since our experts come from one company, they can guarantee uniform and coordinated partial solutions that combine to form the optimal overall solution. This eliminates overlapping areas of responsibility and mutual finger-pointing between different project participants if ever something goes wrong.

Advantage 3

Our supplier network and our in-house production capacities in Europe and Asia are critical to the security of our supply chain, especially in the crisis-ridden procurement situations for electronic products, components and parts.



6

02. WELCOME...

...TO HOTEL PYRAMID

Outdoors

(1) faytech® 43" A-FRAME 4K Eye-catcher designed to elicit the impulse to enter

(2) POLYTOUCH® OUTDOOR

24/7 self-check-in and check-out (RFID room cards)

Lobby and Reception

(3) POLYTOUCH® PASSPORT 32

Self-check-in and check-out for guests during opening hours Self-checkout of items from the hotel's 24/7 tiny store

(4) POLYTOUCH® FLEX21.5 CHECKIN PRO

Assisted self-check-in and check-out during opening hours

Elevator/Corridor

(5) faytech® 21.5" INFORMER

Information about the hotel, the weather, regional events,...

(6) POLYTOUCH® NEO 21.5

Digital guest directory in public areas

Guest Room

(7) faytech® MIRROR

Interactive bathroom mirror

(8) faytech® 55" MEGASCREEN

Streaming, TV, interactive infotainmen,...

Cafeteria/Restaurant

self-service technology solutions.

(9) POLYTOUCH® PASSPORT 32 & Pyramid Location System Self-service ordering of meals

Check-in and check-out as well as providing information to

guests are two of the touchpoints that can be transferred to

Our virtual Hotel PYRAMID shows how you can use our

AKHET®, faytech® and POLYTOUCH® technology at other

touchpoints to enhance the guest experience and make your

processes more efficient. Want some examples?

A study from 2022 found that 35 % of all EV drivers would like hotels to provide more charging station infrastructure. This makes it a must-have for accommodation providers, as its availability and reliability have a significant impact on guest

Backoffice

(13) AKHET® VarioFlex

Control of the technical infrastructure

PYRAMID), we have responded to this new requirement in the hospitality industry. The E-CHARGER's weatherproof

With the POLYTOUCH® E-CHARGER (Touchpoint 12 in Hotel design allows it to be used both indoors and outdoors.

13 Kitchen (10) faytech® IP65 TOUCH PC Workflow management 3 Logistics (11) POLYTOUCH® OUTDOOR Controlled vehicle access, e.g., for suppliers and guests (parking lot) **Parking Garage** (12) POLYTOUCH® E-CHARGER PYRAMID FOR INDIVIDUAL TOUCHPOINTS... Charging station for guests' electric vehicles, also for outdoor use

... or your entire digitalization flow!

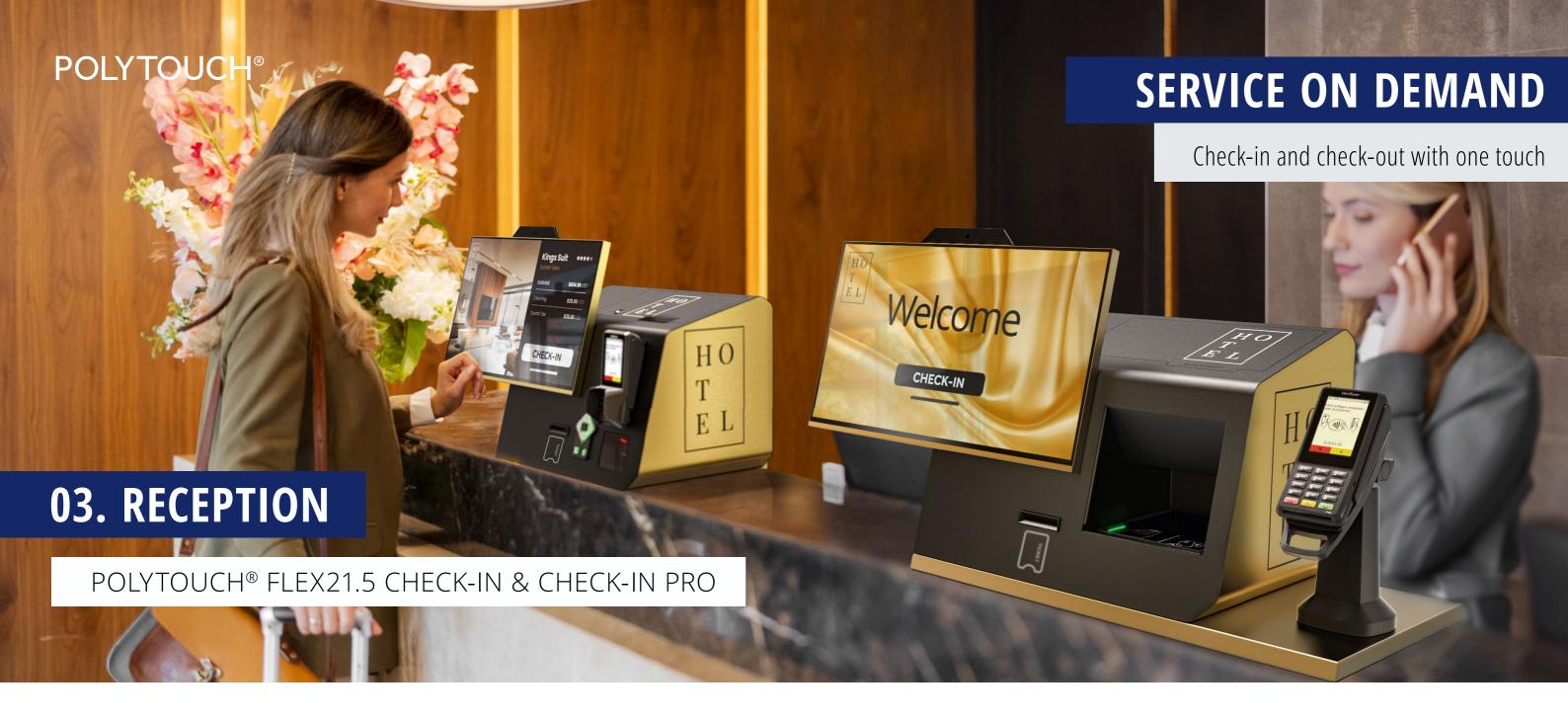
Outside is also where the POLYTOUCH® OUTDOOR feels at Are you curious to find out what Pyramid has to offer the ideal as a ticketing solution in the parking lot and for 24/7 self-check-in outside of the accommodation. 24/7 availability is particularly important for guests arriving from far away who can get delayed in traffic. 24/7 means: no more nerve-wracking race against time, but a relaxed check-in, even when the hotel is closed.

home. It is based on the same hardware platform and is hospitality industry? Then please enter our virtual hotel. The QR code below will take you to our website, where you can interact with the virtual hotel. Have fun!





The progress in electric vehicles has created a new touchpoint between accommodation and guests.



The guest's first and last touchpoint with an accommodation is reception. The experience there significantly influences the reviews that guests leave on social media after their stay.

In order for you to get five stars every time, there is the POLYTOUCH® FLEX21.5 CHECK-IN (kiosk on the left). Your guests can use it to check in and out themselves.

For reliable and modern self-service, we have equipped the terminal with peripherals from renowned manufacturers, and housed it in a robust stainless steel chassis: the printer is from Epson, the payment module from Verifone, the scanner from Zebra and the card dispenser from Metriax.

The FLEX is operated via a slim, almost frameless touch display with the look and feel of a tablet. This familiar usability makes self-service inviting for all generations. Even older people know intuitively what to do. Our terminal for the

hospitality industry is based on the FLEX platform, which won the prestigious European Design Award in 2020. With the FLEX and the software application of your choice, you can automateself-service for the benefit of staff and guests.

For example, the guest starts by selecting the language in which they would like the FLEX to guide them through the check-in process. They then scan the QR code they received when they made their booking online, taking it along in electronic form on their cell phone or as a paper printout. The guest then completes any missing data, such as their ID card or passport number, using the virtual on-screen keyboard.

Once the formalities have been completed, the guest receives the RFID room card and the legally required receipts from the FLEX21.5. Self-service check-in creates a win-win situation: the guest's waiting time at reception is reduced, and staff are relieved of administrative tasks.

The manual entry of information and the dreaded check-in errors caused by time pressure are now a thing of the past. The digital registration form is available immediately after self-check-in, and by that time, all data about the system (HMS).

Would you like to automate check-in using your guests'

travel and identity documents? No problem! The FLEX21.5 is also available in a PRO version (kiosk on the right). This is equipped with the Thales Gemalto Document Reader AT10K, which checks and authenticates data from electronic ID documents and driver's licenses. The captured data is then automatically stored in the HMS.

And what about checkout? With the FLEX21.5, this can easily be digitized in the same way as check-in. Guests simply select the checkout tile on the FLEX and then click on their guest and their stay re already in the hotel management reservation. The HMS checks whether the guest still has any outstanding items to pay. After the successful payment process through the payment module, room access expires.



GREAT SERVICE...

...in a small format

The POLYTOUCH® FLEX21.5 LITE is the little brother of the FLEX21.5. It is a self-service kiosk concentrated down to the absolute minimum. We developed it for accommodations that require a terminal with minimal space requirements in the lobby or at reception.

But don't worry! Despite its ultra-compact footprint of just $31.8 \times 15.1 \text{ cm}$ ($12.5 \times 6 \text{ inch}$), the POLYTOUCH® FLEX21.5 LITE has everything you need for convenient self-check-in and self-check-out: a 21.5" full-HD touch display, a scanner, and a payment system. The room cards are housed in a stylish dispenser and are briefly placed on the RFID pad by the guest to encode the information.

And what about a printer? Can the FLEX21.5 LITE issue receipts? Yes, it can: on the screen as a QR code! The guest can scan it with their cell phone and take their electronic receipt with them. So much FLEX LITE technology may not fit in a vest pocket, but it does fit in the smallest lobby.

Important to know: you can also use the self-check-in system to inquire about guests' wishes as soon as they arrive. How often should the room be cleaned during their stay, at what interval should the towels in the bathroom be changed? These are just two examples of information that can be collected efficiently without any contact with staff

In addition, self-check-in is an excellent opportunity for you to offer and charge for additional services: perhaps your guest would like to upgrade to a better room, book breakfast, rent a bicycle or use a parking space on the property?

As you can see: with the terminal family POLYTOUCH® FLEX21.5, you not only successfully digitize check-in and check-out, these systems also streamline communication with your guests and open up additional sources of revenue without the need for staff to intervene.



05. CAFETERIA & HOTEL RESTAURANT

POLYTOUCH® PASSPORT 32 & PYRAMID LOCATION SYSTEM

Cafeterias and restaurants in hotels are professional catering establishments with an extensive selection of dishes, salads, cakes and beverages.

Reliable service staff are needed to take orders, serve Converting or retrofitting the kiosk with peripheral modfood items and collect the bill! But where to find them in times of personnel shortages everywhere?

Have you ever thought about digital support? A POLYTOUCH® PASSPORT 32 can multiply the speed of ordering and payment processing. It can handle a long queue in no time at all, freeing up your restaurant staff.

How does this work? Guests place their orders at the PASSPORT 32 using self-service. The large 32" full-HD touchscreen effectively shows off your food and beverage offerings. This gives your guests a realistic impression of the freshness and quality that your kitchen prepares. Cashless payment can be made directly at the terminal with a debit or credit card.

The advantages of the slim PASSPORT include its space-saving design for easy integration into any room concept. The elegant look of the terminal is partially due to its cable-free appearance: in the standalone version, the base serves as a channel for the cables that supply the kiosk with power and data.

In the version with two displays, the PASSPORT serves ordering. several guests at the same time, thus reducing waiting times during busy periods even more.

ules is straightforward. There is plenty of space for them in the console (belly) and in the frame. This means maximum flexibility for the intended use, and high cost efficiency when the specific use case changes.

If you're thinking: "That's all well and good, but how do the food and beverages get to the guest?" The solution is called PYRAMID LOCATION SYSTEM (PLS) and works like this: after payment has been received, the PASSPORT 32 issues the guest a pager. With the small disk in hand or pocket, the guest can look for a seat in the restaurant. As soon as the order has been prepared, the PASSPORT 32 receives a message from the PLS, which it passes on to the guest by means of an acoustic or visual signal. The guest can now make their way to the food counter, where their delicious meal is waiting for them.

Do you offer table service? Then use the PLS to ensure that every meal reaches the guest quickly and reliably! The PLS tracks a person in real time via the pager, meaning changes in position are registered immediately and displayed to the service staff on a monitor and/or tablet. This enables the waiter to find the guest even if they have moved after

Scan the QR code to watch the video!





SELF-ORDERING...

...with table service

06. LOBBY

FAYTECH® 55" MEGASCREEN

Whether personalized welcome messages, schedules for conferences or workshops at the hotel, invitations to rate their accommodation on social media, cultural tips about local customs, holidays or behavior...

The huge 55" screen of the MEGASCREEN by faytech® is an eye-catcher that prominently presents important information in full HD or 4K – including content to promote your own

Present your accommodation in the best light and invite guests on virtual tours behind the scenes! You can give your guests an insight into the kitchen, restaurant, front and back office and show them how one cog fits into the other. Or give your accommodation a human face by introducing the people who keep it running.

In short... for everything of relevance, the MEGASCREEN is your unmissable ambassador in the public areas in the hotel and, if you wish, entertainer as well, because the MEGASCREEN is also available with a touch panel!

Your guests can use the touch panel to interact with the content on the display. Pure infotainment! The resulting use cases are as numerous as they are exciting: surfing the Internet, talking with avatars, quizzes and puzzle games to shorten the time until they have to leave or their event interface if this is desired or required. starts. The possibilities are endless...

With these services, you increase loyalty to your brand and thus your guests' loyalty to your hotel! Of course, you can also simply run popular videos on the MEGASCREEN.

Would you like some technical details on the MEGASCREEN? Its optical bonding guarantees very good readability and visibility of screen content even under difficult lighting conditions. No matter where it is placed, the colors are so crisp and the details so sharp that viewing the content is a feast for the eyes.

The LED backlight has a service life of 100,000 hours. This corresponds to a durability of an incredible 12 years in 24/7 continuous operation! So you can be sure that the MEGASCREEN will reward your purchase with a high return on investment.

The touch panel is made of 2.8 mm thick glass with hardness grade 7 and is therefore highly resistant to damage. Its antimicrobial coating reliably destroys bacteria

Good to know: a fully-fledged media player is integrated into the MEGASCREEN, which means that media content can also be maintained and presented locally via USB

Scan the QR code





INFORMATION CENTER





GUARANTEED VARIETY

A mirror that shows more than just the person standing in front of it!

Some people have their best ideas when shaving or applying eyeliner. For most, their routine in front of a mirror is wasted time. You can change that for your guests! How? With an interactive mirror from faytech[®].

The mirror with an elegant aluminum frame measures 70 cm high by 50 cm wide (27.5 x 20 inch). At its heart is a touch computer, whose full-HD display is seamlessly embedded in the lower half of the surface.

This means that our mirror not only assists your guests with their morning and evening grooming – its real specialty is entertainment and information: news, weather forecasts, feature films on TV or music from the radio, hotel and city news... Using intuitive operating gestures, guests navigate through the channels on the 15.6" touchscreen and choose the media content that will make their stay in the bathroom as pleasant as possible.

If there is nothing suitable, the mirror turns every guest into their own producer. The mirror can be easily connected to any modern mobile device via the Bluetooth interface. The app required for this is available to download free of charge from the App Store and Google Play. It allows guests to transfer the screen content of their cell phone or tablet to the display in the mirror. Of course, the app can also be used to control the mirror, e.g., to dim the light of the LED strip to the desired level or to program the alarm function.

As you can see: this exclusive mirror is a really unique selling point for hoteliers who want to impress their guests with a different kind of self-service technology. Generation Y and Z travelers in particular, to whom mobile touch technologies play an important role in everyday life, will appreciate and use the interactive mirror in the bathroom.

The interactive mirror by faytech has a local network module that connects it to your hotel's network. The luminance of its LCD display is 1000 nits (cd/m²). This means that the visual content is clearly visible, even in bright ambient light. For the demanding conditions in the bathroom, we have provided the mirror with IP65 protection, so that splashes or jets of water, from whatever direction, cannot harm it.

Are you interested? We have prepared the full technical details for you in a data sheet and a product video. Simply scan the QR code and watch! By the way: when the touch computer is deactivated, the mirror is simply a mirror. So yes, it can do mirror.

Scan the QR code to read the datasheet





Scan the QR code to watch the video







Where is the nearest subway station? Where is the nearest pharmacy? What is the quickest way to the train station? What is the rental car company's telephone number? What time does the breakfast buffet open? What's on the menu today? Where can I find the wellness area and how do I book a massage?

Your guests have lots of questions! Leave the answers to the POLYTOUCH® NEO 21.5 – for example in the lobby and in the common areas on the floors. Its knowledge repository is a digital guest folder that your staff and you prepare for your guests. It stores all relevant information, so that it is centrally and quickly accessible for your guests. Guests

appreciate this convenience, which saves them a tedious search for individual topics on the Internet or having to find a staff person to ask.

You can present the answers in the form of text panels, videos or images. The NEO brings them to the guests on its 21.5 full-HD touchscreen in razor-sharp, brilliant colors. A few operating gestures are all it takes to access the desired content: Schedules for public transit near the hotel; tips on parking options; trendy bars in the area; videos or picture galleries of the accommodation's wellness area; information and links to cultural providers ... the possibilities are endless

Of course, your guests can also communicate with staff via the NEO. If they liked the video about the wellness area and are attracted by its offerings, why not include an option for booking a sauna session, massage or other services on the NEO? If you wish, we can equip the terminal with a payment module that guests can use to pay for their services immediately.

Like every POLYTOUCH® self-service kiosk from Pyramid, the NEO can be easily and cost-effectively retrofitted with peripheral modules thanks to the platform principle. Your

use case changes? No problem! The NEO will come right along with you.

Finally: this terminal is not just functional! With its ultramodern and ultra-slim display (4 mm), it looks great in any accommodation. Do you prefer cool elegance? Then go for aluminum panel profiles! Do you want to add warmth to your lobby? In this case, we recommend real wood profiles! No matter how you dress up the NEO, it always makes self-service look inviting.

20 2°

09. HOTEL PARKING LOT & **OUTDOOR ARRIVAL AREA**

POLYTOUCH® OUTDOOR

Hotel digitalization doesn't just start at reception! A generous parking lot saves guests the stressful search for a parking space. If the purchase of a parking ticket at the self-service terminal runs smoothly, that's the first plus point for your accommodation.

parking fees are paid directly at the terminal, there will be no subsequent charges on the room bill. This avoids any

Selected hardware from a single source stands for high performance and ease of use in all seasons and predestines the terminal for continuous outdoor use. The OUTDOOR's full-HD touchscreen comes from faytech®, the industrial computer from AKHET®, and the kiosk technology from POLYTOUCH®.

The 32" touchscreen makes it easy for all generations to purchase tickets. In addition, the OUTDOOR presents guests with important information about your hotel's offers As a self-check-in and check-out terminal, the OUTDOOR while they are still in the parking lot. For example, you can draw attention to the opening hours of the restaurant or your spa facility.

There are advantages for guests and operators: when At 150 kg, the OUTDOOR is a weatherproof heavyweight with the perfect equipment for harsh and demanding environmental conditions: an active cooling system and a discussions at reception about unexpected invoice bright, high-contrast, anti-glare screen whose content is easy to read even in very bright sunlight.

> The LED backlight has a service life of 100,000 hours. This corresponds to 12 years in 24/7 operation. All this excellent technology is protected from damage by a front glass with hardness grade 7.

> What else is there to know about the OUTDOOR? Depending on the software application and peripheral modules, this terminal shines in even more all-weather use cases!

> extends arrival and departure times at your accommodation to 24/7. And as a charging station, it provides electric guests with the energy they need for their electric vehicle.







PARKING TICKETS & CHECK-IN, **CHECK-OUT & CHARGING STATION,...**

... fast & intuitive





A high-performance network infrastructure is necessary to provide guests with an optimal digital experience in their accommodation. This includes fast internet access, reliable and secure Wi-Fi, and a performant local network.

These three modules allow optimal networking between the HMS, telephone system, TVs, IT backup system, video surveillance, check-in and check-out system, IoT devices and the industrial computers, and therefore all processes.

Of course, IT security plays an important role in the hospitality industry, which stores highly sensitive data, so that data breaches or attacks on and in the network must be detected and defended against.

Pyramid is a leading developer and manufacturer of IT servers and industrial computers for B2B customers. In the field of IT security, Pyramid provides companies with hardware solutions. These serve robust and innovative security software as a powerful platform for securing critical infrastructures, e-government applications, official internal and external communication and industries.

For server infrastructure and virtualization, Pyramid produces servers from 1 to 4 height units for its customers according to their requirements. They are characterized by their customization options and proven longevity.

Communication in the business environment encompasses areas such as collaboration, mobility and productivity. Unified communications solutions occupy a central position in companies and are geared towards IP connectivity, reliability and scalability.

Thanks to the modular principle of AKHET® servers, manufacturers can offer complete solutions in their market whose equipment, performance, housing dimensions, branding and logistics (drop shipping) are precisely tailored to the desired company sizes.

PERFORMANT SERVERS...

...for efficient and secure data traffic.









