POLYTOUCH® OUTDOOR 32 STANDARD

Pictures show sample configurations, real product may vary.

SCAN ME

DISPLAY

Front	2.8 mm tempered front glass with brightness sensor
Screen diagonal	31.5"/80.01 cm
Aspect ratio	16:9
Surface hardness	7H
Surface treatment	Anti-Glare (chemically etched)
Resolution	1920 x 1080 (Full HD)
Colours	16.7 million
Brightness	1000 cd/m²
Contrast ratio	3000:1
Visual angle	178°/178° (horizontal/vertical)

COMPUTER UNIT

Processor	Intel® Core™ i5-1245UE
Memory	8 GB DDR4
Storage	1 x SSD 128 GB
LAN	2 x Gigabit Ethernet
OS	w/o OR Windows® 11 IoT

POWER

Power supply	100-240 V AC/DC active switching; 24 V DC out
Working power	24 V
Power consumption	Max. 750 W

SYSTEM

Material	Stainless steel, aluminum, glass
Coating	Class C4; RAL 7016/RAL 9006 *(according to corrosion protection classes DIN EN ISO 12944)*
Dimensions (WxDxH)	21.8 x 13.0 x 72.2 in (554 x 331 x 1835 mm)
Weight	125 kg
Mounting	Floor bolting Note: To ensure better ergonomics (ADA compliant), we recommend installing an additional pedestal or foundation. Recommended height: 120 to 230 mm.

CONFIGURATION

Printer	1 x Custom VKP 80 III
Scanner/Imager	1 x Zebra MS4717
Payment modules	Ingenico iUP250LE + iUR250 + iUC150B OR Verifone UX Series OR CCV OPP C60c (Compact) + SCR-C + COR-A10 OR Worldline Valina OR w/o payment module
AC-DC power supply	Balluff BAE0114
Cabinet heating	Rittal SK 3105.400
Antenna & Network	Teltonika Combo Siso Mobile; Teltonika RUT240
RCD circuit breaker	2 pin B 16A 0.03
Alarm system	Siren with keyswitch

Optional: UPS, foundation, WiFi antenna & router

ENVIRONMENTAL CONDITIONS

	Storage	Operating
Temperature	−20°C to +60°C	−15°C to +40°C
Humidity	5% to 95%[1]	10% to 90%[1]
Ingress protection	IP54	IP54
Operational requirements	Display must be aligned to the north	
Sun exposure	Max. 1090 W/m² @ 40°C *acc. EN60068-2-5*	

[1] non-condensing

CERTIFICATIONS

CE

PACKAGING & INDIVIDUAL WEIGHTS

	Weight	Dimensions	Stack
System incl. pallet	145 kg	578 x 335 x 1847 mm	—

INTENDED USE

The device intended for interaction with the customer is a kiosk system for outdoor use, consisting of a touch panel with an integrated PC and peripheral components such as a printer, scanner and payment module. Additional built-in components monitor and regulate the environmental and operating conditions of the system. The system is used in ticketing and digital signage. The touchscreen uses Projective Capacitive Technology (PCT) to recognize touch. The standard-relevant purpose of the device is the input of information via the touchscreen or scanner and, after appropriate processing in the PC, the display of ticket data on the touchscreen and in particular the issue of the ticket by the ticket printer. With this system, specific properties and functions of IT equipment are used and determine the conformity assessment according to EN 62368-1:2014.

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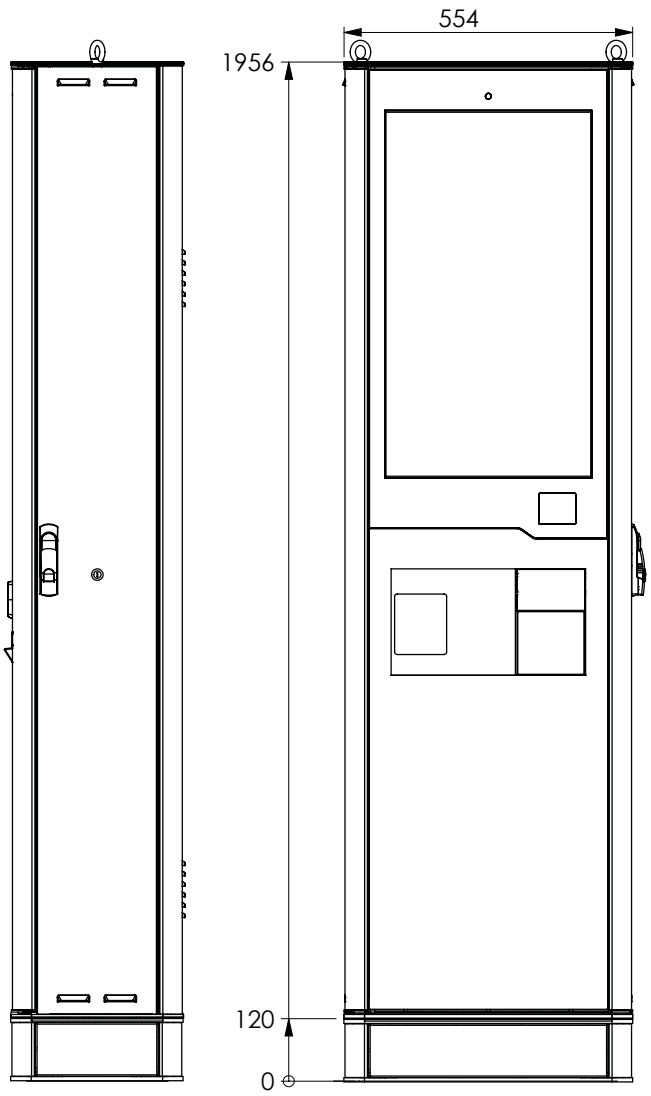
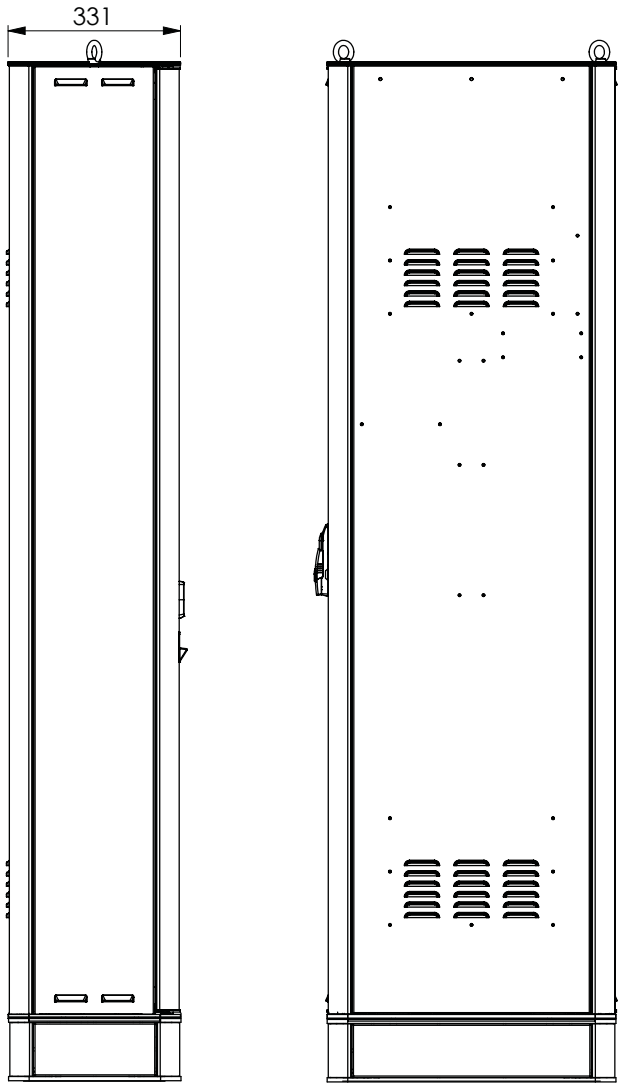
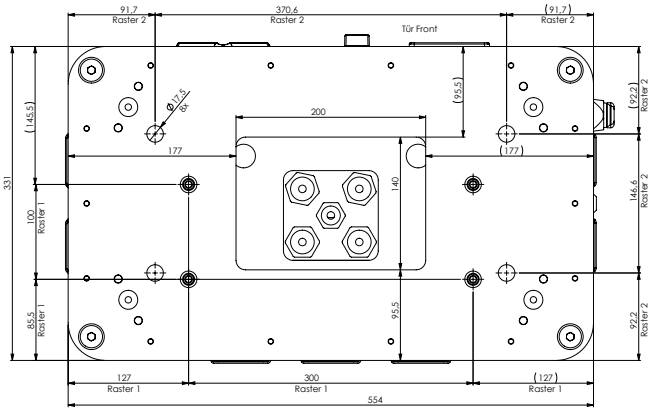
PYRAMID COMPUTER GmbH

DIMENSIONS

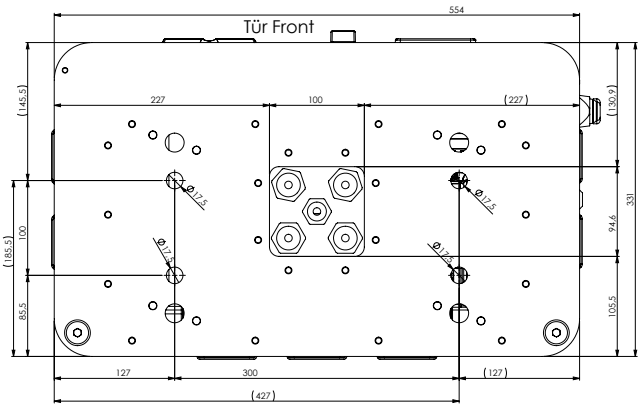
Pictures show sample configurations, real product may vary.







Screwing kiosk with foundation



Screwing kiosk with base plate

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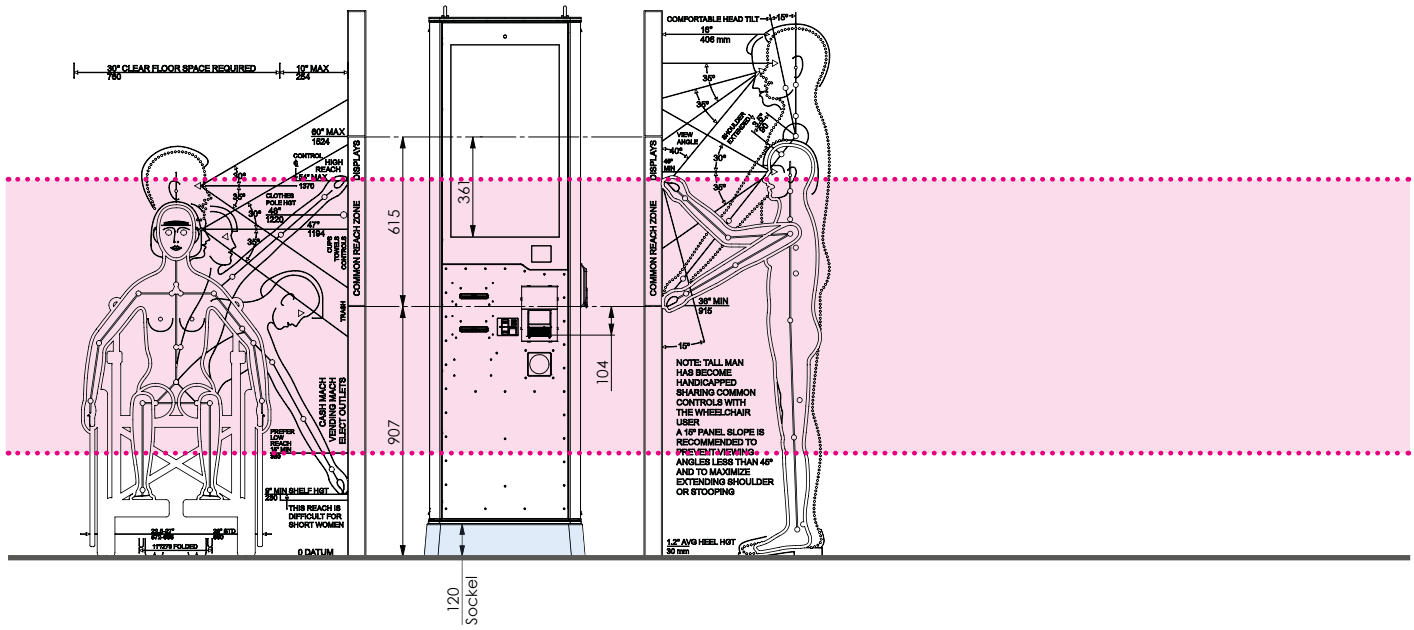
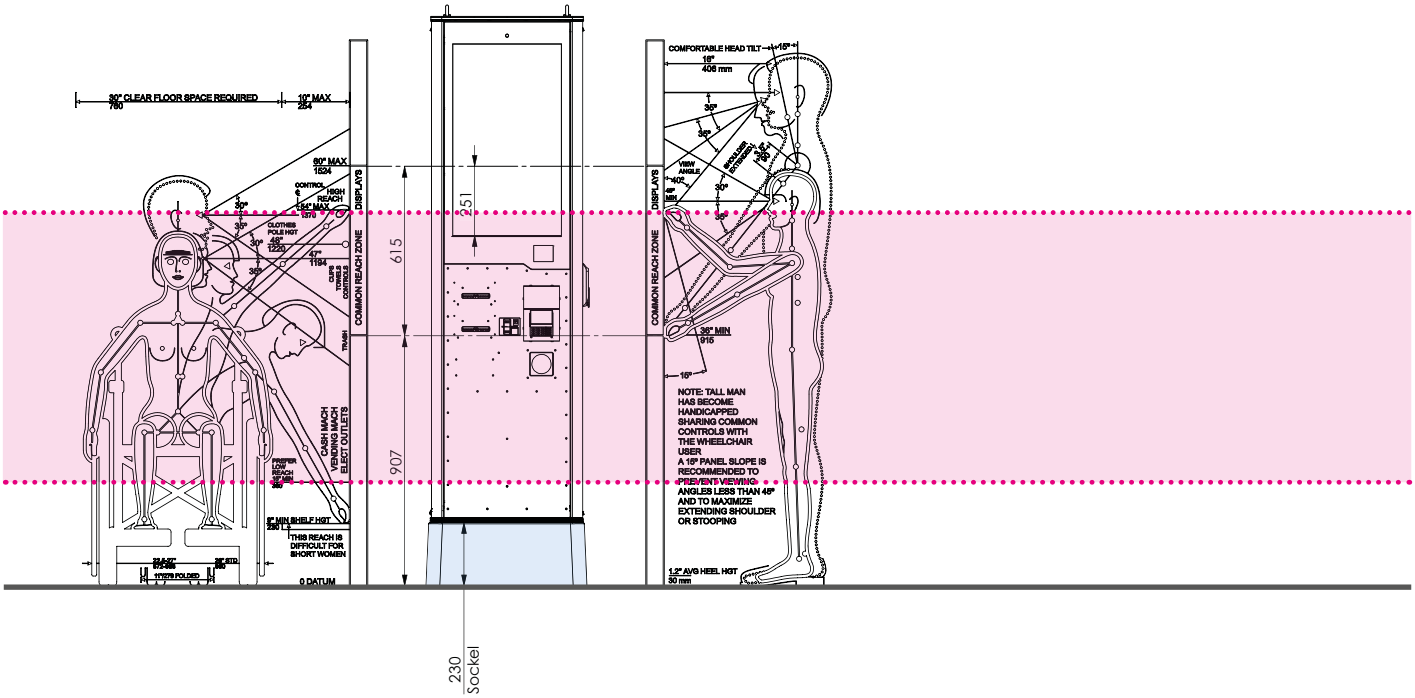
Assembly recommendation





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ENVIRONMENTAL CONDITIONS CRITERION FOR EUROPE

ENVIRONMENTAL CONDITIONS

Temperature range	Indoor: 10 to +30°C Outdoor: -15°C to +40°C
Humidity	10% to 90% RH
Air pressure	> 800 hPa (< 2000 m altitude)
Maximum exposure to sunlight	1090 W/m² at 40°C according to EN60068-2-5 (test for temperature and solar radiation influences)
Air quality	The installation location should provide a clean and well-ventilated environment to minimize the accumulation of dirt and dust. High humidity or severe air pollution should be avoided. PM10 < 50 µg/m³ (annual average) PM2.5 < 25 µg/m³ (annual average)
Corrosion class	The corrosivity class describes the resistance of the coating. The installation location should be chosen so that the corrosivity class C4 according to DIN EN ISO 12944 is taken into account in order to ensure sufficient protection against moderate corrosion. In coastal regions, this class is sufficient as long as the salt content in the air is below 0.3 mg/m³.
Protection type (IP protection class)	In order not to exceed the IP54 protection, the location should be chosen so that strong jets of water or dusty environments are avoided.

ROOM CONDITIONS

Ventilation/Cooling	Good air circulation required, passive cooling through openings.
Space requirements	At least 1m² for the kiosk and additional space for maintenance. front > 60 cm back > 20 cm right > 20 cm left > 20 cm
Access	Easy access for maintenance.

POWER SUPPLY

Availability of the power source	230 V AC power source; 16 A
Safety precautions	It is necessary to install a residual current device (RCD) with 30 mA in accordance with DIN VDE 0100-410 and a circuit breaker (LS) in accordance with DIN VDE 0100-430. In addition, a surge protection device (SPD) in accordance with DIN VDE 0100-443 must be installed and the earthing and potential equalization must be carried out in accordance with DIN VDE 0100-540. The insulation requirements must be met in accordance with DIN EN 60664-1 (VDE 0110-1).
Cable routing	Use of weatherproof cables (e.g. H07RN-F, 3 x 1.5 mm) for outdoor use.
Plug/coupling	Use of CEE couplings (e.g. CEE 16A IP44) for safe connection and disconnection outdoors.
Cable protection	Cables should be protected from mechanical damage, moisture and extreme temperatures. All pre-installed plugs must be packed completely water and dust-tight until the kiosk is installed.
Grounding / PE	It is necessary to connect the kiosk's earthing to the protective earth (PE) to ensure electrical safety. The earthing of the kiosk must be ensured in accordance with the applicable regulations.

NETWORK CONNECTION

Ethernet cable laying	Use of weatherproof cables (e.g. Dätwyler CU 7002 4P PUR) for outdoor use.
Plug recommendation	Pre-assembled RJ45 connectors suitable for outdoor use.
Cable protection	Cables should be protected from mechanical damage, moisture and extreme temperatures.
Availability of a router/switch	If a wired connection is required, a router/switch must be within range of the kiosk or a WiFi connection must be available.
Mobile connection (3G/5G)	The installation location should ensure good mobile phone coverage for the use of a 3G/5G router. Minimization of interference and maximum signal strength required.
Cable protection	Cables should be protected from mechanical damage, moisture and extreme temperatures. All pre-installed connectors must be packed completely water and dust-tight until the kiosk is installed.

VIBRATIONS AND MECHANICAL STRESS

Mechanical stress	The location must be stable and subject to low vibration. The base must meet the technical requirements according to the installation and safety manual.

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ENVIRONMENTAL CONDITIONS CRITERION FOR EUROPE

ACCESSIBILITY AND SAFETY

Access control	Ensuring that only authorized and trained personnel have access to the device key.

ZONE REQUIREMENTS

Distance from flammable materials	Minimum distance of 50 cm from flammable materials.
Explosion protection (ATEX)	Not suitable for Zone 2 or higher risk areas (e.g. near gas cylinders).

STANDARDS AND REGULATIONS

Compliance with regulations	Compliance with national electrical installation standards, IEC, EN60068-2-xx and local building and environmental regulations is required.

MOUNTING

Installation	Only trained personnel may carry out the installation to avoid errors and ensure safety. The specifications of the Pyramid installation and safety manual must be followed.
Electrical installation using CEE coupling (standard)	When using CEE couplings, no electrical installation by an electrician is required.
Electrical installation using direct wiring (alternative connection option)	When wiring directly to active or passive components, the installation must be carried out by an authorized electrician. Acceptance by qualified specialists is required to ensure compliance with safety precautions, relevant regulations and functional requirements.
Acceptance according to local regulations	Acceptance must be carried out in accordance with applicable local regulations in order to meet legal requirements and safety standards.

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