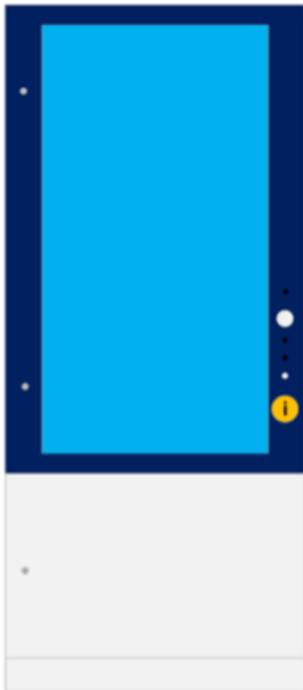


TFT 55" UHD



The TFT 55" UHD in portrait format offers a wide range of possible applications, whether as a single-sided display or as a single or double-sided E-Kiosk. With its full UHD resolution, arrival and departure information as well as images and videos are displayed with impressive clarity. The integrated high-quality PCAP touch sensor with 40 touch points enables intuitive and direct navigation via the monitor.

MAXIMUM FLEXIBILITY

The TFT 55" UHD Display and E-Kiosk offer high flexibility, maximum security and energy efficiency. All devices are equipped with various sensors, including brightness control and vandalism detection, to prevent damage and destruction.

The devices can be optionally extended with functions such as gesture recognition, text-to-speech (TTS) and an information button. The integrated stand-by function ensures that the display or stele automatically switches to energy-saving mode when inactive.

The TFT 55" UHD display and E-Kiosk are designed for indoor and outdoor use.

HIGHLIGHTS

- » single-sided / double-sided for indoor and outdoor
- » modular structure – easy maintenance and good spare part availability
- » integrated sensor technology for monitoring temperature, humidity, brightness and error detection
- » integrated, high-performance heat exchange
- » anti-reflective laminated safety glass with highly effective IR and UV blocking filter
- » PCAP touch sensor on inside of protective glass pane
- » CE certificate, TSI conformity

TECHNICAL DATA

GENERAL DESCRIPTION

Product designation	TFT 55" UHD Display single-sided – Portrait TFT 55" E-Kiosk single-sided – Portrait TFT 55" E-Kiosk single-sided – Portrait
Area of application	outdoor and indoor, also with direct sunlight

HOUSING

Front glass	anti-reflective laminated safety glass with thickness of ca. 8.8 mm, with highly effective IR and UV blocking filter
Housing material	anodised aluminium in C31 with vertical cut C2 E-Kiosk: foot panel in brushed stainless steel 1.4404
Fastening	Plinth mounting: 8 fixing holes in the base area Recess mounting: mounting bracket

TFT-PANEL

Display area	Screen size (W x H) [mm]: 680 x 1.280 Screen diagonal: 55" Aspect ratio: 9:16 Portrait Resolution [px]: 3.840 x 2.160 Full-UHD
Display colour	up to 16.7 million possible colours
Viewing angle	typical 178° in horizontal and vertical direction
Brightness [cd/m²]	max. 2.500
Initial contrast	typical 1.300:1
Ambient light	readable even in direct sunlight
Backlighting	LED backlighting, brightness control according to ambient light

DIMENSIONS / WEIGHT

	Dimension (W x H x D) [mm]	Weight [kg]
TFT 55" UHD Display single-sided Portrait with cover frame	900 x 1395 x 200	approx. 120
TFT 55" UHD E-Kiosk single-sided Portrait	900 x 2000 x 200	approx. 170
TFT 55" UHD E-Kiosk double-sided Portrait	900 x 2000 x 250	approx. 230

POWER SUPPLY

	Power supply	Typical power consumption Operation heating (outdoor version only)
Power supply	230 V / 50 Hz, P = 0,3 kW Fuse protection: external line protection C6A, internal slow-blow fuse 6 A 2-pole isolating switch	
TFT 55" UHD single-sided	P = 0.6 kW	180 W / max. 274 W plus 300 W heating
TFT 55" UHD double-sided	P = 1.1 kW	307 W / max. 513 W plus 600 W heating

CLIMATIC & ENVIRONMENTAL CONDITIONS

Temperature range operation	Outdoor: -33° C to +45° C Indoor: 0° C to +35° C	
Temperatur range storage	-20° C to +50° C	
Air conditioning	Outdoor	Indoor
TFT 55" UHD single-sided	heating 300 W, 3 internal fans	3 internal fans
TFT 55" UHD double-sided	heating 600 W, 3 internal fans, heat exchanger	3 internal fans
Service life	ca. 10 years, reduction of display luminosity after 50.000 h to 50 % (at T = 25° ± 2° C)	

INTERFACES & FUNCTIONS

Connection plug data interface	network via RJ45 socket on optional display computer
Supply connection	2 x cable gland M25 for variable cable diameter 6 – 20 mm on underside of housing Connection terminal size 4 mm ²
Control/activation via	Display port
Control interface	Funkwerk XML protocol serial via USB
Touch operation	high-quality PCAP touch sensor (40 touch points), which is protected on the inside of the protective glass pane

SENSORS AND MONITORING

Sensors / monitoring functions	Brightness sensor for automatic adjustment of screen brightness to ambient light, device temperature, humidity, glass breakage detector, backlight error detection, door contact/door opening, proximity sensor, operating hours counter
Display control function	Power saving function via proximity sensor Backlight switch-off in case of overtemperature

CERTIFICATIONS

Protection class / electrical protection class	Monitor part IP 65 / Protection Class 2
Approvals	CE (EMC and electrical safety)

OPTIONS

Display computer	Built-in computer module MiniITX with chipset Intel Q470, processor Intel i9 10900TE, RAM 16GB, SSD 512GB
Acoustic output	Built-in loudspeaker with stainless steel cover 2.2", 2 W with amplifier module 40 W. Connection via 3.5 mm jack plug to computer audio output
Release button	Push-button with raised letter 'i' for 'information' for people with impaired vision. Contact surface 25 cm ² . Optical actuation feedback. TSI PRM conformity
Microphone	Built-in microphone. Connection via 3.5 mm jack plug to computer audio input
Gesture detection	Surface-mounted sensor for gesture detection at close range approx. 60 cm for contactless control
Camera module	Built-in camera FHD, WDR with lens optionally with network, USB or MIPI connection