| Display Specifications

Multiuser interactive LCDs for single display applications
MT550L MultiTaction Cell 55" Full HD LCD Embedded Linux

Display Specifications	MT550L
Display Technology	TFT LCD
Display Size	55" 16:9 Wide
Native Resolution	Full HD 1920 x 1080
Display Colors	16.7 million
Display Active Area	1209 x 680 mm
Pixel Pitch	0.63 x 0.63 mm
Pixel Response Time	8 ms grey to grey
Brightness	400 cd/m²
Contrast Ratio	4000 :1 typical
Picture Frame Rate	60 Hz
Backlight	White LED Matrix Array
Viewing Angle	178°

Touch Sensing Hardware

Touch technology	Computer Vision Through Screen
Tracking Speed	Up to 200 fps
IR Source & cameras	Integrated Backlight Emitter Camera modules
IR Wavelength	850 nm

Touch Surface

Display Safety Glass	Tempered 4 mm Optiwhite Glass covering whole front surface

Embedded Computer Specifications

CPU	Intel® Core™ i7 Quad Core
RAM	8 GB
Hard disk	128 GB SSD
Graphics	NVIDIA GTS450 1GB
Operating system	Debian Linux 6.06 64-bit

Interfaces

Video Input	DVI-D
Control Input	USB B, Ethernet
Auxiliary input for keyboard, mouse, and extra memory	3 x USB A
Audio out	RCA
Power Connector	IEC C14

Electrical Specifications

Power Supply	100-240 VAC 50/60 Hz
Power Consumption	490 W

Touch Sensing Details

Tracking Software	Embedded MultiTaction Extensible Hybrid Tracking Engine
Touch Input Types	Single finger, multiple fingers, single hand, multiple hands and users, objects with optical markers. Click, hold and drag.
Hand Recognition	Each finger identified to certain hand
Object Recognition	Supported with 2D fiducial markers
Number of Simultaneous Touch Inputs	Unlimited [1]
Number of Simultaneous Users	Unlimited (separate hands) [1]
Positional accuracy	2 mm, directional compensation
Relative accuracy	Sub-pixel accuracy
Touch Latency	10 ms typical [2]
Tracking Data Outputs/APIs	Multi-Format Tracking Output: Low level C++, TUIO, XML stream, Linux Touch
Operating System Support	Windows 7, Windows 8, Linux, Mac OS X with external computer
Development Environment Support	Most major programming languages and environments (e.g. MS Surface 2 SDK, Win 7 tools, TUIO-compatible systems) [3]

Software Development Kit	Cornerstone SDK available for C++/OpenGL (Windows 7, Linux, Mac OS X)
Stackability	Up to 24 Cells can be connected to run a single Multi-touch application with external computer

Environment Specifications

Operating Temperature	0 to +35 degrees C
Storage Temperature	-10 to +60 degrees C [4]
Relative Humidity	Non-condensing 80%

Dimensions and Weight

Physical Dimensions	1242 x 715 x 199 mm
Bezel width	16 mm (bottom & sides), 17 mm (top)
Weight	40 kg(+5 kg for two legs)
Color	Black
Shipping Dimensions	tbd
Shipping Weight	tbd

Display Mounting

VESA Mount	800 x 400 mm, M8 screws
Mounting positions	Vertical
	Horizontal
	Angled position
	Table position

Cooling

Cooling system	Forced Air
Convection method	Low Noise Variable Speed Internal Fans
Noise Level	30 - 40 dBA

Miscellaneous

Agency Approvals	CE
RoHS Compliant	Yes
Expected Life-time	Over 60,000 h
Warranty	1 Year

Sales Package Contents

Display Unit	1
Power Cords	5 m, EUR, US, GB
Digital Video Cable	DVI-D 5 m
USB A-B Cable	5 m
Cat5e Ethernet Cable	5 m
Display stand	Table stand for landscape/portrait use
Protective/autocalibration sheet	1
Mounting rail bits	4 pcs
Warranty Card	
Quick Start Guide	
Product Manual	English version

1) Practically limited by how many people can fit next to display array.
2) Measured from touch to processed tracking data output. Overall latency is more and depends on the computer, operating system and application used.
3) See Cornerstone data sheet for more details.
4) Allow at least two hours for temperature normalization before switching on
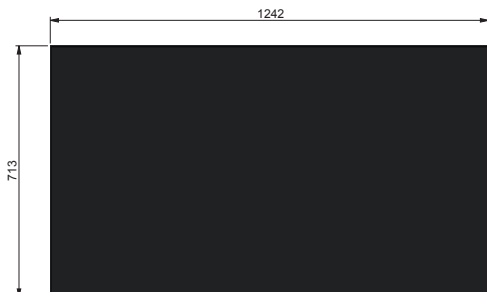
Specifications subject to change without notice.

| Dimensions
MT550L

MT550 Dimensions

All dimensions in millimeters

The MultiTaction® Cell 55" is only 20 cm (8") deep, but over 120 cm (47") wide and over 71 cm (28") tall.

A pair of table stand supports for landscape or portrait mounting are included.

Official MultiTaction® Cell video:

http://www.youtube.com/multitouchfi#p/a/u/0/7ve44jMgrvk

MultiTaction® Cell Technology video:

http://www.youtube.com/multitouchfi#p/a/u/1/klwpc1PDQWY

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