



MultiTaction® Cell 55" & 42"

Multiuser interactive LCD, stackable to any size and shape

MT550 MultiTaction Cell 55" Full HD LCD Stackable

MT420S MultiTaction Cell 42" Full HD LCD Stackable



MultiTaction® Cell 55" and 42" detect unlimited number of hands, fingers and fingertips, recognizing individual users and their specific directions.

The MultiTaction® Cell 55" Stackable and the MultiTaction® Cell 42" Stackable are multiuser interactive displays that provide the world's most advanced set of touch capabilities. With their ultra-fast response time, they can accommodate an unlimited number of touches and users simultaneously, from input objects of any kind. MultiTaction displays allow engaging and intuitive user experiences on a large scale.

The Full-HD LCDs are only 20 cm (8 inches) deep. Their frameless thin bezel design enable the displays to be embedded in custom-designed furniture and to be stacked to any size or shape using an unlimited number of units.

MultiTaction Cell 55" Stackable and MultiTaction Cell 42" Stackable

- 55" and 42" Full HD LCDs. Depth only 20 cm (8 inches).
- Computer Vision Through Screen system tracks unlimited touch points, including hands, fingers, fingertips, 2D markers, real-life objects.
- Hybrid tracking mode eliminates external lighting issues.
- Modular, stackable to any size and shape, on a wall or table. Inclinable into any position
- Ultra-fast. Up to 200 fps tracking.
- Frameless thin bezel design with smooth edge-to-edge front safety glass.
- 60,000+ hours expected life-time, low maintenance
- Connectivity with USB or Ethernet for large installations.

/// Unlimited Touch

The MultiTaction Cells provide the world's most advanced set of touch capabilities. They accommodate an unlimited number of users and interact with objects with ultra-fast response time.

/// Unlimited Stacking

Modular MultiTaction Cell units can be stacked to any size or shape using an unlimited number of units.

/// Unlimited Integration

The products have a frameless thin bezel design and can easily be embedded in custom designed furniture, walls and tables.



MultiTaction® Cell 55" & 42"

LCD panel

Aluminium frame

Backlight

Electronics

Cooling backplate



MULTITACTION® technologies

CVTS – Computer Vision Through Screen

BEC – Integrated Backlight Emitter Camera

MTS – Matrix Tracking System

EHTS – Extensible Hybrid Tracking Engine

MFTO – Multi Format Tracking Output

MultiTouch Ltd's MultiTaction Technology

- Computer Vision Through Screen (CVTS) recognizes unlimited number of fingertips, fingers, hands and objects simultaneously.
- Extensible Hybrid Tracking System (EHTS) eliminates sensitivity to external lighting.
- Integrated Backlight Emitter Camera (IBEC) modules with embedded Matrix Tracking System (MTS) provide the industry's only touch system integrated into the LCD backlight plane.
- Works on Mac, Linux and Windows environments.
- MultiTaction Engine provides tracking output in all common formats and works with available software development kit to utilize all advanced features.



You can add directional speakers on the wall.



Tables and walls can be asymmetric.



I Display Specifications

MT550 MultiTaction Cell 55" Full HD LCD Stackable

MT420S MultiTaction Cell 42" Full HD LCD Stackable

Display Specifications	MT550 / MT420S
Display Technology	TFT LCD
Display Size	55" 16:9 Wide / 42" 16:9 Wide
Native Resolution	Full HD 1920 x 1080
Display Colors	16.7 million
Display Active Area	1209 x 680 mm / 930 x 523 mm
Pixel Pitch	0.63 x 0.63 mm / 0.48 x 0.48 mm
Pixel Response Time	8 ms grey to grey
Brightness	250 cd/m ² / 400 cd/m ²
Contrast Ratio	4000 :1 typical / / 3500 :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 Hz
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

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

Electrical Specifications	
Power Supply	100-240 VAC 50/60 Hz
Power Consumption	450 W

Touch 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, Windows 7 Touch
Operating System Support	Windows 7, Linux, Mac OS X
Development Environment Support	Most major programming languages and environments (MS surface 2 SDK, 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

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 / 965 x 557 x 200 mm
Bezel width	16 mm (bottom & sides), 17 mm (top)
Weight	40 kg / 32 kg (+5kg 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
	Display Array 2-24 Units
	Symmetric or asymmetric layouts

Cooling	
Cooling system	Forced Air
Convection method	Low Noise Variable Speed Internal Fans
Noise Level	15 - 25 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.

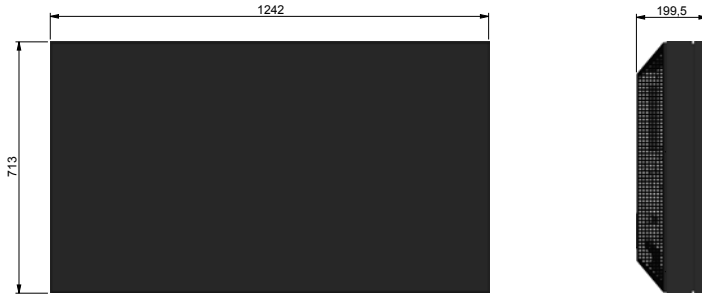


Dimensions

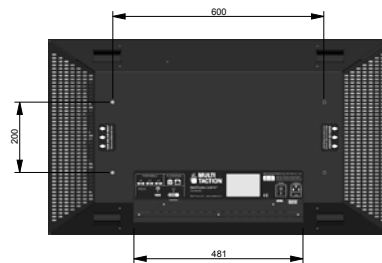
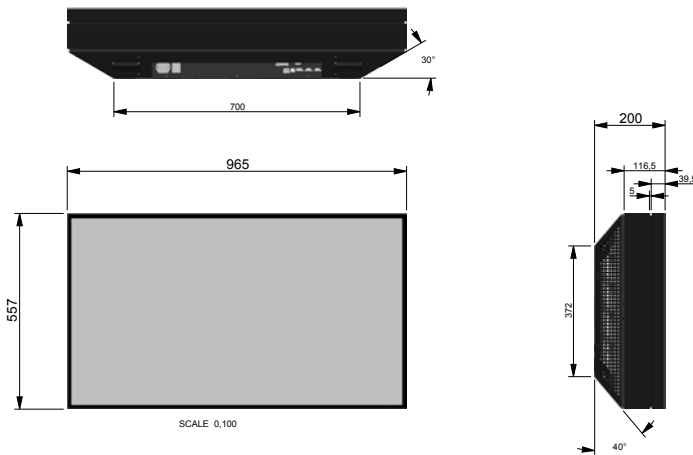
MT550 and MT420S



MT550 Dimensions



MT420S Dimensions



All dimensions in millimeters

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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