



MultiTaction® Cell 55"

Multiuser interactive LCD stackable to any size and shape

MT550 MultiTaction Cell 55" Full HD LCD



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

The MultiTaction® Cell 55" is a multiuser interactive display that provides the world's most advanced set of touch capabilities. With its ultra-fast response time, it 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 LCD is only 20 cm (8 inches) deep. Its frameless thin bezel design enables the display 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"

- 55" Full HD LCD. Depth only 20 cm (8 inches).
- Tracks unlimited touch points, including hands, fingers, fingertips, 2D markers, real-life objects.
- Modular, stackable to any size and shape, on a wall or table. Inclined 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.

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

/// Unlimited Touch

MultiTaction Cell 55" provides the world's most advanced set of touch capabilities. It accommodates an unlimited number of users and interacts with objects with ultra-fast response.

/// Unlimited Stacking

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

/// Unlimited Integration

The product has a frameless thin bezel design. It can be embedded in custom-designed furniture, walls and tables.



MultiTaction® Cell 55"

LCD panel

Aluminium frame

Backlight

Electronics

Cooling backplate



MULTITACTION® technologies

CVTS – Computer Vision Through Screen

EHTE – Extensible Hybrid Tracking Engine

IBEC – Integrated Backlight Emitter Camera

MFTO – Multi Format Tracking Output

MTS – Matrix Tracking System



Cells can be mounted as a table or on a wall.



Cells are designed to be embedded into custom furniture and structures



MT550 MultiTaction Cell 55" Full HD LCD Display Specifications

Display Specifications

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	8ms grey to grey
Brightness	250 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
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Interfaces

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

Electrical Specifications

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

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 multitouch 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 713 x 199 mm
Bezel width	16 mm (bottom & sides), 17 mm (top)
Weight	40 kg (90 lbs)
Color	Black

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 limited

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

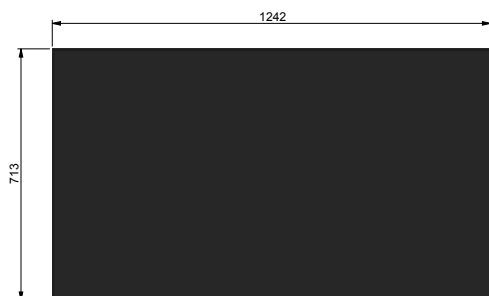
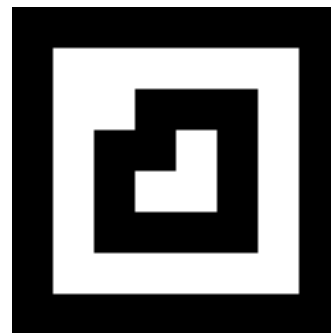
- 1) Practically limited by how many people can fit next to the display array.
- 2) Measured from touch to processed tracking data output. Overall latency is greater and depends on the computer, operating system, and application used.
- 3) See MultiTouch Cornerstone data sheet for further details.
- 4) Allow at least two hours for temperature normalization before switching on the unit.

Specifications subject to change without notice.



MT550 Dimensions

This is a MultiTaction 2D barcode.
Place it on a MultiTaction demo table.



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 55" video:

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

MultiTaction® Cell 55" Technology video:

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

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