TruePoint ValueLine Monitors

CRT TOUCH MONITORS

TruePoint™ ValueLine monitors — MicroTouch's signature CRT touch monitor family — provide the optimal touchscreen monitor solution for any touch-enabled integration program. Economical, reliable, and ready-to-ship, ValueLine monitors offer integrators a broad range of screen sizes, touch technologies, and controller choices.

Screen Sizes

ValueLine touch monitors are available in a wide range of screen sizes — 15", 17", and 19" — providing the desired monitor configuration for any touch integration project.

Technology Choices

ValueLine touch monitors offer integrators a choice of the most appropriate technology for their touch requirements.

ClearTek® 3000 capacitive touch technology provides accuracy and sensitivity to the user's touch, while offering outstanding durability — providing scratch-resistance for daily use and contaminant-resistance to dirt, liquids, and even harsh chemicals.

TouchTek™5 resistive touch technology provides fast, accurate, and reliable touch when input flexibility is the most important consideration. TouchTek responds to the touch of fingernails, credit cards, gloved-hands, or fingers — almost anything a user finds handy.

Controller Options

The 15" CRT ValueLine monitor is available with your choice of serial or USB controller. The 17" and 19" monitors are available with serial controller only.

Ready-to-Ship Touch Monitors

ValueLine touch monitors in your preferred choice of size, technology, and controller are in stock and available for 48-hour shipment.

Reliability

ValueLine touch monitors are UL and FCC compliant, and individually designed, engineered, and tested for volume production using ISO 9001 procedures.

ValueLine touch monitors carry a five-year warranty on the touchscreen and a three-year warranty on the CRT monitor.

ValueLine touch monitors are constructed with a polyethylene gasket seal located behind the bezel, which prevents liquids or other contaminants from getting behind the bezel and into the monitor.

MicroTouch®
The Global Standard in Touch

TruePoint ValueLine Monitor Specifications

	15"	17"	19"
PART NUMBER			
ClearTek 3000[1] **Beige**	11-1642-701N	11-1632-701N	11-1622-701N
TouchTek5[2] **Beige**	41-1646-111	41-1636-111	N/A
SCREEN			
Technology Size/Type	15" FST (14.0" viewable), Invar mask	17" FST (16.0" viewable), Invar mask	19" FST (18" viewable), Invar mask
Display Size	10.2" x 7.5" normal 11.1" x 8.35" full screen	11.8" x 8.9" normal 12.6" x 9.5" full screen	13.8" x 10.3" normal 14.4" x 10.8" full screen
Display Colors	Unlimited colors	Unlimited colors	Unlimited colors
CRT Pitch	.28mm dot	.25mm dot	.26mm dot
CRT Faceplate	Non-glare, anti-static	Non-glare, anti-static	Non-glare, anti-static
Maximum Resolution	1280 x 1024/60 Hz NI	1600 x 1200/76 Hz NI	1600 x 1200/80 Hz NI
Display Capability	Auto-sync within scan frequencies	Auto-sync within scan frequencies	Auto-sync within scan frequencies
Horizontal Scanning Frequencies	30-70 kHz	30-98 kHz	30-100 kHz
Vertical Scanning Frequencies	50-160 Hz	50-160 Hz	50-200 Hz
Sync Signaling	Separate horizontal/ vertical, TTL level	Separate horizontal/ vertical, TTL level	Composite sync, TTL level
FUNCTIONAL FEATURES			
Monitor Control Type	Digital microprocessor OSD	Digital microprocessor OSD	Digital microprocessor OSD
Memory Modes	6 factory presets, 25 user-settable	12 factory presets, 7 user settable	12 factory presets, 25 user settable
VESA Plug and Play Level	DDC1/2B	DDC1/2B	DDC1/2B
Front Panel Buttons/Controls	Power, select, up/down, OSD	OSD, select, adjust, power	OSD, select, adjust, power, contrast, brightness
On-Screen Adjustment	Brightness, contrast, horizontal/vertical size and position, pincushion, trapezoid, color temperature, mode, degauss, recall	Brightness, contrast, horizontal/vertical size and position, pincushion, trapezoid, parallelogram, pin-balance, rotation, color temperature, mode recall, degauss	Contrast, horizontal/vertical size and position, pincushion, trapezoid, parallelogram, color control and degauss
PHYSICAL FEATURES			
Cable Connector	15 pin D-sub	15 pin D-sub	15 pin D-sub
Power Requirements	90-264 VAC, 47-63 Hz	120-220 VAC, 50-60 Hz	90-264 VAC, 47-63 Hz
Power Consumption	100 Watts Max., utilizes DPMS[3]	130 Watts Max., utilities DPMS[3]	140 Watts Max., utilities DPMS[3]
Tilt/Swivel Base	Detachable	Detachable	Detachable
Dimensions (WxHxD)	14.2" x 13.9" x 15.4" 362 x 352 x 390 mm	16.3" x 16.2" x 18.0" 414 x 410 x 458 mm	17.6" x 18.3" x 18.7" 447 x 464 x 475 mm
Weight (Net)	29 lbs. / 13.2 kg	36 lbs. / 16.4 kg	52.8 lbs. / 24 kg
Mean Time Between Failure	50,000 hrs. (excludes CRT)	40,000 hrs. (excludes CRT)	50,000 hrs. (excludes CRT)
Safety/Regulatory	UL/CUL, FCC-B, EPA Energy Star, CE	UL/CUL, FCC-B, CE, EPA Energy Star	UL/CUL, FCC-B, EPA Energy Star, CE
Warranty	3 years on monitor, 5 years on touchscreen and controller	3 years on monitor, 5 years on touchscreen and controller	3 years on monitor, 5 years on touchscreen and controller

[1] ClearTek 3000 part numbers are for True etch with serial controller.

[2] TouchTek5 part numbers are for Ideal etch with serial controller.

[3] DPMS: Display Power Management Signaling for reduced power consumption during non-use.

MicroTouch Touchscreen Specifications

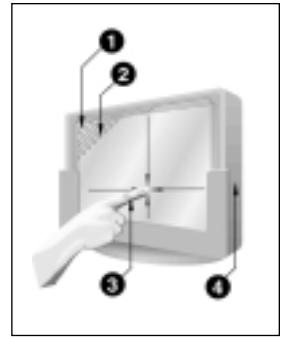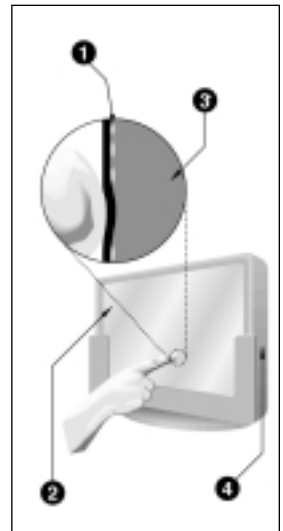|	ClearTek 3000	TouchTek5
GENERAL		
Technology	Capacitive	5-wire resistive
Touchscreen Resolution	1024 touch points per axis within the calibrated area	1024 touch points per axis within the calibrated area
Initial Touch Down Speed	8-15ms	8-15ms
Touch Contact Requirement	As low as 3ms	As low as 3ms
Conversion Speed	Up to 200 touch points per second at 19.2 K baud	Up to 200 touch points per second at 19.2 K baud
Accuracy	Less than ±1% error within the active area.	Less than ±1% error within the active area.
SENSOR		
Construction	Glass sensor with transparent conductive coating beneath glass overcoat. Electrodes printed on perimeter.	Glass sensor with transparent conductive coating beneath polyester topsheet. Electrodes printed on perimeter of glass layer.
Faceplate Surface	Anti-glare etch	Anti-glare etch
Surface Durability	Glass overcoat resists scratches withstanding greater than 150 million touches in any one location.	Hardcoated polyester topsheet resists scratches withstanding greater than 35 million touches in any one location.
SERIAL CONTROLLER		
Controller	Internal programmable CMOS surface-mount controller	Internal programmable CMOS surface-mount controller
Cable	8' shielded cable with 9-pin D connector for serial port (9-pin to 25-pin adapter available)	8' shielded cable with 9-pin D connector for serial port (9-pin to 25-pin adapter available)
Output Port	Bidirectional asynchronous RS-232C serial communication	Bidirectional asynchronous RS-232C serial communication
Port Parameters	Odd, even, or no parity; 7 or 8 data bits, 1 or 2 stop bits	Odd, even, or no parity; 7 or 8 data bits, 1 or 2 stop bits
Data Rate	1200-19.2K baud	1200-19.2K baud
EXTERNAL INFLUENCES		
Surface Obstructions	Operation unaffected by almost any contaminant buildup.	Operation unaffected by almost any contaminant buildup.
Chemical Resistance	Highly resistant to corrosives.	Highly resistant to corrosives.
Humidity Resistance	Water drops on screen do not impede operation.	Water drops on screen do not impede operation.
SUPPLEMENTAL DOCUMENTATION		
Touchscreen Specifications	*ClearTek 3000 Specifications Sheet* *CleanScreen Specifications Sheet*	*TouchTek5 Specifications Sheet*
Controller Specifications	*ClearTek Controllers Specifications Sheet*	*TouchTek Controllers Specifications Sheet*

Supplemental documentation can be viewed at www.microtouch.com or available by calling 800-642-7686.

15" Monitor

17" Monitor

19" Monitor

How ClearTek 3000 Works

1. Voltage is applied to the four corners of the screen.
2. Electrodes spread out voltage, creating a uniform voltage field.
3. The touch of a finger draws current from each side in proportion to the distance from the edge.
4. A controller calculates the position of the finger from the current flows.

How TouchTek5 Works

1. Conductive coatings on facing sides of polyester topsheet and glass bottom sensor separated by tiny spacer dots.
2. Current applied to topsheet.
3. Touch compresses topsheet to contact bottom.
4. Controller simultaneously reads proportional current flow to four corners and calculates position of finger.

The MicroTouch Difference

When you partner with MicroTouch for your touchscreen needs, you benefit from the industry's best combination of service, warranties, and support.

Warranty

MicroTouch products come with a five-year warranty on all touchscreen components and a three-year warranty on CRT monitors.

Around-the-World Service and Support

When you need product information quickly or new software drivers, you can reach us through our Technical Assistance telephone support line, Web site, or e-mail. We're never out of touch.

A Commitment to Quality

MicroTouch's headquarters manufacturing facility is ISO 9001-certified. Our numerous quality groups, inspections, and executive involvement are just some of the MicroTouch quality initiatives that ensure the product you receive is the most reliable in the industry.

CORPORATE PROFILE

Global company committed to the innovation and application of touchscreen technology

Founded in 1982

Public company (NASDAQ: MTSI)

1999 sales of $157.5 million

The information provided in this brochure is intended as a guide only. For detailed engineering specifications, please contact your MicroTouch Systems Application Engineer. MicroTouch Systems is committed to continually improving product designs, as a result product specifications may be subject to change without notification.

www.microtouch.com   **touch@microtouch.com**

For information about implementing MicroTouch touch technology into your next project, contact us at:

MicroTouch Systems, Inc.
300 Griffin Brook Park Drive
Methuen, MA 01844
U.S.A.

Phone: 978.659.9000
Fax: 978.659.9100
E-mail: touch@microtouch.com
Web site: www.microtouch.com

Worldwide Offices

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