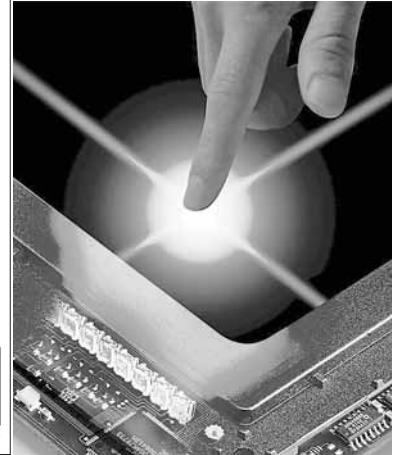
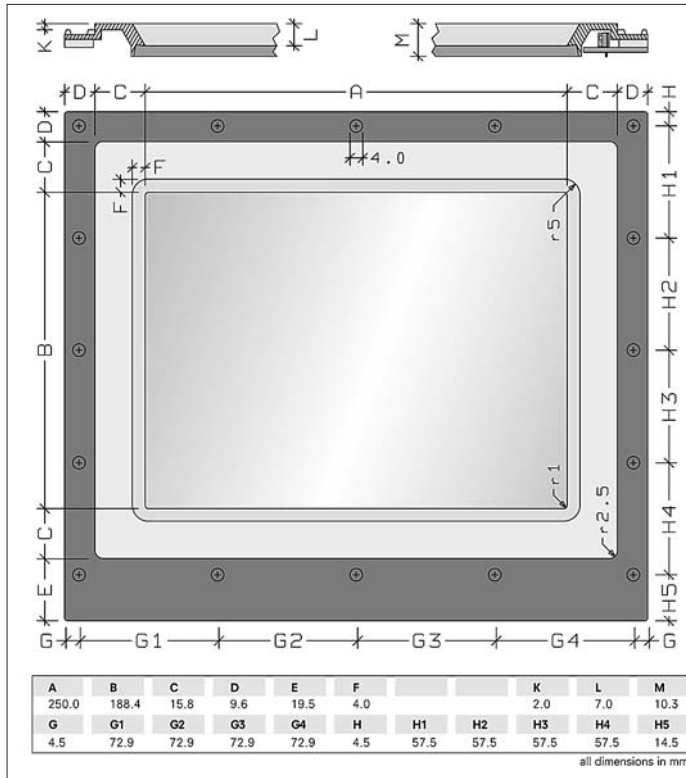


ITKIT 12i1-A003

12.1" IR Touch Screen



SPECIFICATIONS

Electrical Specs

Voltage	+5.0V (± 5%)
Current (dosing)	234mArms
Current (typical operating)	356mArms
Current (worst case)	396mArms

Communication Specs

Communication	Bi-directional, asynchronous, EIA-232-D and TTL
Baud Rate, Parity	75 to 125000 bps Automatic baud rate and parity detection
Protocol	XON/XOFF

Operational Specs

Active Touch Area	243.8 x 182.9 mm
Touchpoint Density	16 tps/cm ² , 64 tps/cm ² interpolated
Response time	2.5 - 6.5 ms
Touch points	Simultaneous tracking of two touchpoints
Stylus Diameter	6mm, >8mm for interpolation
Touch modes	Up to 1141 polygonal areas with individual touch modes; enter, exit, tracking, continuous, Z-Press. Up to 256 area pages
Software Drivers	MS-DOS, Windows 3.11, Windows 95/98, Windows NT 4.0, OS/2, Linux
Diagnostics	Complete system test at power-on, cyclic beam test during operation

Environmental Specs

Operating Temperature	0°C to +70°C -20°C to +85°C (optional)
Storage Temperature	-20°C to +85°C
Humidity	90% RH @ 70°C, non-condensing
Altitude	tbd
Shock (MIL-STD-810E)	tbd
Vibration (MIL-STD-810E)	tbd

Sealing (EN 60529)	>IP65
Peak Output Wavelength	950 nm, infrared
Ambient light	Unaffected
Transmissivity	Up to 100%, depending on filter screen

MTBF (MIL-HDBK-217F, @ 25°C)	>500,000 h
EMI	EN 50 081-1, 2 EN 55 022, Class B
ESD	EN 50082-1, 2

Mechanical Specs

Total size controller & bezel	W 300.6 x H 249 x D 10.3 mm
Max. component height	2.5 mm
Max. IR-element height	5.5 mm
Weight controller	105g
Weight Bezel (no filter screen)	93g
Bezel material	PMMA (acrylic glass)
Connectors	X1: 20-pin, JAE, LZ-20P-SL-SMT X2: 5-pin, JAE, LZ-5P-SL-SMT

Peripherals

- 1 opto-isolated PWM output for backlight dimming
- 1 opto-isolated output for touch saver indication or GP use
- 1 opto-isolated input for touch point validation or GP use

Options

USB-interface	
Voltage internal	+3.3VDC
Current (worst case)	90mArms
Device type	Full speed, 12Mbit/s
USB-Drivers	Windows 95, OSR 2.1, Windows 98 / NT 5.0
Z-axis	64 levels
Audio amplifier (key click)	0.5 W @ 8 Ohm