

Technical Data

P3119/P3120 Case Depth Test Instrument

The 4-channel (up to 8-channels) case depth test instrument is an industrial PC including a four-channel transmitter/receiver board. The instrument features a mobile cart-mounted industrial PC and single-channel analog transmitter with four receiving stages. The data acquisition software automatically switches up to four transducers (as assigned by software settings) for the applicable test locations with varying surface geometries. The Windows7® Professional (64-bit) based software can be customized to individual user requirements. The 20MHz ultrasonic transducer is contained in polystyrene wedge housing (removable), which is custom-fitted to the surface geometry as specified by the purchaser. The P3119 system is a rack-mounted mobile instrument; the P3120 system is designed as a stationary industrial case (desktop) instrument.

HVUT (High Voltage Ultrasonic Testing) Board

Four-Channel in time-division multiplex transmitter/receiver, independently selectable;

Transmitter Voltage:	Adjustable from 0V _{ss} to 800V _{ss}
Analog Filters:.....	5MHz, 10MHz, 20MHz & 25MHz
Averaging Functions:.....	Selectable from 1, 2, 4, 8, 16, 32, 64, 128, 256 & 512 per shot
Shot-Distance:	1Hz to 2,000Hz
Adjustable Gain:	0dB to 76dB, switchable 20dB attenuator
Trigger:.....	Internal (time-controlled), external, manual, 2-axis coordinate interface
I/O:	CTP-trigger interface, LED, RF output
Power Consumption:	<10W during operation
Form Factor:	PCIe card, custom length
PCIe x1 Power Supply:.....	3.3V (3A), 12V(9.6A) or external power supply
Communication:.....	USB 2.0 interface (Type B connector)

Industrial Computer

Case	Mobile cart-mounted industrial PC, Intel® Core™ i7-7700k 4.2GHz CPU, 2x 8GB DDR4 2666MHz RAM, 500GB & 2TB HDD, Blu-ray BD-RW/DVD+R DL, 1Gbps LAN, RS-232, LPT, PS/2, USB 3.0, etc.
Dimensions	762mm (30.0") width, 762mm (30.0") height, 762mm (30.0") depth
Display	ELO 22" high-contrast LCD flat panel touch screen monitor, 1920x1080 resolution, HDMI and DisplayPort 1.2 compatible, mounted on articulated arm
Dimensions	438m (17.24") width; 316mm (12.44") height
Mobile Cart.....	Sturdy all steel 2"x2" tube frame w/ 5" rubber casters; height adjustable from 30" – 37 ½", with 30"x 30" laminate table top
Weight.....	approx. 118 kg (260 lb.)
Operating Temperature.....	+5°C to +40°C (41° to 104° F) @ 10% to 75% humidity

Documentation

P3119/P3120	User Manual and operating instructions
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