

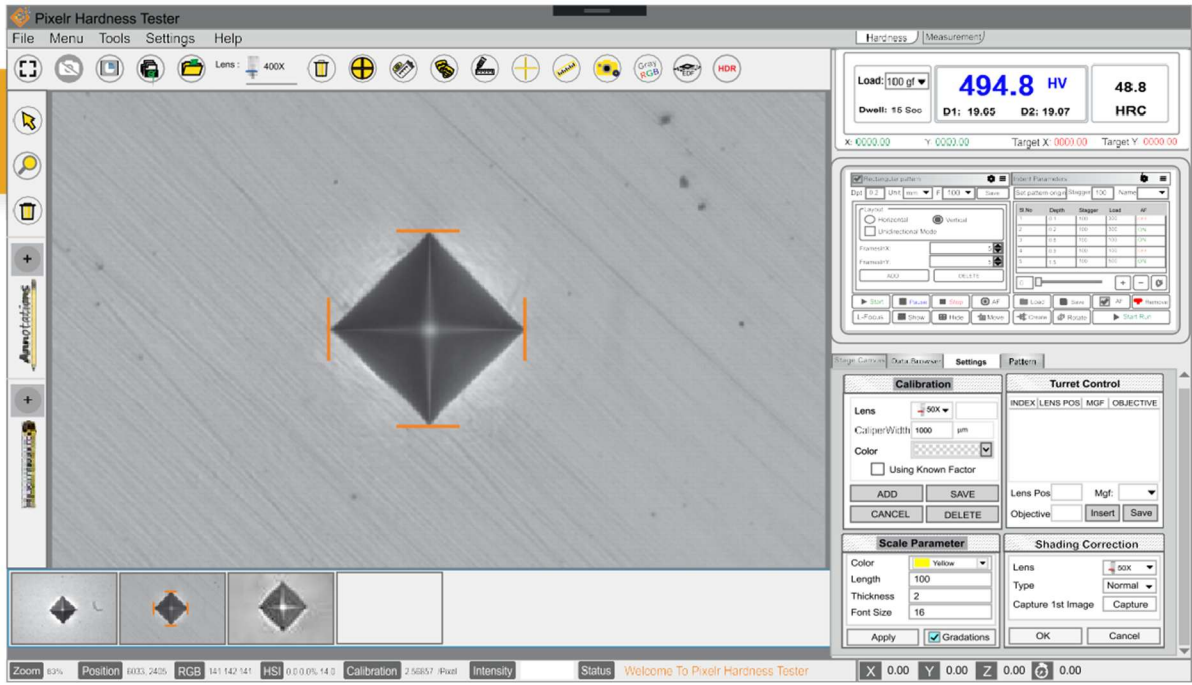
Solutions Beyond Vision...

PHT - X5 / X3
Microhardness Tester



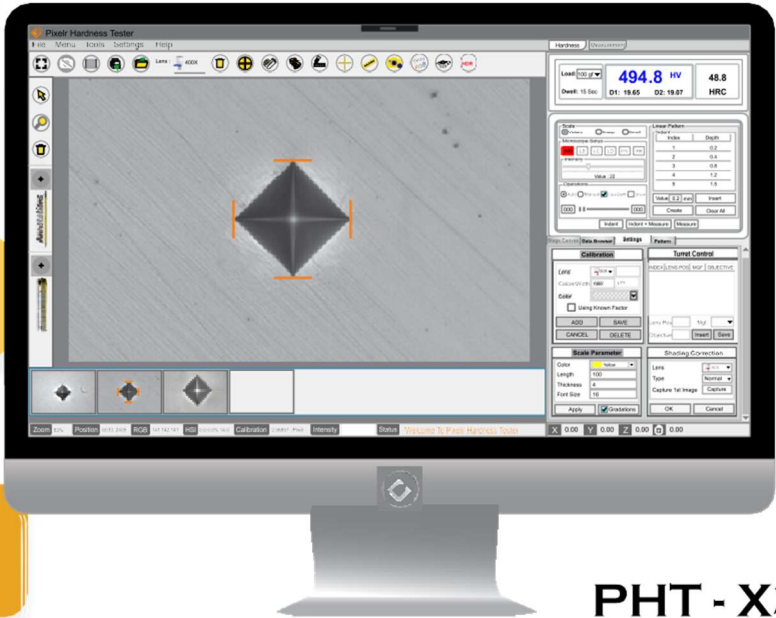
Pixelr HT

ASTM E 384
ISO 6507
JIS B 7725



Pixelr presents Pixelr HT X7 Microhardness Tester for automatic measurement of hardness in metals and other materials. This modular system can accommodate load ranging from 1gf to 3000 gf in 12 steps. All parameters of HT X7 is fully controlled though LCD touch panel as well as from the software which enables to perform the test with preset parameters in automatic mode. Parameters like loading, magnification change, load change, light intensity change, change of indenter etc.. It can perform automatic hardness measurement in Vickers, Knoop and Brinell scales. You can pre define the indent patterns for Case Depth measurement and generate reports with hardness data, graphs, plots and statistics.

Pixelr HT provides option to fix up to 4 cut off (Case Hardness) value and corresponding case depth values are generated. Pixelr HT X7 can be configured with motorized scanning stage, motorized focusing option to make the tester Fully Automatic Micro Hardness Tester. You can select the basic Hardness tester module and step wise upgrade to a Semi- Automatic Tester to a Completely Automatic Testing Station.



PHT - X3



Simplified Operation

Pixelr HT allows users to produce professional hardness reports with hardness data, statistics, hardness plot, location image with easy 4 steps. 1. Scan the Sample, 2. Create Pattern and align, 3. Start measurement 4.Generate Report. Once the sample is fixed to the sample holder and the pattern is set, just press the Start button. Pixelr HT software will take care of the rest to produce report.

Fully Automatic System comes with high precision motorized stage with travel precision of 0.5 micron per step. Auto focus mechanism focus each indent precisely for more accurate results. Auto load change option, allows to change load during traverse. These flexibility makes the system more robust and adoptable to any application.

Upgradable Options

Economy Variant (PHT- X1)
(Digital Eyepiece Measurement, Auto Loading, Motorized Turret)

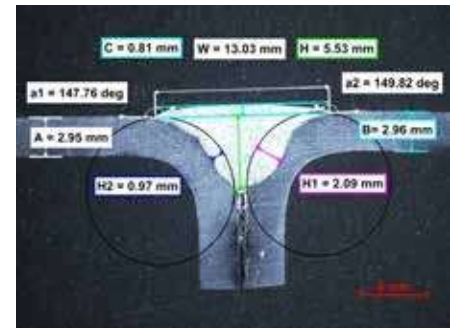
Performance Variant (PHT- X3)
(Auto Measure, Report Generator, Micrometer Stage)

Excellence Variant (PHT- X5)
(Auto Measure, Motorized Stage, Auto focus, Auto Load Change)

Accessories

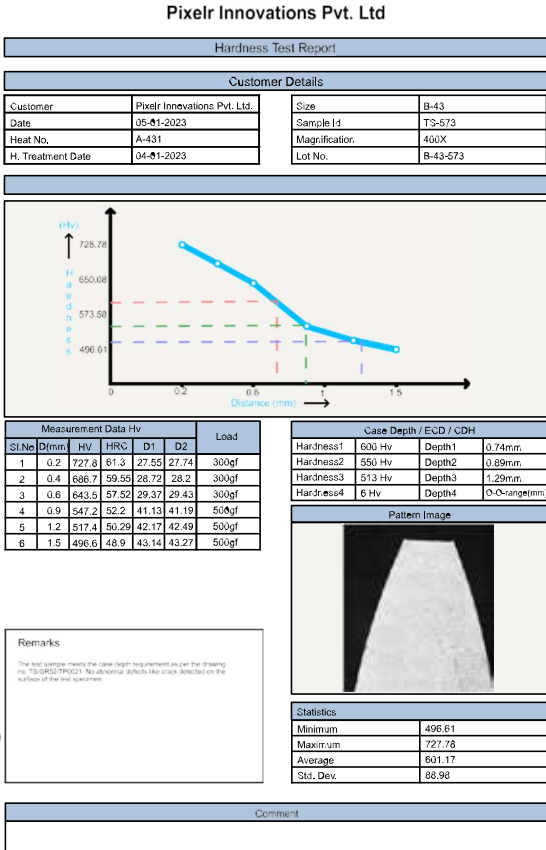
Sample Holders (Universal, Self leveling, Fine specimen)
Test Blocks (Vickers, Knoop, Brinell, Rockwell)
Calibration Kit

Linear Measurement Options



Advanced Features

- Auto Focusing
- Sample Scanning
- Multipile Pattern in a Single Run
- Create,Save and Load Pattern
- Rotate Pattern
- Dynamic Load Change
- Multiple Case Depth per Pattern
- Indent Alignment
- Calibration (Load, Measurement, Hardness)



Model			Specification Pixelr PHT X5 / X3										
Test force	Standard	Type A	49.03	98.07	245.2	490.4	980.7	1961	2942	4903	9807	N	
	Option	Type B	5 10 25 50 100 200 300 500 1000 gf										
			9.807	29.42	49.03	98.07	245.2	490.3	980.7	1961	2942	4903	9807 19614 N
			1	3	5	10	25	50	100	200	300	500 1000 2000 / 3000 gf	
Loading mechanism			Automatic loading and releasing method (Auto load change option)										
Indenter approach speed			50 um/sec										
Dwell time			5 - 99 sec										
Indenter			Standard: 1(HV),Option: 2(HV,HK) Operation through touch screen / PC										
Objective lens			Standard:2 (40 X,10 X) Option: Max.4nos (2.5X, 5X, 10X, 20X, 40X, 100X)										
Eyepiece lens			Standard 10x Digital Eyepiece with : option 15x										
Total magnification			Standard (400 X, 100 X) Corresponding 40x , 10x										
Measuring microscope (total 400x)	Max.measuring length		200 um (By software limited to stage travel stroke)										
	Min.scale		0.01 um(200X - 1000X)										
	Min.measuring unit (Graduation)		0.01 um(200X - 1000X)										
	Type		Optional Electronic type, PC measurement										
Light source			LED light source control by Touch Screen / PC										
Turret Magnification change			Motorized Turret(6 position 2 indenter + 4 Objective), Control by Touch screen / PC										
LCD touch panel			Color LCD touch panel Control of Tester										
Testing mode			HV, HK, HBS, KC, Xbar, Cylindrical Correction										
Hardness conversion			Possible compliance with SAE(J-417B), ASTM (E-140) In Rockwell, N/m2, Brinell										
OK/NG criteria			Judging to the results by setting Max. and Min.										
Statistical calculation			Min, Max, Average, Std Dev, Cp, CPK										
Max. heigh of specimen			120 mm										
Max. depth of specimen			160 mm										
Data output			Centronics (Dot printer output) RS232C (Output for PC)										
Accuracy			According to JIS B7734 and ASTM E-384										
Photo port			Standard photo port for Camera										
Dimensions and weight			Main body only W 250 xD 520 x H 530 mm, 35kg										
Camera			3.2MP-2048*1536 USB3 High Speed HD Camera										
Manual X Y Stage			Manual X-Y Table 100*100mm, 0.01mm least count										
Motorized Stage Options			Optional Motorized Stage: 100x60 / 150x100 / 200x100 mm travel @ 0.5 micron/step										
Focusing (Z axis)			Manual Focusing by Hand wheel, Optional Motorized Focusing and Autofocus										
Motorized Stage Control			3 Axis (X-Y-Z) control through Joy stick / PC										
Protective Cover			Optional: Protection Guard for Operator safety / Dust control										
Power supply			Single phase AC 110 / 230 50/60 Hz available for Export models										