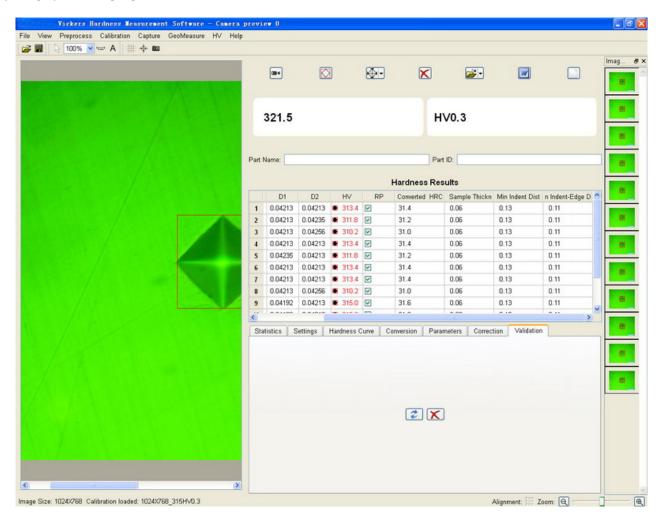


## Vickers/Knoop Measurement Software iVick

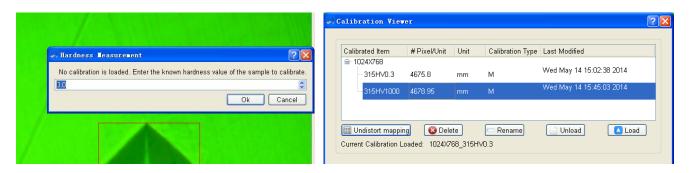
iqualitrol new generation Vickers (Micro Vickers)/Knoop measurement software iVick with friendly operation interface, apply USB camera to fast capture video and images, supports case depth inspection by analyzing the indentation image.

In traditional way, operators judge the size of the indentation through the microscopes, due to vision errors, different operators obtain different measurement results for same indentation. While by software, the indentation is enlarged through high resolution lens, and the size of indentation can be automatically obtained by image processing algorithm.



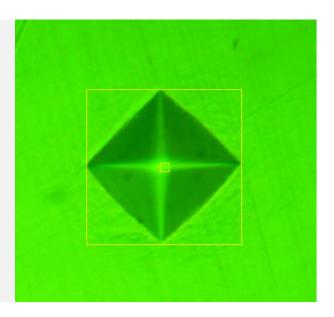
## Following are highlighting of iVick

1, Easy Calibration, calibration can be done according to standard hardness blocks. Also can select calibration data according to test force, this function need to keep same test force with hardness tester.

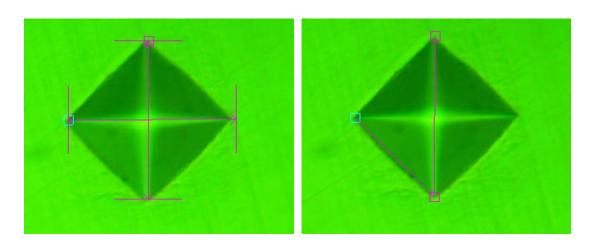




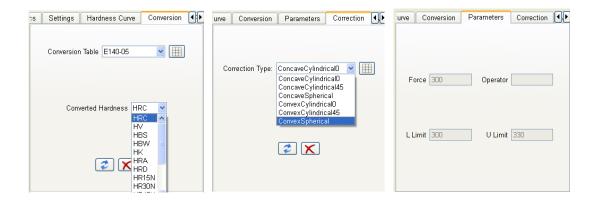
2, Auto Measurement: Apply
Digital image processing
technology, software can
automatically find indentation
precisely and compute hardness
value. Manually adjust
indentation length also available
if indentation is not clearly.



3, Manual Measurement: Support two methods for manual measurement, click four peaks of indentation or measure length of diagonal line.



4, support hardness conversion among 12 hardness scales according to ASTM E140-05, hardness results correction of cylinder surface, upper and lower limit setting.





5, Hardness Results Display: Shows indentation dialog length, conversion value, requested minimal sample thickness, minimal any two indentations distance and material edge to the center of indentation.

Hardness Results									
	D1	D2	HV	RP	Converted HRC	Sample Thickn	Min Indent Dist	n Indent-Edge D	
1	0.04213	0.04213	■ 313.4	<b>✓</b>	31.4	0.06	0.13	0.11	
2	0.04213	0.04235	■ 311.8	<b>✓</b>	31.2	0.06	0.13	0.11	
3	0.04213	0.04256	■ 310.2	<b>✓</b>	31.0	0.06	0.13	0.11	
4	0.04213	0.04213	■ 313.4	<b>✓</b>	31.4	0.06	0.13	0.11	
5	0.04235	0.04213	■ 311.8	<b>✓</b>	31.2	0.06	0.13	0.11	
6	0.04213	0.04213	■ 313.4	<b>✓</b>	31.4	0.06	0.13	0.11	
7	0.04213	0.04213	■ 313.4	<b>✓</b>	31.4	0.06	0.13	0.11	
8	0.04213	0.04256	■ 310.2	<b>✓</b>	31.0	0.06	0.13	0.11	
9	0.04192	0.04213	■ 315.0	<b>✓</b>	31.6	0.06	0.13	0.11	
<	0.04400	001010	- 0.50		~ ~		0.40	>	

6, Test Report, export test results with indentation to MS EXCEL or WORD

## Micro/Vickers Hardness (HV) Test Results

Submitter				iqualitrol			Date Submitted			APRIL 9, 2013			
Part Name				STEEL PLATE			Part #			SI1404125090			
# of Samples							Sample Descri.			STEEL PLATE			
Qual. UL				330.0			Qual. LL				300.0		
	Mach	ine ID					Me	as. Stan	dard				
Sample Cyl./Sph. Diam. (mm)						Force (g)			500				
_						Test R	esul	ts					
#	Depth	Υ	D1	D2	Hard.	Conver.	#	Depth	Υ	D1	D2	Hard.	Conve
	μm	μm	μm	μm	HV	HRC		μm	μm	μm	μm	HV	HRC
1			54.5	54.5	312.8	31.4	5			54.7	54.9	309.1	30.9
2			54.5	54.9	310.3	31.0	6			54.7	54.9	309.1	30.9
3	-		54.5	55.1	309.1	30.9	7			54.7	55.1	307.8	30.7
4			54.7	55.1	307.8	30.7	8			54.7	55.1	307.8	30.7
Case Hardness(HV)			s(HV)					Case D	epth(µ	m)			
Indentation Images	1.		7						7			7	
Indentation	5.		<b></b>	6.		<b></b>	7.		<b></b>		8.	<b>*</b>	
Indentatio			<b>•</b>			Stati	7.	7.000	<b></b>			<b>+</b>	_
Indentation	Ма	ximum	<b></b>		312.8		7.	Minir				307.8	_
Indentation	Ma Av	erage	<b>•</b>		309.2		7.	Minir Std.	Dev.			0.6	_
Indentatio	Ma Av		<b>•</b>				7.	Minir	Dev.				_
Indentation	Ma Av	erage	<b>•</b>		309.2		7.	Minir Std.	Dev. ok		8.	0.6	

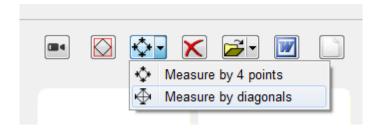
Service Call: +86-13711988687



7, Statistics: Automatically compute average value, variance, etc.



8, Others Functions: Support manual measurement, delete measurement result, etc.



## **iVick Versions Comparison:**

iVick-U101	Manual Software, 1.3MP USB Camera, CCD Adapter					
iVick-U102	Manual Software, 1.3MP USB Camera, CCD Adapter, Turret Control (Only Support Auto Turret Hardness Tester)					
iVick-U103	Auto Software, 1.3MP USB Camera, CCD Adapter					
iVick-U104	Auto Software, 1.3MP USB Camera, CCD Adapter, Turret Control (Only Support Auto Turret Hardness Tester)					