Item		Future Tech FM-ARS-F Micro Hardness Tester
Standard System Component		Automatic X-Y Stage & Motor Drive Unit
		CCD Camera
		Complete set of PC: 23" TFT Wide LC Monitor,
		Mouse, Keyboard, and Joy-Stick with Controller
		Standard Software for System ARS 9000
		PC: DELL or IBM Compatible Model with OS
		Windows 7
	Туре	Analog Type: Controllable Loading Operation by External PC
		Test load type(A~D) can be selected. (FM-110S/FM-310S series)
	Test Load	Test load type(A~E) can be selected. (FM-810S series)
		SETTING IS DIFFERENT BETWEEN MODELS
	Loading Mechanism	Automatic Load/Hold/Release Method
	Focus Operation	Automatic/Manual Operation available *Focusing Steps adjustable
Micro Hardness Tester	Auto Stage Elevation	Automatic: by Built-in Stepping Motor / Manual: by Standard Handle & Joy-Stick Operation *Safety Devices equipped for Overrun of Elevation
	Precision Vice	Standard: Max. Opening: 50mm
	Turret Rotation	Automatic/Manual changeable
	Load Applying Speed	60μm/sec
	Dwell Time	5-40sec
	Manual Ocular	OPTION: Analog Type
	Manual Measurement	By Video Line on TFT available
	Objective Lens	x10 / x50 (Optical Parts for 3rd Lens Built-in)
	Automatic Measurement Scale	Vickers Hardness (HV)/Knoop Hardness (HK)
	Manual Measurement Scale	Vickers Hardness (HV)/Knoop Hardness (HK) is measurable with the optional analog type ocular.
	Driving Motor	Stepping Motor
Automatic X-Y Stage		By icon: 2 Steps Speed available in X·Y·Z axis
	Drive Control	By Joy-Stick: Flexible Speed Changing in X·Y·Z axis
	Dimensions	110×110mm
	Max. Movement	50x50mm
	Min. Movement	1µm
	Moving Speed	1–25mm/sec adjustable
		Straight Line (Vertical & Horizontal)
		Zigzag
	Movement Program Pattern	Circle
		Arc
		Line Set for any Angle (8 Lines and Max. 998

		indents on 1 Line/Total 49950 indents are measurable.) Random
		Teaching
		Matrix (Max. 9999 indents in a range are measurable.)
		Specificity of 2 Points
		Specificity of Angle
		Sample Profile Memory Function & Measurement along with Profile Line
	Pattern Setting	Start Position Setting for Straight Line and Position Setting for Random/Teaching Mode shall be performed by Mouse-Click.
	Software	OS: Microsoft Windows 7
	Available Hardness Scale	Vickers Hardness (HV)/Knoop Hardness (HK)
Automatic	Measurement Repeatability	±0.8% on Test Block 700HV/500gf
Reading	Auto-Focus Time	Shortest 3 sec
	Auto Reading Time	Approx. 0.2 sec/1 indent
	Measurable Min. Indent	10μm
	Min. Measurement Unit	0.1µm
	Manual Measurement	By OPTIONAL Ocular or Video Line on TFT
	Available Languages Support	Japanese/English
Other Features	Data Output Format and Editing Function	Hardness Value, Hardness Chart, Case Depth, Insertion of Picture, etc.
	3	and Flexible Data Editing on "EXCEL"
	Printer	Standard: Color Ink-Jet Type
	Joy Stick	For X·Y·Z axis Movement/Standard: Digital Type
	Manual Ocular	OPTION: Analog Type
		Safety Devices equipped for Unmanned Operation
	Safety Device	* Turret Rotation stops instantaneously in case Object Lens or Indenter hits a specimen.
		* Upper & Lower Limit Stopper is equipped against Uncontrollable Stage Elevation.