

光學檢測系統

OPTICAL INSPECTION & MEASURING SYSTEM

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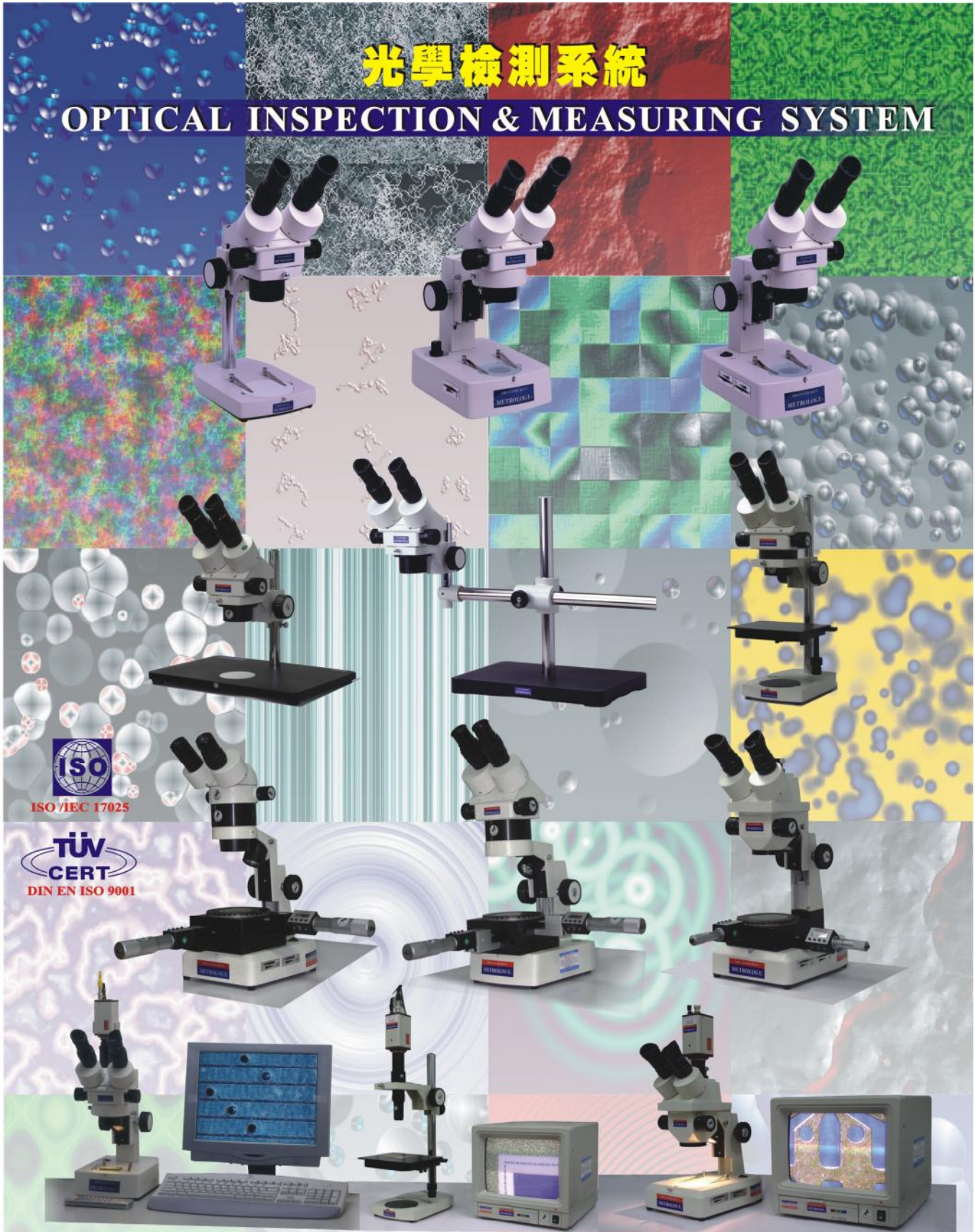


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台灣黑馬牌 量儀專家 METROLOGY®

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◇ 模組化顯微鏡頭 **Modular Microscope Head**

	型號 Model No.	說明 Description	價格 Price (NT\$)
	OP-FM12 OP-FM13 OP-FM14 OP-FM24	10X/20X 雙目鏡，可調固定倍率；視場：20mm~5mm，物距：110mm 10X/30X Double-eyepiece, adjustable fix magnification; 10X/40X Field diameter: 20mm~5mm. 20X/40X Working distance: 110mm.	23,200
	OP-ZM	大型雙目鏡，Zoom 可調無段倍率，7X~45X； 視場：28mm~4mm，物距：90mm Big type double-eyepiece, zoom adjustable no-step continuous magnification 7X~45X. Field diameter: 28mm~4mm. Working distance: 90mm.	40,400
	OP-X	無目鏡，Zoom 可調無段倍率，7X~45X； CCD 外接裝置，物距：90mm No-eyepiece, zoom adjustable no-step continuous magnification 7X~45X. CCD connect unit. Working distance: 90mm.	25,000
	OP-S	單目鏡，Zoom 可調無段倍率，7X~45X； CCD 外接裝置，視場：28mm~4mm，物距：90mm Single-eyepiece, zoom adjustable no-step continuous magnification 7X~45X. CCD connect unit. Field diameter: 28mm~4mm. Working distance: 90mm.	34,200
	OP-M	雙目鏡，Zoom 可調無段倍率，7.5X~35X； CCD 外接裝置，視場：27mm~6mm，物距：90mm Double-eyepiece, zoom adjustable no-step continuous magnification 7.5X~35X. CCD connect unit. Field diameter: 27mm~6mm. Working distance: 90mm.	36,600
	OP-L	大型雙目鏡，Zoom 可調無段倍率，7X~45X； CCD 外接裝置，視場：28mm~4mm，物距：90mm Big type double-eyepiece, zoom adjustable no-step continuous magnification 7X~45X. CCD connect unit. Field diameter: 8mm~4mm. Working distance: 90mm.	57,200
	OP-Z	無目鏡，Zoom 可調無段倍率，0.84X~8.4X； CCD 外接裝置，物距：150mm No-eyepiece, zoom adjustable no-step continuous magnification 0.84X~8.4X. CCD connect unit. Working distance: 150mm.	54,000
	OP-I	無目鏡，Zoom 可調無段可定格倍率，7X~45X； CCD 外接裝置，物距：150mm No-eyepiece, zoom adjustable no-step continuous & fix magnification 7X~45X. CCD connect unit. Working distance: 150mm.	33,000

◇ 模組化底座 Modular Base

	型號 Model No.	說明 Description	價格 Price (NT\$)
	OP-1	ϕ 90 無光源精鑄平面底座 圓柱高 250mm；上下可微調焦距：45mm ϕ 90 No illumination cast-iron plain base, Cylinder column height: 250mm. Adjustable focus: 45mm	7,000
	OP-2	單可調上鹵下螢光源精鑄底座，方柱高：150mm； 上下可微調焦距：70mm(F)90mm(Z) Single adjustable illumination cast-iron base. Square column height: 150mm. Adjustable focus: 70mm	15,200
	OP-3	雙可調上鹵下鹵光源精鑄底座，方柱高：150mm； 上下可微調焦距：70mm(F)90mm(Z) Double adjustable illumination cast-iron base. Square column height: 150mm. Adjustable focus: 70mm	17,800
	OP-4	無光源大型平面精鑄底座 L: 380*250mm， 圓柱高：250mm；上下可微調焦距：45mm No illumination big plain cast-iron base L: 380*250mm, Cylinder column height: 250mm. Adjustable focus: 45mm	14,200
	OP-5	無光源大型長臂支架精鑄底座 L: 500mm， 圓柱高：500mm；上下可微調焦距：45mm No illumination long arm universal stand cast-iron base L: 500mm, Cylinder column height: 500mm. Adjustable focus: 45mm	22,000
	OP-6	無光源 X-Y 移動台座，R: 75*50mm； 圓柱高：400mm；上下可微調焦距：45mm No illumination X-Y stage. Range: 75*50mm. Cylinder column height: 400mm. Adjustable focus: 45mm	30,000
	OP-7	ϕ 90mm 無光源齒軌底座，L: 300x200mm， 齒軌柱高 330mm，全程可調焦距:200mm ϕ 90 No illumination track slide base, track slide column height: 330mm, adjustable focus: 200mm	19,600
	OP-8	ϕ 90mm 無光源齒軌底座，L: 300x200mm， 齒軌柱高 330mm，全程可調焦距:200mm，附全程微調裝置 ϕ 90 No illumination track slide base, track slide column height: 330mm, adjustable focus: 200mm, with full travel fine adjustment unit	31,000
	OP-9	ϕ 90mm 無光源線軌底座，L: 200x150mm， 線軌柱高 300mm，全程可調焦距:100mm ϕ 90 No illumination linear slide base, L: 200x150mm linear slide column height: 300mm, adjustable focus: 100mm	19,600
	OP-9L	*含 LED 底座光源 with LED base illumination	32,600
	OP-10	ϕ 90mm 無光源線軌底座，L: 200x150mm， 線軌柱高 400mm，全程可調焦距:180mm ϕ 90mm no illumination linear slide base, L: 200x150mm, linear slide column height: 400mm, adjustable focus: 180mm	26,000
	OP-10L	*含 LED 底座光源 with LED base illumination	39,000

◇ 雙眼立體顯微鏡(可調固定倍率) **Binocular Stereo Microscope(Fix Magnification)**



型號 Model No.	倍率 Magnification	價格 Price (NT\$)	型號 Model No.	倍率 Magnification	價格 Price (NT\$)
OP-FM121	10X/20X	26,000	OP-FM124	10X/20X	37,000
OP-FM131	10X/30X		OP-FM134	10X/30X	
OP-FM141	10X/40X		OP-FM144	10X/40X	
OP-FM241	20X/40X		OP-FM244	20X/40X	
OP-FM122	10X/20X	27,600	OP-FM125	10X/20X	45,000
OP-FM132	10X/30X		OP-FM135	10X/30X	
OP-FM142	10X/40X		OP-FM145	10X/40X	
OP-FM242	20X/40X		OP-FM245	20X/40X	
OP-FM123	10X/20X	29,600	OP-FM126	10X/20X	53,000
OP-FM133	10X/30X		OP-FM136	10X/30X	
OP-FM143	10X/40X		OP-FM146	10X/40X	
OP-FM243	20X/40X		OP-FM246	20X/40X	

◇ 雙眼立體顯微鏡(ZOOM 可調無段倍率) **Binocular Stereo Microscope(Zoom Continuous Magnification)**



型號 Model No.	倍率 Magnification	價格 Price (NT\$)	型號 Model No.	倍率 Magnification	價格 Price (NT\$)
OP-ZM1	7X~45X	45,000	OP-ZM4	7X~45X	54,000
OP-ZM2		53,000	OP-ZM5		62,000
OP-ZM3		56,000	OP-ZM6		70,000

◇ 三眼影像立體顯微鏡 (ZOOM 可調無段倍率) Trinocular Image Stereo Microscope (Zoom)



型號 Model No.	顯微倍率 Microscope Magnification	影像倍率 Image Magnification	價格 Price (NT\$)	說明 Description
OP-ZTX1			28,000	<p>標準組件 Standard Module</p> <p>1. 底座 Base</p> <p>2. 10X 顯微鏡頭 10X Microscope Head</p> <p>另購附件 Optional Accessories</p>
OP-ZTX2	7X~45X		45,000	
OP-ZTX3	無目鏡	35X~225X(14")	48,000	
OP-ZTX4			44,000	
OP-ZTX5	No-eyepiece		52,000	
OP-ZTX6			60,000	
OP-ZTS1			34,000	<p>1. 1/3"彩色攝影機 1/3" Color Camera No. OP-CCDH or OP-CCDM</p> <p>2. 彩色影像顯示器 Color Image Monitor No. OP-MONITOR 10 or OP-MONITOR 14</p> <p>3. 電腦影像擷取器 Computer Image Capture No. OP-IC</p> <p>4. LCD 彩色影像顯示器 LCD Color Image Monitor No. OP-LCD 17 or OP-LCD 19</p> <p>5. 電視盒 TV Box No. OP-TB</p>
OP-ZTS2	7X~45X	35X~225X(14")	54,000	
OP-ZTS3	單目鏡		57,000	
OP-ZTS4			53,000	
OP-ZTS5	Single-eyepiece		61,000	
OP-ZTS6			69,000	
OP-ZTM1			41,000	<p>1. 1/3"彩色攝影機 1/3" Color Camera No. OP-CCDH or OP-CCDM</p> <p>2. 彩色影像顯示器 Color Image Monitor No. OP-MONITOR 10 or OP-MONITOR 14</p> <p>3. 電腦影像擷取器 Computer Image Capture No. OP-IC</p> <p>4. LCD 彩色影像顯示器 LCD Color Image Monitor No. OP-LCD 17 or OP-LCD 19</p> <p>5. 電視盒 TV Box No. OP-TB</p>
OP-ZTM2	7.5X~35X	37.5X~175X(14")	45,000	
OP-ZTM3	雙目鏡		48,000	
OP-ZTM4			56,000	
OP-ZTM5	Double-eyepiece		63,000	
OP-ZTM6			71,000	
OP-ZTL1			62,000	<p>1. 1/3"彩色攝影機 1/3" Color Camera No. OP-CCDH or OP-CCDM</p> <p>2. 彩色影像顯示器 Color Image Monitor No. OP-MONITOR 10 or OP-MONITOR 14</p> <p>3. 電腦影像擷取器 Computer Image Capture No. OP-IC</p> <p>4. LCD 彩色影像顯示器 LCD Color Image Monitor No. OP-LCD 17 or OP-LCD 19</p> <p>5. 電視盒 TV Box No. OP-TB</p>
OP-ZTL2	7X~45X	35X~225X(14")	68,000	
OP-ZTL3	大型雙目鏡		72,000	
OP-ZTL4			72,000	
OP-ZTL5	Big-type double-eyepiece		79,000	
OP-ZTL6			87,000	
OP-ZTZ1			66,000	<p>1. 1/3"彩色攝影機 1/3" Color Camera No. OP-CCDH or OP-CCDM</p> <p>2. 彩色影像顯示器 Color Image Monitor No. OP-MONITOR 10 or OP-MONITOR 14</p> <p>3. 電腦影像擷取器 Computer Image Capture No. OP-IC</p> <p>4. LCD 彩色影像顯示器 LCD Color Image Monitor No. OP-LCD 17 or OP-LCD 19</p> <p>5. 電視盒 TV Box No. OP-TB</p>
OP-ZTZ2	0.84X~8.4X	4.2X~42X(14")	74,000	
OP-ZTZ3	無目鏡		77,000	
OP-ZTZ4			73,000	
OP-ZTZ5	No-eyepiece		80,000	
OP-ZTZ6			89,000	
OP-ZTI1			72,000	<p>1. 1/3"彩色攝影機 1/3" Color Camera No. OP-CCDH or OP-CCDM</p> <p>2. 彩色影像顯示器 Color Image Monitor No. OP-MONITOR 10 or OP-MONITOR 14</p> <p>3. 電腦影像擷取器 Computer Image Capture No. OP-IC</p> <p>4. LCD 彩色影像顯示器 LCD Color Image Monitor No. OP-LCD 17 or OP-LCD 19</p> <p>5. 電視盒 TV Box No. OP-TB</p>
OP-ZTI2	7X~45X	35X~225X(14")	80,000	
OP-ZTI3	無目鏡可定格倍率		82,000	
OP-ZTI4			79,000	
OP-ZTI5	No-eyepiece fix		87,000	
OP-ZTI6	magnification		95,000	

◇ 三眼金相顯微鏡 Trinocular Hi-magnification Microscope



型號 Model No.	顯微倍率 Microscope Magnification	X-Y 移動範圍 X-Y Travel Range	鼻輪組鏡頭 Convertible Lens	價格 Price (NT\$)
OP-HM9000	100X/200X/400X	75X50mm	10X/20X/40X	180,000
OP-HM9001	40X/100X/200X/400X	75X50mm 底光窗口(light unit)	4X/10X/20X/40X	200,000
OP-HM9002	40X/100X/200X/400X	250X250mm 底光窗口(light unit)	4X/10X/20X/40X	380,000

標準組件 Standard Module

(1) 10X 雙眼顯微鏡頭 10X Double-eyepiece Microscope Head	(2) 上同軸光光源底座 Coaxial Illumination Cast-iron Base	(3) 鼻輪組鏡頭 Convertible Lens Unit
(4) CCD 接口裝置 CCD Connect Unit	(5) X-Y 移動台座 X-Y Axis Stage	(6) 細微調焦距方型支柱 Fine-adjustable Focus Device

◇ 工具顯微鏡 Tool Microscope



型號 Model No.	顯微倍率 Microscope Magnification	量測範圍 Measuring Range	解析度 Resolution	價格 Price (NT\$)
OP-TM11FM2 (3)	參照 FM 型 (可調固定倍率) Too see FM (2 Step Select)	25*25mm	0.001mm/0.00005"	84,000
OP-TM22FM2 (3)		50*50mm		108,000
OP-TM11ZM2 (3)	7X~45X(可調無段倍率 Zoom)	25*25mm		110,000
OP-TM22ZM2 (3)		50*50mm		134,000
OP-TM11S2 (3)		25*25mm		112,000
OP-TM22S2 (3)		50*50mm		135,000
OP-TM11M2 (3)	7.5X~35X(可調無段倍率 Zoom)	25*25mm		103,000
OP-TM22M2 (3)		50*50mm		126,000
OP-TM11L2 (3)	7X~45X(可調無段倍率 Zoom)	25*25mm		127,000
OP-TM22L2 (3)		50*50mm		150,000

標準組件 Standard Module

(1) 底座 Base	(2) 顯微鏡頭 Microscope Head	(3) X-Y 量測床台(含旋轉台) X-Y Measuring Stage (Included Rotary Table)
(4) X-Y 電子測微器頭 X-Y Electronic Micrometer Head	(5) 10X 十字線目鏡 10X Cross-line Eyepiece	No. OP-EL10G1

◇ 影像工具顯微鏡 Image Tool Microscope

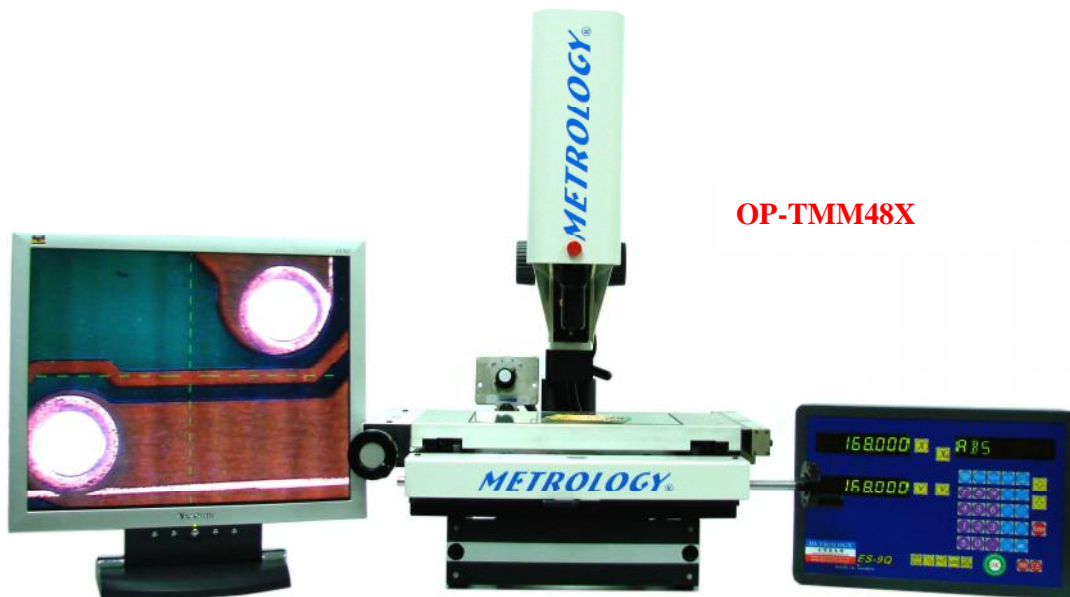


型號 Model No.	顯微倍率 Microscope Magnification	影像倍率 Image Magnification	量測範圍 Measuring Range	解析度 Resolution	價格 Price (NT\$)
OP-ITM11X OP-ITM22X	7X~45X(無目鏡) No-eyepiece	35X~225X(14")	25*25mm 50*50mm	0.001mm/ 0.00005"	210,000 233,000
OP-ITM11S OP-ITM22S	7X~45X(單目鏡) Single-eyepiece	35X~225X(14")	25*25mm 50*50mm		220,000 242,000
OP-ITM11M OP-ITM22M	7.5X~35X(雙目鏡) Double-eyepiece	37.5X~175X(14")	25*25mm 50*50mm		210,000 233,000
OP-ITM11L OP-ITM22L	7X~45X(大型雙目鏡) Big-type Double-eyepiece	35X~225X(14")	25*25mm 50*50mm		234,000 256,000
OP-ITM11Z OP-ITM22Z	0.84X~8.4X(無目鏡) No-eyepiece	4.2X~42X(14")	25*25mm 50*50mm		238,000 262,000
OP-ITM11I OP-ITM22I	7X~45X(無目鏡可定格倍率) No-eyepiece fix magnification	35X~225X(14")	25*25mm 50*50mm		244,000 266,000

標準組件 Standard Module

- (1) 底座 Base (2) 10X 顯微鏡頭(Zoom 可調無段倍率) 10X Microscope Head (3) X-Y 量測床台(含旋轉台) X-Y Measuring Stage (Included Rotary Table)
 (4) X-Y 電子測微器頭 X-Y Electronic Micrometer Head (5) X-Y 十字產生器 X-Y Cross-line Generator (No. OP-CG1)
 (6) 1/3" 高解析彩色攝影機 1/3" High-resolution Color Camera (7) 17" LCD 彩色影像顯示器 17" LCD Color Image Monitor

◇ 二次元顯微影像量測儀(二軸) 2D Microscope Image Measuring Instrument (2 Axis)



◇ 二次元顯微影像量測儀(二軸) 2D Microscope Image Measuring Instrument (2 Axis)



OP-TMM34X



OP-TMM48X



OP-TMM612Z

型號 Model No.	顯微倍率 Microscope Magnification	影像倍率(14") Image Magnification	量測範圍 Measuring Range	價格 Price (NT\$)
OP-TMM22X	7X~45X	35X~225X	50*50mm	420,000
OP-TMM22S	7X~45X	35X~225X		438,000
OP-TMM22M	7.5X~35X	37.5X~175X		450,000
OP-TMM22L	7X~45X	35X~225X		468,000
OP-TMM22Z	0.84X~8.4X	4.2X~42X		443,000
OP-TMM22I	7X~45X	35X~225X		450,000
OP-TMM34X	7X~45X	35X~225X	100*70mm	570,000
OP-TMM34S	7X~45X	35X~225X		588,000
OP-TMM34M	7.5X~35X	37.5X~175X		600,000
OP-TMM34L	7X~45X	35X~225X		618,000
OP-TMM34Z	0.84X~8.4X	4.2X~42X		593,000
OP-TMM34I	7X~45X	35X~225X		600,000
OP-TMM48X	7X~45X	35X~225X	200*100mm	690,000
OP-TMM48S	7X~45X	35X~225X		708,000
OP-TMM48M	7.5X~35X	37.5X~175X		720,000
OP-TMM48L	7X~45X	35X~225X		738,000
OP-TMM48Z	0.84X~8.4X	4.2X~42X		713,000
OP-TMM48I	7X~45X	35X~225X		720,000
OP-TMM612X	7X~45X	35X~225X	300*150mm	830,000
OP-TMM612S	7X~45X	35X~225X		850,000
OP-TMM612M	7.5X~35X	37.5X~175X		864,000
OP-TMM612L	7X~45X	35X~225X		886,000
OP-TMM612Z	0.84X~8.4X	4.2X~42X		856,000
OP-TMM612I	7X~45X	35X~225X		864,000
OP-TMM816X	7X~45X	35X~225X	400*200mm	996,000
OP-TMM816S	7X~45X	35X~225X		1,020,000
OP-TMM816M	7.5X~35X	37.5X~175X		1,037,000
OP-TMM816L	7X~45X	35X~225X		1,063,000
OP-TMM816Z	0.84X~8.4X	4.2X~42X		1,028,000
OP-TMM816I	7X~45X	35X~225X		1,037,000
OP-TMM1020X	7X~45X	35X~225X	500*250mm	1,096,000
OP-TMM1020S	7X~45X	35X~225X		1,122,000
OP-TMM1020M	7.5X~35X	37.5X~175X		1,141,000
OP-TMM1020L	7X~45X	35X~225X		1,170,000
OP-TMM1020Z	0.84X~8.4X	4.2X~42X		1,131,000
OP-TMM1020I	7X~45X	35X~225X		1,141,000
OP-TMM1224X	7X~45X	35X~225X	600*300mm	1,260,000
OP-TMM1224S	7X~45X	35X~225X		1,290,000
OP-TMM1224M	7.5X~35X	37.5X~175X		1,312,000
OP-TMM1224L	7X~45X	35X~225X		1,346,000
OP-TMM1224Z	0.84X~8.4X	4.2X~42X		1,300,000
OP-TMM1224I	7X~45X	35X~225X		1,312,000

標準組件 Standard Module

- | | |
|---|--|
| (1) 雙可調上鹵下鹵光源鐵鑄底座 | (1) Double adjustable tungsten illumination cast-iron base |
| (2) 10X ZOOM 可調無段倍率顯微鏡頭 | (2) 10X microscope-head, zoom adjustable no-step continuous magnification |
| (3) X-Y 軸量測床台, 滾柱線性軸承, 優質鋼座 | (3) X-Y axis measuring table, linear roller bearing guide, high-quality harden steel stand |
| (4) X-Y 軸高精度光學尺, 解析度 0.001mm | (4) X-Y axis high accuracy linear scale, resolution: 0.001mm/0.00005" |
| (5) 重複精度: ±0.001mm, 量測精度: ±(3+L/100) μm | (5) Repeatability: ±0.001mm Accuracy: ±(3+L/100) μm |
| (6) X-Y 雙軸微處理數字顯示器, 功能: 2D 幾何量測 | (6) X-Y axis microprocessor digital readout function: 2D geometry measuring |
| (7) X-Y 十字產生器 (可自動尋邊) | (7) X-Y cross-line generator (Auto-edge) No. OP-CG2 |
| (8) 1/3"高解析彩色攝影機 | (8) 1/3" high resolution color camera No. OP-CCDH |
| (9) 17" LCD 彩色影像顯示器 | (9) 17" LCD color image monitor No. OP-LCD 17" |
| (10) JCC ISO 合格校正報告書 | (10) JCC ISO calibration report |

◇ 二次元顯微影像量測儀(三軸) 2D Microscope Image Measuring Instrument (3 Axis)



型號 Model No.	顯微倍率 Microscope Magnification	影像倍率 Image Magnification	量測範圍 Measuring Range	價格 Price (NT\$)
OP-TMZ34X	7X~45X	35X~225X(14")	100*70*100mm	667,000
OP-TMZ46X			150*100*150mm	766,000
OP-TMZ48X			200*100*150mm	832,000
OP-TMZ610X			250*150*200mm	964,000
OP-TMZ812X			300*200*200mm	1,063,000
OP-TMZ1020X			500*250*200mm	1,248,000
OP-TMZ1224X			600*300*200mm	1,459,000

標準組件	Standard Module
(1) 高精度花崗石底座及 Z 軸立柱	(1) Hi-accuracy granite master base & Z axis column
(2) 10X ZOOM 可定格可調無段倍率顯微鏡頭	(2) 10X microscope-head, zoom adjustable no-step continuous magnification & fix magnification
(3) X-Y-Z 軸滾柱線性軸承量測床台	(3) X-Y-Z axis measuring table, linear roller bearing guide
(4) X-Y-Z 軸高精度光學尺，解析度 0.001mm	(4) X-Y-Z axis high accuracy linear scale, resolution: 0.001mm/0.00005"
(5) 重複精度：±0.001mm，量測精度：±(3+L/100) μm	(5) Repeatability: ±0.001mm Accuracy: ±(3+L/100) μm
(6) X-Y-Z 三軸微處理數字顯示器， 功能：2D 多點幾何及深度量測	(6) X-Y-Z axis microprocessor digital readout No. OP-ES93 Function: 2D multi-point geometry & depth measuring
(7) X-Y 十字產生器 (可自動尋邊)	(7) X-Y cross-line generator (Auto-edge) No. OP-CG2
(8) 1/3"高解析彩色攝影機	(8) 1/3" high resolution color camera No. OP-CCDH
(9) 高亮度上下 LED 燈源及電控箱	(9) Top & Bottom LED light, electric power supply control box
(10) 17" LCD 彩色影像顯示器	(10) 17" LCD color image monitor No. OP-LCD 17"
(11) 簡易手控按鍵盒	(11) Easy-touch keyboard control box No. OP-KB
(12) JCC ISO 合格檢驗校正報告書	(12) JCC ISO calibration report



三點求圓
Circle



兩點求線
Line



點
Point



距離
Distance



四點求角
Angle



兩線相交
Intersection



點線垂直焦點
Perpendicular point



列印資料
Print

數位光學檢測系統

DIGITAL OPTICAL INSPECTION & MEASURING SYSTEM

台灣第一 世界首創 未來潮流

TAIWAN NO.1 WORLD-LEADING INNOVATION FUTURE TENDENCY

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投影 顯微 照像 錄影 觀測 分析 量測 管理

PROJECTION MICROSCOPE PICTURE VIDEO OBSERVATION
ANALYSIS MEASUREMENT MANAGEMENT

台灣黑馬牌 量儀專家 **METROLOGY®**

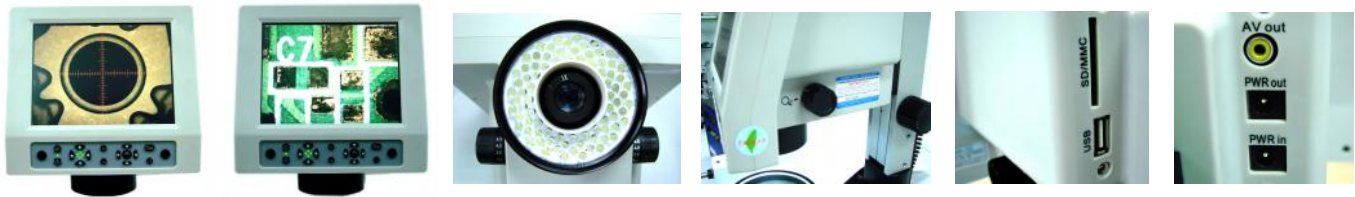
◇ 數位影像顯微鏡 Digital Image Microscope

特性

1. 世界創新設計概念，以全新科學技術與人性概念將液晶顯示器與顯微鏡合為一體，以符合現代科技潮流要求
2. 具有視覺舒適、操作簡便、色彩真實、圖像清晰等特點。可降低視覺壓力、減少頭暈、噁心等生理反應。適合長時間的觀測操作。
3. 可廣泛應用於機械、電子、光學、精密儀表、半導體、珠寶、生物、材料、組織、昆蟲、礦物、醫療生化等領域之生產、教學、檢驗、分析、組裝和量測等之科學研究。
4. 功能超強。可作靜態照像、動態攝像影像擷取、簡易比對量測；亦可聯結電腦，迅速擷取影像、編輯、存檔、畫面傳輸。搭配數位化量測裝置或 2D 影像量測軟體，可作幾何元素之立即量測運算和結果列印，並可支援 CAD/CAM 之逆向工程操作。

Features

1. World-leading innovation concept of advanced technology and user friendly design which combine LCD monitor and microscope to meet technology trend.
2. With features of comfortable observation, simple operation, color reality, sharp image which reduce the physical reaction such as visual stress, dizziness, nausea. Especially suitable for long-hour operation.
3. Widely applied in the fields of Mechanics, Electronics, Optics, Precise Measurement, Semi-conductor, Jewelry, Biology, Materials, Textile, Geology, Entomology, Medical Services. For the purpose of production, education, inspection, analysis, assembly and measurement.
4. Super functions with image capturing of still and dynamic photography, simple comparison measurement. Connected with the computer for quick image capturing, editing, saving, image transferring. Used with Digital measuring system & 2D image measuring software for immediate measurement of geometric elements and result printing. Support of CAD/CAM reverse engineering



操作和功能

- (1)LCD 顯示幕 (2)9 種操控按鍵 (3)螢幕參數顯示 (4)高亮度可 4 分區控制 LED 環形燈 (5)Zoom 0.7X~4.5X 可連續變倍顯微裝置 (6)光源明暗控制器 (7)多種十字線及顏色 (8)數位放大功能 (9)拍攝及圖片管理 (10)USB 數位傳輸 (11)電腦影像安裝軟體 Photo Impression (12)菜單功能：擷取模式、圖像設定、圖像大小、時間 & 日期設定、視頻模式、頻率模式、語言選擇

Operation & Function

- (1) LCD Screen (2) 9 kind of operation button (3) Screen parameter display (4) Four-zone control LED circular light (5) Zoom continuous magnification 0.7X~4.5X (6) Illumination brightness control unit (7) Cross-line with multi-style & color (8) Digital zoom function (9)Photography & Photo management (10)USB digital communication (11) Photo impression 4 installment software (12) Menu function: capture mode, image setting, image size, time & date setting, TV out mode, frequency mode, language selection

技術規格 Technical Specification

(1)連續變倍比 Continual zoom ratio:	1:6.5(0.7X~4.5X)
(2)影像倍率 Image magnification:	18.7X~120X(擴充倍率 expand:4.7X~240X)
(3)數位放大倍率 Digital amplification:	1X~4X
(4)顯示螢幕 Display screen :	8.4" TFT LCD
(5)影像清晰度 Image definition :	basic resolution 基本分辨率: 800X600~2048X1536
(6)圖像傳感器 Image sensor :	3.0 MEGA pixels
(7)工作距離 Working Distance :	92mm(搭配不同物鏡時 install different objective lens : 46mm~243mm)
(8)照明光源 Illumination :	可 4 分區及明暗控制高亮度 LED 照明裝置 Four-zone & brightness control LED ring light
(9)電源 Power supply :	100~240 VAC, 50HZ/60HZ
(10)電源轉接器 AC Adaptor :	12V DC 3A

另購附件 Optional Accessories

品名 Product	型號 Model	價格 Price (NT\$)
輔助物鏡 Auxiliary objective lens 0.5X	OP-OL0.5X(DM)	9,000
輔助物鏡 Auxiliary objective lens 2X	OP-OL2X(DM)	9,000
LED 濾光磨砂鏡片 LED filter ground glass	OP-LEDGF	2,000
SD/MMC 儲存卡 SD/MMC 1G memory card	OP-SD1G	4,800

◆ 數位影像顯微鏡 Digital Image Microscope



型號 Model No.	顯微倍率 Microscope Magnification	影像倍率 Image Magnification	底座 Base	價格 Price (NT\$)
OP-DM9	0.7X~4.5X	19X~120X	φ 90 無光源線軌底座 φ 90 No illumination linear slide base	280,000
OP-DM9L			可調 LED 光源線軌底座 Adjustment LED illumination linear slide base	300,000

◆ 數位影像工具顯微鏡 Digital Image Tool Microscope



型號 Model No.	量測範圍 Measuring Range	解析度 Resolution	照明&底座 Illumination & Base	價格 Price (NT\$)
OP-DTM11	25*25mm	0.001mm/0.00005"	雙可調 LED 光源線軌底座 Double adjustment LED illumination &linear slide base	350,000
OP-DTM22	50*50mm			380,000

顯微倍率 Microscope Magnification: 0.7X~4.5X 影像倍率 Image Magnification: 19X~120X

標準組件 Standard Module

- | | | | |
|----------------|---|-------------------------------------|--|
| (1) 底座
Base | (2) 數位影像顯微鏡
Digital Image Microscope | (3) X-Y 量測床台
X-Y Measuring Table | (4) X-Y 電子測微器頭
X-Y Electronic Micrometer Head |
|----------------|---|-------------------------------------|--|

◆ 數位影像量測儀 Digital Image Measuring Instrument



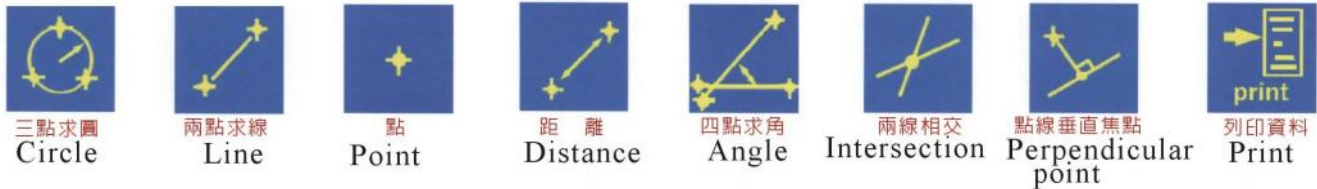
OP-DIM34

◇ 數位影像量測儀 Digital Image Measuring Instrument



型號 Model No.	顯微倍率 Microscope Magnification	影像倍率 Image Magnification	量測範圍 Measuring Range	Z 軸可調焦距 Z Axis adjustable focus	價格 Price (NT\$)
OP-DIM34	7X~45X	19X~120X	100*70mm	100mm	690,000
OP-DIM48			200*100mm	100mm	810,000
OP-DIM612			300*150mm	100mm	950,000
OP-DIM816			400*200mm	180mm	1120,000
OP-DIM1020			500*250mm	180mm	1220,000
OP-DIM1224			600*300mm	180mm	1380,000

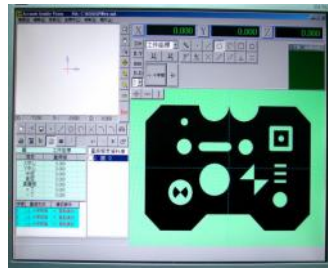
標準組件 Standard Module	Standard Module
(1) 雙可調高亮度 LED 環形光源花崗石底座	(1) Double adjustable LED ring light granite master base
(2) ZOOM 可調無段倍率數位影像顯微鏡	(2) Zoom Digital Image Microscope
(3) X-Y 軸滾柱線性軸承硬鋼量測床台	(3) X-Y Axis harden steel measuring table with linear roller bearing guide
(4) X-Y 軸高精度光學尺，解析度 0.001mm	(4) X-Y axis high accuracy linear scale, resolution: 0.001mm/0.00005"
(5) X-Y 雙軸微處理數字顯示器 NO. OP-ES92 功能：2D 多點幾何量測	(5) X-Y axis microprocessor digital readout NO. OP-ES92 function: 2D multi-point geometry measuring
(6) JCC ISO 合格校正報告書	(6) JCC ISO calibration report



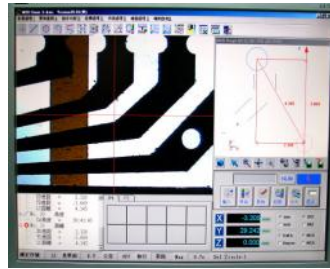
另購附件 Optional Accessories

型號 Model	說明 Description	價格 Price (NT\$)
ED-9050 DU-9000	Z 軸深度量測裝置 Z-axis depth measuring unit 0-50/0.001mm 0-2"/0.00005" 1.電子式量表 Electronic Digital Dial gage 2.數顯裝置 Electronic Digit Display Unit	24,000
OP-CG2	十字產生器 多種十字線型及顏色、自動尋邊 Cross-line Generator Multi-line style & color, auto-edge flash	36,000
OP-LCD 17"	17"液晶彩色影像顯示器 17" Color LCD Monitor	36,000
OP-MSD (OP-Z50)	二次元影像量測軟體 2D Image Measuring Software	230,000

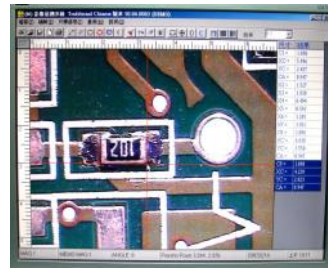
◆ 影像量測軟體 Image Measuring Software



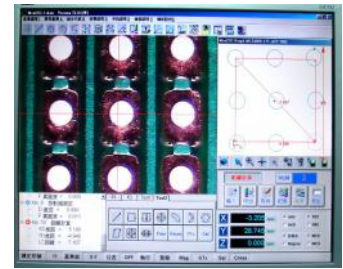
OP-AQ1



OP-MSD



OP-IMAGE



OP-MSU3D

OP-AQ1

- ◎ 工件量測立即圖形化，依圖形作交叉組合運算，過程一目了然
- ◎ 影像可擷取至螢幕上顯示觀察，並附十字刻劃線
- ◎ 影像自動尋邊功能，可做自動尋邊取點動作，或是以十字線目測取點
- ◎ 測量之圖形可存檔、列印，並轉至 CAD 編輯，可做逆向工程
- ◎ 測量資料可直接於視窗內編輯、修改、列印，並可自動轉至 EXCEL 編輯、存檔

- ◎ Instantly diagrammatic of measuring workpiece. Intersect-combined calculation according to the graph, which make the process clear.
- ◎ Images can be captured to screen for observation with cross line measurement.
- ◎ With functions of image auto edge for auto edge and point detection or to measure point by cross line.
- ◎ Measuring graph can be saved, printed, and transformed to CAD for reversed engineering.
- ◎ Measuring data can be displayed with screen for editing, revising, output as well as transformed into EXCEL for file editing and saving.

OP-MSD

- ◎ 影像直接螢幕顯示觀察，可直接量測並擷取圖型存檔
- ◎ 超強去毛邊功能，快速去除有毛邊或瑕疵之影像，正確取得量測數據
- ◎ 提供完整幾何公差計算，量測之數據可存檔並隨時呼出計算
- ◎ 工件量測圖形化，圖形可存檔、列印並轉至 CAD 編輯，可做逆向工程
- ◎ 點、線、圓、弧、面皆可多點測定，偏差圖形顯示
- ◎ 使用滑鼠可做自動尋邊取點、手動取點及十字線取點

- ◎ Image can be observed from the screen. Direct measurement and image capturing for saving.
- ◎ With super functions of throw-burr or defect images. Correctly accessing measuring data.
- ◎ Providing complete geometric tolerances processing for measuring data saved and recall calculated any time.
- ◎ Diagrammatic of measuring workpiece. Graph can be saved, printed, and transformed to CAD for reversed engineering.
- ◎ Point, line, circle, arc, face can all be multi-point measured. Display of deviation graph.
- ◎ Mouse used for auto edge detection, manual point detection and cross line point detection.

OP-IMAGE

- ◎ 完整 2D 幾何元素量測功能，適量測微小精細工件
- ◎ 可依工件位置任意量測，工件不需擺正或定位
- ◎ 可因顯微鏡倍率的更換而自由切換尺規，作比對量測
- ◎ 影像可編輯文字、線框，並可一併存檔、列印
- ◎ 提供影像手動取點及自動套框循圓，避免視覺誤差，增加量測效率
- ◎ 支援 TWAIN 影像介面，可使用 USB 影像卡，連結 NOTEBOOK 直接擷取影像

- ◎ Complete measuring functions of 2D geometry elements, suitable for the measurement of small and precise workpiece.
- ◎ Measure freely according to the location of workpiece, which needn't alignment or in position.
- ◎ Rule can be switched for comparative measurement according to the change of magnification.
- ◎ Image can be edited with words and line-framed for saving and printing.
- ◎ Function of manual point detecting and image auto-circle measuring. Avoid the visual error and increase the efficiency of measuring.
- ◎ Support of TWAIN image interface. Use image capture card and connect to Laptop for direct image capturing.

OP-MSU3D

- ◎ 提供完整 3D 幾何元素量測功能，可做手動及 CNC 自動量測功能
- ◎ 提供影像手動取點及自動套框循圓，點、線、框、圓、弧都可快速尋邊完成取樣
- ◎ 超強去毛邊功能，快速去除有毛邊或瑕疵之影像，正確取得量測數據
- ◎ 工件量測圖形化，圖形可存檔、列印並轉至 CAD 編輯，可做逆向工程
- ◎ 連結電子測頭後可與 CCD 影像做二合一量測系統結合，支援共同座標系功能
- ◎ 全新的繪圖處理功能，可 3D 立體旋轉，是 CAD/CAM 逆向工程的最佳利器

- ◎ Complete measuring functions of 3D geometry elements. Manual and CNC auto measuring functions.
- ◎ Function of manual point detecting and image auto-circle measuring. Fast auto-edge of objects for point, line, frame, circle and arc.
- ◎ With super functions of quick throw-burr or defect images. Correctly accessing measuring data.
- ◎ Diagrammatic of measuring workpiece. Graph can be saved, printed, and transformed to CAD editing for reversed engineer.
- ◎ Connected with electronic probe and CCD for two-in-one connection of measuring system. Support of common coordinates system function.
- ◎ All new functions of picture drawing process. 3D solid rotating available, which is the best choice for CAD/CAM reversed engineer.

另購附件 Optional Accessories

型號 Model	說明 Description	價格 Price (NT\$)
(1) OP-AQ1	適用於各型投影機及工具顯微鏡、二次元影像量測儀 Applied for every model of Optical Projector, Tool Microscope and 2D Image Measuring System	150,000
(2) OP-MSD	適用於 2.5 次元影像量測儀 Applied for 2.5D Image Measuring System	230,000
(3) OP-IMAGE	適用於三眼實體顯微鏡、金相顯微鏡量測小型工件 Suitable for Trinocular Stereo Microscope and Hi-magnification Microscope for measurement of small and precise workpiece.	230,000
(4) OP-MSU3D	適用於三軸影像量測儀及三次元座標量床 Suitable for 3-axis image measuring instrument and 3-Dimension Coordinate measuring machine.	540,000
(5) OP-PC	電腦主機 Computer	80,000
(6) OP-PR	列表機 Printer	10,000

◇ 立式光學投影機 Vertical Optical Projector



OP-ES15

型號 Model No.	規格 Specification	價格 Price (NT\$)
OP-VOP 34	100*70mm	633,000
OP-VOP 46	150*100mm	688,000
OP-VOP 48	200*100mm	744,000
OP-VOP 610	250*150mm	855,000
OP-VOP 816	400*200mm	1,100,000



OP-VOP48

標準組件	Standard Module
(1) 鋼製高剛性投影主機	(1) High rigidity projector steel body
(2) X-Y 軸滾柱線性軸承量測床台	(2) X-Y axis measuring table, linear roller bearing guide
(3) X-Y 軸高精度光學尺，解析度 0.001mm	(3) X-Y axis high accuracy linear scale, resolution: 0.001mm
(4) 雙軸微處理數字顯示器，功能：2D 多點幾何量測	(4) Double axis microprocessor digital readout, Function: 2D multi-point geometry measuring
(5) 150W 高強度透射與反射鹵素照明光源	(5) 150W Strong transmission & reflection illumination
(6) 高清晰光學倍率鏡頭 (10X 或 20X 選一)	(6) High Definition Optical magnification lens (10X or 20X alternative)
(7) 360° 旋轉盤	(7) 360° rotary table
(8) 儀器桌	(8) Instrument desk
(9) 防塵罩	(9) Dust-proof cover
(10) JCC ISO 合格檢驗校正報告書	(10) JCC ISO calibration report



三點求圓
Circle



兩點求線
Line



點
Point



距離
Distance



四點求角
Angle



兩線相交
Intersection



點線垂直焦點
Perpendicular point



列印資料
Print

另購附件 Optional Accessories

品名 Product	型號 Model	價格 Price (NT\$)
(1) 10X 倍率鏡頭 10X Magnification Lens	OP-P10X	30,000
(2) 20X 倍率鏡頭 20X Magnification Lens	OP-P20X	30,000
(3) 50X 倍率鏡頭 50X Magnification Lens	OP-P50X	48,000
(4) 鹵素燈 150W Tungsten Bulb	OP-P150W	2,000
(5) 投影膠片 Overlay Chart	OP-OC	9,000
(6) 大型 V 型夾具 V-clamp (Big type)	OP-VC (B)	24,000
(7) 手控按鍵盒 keyboard control box	OP-KB	12,000
(8) 專用列表機 Epson printer	OP-EP	30,000

◇ 光學模組附件 **Optical Modular Accessory**

目鏡 **Eyepiece Lenses**



型號 Model No.	說明 Description	價格 Price (NT\$)
OP-EL10S	10X (小型 Small Type)	5,600
OP-EL10L	10X (大型 Large Type)	9,300
OP-EL10G1	10X (十字線 Cross Line)	7,200
OP-EL10G2	10X (十字刻度線 Cross Line with 10mm Scale)	7,500
OP-EL10G3	10X (十字角度圓弧刻度線 Cross Line with Angle & Radius)	7,500
OP-EL15	15X	6,400
OP-EL15 (HM)	15X (For HM 專用)	8,000
OP-EL20	20X	7,200

攝像目鏡 **CCD Eyepieces**



型號 Model No.	說明 Description	價格 Price (NT\$)
OP-CE0.5 L	0.5X CCD (For L/S/X 專用)	9,800
OP-CE0.5 S	0.5X CCD (For HM/M 專用)	9,800
OP-CE0.7	0.7X CCD	18,000
OP-CE1.0	1.0X CCD	9,800
OP-CE2.0	2.0X CCD	10,800
OP-CE2.0 (Z)	2.0X CCD (For Z 專用)	15,000

物鏡 **Objective Lenses**



型號 Model No.	說明 Description	價格 Price (NT\$)
OP-OL0.3	0.3X (For FM/ZM/M/L 專用)	7,200
OP-OL0.5	0.5X (For FM/ZM/M/L 專用)	7,200
OP-OL0.6	0.6X (For X/S 專用)	3,600
OP-OL1.5	1.5X (For FM/ZM/M/L 專用)	8,800
OP-OL2.0	2.0X (For FM/ZM/M/L 專用)	8,800

照相目鏡 **Camera Eyepieces**



型號 Model No.	說明 Description	價格 Price (NT\$)
OP-CM2.5	2.5X	12,000
OP-CM5	5X	13,200
OP-EM	目鏡護具 eyepieces mount	6,000

彩色攝影機 **Color Camera**



型號 Model No.	說明 Description	價格 Price (NT\$)
OP-CCDH	1/3"高解析彩色攝影機 1/3"High-resolution CCD Pixels: 811(H)*508(V)	18,000
OP-CCDM	1/3"中解析彩色攝影機 1/3"Medium-resolution CCD Pixels: 542(H)*492(V)	13,000

彩色影像顯示器 **Color Monitor**




型號 Model No.	說明 Description	價格 Price (NT\$)
OP-MONITOR5.6	5.6"液晶彩色影像顯示器	42,000
OP-MONITOR10	10"彩色影像顯示器	36,000
OP-MONITOR14	14"彩色影像顯示器	33,000
OP-LCD 17"	17"液晶彩色影像顯示器	36,000
OP-LCD 19"	19" 液晶彩色影像顯示器	48,000


二次元微處理數字顯示器 2D Microprocessor Digital Readout

型號 Model No.	說明 Description	價格 Price (NT\$)
	OP-ES2 雙軸數字顯示器(軟體專用) 2 axis digital readout (For software)	30,000
	OP-ES3 三軸數字顯示器(軟體專用) 3 axis digital readout (For software)	40,000
	OP-ES92 雙軸 2D 幾何量測功能 2 axis 2D geometry measuring function	55,000
	OP-ES93 三軸 2D 幾何量測功能 3 axis 2D geometry measuring function	62,000
	OP-ES15 雙軸 2D 幾何量測功能(投影機專用) 2 axis 2D geometry measuring function (For Project)	62,000

影像擷取裝置 Image Capture Unit

型號 Model No.	說明 Description	價格 Price (NT\$)
	OP-IC 連結線與軟體 Cable & Software	13,000
	OP-TB 電視盒 TV-Box	13,000

旋轉台 Rotary Table

型號 Model No.	說明 Description	價格 Price (NT\$)
	OP-RT48 Ø 100mm(For OP-TMM48 專用)	18,000
	OP-RT612 Ø 150mm(For OP-TMM612 專用)	24,000
	OP-RT816 Ø 200mm(For OP-TMM816 專用)	30,000
	OP-RT1020 Ø 250mm(For OP-TMM1020 專用)	36,000
	OP-RT1224 Ø 300mm(For OP-TMM1224 專用)	42,000

光學尺 Linear Scale




型號 Model No.	範圍 Range	解析度 Resolution	價格 Price (NT\$)	型號 Model No.	範圍 Range	解析度 Resolution	價格 Price (NT\$)
OP-LS50	50mm	0.001mm /0.00005"	24,000	OP-LS500	500mm	0.001mm /0.00005"	33,200
OP-LS100	100mm		24,600	OP-LS600	600mm		36,600
OP-LS150	150mm		25,200	OP-LS700	700mm		39,000
OP-LS200	200mm		86,400	OP-LS800	800mm		42,000
OP-LS250	250mm		90,600	OP-LS900	900mm		46,300
OP-LS300	300mm		28,600	OP-LS1000	1000mm		51,200
OP-LS400	400mm		30,600				

量測床台 Measuring Table


	型號 Model No.	說明 Description	價格 Price (NT\$)
	OP-XYT11	量測範圍 Range:25*25mm	24,000
	OP-XYT22	量測範圍 Range:50*50mm	36,000

測微器頭 Micrometer Head

 <p>OP-31F</p> <p>OP-13F</p>	型號 Model No.	說明 Description	價格 Price (NT\$)
	OP-13F	25*25/0.01mm	2,400
	OP-22F	50*50/0.01mm	22,400
	OP-30F	25*25mm/0.001mm/0.00005"	18,600
	OP-31F	50*50 mm/0.001mm/0.00005"	30,000

1組 2支(2pcs/1pair)

X-Y 移動床台 Stage

 <p>OP-STAGE1</p>	型號 Model No.	說明 Description	價格 Price (NT\$)
	OP-STAGE1	75*50mm 平板(flat plate)	16,000
	OP-STAGE2	75*50mm 底光窗口(light unit)	20,000
	OP-STAGE3	300*250mm 平板(flat plate)	64,000
	OP-STAGE4	300*250mm 底光窗口(light unit)	84,000

十字產生器 Cross-line Generator

	型號 Model No.	說明 Description	價格 Price (NT\$)
	OP-CG	綠色/白色虛線，自動尋邊 Green/white color dashed line, auto edge flash	60,000
	OP-CG1	多種十字線型及顏色 Multi-line style & color	20,000
	OP-CG2	多種十字線型及顏色、自動尋邊 Multi-line style & color, auto-edge flash	36,000


小虎鉗 Small Vise

	型號 Model No.	說明 Description	價格 Price (NT\$)
	OP-VS	可夾持直徑 Ø: 18mm	6,000


V 型夾具 V-clamp

	型號 Model No.	說明 Description	價格 Price (NT\$)
	OP-VC	可夾持直徑 Ø: 18mm	6,000


濾光鏡 Color Filter

	型號 Model No.	說明 Description	價格 Price (NT\$)
	OP-GF	綠色濾光鏡 Green	6,000
OP-OF	橙色濾光鏡 Orange	6,000	
OP-YF	黃色濾光鏡 Yellow	6,000	
OP-BF	藍色濾光鏡 Blue	6,000	
OP-RF	紅色濾光鏡 Red	6,000	

零件 Parts

	型號 Model No.	說明 Description	價格 Price (NT\$)
	OP-CM1L	1XCCD 空套管(L 專用) C-mount (For L)	1,800
OP-CM1S	1XCCD 空套管(M/HM 專用) C-mount (For M/HM)	1,800	
OP-CABLE (CCD)	連接線 CCD cable	240	
OP-FUSE	保險絲 1A Fuse	100	

照明燈 Lamp

	型號 Model No.	說明 Description	價格 Price (NT\$)
	OP-5WBF	5W 底座螢光燈管 Base fluorescent bulb	1,200
OP-8WCF	8W 環型螢光燈管 Circular fluorescent bulb	2,400	
OP-15WBT	15W 底座鹵素燈 Base tungsten bulb	1,000	
OP-15WTC	15W 罩杯鹵素燈 Tungsten bulb (Cup)	1,000	

照明燈具 Illuminators

				
OP-8W	OP-150WD	OP-LED	OP-LEDGF	OP-LEDB(W)

型號 Model No.	說明 Description	價格 Price (NT\$)
OP-8W	8W 環型螢光無影燈 8W circular fluorescent light	6,000
OP-150WD	150W 雙管光纖燈 150W double optical fiber	54,000
OP-150WC	150W 環型光纖燈 150W circular optical fiber	54,000
OP-LED	高亮度 LED 環型燈組 LED circular light	10,000
OP-LED4	可 4 分區高亮度 LED 環型燈組 Four -zone LED circular light	22,000
OP-LEDGF	LED 濾光磨砂鏡片 LED ground glass filter (for OP-LED 專用)	2,000
OP-LEDB (W)	2"x2" LED 背光板(白光)LED Back light (White)	19,300
OP-LEDB (R)	2"x2" LED 背光板(紅光)LED Back light (Red)	19,300

標準尺 Standard Scale

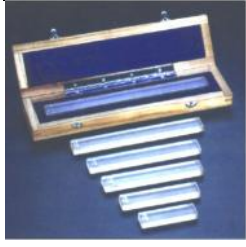
高品質光學玻璃 High-quality optical class

雷射檢測儀/校驗系統不確定度 Laser calibration/system uncertainty: $(0.2+1.5/1000*L) \mu m$

玻璃膨脹係數 Glass expansion co-efficients: $7.2*10^{-6}(-60^{\circ}C\sim+20^{\circ}C)$ $7.6*10^{-6}(20^{\circ}C\sim120^{\circ}C)$

套裝標準尺 Standard Scale (Sets)

精度 Accuracy: $(1+L/200) \mu m$

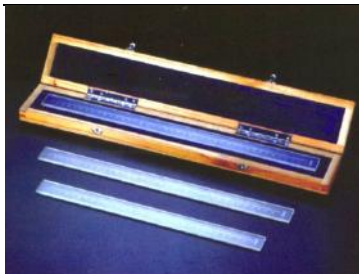
	型號	範圍	價格
	Model No.	Range	Price (NT\$)
	OP-SS510	50mm/100mm/(2pcs/set) 整組 T:10mm	42,000
	OP-SS515	50mm/150mm/(2pcs/set) 整組 T:10mm	52,000
	OP-SS1020	100mm/200mm/(2pcs/set) 整組 T:10mm	69,000
	OP-4SET	50mm/100mm/150mm/200mm/(4pcs/set) 整套	114,000

單支標準尺 Individual Standard Scale

型號	範圍	最小刻度	長度	寬度	厚度	價格
Model No.	Range	Graduation	Length	Width	Thickness	Price (NT\$)
OP-SS50	50mm	1mm	75mm	18mm	10mm	18,000
OP-SS100	100mm		125mm			28,200
OP-SS150	150mm		175mm			39,000
OP-SS200	200mm		225mm			48,600
OP-SS4	100mm	0.5mm	130mm	36mm	5mm	18,000
OP-SS6	150mm		180mm			24,000
OP-SS8	200mm		230mm			30,000
OP-SS10	250mm		280mm			36,000
OP-SS12	300mm		330mm			42,000
OP-5SET	整套(Sets)	100mm/150mm/200mm/250mm/300mm (5 pcs/sets) 整套				120,000


讀尺 Reading Scales

精度 Accuracy: $20 \mu m$

	型號	最小讀數	長度	寬度	厚度	價格
	Model No.	Graduation	Length	Width	Thickness	Price (NT\$)
	OP-RS310	0.5mm	340mm	28mm	4.5mm	22,800
	OP-RS360		390mm			25,800
	OP-RS410		440mm			28,800


標準檢測板 Standard Checker Plate

精度 Accuracy: 0.004mm

	型號	範圍	最小讀數	價格
	Model No.	Range	Graduation	Price (NT\$)
	OP-CP814	X: 140mm/6", Y: 80mm/3"	1mm	36,000
	長度	寬度	厚度	
	170mm	100mm	5mm	

高倍率校驗尺 Hi-magnification Calibration Scales

精度 Accuracy: 0.002mm

	型號	範圍	最小讀數	長度	寬度	厚度	價格
	Model No.	Range	Graduation	Length	Width	Thickness	Price (NT\$)
	OP-HC1	1mm	0.01mm	75mm	25mm	1.8mm	3,000
	OP-HC50	1mm/50mm	0.01mm/0.1mm				9,000

