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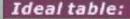
CPJ-3000 CPJ-3000Z series projector

Usage

CPJ-3000Z series of projectors are photoelectric measuring system of high precision and efficiency. The image on the screen is in the same direction with the work pieces. It is widely used in the trade of mechanism, meter, electricity, light industry, college, research institute and measurement-inspecting department. This instrument can inspect all kinds of surface and outline of complicated work-pieces such as template, pressing work-pieces, cam, thread, gear, milling cutter and so on.

Specialities

CPJ-3000Z series projector is famous for its excellent quality of the optical system. It is processed of clear image and accurate magnification. The error of the contour measuring is under 0.08% under the illumination. The indication error of the coordinate is under (3+L/75) µm, (L is the length of the work pieces to be measured, unit: mm). This instrument provides the DC-3000 date processing system and foot-switch, which are convenient to output and gather the data.



Loading weight>250kg Dimension:800(L)*550(W)*650(H)mm

Specification

Model	Reverse image Erect image		CPJ-3007 CPJ-3007Z		-3010 -3010Z	CPJ-3015 CPJ-3015Z	
	The metal table's size(mm)		260*152 3		6*152	340*152	
	The glass table's size(mm)		125*100 1		5*100	196*96	
*** **	X-axis travel (mm)		75	10	0	150	
Working	Y-axis travel (mm)		50 50			50	
table	Z-axis travel (mm)		90(for focus) 90(for		(for focus)	90(for focus)	
	Measuring accuracy(µm)		3+L/75			4+L/25	
	Resolution (X-axis, Y-axis)		0.5	0.5µm			
Projector screen	Screen size (mm) Screen rotary range Rotary angle resolution		Ø312 usec 0°~350° 1' or 0.01°	d range>Ø30	00(with the me	ter line)	
	Magnification		10X(option)	20X(option)		100X(option)	
Lens	Object view (mm) Working distance(mm)		Ø30	Ø 15	Ø6	Ø3	
	Max. Workpiece height		77.7 90mm	44.3 90mm	38.4 90mm	25,3 90mm	
Dimension	L*W*H(mm)		770*550*1100		550*1100		
Weight	Unit: kg		120	110	125	770*550*1100 130	
can be used to and distance.		(C) 50/60Hz	ta and measu ion and reflec	ire the point,li			

for projector for more details



CPJ-3020W horizontal projector



Usage

CPJ-3020W Ø 300mm horizontal projector is a photoelectric measuring system of high precision and efficiency. It is widely used in the trade of mechanism, mould, tool, electricity and light industry. It is a must in the checking department and workshop. The instrument car inspect all kinds of surface and outline of the complicated work-pieces, such as template, cam, tread, gear, milling cutter and so on.

Working table	Working table X-axis s trave Y-axis s trave Z-axis s trave Turning range Resolution(X- The indication	l (mm) l (mm) l (mm) l axis,Z-ax	is)	m)	400*150 200 100 75(for for ±15° 0.5 μm <=(4+L//	
Projector screen	Screen size (r Screen rotary Rotary angle	range		Ø3 0° 1°	00 ~360° or 0,01°	
Lens	Magnification Object view (r Working dista	nm)	10X(option) Ø30 77.7	20x(option) Ø 15 44,3	50X(option) Ø 6 38.4	100x(option) Ø3 25.3
Dimension Weight	L*W*H (mm) Unit (kg)	1090*830*1010 160)		
Illumination The The Power 110 Option Min		can be us and distar The illumi The illumi 110V/220 Mini-print	ed to gather t nce. nation of tran nation of reflo V (AC) 50/6 er,Edge detec	the data and n smission: 24V, action: 21V/15i 50Hz total p	leasure the px (150W-haloge (100W-halogen la ower=400W are and so on	opearing in Chinese, bint, line, circle, angle n lamp. imp (By two fibers) , please refer to

CPJ-4025W horizontal projector



Usage

CPJ-4025W Ø 400mm horizontal projector is a photoelectric measuring system of high precision and efficiency. It is widely used in the trade of mechanism, mould, tool, electricity and light industry. It is a must in the checking department and workshop. The instrument can inspect all kinds of surface and outline of the complicated work-pieces, such as template, cam, tread, gear, milling cutter and so on.



Ideal table:

Loading weight>350kg Dimension:1100(L)*550(W)*500(H)mm

Working table	Working table X-axis's trave Y-axis's trave Z-axis's trave Turning range Resolution(X The indication	el (mm) el (mm) el (mm) el (mm) eaxis,Z-ax	dis)	(μm)	450*20 250 150 100(for ±15° 0.5 µm <=(4+	focus)	
Projector screen	Screen size (Screen rotary Rotary angle	range	,		Ø400 0°~360° 1' or 0.01°		
Lens	Magnification Object view (r Working dista	nm)	Ø80	10X(option) Ø40 103.9	20X(option) Ø20 95.1	50X(option) Ø 8 65.7	100X(option) Ø4 35.0
Dimension Weight	L*W*H (mm) Unit (kg)				1215*646*1. 240	210	
Data proce Illumination Power Option	ssing system	can be us and dista Transmis Reflection 110V/220 Mini-print	ed to gathe nce. sion:24V/15 n:21V/150V DV (AC) 5 ter,Edge de	er the data an 50W, cooling t V,Illuminated L 0/60Hz tota	d measure the by fans. by two fibers,c il power=400v ftware and so	appearing in to point, line, circ cooling by fans V on, please refe	de,angle



CPJ-3000A CPJ-3000AZ series projector

Full erect

Not be affected by upside down and division in the left and right

High precision

(3+L/75) µm is comparable to the accuracy of the foreign similar pro-

Large travel

250*150*100(for the focus)

Large load

The accuracy remains stationary under the press of 50kg

Projection box

Adjust the focus by ascending and descending

Edga detation

Automatically aim and gather the data

Specialities

This series of projectors are famous. It's for excellent quality of the optical system. It is processed of clear image and accurate magnification. The error of the contour measuring is under 0.08% under the illumination of transmission. This instrument provides the foot-switch, which are convenient to gather the data. You can adjust the focus by ascending and descending the projection box. The projector is with big travel and stationary performance because the working stable doesn't ascend or descend, and the instrument can also measure the big range with high precision.

Ideal table:

Loading weight>250kg Dimension:800(L)*550(W)*650(H)mm

Model	Reverse image Erect image	CPJ-3015A CPJ-3015AZ	CPJ-3020A CPJ-3020AZ	CPJ-3025A CPJ-3025AZ
Working table	The metal table's size(mm) The glass table's size(mm) X-axis travel (mm) Y-axis travel (mm) Z-axis travel (mm) Measuring accuracy(µm) Resolution (X-axis, Y-axis)		3+L/75	450*280 306*196 250 150 160(for focus) 3+L/75
Projector screen	Screen size (mm) Screen rotary range Rotary angle resolution	Ø312 used 0"~360" 1 or 0.01"	range>Ø300(with the	meter line)
Lens	Magnification Object view (mm) Working distance(mm) Max. Workpiece height	10X(option) 2 Ø30 77.7 100mm	20X(option) 50X(option) Ø15 Ø6 44.3 38.4 100mm 100mm	Ø3 25.3
Dimension Weight	L*W*H(mm) Unit: kg	780*780*1100 160	780*780*1100 160	780*780*1100 160
Illumination Power Cooling Accessorie	can be used and distance The illumina 110V/220V By three fan Mini-printer(to gather the date. tion of transmissi (AC) 50/60Hz s option),Edge det	processing system, ap to and measure the po- ion and reflection: 24V, total power=400W ector(option),M2D soft pries for projector for n	int, line, circle, angle (150W-halogen lamp. (ware(option) and

Multi-functional Digital Readout

DC-3000 DC-5000



DC-3000 is appropriate for digital linear scales measuring system and the video measuring system. It can analyze and process the 2D measuring data, and it is widely used in the projector, the tool microscope.

CCD measuring instruments and other two-dimension measuring instrument. DC-5000 is the upgrade of DC-3000 with large LCD. It can display the data in English and simplified Chinese. Employed with 24-bit counter, the reading speed can reach 4m/s with 0.001mm resolution.



Specialities

Systematic anti-jamming in power and signal can reach 2200V or above Can recall the current position after power failure Can work between 100V and 240V

Functions

Measure, preset and construct the graphic elements such as the point, line, circle, angle, distance, rectangle, thread and so on The functions of Axis-skew and Coordinate-shift are very convenient Connect to foot-switch and edge detector, so can quickly gather the data Can print the user program, graphic elements and 3-coordinate displaying data The users can record the program and measure the same workpiece in large quantity Many coordinate displaying ways: Polarity and Cartesian, INC coordinate and ABS, Metric unit and British measurement unit

Linear error correction and segmental linear error correction Z-axis can be connected with linear scales or rotary encode's degree Store 100 permanent data and 10 temporary data

	DC-3000	DC-5000	
Voltage Power Input scales signal Resolution (µm)	AC 100V-240V The most is 15W Orthogonality TTL, frequency <2MHz, current>1m. 0.1, 0.2, 0.5, 1, 2, 5, 10		
Weight Dimension	1.49kg 295*185*68(mm)	1.8kg 295*185*68(mm)	

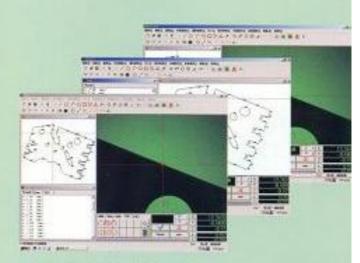




2-Dimensional Measuring Software

M2D-CPJ. AT. IMG

M2D measuring application software which base on Windows environment is developed by our company, it can visually analysis the 2D measuring data. It is used in the scanning of dies. It is suitable for the instruments with RS232 interface.



Specialities

Measure the point, line, circle, arc and ellipse feather with multi-point The functions of Axis-skew and coordinate-shift are very convenient The functions of element-combination can enhance the efficiency MACRO function

Save as *.dxf and edit in Auto CAD

The data can be sent to Excel, can draw easy Xbar-S graph

Shift between in English and Chinese Record, edit and run the program

Functions

	M2D-CPJ	M2D-IMG	M2D-AT		
	Element measure:	Can measure the Point, Line, Circle Can measure the rectangle with sta Can identify the Point, Line, Circle a	ted points		
Functions	Element construct	:Construct the Center, Point of Inters Line, Circle, Angle			
	Element preset:	Point, Line, Arc, Angle			
	Graph manage:	Coordinate move and coordinate ske	ew, any axis skew		
	Graph operation:	Zoom in, Zoom out, Move, Print, Se	lect, Cancel select, Delete		
		Set the image's grayness, saturation, contrast. The image can be saved as *.bmp, the image support S-video input, the image is 640.*480			
	1	Cross detecting The color of the edge changes Gather the point by manual	Multiple ways of detecting Can gather the point automatically		

Computer configuration

Hardware: CPU-P4 1.7G Memory-128M Serial Interface USB Interface PCI slots

Operation system: Windows 2000 Windows xp

Application: Excel AutoCAD

Measuring function





Can measure the Point, Line, Arc, Ellipse, Rectangle, Distance, Angle.
Can detect the graph element automatically.
Can construct the Center, Point of intersection, Midpoint, Line, Circle, Angle.

Outputting the data







ration and and and and and and and

The graph can be sent AutoCAD. The data can be sent to Notebook, Excel, Word.

Only function for M2D-AT:

Scanning 2D graph

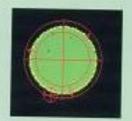
Can scan 2D graph, all are points. Can be stored as *.DXF and then managed in AutoCAD.



Image detecting automatically



Can automatically detect the Line, Circle, Arc and then grab the image. By putting the mouse on the edge of the image.





Contrasting function

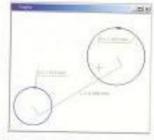




Can import *.DXF to the program, contrasting with the image, and then standard and the tolerance appear in the Result Column,

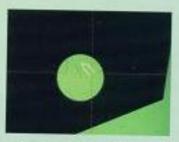
Labeling dimension





Can label the dimensions in Graph area and imag area.

Direction Indicator



Indicate the position of the next work pieces when with macro measurement.

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