



HAIYUDA

海优达智能科技

# CATALOG OF OPTICAL INSTRUMENTS



## APPLICATION



**Jewelry**



**Touch panel**



**Hardware**



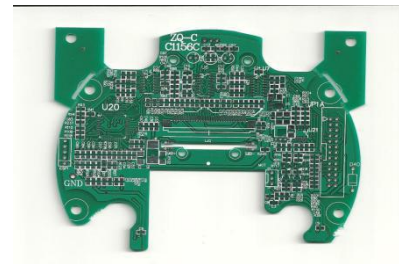
**Car**



**Mobile phone part**



**Horologium**



**PCB**



**Teaching/study**



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## STANDARD TYPE OPTICAL INSTRUMENTS

Machine	Model
Digital Projector Profile X(150mm),Y (50mm)	HUD-U300
Digital Projector Profile X(200mm),Y (100mm)	HUD-U300-1
Manual Video Measuring Machine	HUD-M2010
Manual Video Measuring Machine	HUD-M3020
Manual Video Measuring Machine	HUD-M4030
Manual Video Measuring Machine	HUD-M5040
Automatic Video Measuring Machine	HUD-U3020CNC
Automatic Video Measuring Machine	HUD-U4030CNC
Large Automatic Video Measuring Machine	HUD-U5040CNC
Large Automatic Video Measuring Machine	HUD-U6050CNC
Large Automatic Video Measuring Machine	HUD-U8060CNC
Large Automatic Video Measuring Machine	HUD-U12080CNC
Coordinate Measuring Machine	HUD-CMM654



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## DIGITAL PROJECTOR PROFILE



### Product Description:

Profile Projector is photoelectric measuring system of high precision and efficiency. 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 working pieces, cam, screw thread, gear, perform milling cutter and so on.



The main technical parameter:

Model		HUD-U300		HUD-U300-1	
Work table	X-axis travel (mm)	150		200	
	Y-axis travel (mm)	50		100	
	Metal table size (mm)	340×152			
	Z-axis travel (mm)	90(For Focus)			
	Measuring accuracy	(<=4+L/25)um			
	Glass table	Max sample weight 5kg			
	Grating ruler resolution	0.001mm			
Projection screen	screen size(mm): Φ 300mm				
	Rotary range :0~360°				
	Rotation angle display resolution :1'or 0.01°				
Objective lens	Magnification	10X( Essential )	20X( Optional )	50X( Optional )	100X( Optional )
	object view(mm)	30	15	6	3
	Work distance(mm)	75	69	44	26
Data processing system	Multi-function data processing system, can measure point, line and angle.				
Illumination	24V/150w Halogen lamps				
Power	110/220V(AC).50/60Hz,400W				
Cold	Forced air cooling (2 Axial fan )				



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## MANUAL VIDEO MEASURING MACHINE



Picture for reference only

### Working Principle :

This series manual optical image measuring instrument work principle: the measured work piece (on the working table) is illuminated by the LED surface light or outline light (in the base), the image of the measured part was taken by the zoom objective lens and the color CCD camera cover, and then transmitted to the computer and display through the S terminal, the software is based on the video cross line generated on the computer display to measuring the work piece, through the work table drive optical ruler move on the X,Y, take the coordinate value of the each space, from the adapter card to the computer, programming and automatic geometric operation the measuring coordinate value, to complete all kinds of data automatic measurement and automatic collection work.

### Application:

Suitable for aircraft parts, military small parts, mobile phone parts, new energy batteries, PCB, FPC, LCD panel, mold and precision hardware testing and design development.



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### Technical parameters:

Instrument model	HUD-M2010	HUD-M3020	HUD-M4030	HUD-M5040
Measuring (mm)	200x100x200	300x200x200	400x300x200	500x400x200
Dimension (mm)	500x550x950	600x650x1100	700x750x1150	800x850x1200
Grass table bearing (kg)	25			
Instrument weight (kg)	150	180	210	230
Accuracy	X,Y: $(3+L/200)$ $\mu\text{m}$ Z: $(5+L/200)$ $\mu\text{m}$			
Repeat-ability	3 $\mu\text{m}$			
Grating ruler resolution	0.001mm			
CCD	1/3"High-resolution color CCD 600TV line			
Zoom lens	0.75~4.5X high-definition manual zoom lens			
Image magnification	34~220X			
Working distance	92mm			



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Measuring software	HUD-CNC
Motor	200W servo motor
Upper light source	Adjustable 3 ring 8 area surface ring LED cold light source
Under light source	Parallel light design, Promise continuously adjustable LED cold light source
Guide rails	High precision V-shape
Power	Single phase, 220V (AC) 50Hz



## AUTOMATIC VIDEO MEASURING MACHINE



Picture for reference only

### Working Principle:

This series automatic optical image measuring instrument work principle: the measured work piece (on the working table) is illuminated by the LED surface light or outline light (in the base), the image of the measured part was taken by the zoom objective lens and the color CCD camera cover, and then transmitted to the computer and display through the S terminal, the software is based on the video cross line generated on the computer display to measuring the work piece, through the work table drive optical ruler move on the X,Y, take the coordinate value of the each space, from the adapter card to the computer, programming and automatic geometric operation the measuring coordinate value, to complete all kinds of data automatic measurement and automatic collection work.

### Application:

Suitable for aircraft parts, military small parts, mobile phone parts, new energy batteries, PCB, FPC, LCD panel, mold and precision hardware testing and design development.

### Technical parameters:

Instrument model	HUD-U3020CNC	HUD-U4030CNC	HUD-U5040CNC	HUD-U6050CNC	HUD-U8060CNC
Measuring (mm)	300x200x200	400x300x200	500x400x200	600x500x200	800x600x200
Dimension (mm)	1300x920x1600	1400x1020x1600	1500x1120x1600	1600x1220x1600	1700x1320x1600
Grass table bearing (kg)	30				
Instrument weight (kg)	440	500	560	610	680
Accuracy	X,Y: (2.8+L/200) $\mu$ m    Z: (5+L/200) $\mu$ m				
Repeat-ability	3 $\mu$ m				
Grating ruler resolution	0.001mm				
CCD	1/3"High-resolution color CCD 600TV line(SONY Chip)				
Zoom lens	0.75~4.5X high-definition manual zoom lens				
Image magnification	36~220X				
Working distance	92mm				



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Measuring software	HUD-CNC
Motor	200W servo motor
Upper light source	Adjustable 6 ring 8 area surface ring LED cold light source
Under light source	Parallel light design, Promise continuously adjustable LED cold light source
Guide rails	High precision linear guide made in Taiwan
Mode of operation	Program control or joystick
Operating Voltage	Single phase, 220V(AC)50Hz



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## LARGE/LONGMEN AUTOMATIC VIDEO MEASURING MACHINE



Picture for reference only

### Introduction:

This machine is designed for large scale size of products.it can realize highly efficiency and accurate measure large quantities of work pieces, it is suitable for the inspection and quality control of precision parts. Widely used in the machinery, electronics, hardware, plastics and other industries.

### Application:

Widely used in aerospace, automobile parts of large dimension, scientific research and teaching, electronics, glass, LCP film, PCB circuit board hole position and size, large size screen printing screen, plastic board, large-size backlight sheet, stamping parts, solar reflectors, TFT panel, OLED panel, LTPS size and shape size 32 '-85' television face shell shape and various hole size accuracy etc..



**Technical parameters:**

Model	HUD-U5040CNC	HUD-U6050CNC	HUD-U8060CNC	HUD-U12080CNC
Measuring (mm)	500x400x200	600x500x200	800x600x200	1200x800x200
Overall dimensions (mm)	1200x1800x1500	1300x1900x1500	1500x2100x1500	1700x2200x1500
Grass table bearing (kg)	30			
Instrument weight (kg)	1800	2000	2200	2500
Accuracy	X,Y: (3+L/200) μm Z: (5+L/200) μm			
Repeat-ability	2 μm			
Grating ruler resolution	0.001mm			
CCD	High-resolution color CCD			
Zoom lens	0.75~4.5X high-definition manual zoom lens			
Image magnification	34~220X			
Working distance	92mm			
Measuring software	HUD-CNC			



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Motor	Panasonic 200W servo motor
Upper light	Adjustable 6 ring 8 area surface ring LED cold light source
Under light	Parallel light LED cold light source
Guide rails	High precision linear guide rails made in Taiwan
Operation Method	Program control and joystick
Operating Voltage	220V (AC) 50Hz



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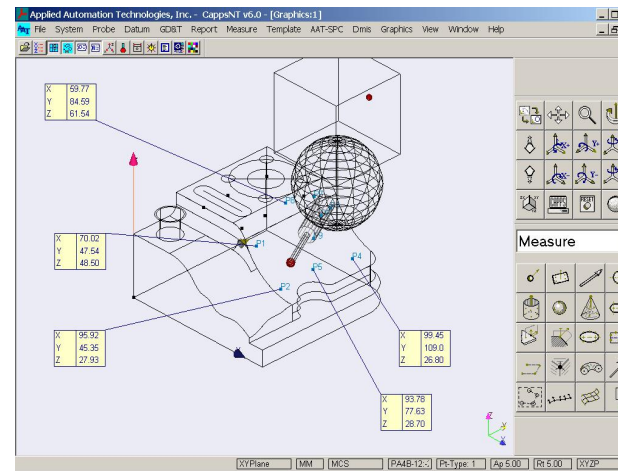
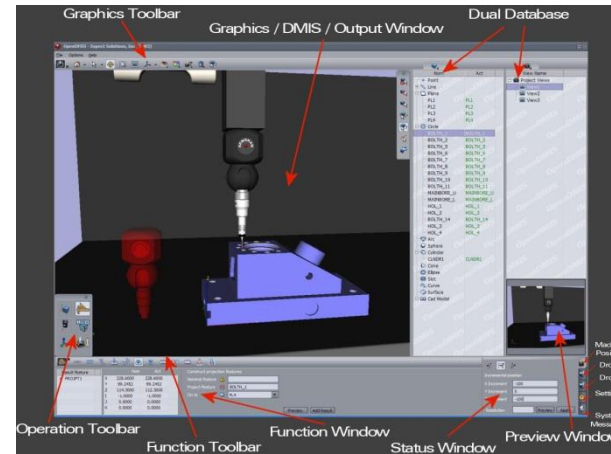
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### COORDINATE MEASURING MACHINE



Picture for reference only



## Introduction:

**HaiYouDa series** is the latest generation of Moving Bridge style high accuracy high speed Coordinate Measuring Machine.

It combines single-point probing and analog scanning in a single high performance measuring machine also can equipped with contact and non-contact probe system. Based on the new generation of controller combines and optimizes temperature and accuracy compensation systems and advanced algorithms to support high-speed, high-accuracy analog open and closed loop scanning.

## Main parameters:

Measure range(mm)			Dimension(mm)			Machine weight(Kg)	Max sample weight(Kg)
X	Y	Z	L	W	H		
600	500	400	1420	1135	2310	900	500
<b>Accuracy:</b>							
Space measurement error (μm) L:mm			Probe error (μm)			Resolution (μm)	
2.3 + L/300			2.4			0.5	
Max speed(mm/s): 430							



**SHOWROOM/FACTORY**





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Who serve for:





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### HAIDA GROUP



Group Headquarters (Dongguan, Guangdong)



Guangdong Factory 1



Guangdong Factory 2



Hunan Factory(Yiyang City)



Jiangsu Factory(Under Preparation)

## Haiyouda?

**Haiyouda** is one of the leading companies solely dedicated to the manufacture of Optical Measuring Machine , Plastic and Rubber Testing Machine , Accelerate Environments Test System and Universal Tensile Machine .

Specially provide professional recommendations, quality services, and quality equipment to agents and distributors around the world.

**Haiyouda** has the equipment and expertise, own R&D and consultant team, to meet and exceed your testing requirement. Many of the test equipment we ship to customer include tailor-made features to exactly fit the application customer wants.



### Don't Guess Before You Test

Haida International Equipment has been selling test equipment since 2005. We are part of the Haida Group, which includes manufacturing facilities, testing lab and calibration service in China, as well as sales and service around the world. Our sales office covered Australia, British, Dubai, India, Malaysia and Turkey.

### What we have:

