# PROFILE PROJECTOR PH-3515F



**Bulletin No. 2100** 

Heavy-Duty, Bench-Top Model with Horizontal Optical System



# Mitutoyo introduces the PH-3515F

Profile Projectors that will meet any optical measuring or inspection challenge your shop can offer!

PH-3515F PROFILE PROJECTOR



# **FEATURES**

- Erect image on high brightness screen.
- 14" (353mm) dia. protractor screen with crosshairs and staggered lines for easy alignment.
- Digital angle measurement of 1' or 0.01° with built in angle counter.
- Floating-type workstage incorporates linear scales for fast, accurate measurement.
- Halogen contour illumination.
- Fiber-optic illumination cables and halogen included.
- Suitable for thread pitch measurements free from blurred or distorted images when the workpiece is angled.
- Wide range of accessories for varied applications.



### KA COUNTER (OPTIONAL)



High performance, low cost 2-axis counter with traditional and advanced linear functions.

Order	174-173A
Scale input ports	2
Resolution	.00005"/.0001"/.0005"/0.001mm/0.005mm (changeable)
Display	7-digit LED and a negative [-] sign
Functions	Zero-setting, preset, counting direction setting, mm/inch conversion, 1/2 calculation, ABS/INC coordinate selection, diameter display, addition of 2-scale data, zero approach machining, bolt-hole circle machining, pitch machining, touch-signal probe input
Power supply	120VAC, 60Hz
Operating temperature	32°F to 104°F (0°C to 40°C)
Mass	2.43 lbs. (1.1kg)

### WORKSTAGE

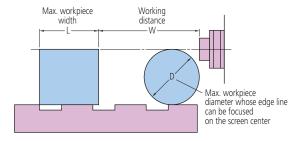
#### (STANDARD ACCESSORY)



XY range	X-axis (horizontal travel): 10" (254mm) Y-axis (vertical travel): 6" (152mm)
Measuring unit	Linear Scale for each axis (AT100 Series)
Display unit	(Optional)
Stage size (WxD)	17.72 "x5.75" (450x146mm)
Swivel range	±10° (30' readout)
Max. workpiece load	99 lbs. (45kg)
Dovetail groove	Two (Pitch= 1.69" (43mm)
Focusing travel	2" (50mm)

#### PROJECTION LENSES (OPTIONAL)





#### PH-3515F Unit: Inch

Illumination	Contour					Surface				
Magnification	5X	10X	20X	50X	100X	5X	10X	20X	50X	100X
View field dia.	2.80	1.40	.70	.28	.13	2.80	1.40	.70	.28	.13
W	6.30	3.66	1.57	.57	.37	2.52	1.61	1.57	.57	.37
L	6.89	9.25	9.25	3.15	4.29	6.89	9.25	9.25	3.15	4.29
D	6	6	4.57	1.20	.75	6	6	4.56	1.19	.75

### QM-Data 200 (OPTIONAL)

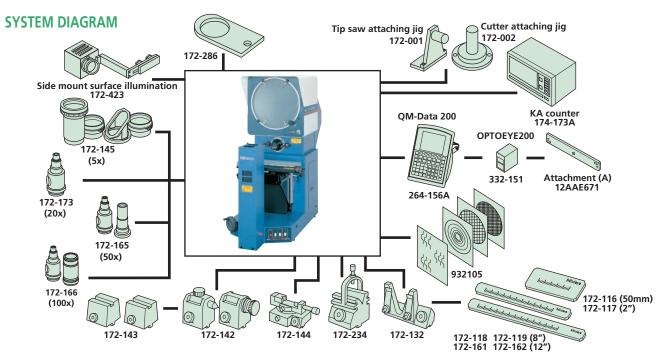


QM-Data200 2-D data processing unit. 264-155A: Stand mount type 264-156A: Arm mount type

Mitutoyo launches a new 2D data processing unit for optical instruments. The QM-Data 200 can add new features of 2D coordinate measurement, image processing, etc. into your ordinary optical instruments to improve the QC control system.

#### OPTOEYE-200

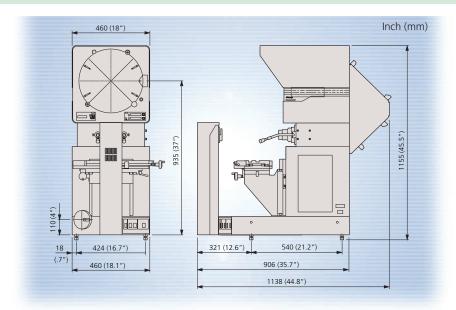




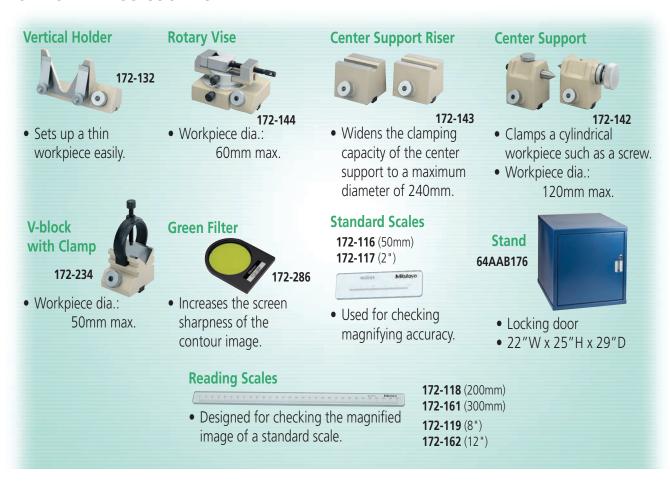
#### **SPECIFICATIONS**

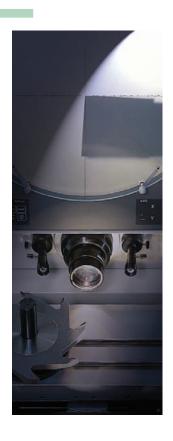
Order No.		172-868A				
Resolution		.0001"/.00005"/0.001mm/0.005mm				
Projection lens		10X ( <b>172-184</b> )				
Magnification accuracy (Nominal magnification)		±0.1% under contour illumination, ±0.15% under surface illumination				
Screen	Effective DIA	13.9" (353mm)				
	Screen material	Fine-grain ground glass				
	Reference line	Staggered crosses and crosshairs				
Protractor	Display range	±360° displays up to ±370°				
	Resolution	1'/0.01° switchable				
Functions		ABS/INC mode switch, zero-setting				
Contour illumination	Light source	Halogen bulb (24V, 150W)				
	Optical system	Telecentric				
	Functions	2-step brightness switching, cooling fan, heat-absorbing filter, green filter (optional)				
Surface	Light source	Halogen bulb (24V, 150W)				
illumination	Functions	Adjustable condenser lens (for all magnifications), cooling fan, heat-absorbing filter, green filter (optional)				
Power supply		120VAC, 60Hz				
Mass		331 lbs. (150kg)				
Standard accessories		10X projection lens set, workstage,				
		power cord, halogen bulb 24V 150W, 2pcs. ( <b>515530</b> ), machine cover ( <b>383228</b> ), user's manual				
Optional accessories		Counter Stand (12AAF182)				

#### **DIMENSIONS**



### **OPTIONAL ACCESSORIES**





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