



Máy chiếu

Profile Projector

1. Name of product: Profile Projector

2. Model: V12B series

3. Brand: NIKON

4. Specification:





Wide measurable range: cross travel 250×150mm. Models with a built-in digital counter and/or protractor are available.

Four types selectable

	Built-in digital protractor	Built-in digital counter
V-12BDC	•	•
V-12BD	•	-
V-12BSC	*Fixed screen	•
V-12BS	*Fixed screen	_

- D: Deluxe type. Comes with a built-in digital protractor.
- S: Standard type. No digital protractor is included.
- C: With built-in X-Y digital counter.
- *The V-12BSC and V-12BS types have a fixed screen.
- Therefore, angular measurement by rotating the screen is not possible.

Large stage mountable

The V-12B adapts a focusing mechanism that achieves focus by moving the objective head up and down, allowing stages with longer cross travel to be mounted. When the PS 10x6B Stage is used, the projector can measure areas as wide as 250×150mm.

Adjustable base feet

Because the base is 2mm away from the installation surface and the bese feet are adjustable, the projector is less affected by irregularities in the installation surface and external vibrations.



V-12BDC configured with PS 10x6B Stage



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Increased maximum workpiece height

Because the rigidity of the instrument is increased, thanks to CAE (Computer-Aided Engineering) design, workpieces as tall as 100mm can be loaded.

Built-in digital counter and protractor

The V-12BDC and V-12BSC types come with a digital XY counter, while the V-12BDC and V-12BD types have a built-in digital protractor for greater ease of use.

Erect images

Projection images are erect and unreversed for easy measurements, and their quality is as sharp as inverted images.

Switchable vertical/oblique illumination

The built-in surface illuminator can be switched between vertical and oblique illumination, making detection of edges in resin parts and other workpieces much easier.

Four-step zooming condenser lens

When contour illumination is used, this condenser lens delivers the right amount of light to suit the magnification of the projection lens selected. (The DIA condenser must be used with this lens when the magnification is 200x)

EPI Condenser Lens

Under surface illumination, the EPI condenser lens is necessary when 200× projection lenses are used.

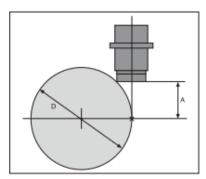
DIA Condenser Lens

Under contour illumination, the DIA condenser lens is necessary when 200× projection lenses are used.



PROJECTION LENSES

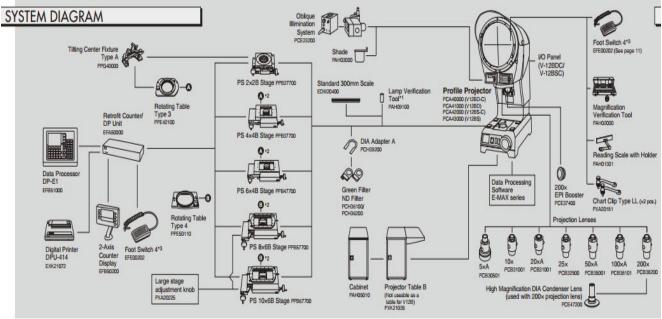
Three projection lenses can be mounted on the rotary turret at one time. All projection two emdashes boast high resolution and minimal distortion, while their working distances are longer than competitive lenses.



A=working distance D=maximum diameter of a measurable cylindrical specimen

				(mm)
Magnification	Diameter of field of view	Half mirror	Α	D
5×	61	Built-in; fixed	60	127
10×	30	Built-in; switchable	74	215
20×	15	Built-in; switchable	74	244
25×	12	Built-in; switchable	62	178
50×	6	Built-in; switchable	61	173
100×	3	Built-in; switchable	49	123
200×	1.5	Built-in; switchable	24	49

^{*}Part of the field of view is vignetted when the 5x projection lens is used under contour illumination.



11. Standard accessory "2: Letters above the stages represent accessories that can be mounted.
"3: "3: Please use the Foot Switch 2 (EFE00200) for Profile Projectors that have serial numbers starting with 1 or 2. To use the Foot Switch and [Reset/Send] buttons

"3: "3: Please use the Foot Switch 2 (EFE00200) for Profile Projectors that have serial numbers starting with 1 or 2. To use the Foot Switch and [Reset/Send] buttons simultaneously, the "MM cable for simultaneous use (PXA20224)" is required.



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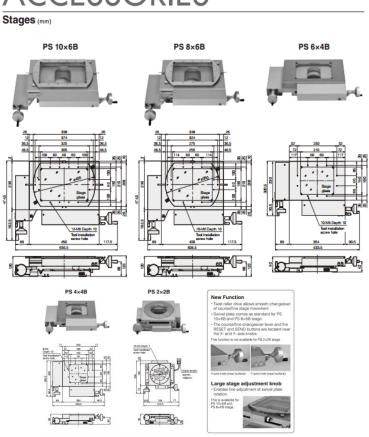




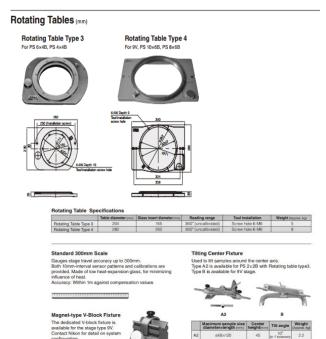
SPECIFICATIONS

Туре	Vertical optical axis bench type	
Image	Erect and unreversed	
Screen	V-12BDC/V-12BD ø305mm; etched center crossline;	
	provided with digital protractor fine rotation knob;	
	360 rotatable (with digital reading to 1 minute of arc)	
	V-12BSC/V-12BS ø305mm fixed screen	
Lens mount	3-lens turret mount; clamping type	
Projection lens	5×, 10×, 20×, 25×, 50×, 100×, 200×	
Magnification	0.1% for oblique surface/contour illumination	
accuracy (except 200x)	0.15% for vertical surface illumination	
Light source	24V-150W halogen for both contour and surface illumination	
Max. workpiece height	100mm (70mm: with PS 10×6B, PS 8×6B Stage)	
Stage	PS 10×6B, PS 8×6B, PS 6×4B, PS 4×4B	
	or PS 2×2B Stage directly mountable	
Power input	AC 100/120V (50/60 Hz), AC 220/230/240V (50/60 Hz)	
Dimensions(WxDxH)	410×650×938-1038mm	
Weight	Approx. 80kg	
XY counter	V-12BDC Built-in (1.0/0.5m selectable) V-12BD Not provided	
	V-12BSC Built-in (1.0/0.5m selectable) V-12BS Not provided	

ACCESSORIES



| Stage Specifications | Stage glass | Stroke (mm) | Reading | Min. reading | Rotation range | Rotation rang





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