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This Stroboscopeis small in size, light in weight, easyto carry. Although complex and advanced it is convenient touse and operate. Its ruggedness will allow many years of use if proper operating techniques are followed. Please read the following instructions carefully and

always keep this manual within easy

reach.

Shaft Rotation n and Flashes n b relationship	stopped i mages	note
n=n ₀-△ n		single image moving oppositely
n=n₀+△n		single image moving same direction

1. FEATURES

- * When thespeed of the moving object matches the flashrate of the stroboscope the moving object appears till. The unit can give the operator the flusion of 'stopped motion where inactuality the equipment under observation is in a moving state. By adjusting the flashing rate, equipment motion appears to be standing still. With a slight adjustment, movement carbe viewed in apparents low motion. Which enables the observer or the operator to tudy the process in action.
- * W ide measuringrange & high resolution.
- * Digital display gives exact readingwith no quessing orerrors.
- * Flash timer controlconserves flashtube life.
- * External trigger allows unit to be automatically Synchronize with equipment.
- * Strong flash light at low range andweek flash light athigh range.

2. SPECIFICATIONS

Display: 10 mm (0.4") LCD	
(Liquid Crystal Display)	
Parameters Measured: FPM	
(Flashes Per Minute)	
Ranges: 2350A: 50~12,000 FPM □	
2350B: 50~40,000 FPM □	
2350C: 50~20,000 FPM □	
2350D: 50~30,000 FPM □	
2350E: 50~2,000 FPM □	

Manual STROBOSCOPE PCE-OM 15

5.NOTES

- 5.1 This device causes movingobjects toappear still. Take precaution against accidentation with movingobjects.
- 5.2 Do notlook at the emittedight for long periods of time; it can be harmfulto theeyes.
- 5.3 Do not touchthe flash tube.
- 5.4 Do notoperate ontore instrument n following places: explosive areas, nearwater, oil, dust, or chemicals, areaswhere temperatures too high.
- FLASH TUBE REPLACEMENT
 when readings displayed but unitis not flashing,
 The tube might beneeded to replaced.
- 7. AUTO STOP FLASHING

 The strobe light of stroboscope will stop flashing about5 minutes after power on the stroboscope imprder toprolong lifetime of
 - or physically marking the object with a small piece of tape, pencilmark, etc.
 - 4.2 Plug the supplied power cable into the power cable jack of the instrument. Plugthe otherend of the cable into an appropriate AC power source. Do not plugthe deviceinto an incorrect power source otherwise damage to the instrument will result. Use the ON/OFF switch to turn the instrument or off.
 - 4.3 Depress the H/L button (3-4) to select the Hi range or Low range. For different models, the upper limits vary. Please note, flashing light is much brighteat low range than that athir ange in order to prolong lifetime of strobe light.
 - 4.4 Adjust the Coarse Knob 3- 5 or the Fine Knob 3-6 from highest FPM downward. The true RPM can benoted once the frozenappears and the first single image of "Mark" appears. See chartin table 1 and accompanying diagram for further explanation.
 - 4.5 To verify RPM reading, press "÷2", a single image shouldappear again And press "x2", 2 images should appear.
 - 4.6 While measuring, use theRANGE button to select therange asdesired. The Low range is used formeasurements below 2,500 RPM (for E type) or 5,000 RPM (for A to D type). At low range, flashinglight is much brighter
 - 4.7 Use the Ext/Int button to select the external trigger or internal trigger way as desired.

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(Model E is specially designed for Printing and Textile industry)

Resolution: 0. 1 FPM (50~999.9 FPM)

1 FPM (over 1000 FPM)

Accuracy: $\pm (0.05\% n+1d)$ Sampling Time: 0.3 second

Internal/external triggering conversion

External trigger level: 3-24 V



H/L range:

Flashing light is much brighter at low

range than at high range.

Strobe Flash tube type: Xenon lamp

Operating conditions:

Temp: 0~40°C

Humidity: <85% RH

Power supply: 220V A.C. (Default)

□ 110V A.C.

With x2, $\div 2$ for fast check

Size: 215x85x180 mm (8.5x3.3x7.1 inch)

Weight: about 1000g

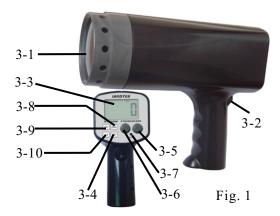
Accessories:

Carrying case	1 pc.
Operation manual	1 pc.
Spare flashing tube	1set.

Table 1

_	
Stopped Images	note
	Single images
	Single images
\bigcirc	2 images
	4 images
	2 images
	3 images

3. FRONT PANEL DESCRIPTIONS



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- 3-1 Flash Tube (Xenon lamp)
- 3-2 Power Switch
- 3-3 Display
- 3-4 Range Switch
- 3-5 Coarse (Flashing Rate Adjusting Knob)
- 3-6 Fine (Flashing Rate Adjusting Knob)
- 3-7 Jack for external triggering signal
- 3-8 Internal/external triggering button
- 3-9 x2 button for fast check
- $3-10 \div 2$ button for fast check

4. MEASURING PROCEDURE

4. 1"Mark" the object to be measured by either visually noting an inherent distinguishing characteristics (such as a label scratch, etc.)