

POWER MONITOR INSTRUCTION MANUAL

FOR

PM-300A

*Please read this instruction manual carefully and thoroughly
before installing or operating your laser.*

 **KIMMON KOHA CO., LTD.**

1-53-2 ITABASHI, ITABASHI-KU, TOKYO, 173-0004 JAPAN
PHONE 81-3-5248-4820 FAX 81-3-5248-0021

October,2012

Table of Contents

1. Introduction	1
2. Unpacking	2
3. Parts Name and Functions	3
3-1 Meter Unit	3
3-1-1 Front Panel Description	3
3-1-2 Back Panel Description	4
3-2 Detector Unit	5
4. Specification	6
5. General Cautions	6
6. Operation	7
6-1 Battery Installation Procedure	7
6-2 Power Measurement Procedure	8
7. Calibration	8
8. Drawings	9
8-1 Meter Unit	9
8-2 Detector Unit	9
9. Where to Contact Us	10

Attachment---About requirements of Chinese RoHS

1. Introduction

**Thank you very much for your purchase of KIMMON PM-300A power monitor.
For long-lasting performance of your power monitor, please follow the instructions contained in this manual when installing or operating your power monitor.**

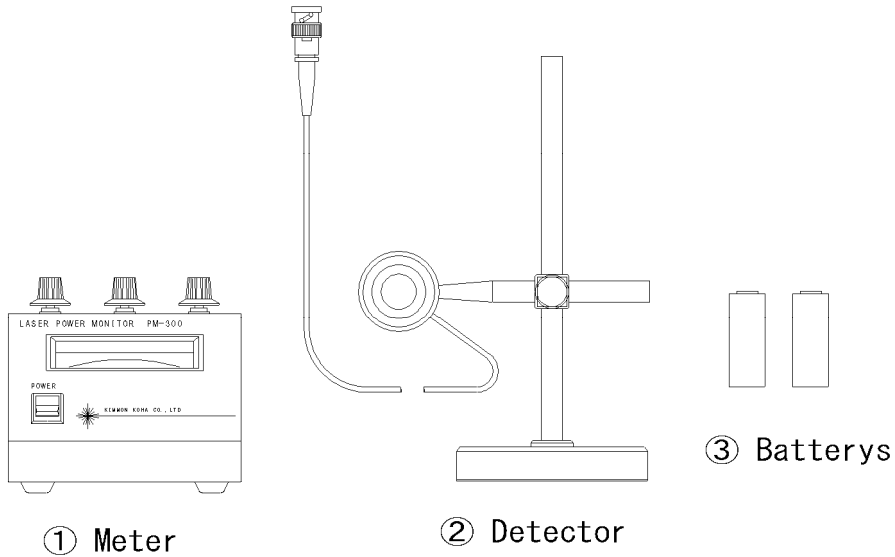
2. Unpacking

When you receive your power monitor, please confirm that there is no damage to your instruments.

Also check the serial number on the power monitor matches the serial number listed on the test record. Notify us or our agents immediately if you find damages or discrepancies.

Instruments Configuration

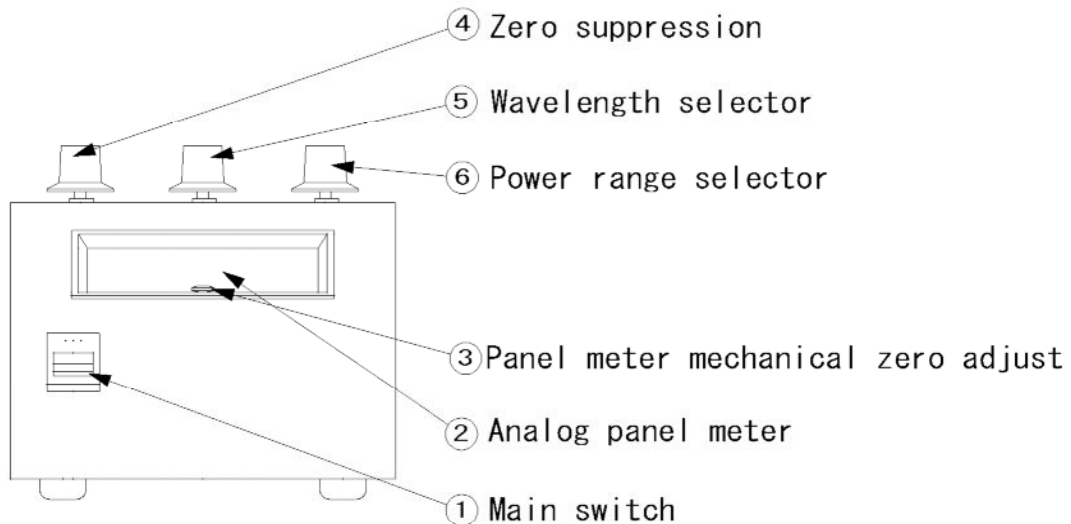
Meter unit	-----	1	
Detector unit	-----	1	set
(Detector	-----	1)	
(Stand	-----	1)	
Batteries (DC5.6V)	-----	1	
Test record	-----	1	
Manual	-----	1	



3. Parts Name and Functions

3-1 Meter Unit

3-1-1 Front Panel Description



① Main switch

When you switch on, power is supplied to the instrument.

② Analog panel meter

The meter was printed the two range scales.

③ Panel meter mechanical zero adjust

It is pre-adjusted prior to shipping.

④ Zero suppression

This allows to adjust the reading to zero.

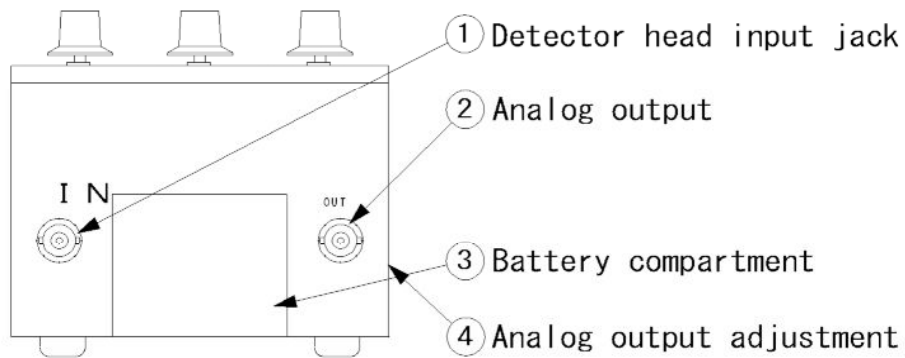
⑤ Wavelength selector

You can select the measurement wavelength, 325nm, 405nm, 442nm, 532nm, 633nm.

⑥ Power range selector

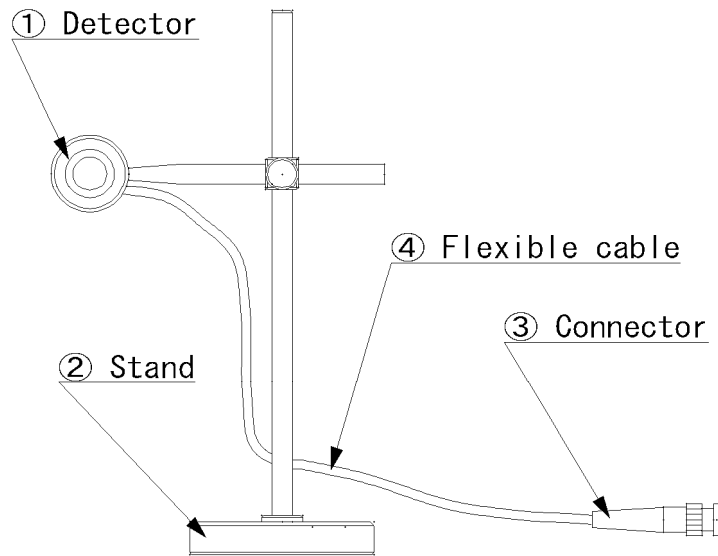
You can select the measurement range, 1mW, 3mW, 10mW, 30mW, 100mW, 300mW.

3-1-2 Back Panel Description



- ① **Detector input jack**
This is the connector which plugs detector to meter.
- ② **Analog output jack (0 - 0.5V)**
When you want to monitor the power, you can get the signal from here.
- ③ **Battery compartment**
When you operate by the batteries, set two batteries.
(Refer to Page 6)
- ④ **Analog output adjustment.**
It is pre-adjusted prior to shipping.

3-2 Detector Unit



- ① **Detector**
Expose the laser emission to the center of the detector.
- ② **Stand**
This is the stand for setting the detector.
- ③ **Connector (BNC Type)**
This is the connector between meter unit and detector unit.
- ④ **Flexible cable**
The cable is 2m length flexible cable.

4. Specification

Power Ranges	1mW, 3mW, 10mW, 30mW, 100mW, 300mW
Wavelength	325nm, 405nm, 442nm, 532nm, 633nm
Monitor Accuracy	$\pm 20\%$
Response Time	0.8 sec
Analog Output	0.5 V max.
General Description	
Display	7cm×3.4cm analog panel meter
Battery	Two 4LR44C type DC6.0V battery
Dimension	height 100mm, width 110mm, depth 161mm
Weight	0.95kg

5. General Cautions

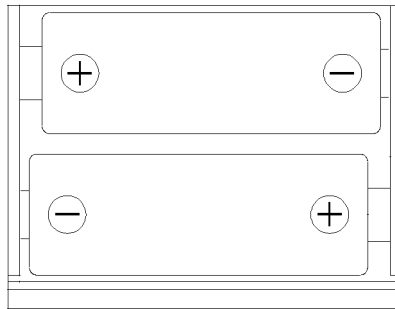
Transporting Instruments

This power monitor is a very delicate instrument, so please handle gently when you operate. When transporting the instruments, pay special attention to shock and vibration.

6. Operation

6-1 Battery Installation Procedure

- 1) Confirm that MAIN SWITCH is turned off.
- 2) Remove the panel of BATTERY COMPARTMENT on the back panel.
- 3) Install batteries into the box.
- 4) Put the panel of the BATTERY COMPARTMENT back.



6-2 Power Measurement Procedure

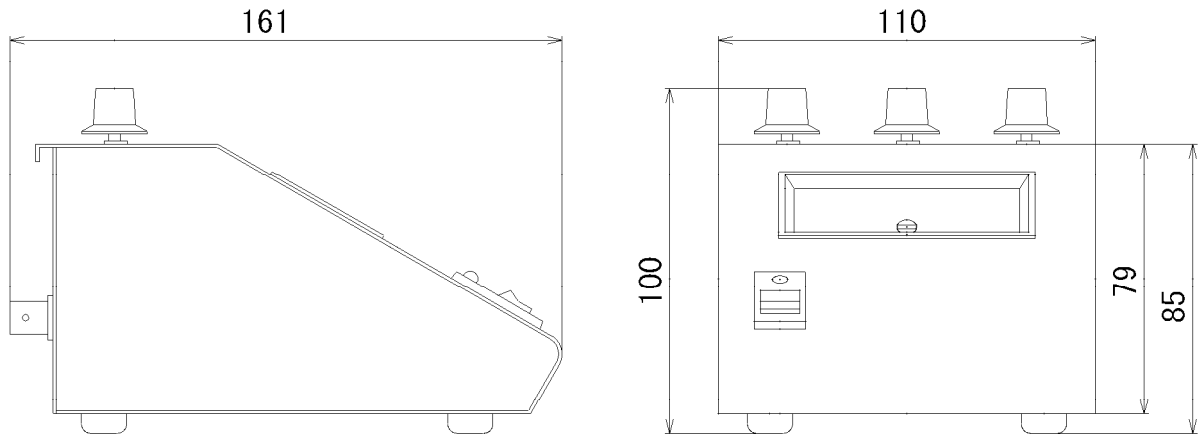
- 1) Set the detector on the stand.**
- 2) Connect the connector from detector to the meter unit.**
(Refer to Page 3,4,5)
- 3) Set the detector to the beam position.**
- 4) Block the laser beam to the detector.**
- 5) Turn on the MAIN SWITCH. (Refer to Page 3)**
- 6) Select the Power range which is most appropriate for you by using POWER RANGE SELECTOR. (Refer to Page 3)**
- 7) Select the WAVELENGTH SELECTOR for your laser's wavelength.**
(Refer to Page 3)
- 8) Adjust the needle on the panel to zero by the ZERO SUPPRESSION.**
(Refer to Page 3)
- 9) Expose the laser beam to the center of the DETECTOR.**
(Refer to Page 5)
- 10) The average power of the laser is displayed on the ANALOG PANEL METER.**

7. Calibration

We recommend that your power monitor be sent back to us for calibration once a year.

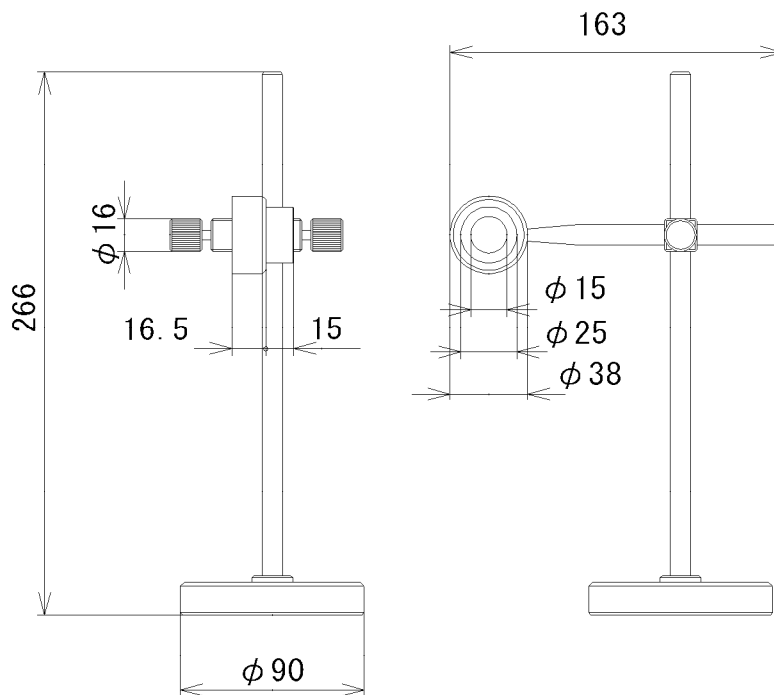
8. Drawings

8-1 Meter Unit



Unit : mm

8-2 Detector Unit



Unit : mm

9. Where to Contact Us

TOKYO HEAD OFFICE

1-53-2 ITABASHI, ITABASHI-KU, TOKYO, 173-0004 JAPAN

PHONE 81-3-5248-4820 FAX 81-3-5248-0021

Attachment

添加资料

1. 关系到中国Rohs的表示

1) . 激光功率测量仪器

型式：PM-300A

表一 有毒有害物质或元素名称及含量

部件名称	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
机箱	○	○	○	○	○	○
印刷电路板	○	○	○	○	○	○
电线	○	○	○	○	○	○
没包括有害物质。						