



No. 99MBB500A1

RA-10/120

USB Communication

User's Manual

Read this User's Manual thoroughly
before operating the instrument. After reading,
retain it close at hand for future reference.

Mitutoyo

CONVENTIONS USED IN THIS MANUAL

Safety Precautions

To ensure that instruments are operated correctly and safely, Mitutoyo manuals use various safety symbols (Signal Words and Safety Alert Symbols) to identify and warn against hazards and potential accidents.

The following signs indicate general warnings:



DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in serious injury or death.



WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in serious injury or death.



CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or property damage.

The following signs indicate specific warnings or prohibited actions, or indicate a mandatory action:



Alerts the user to a specific hazardous situation. The given example means "Caution, risk of electric shock".



Prohibits a specific action. The given example means "Do not disassemble".



Specifies a required action. The given example means "Ground".

CONVENTIONS USED IN THIS MANUAL

Types of Notes

The following types of notes are used in this manual to help the operator obtain reliable measurement data through correct instrument operation.

-
- IMPORTANT**
- An important note provides information essential to the completion of a task. You cannot disregard this note to complete the task.
 - An important note is a type of precaution, which if neglected could result in a loss of data, decreased accuracy or instrument malfunction/failure.
-

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- NOTE**
- A note emphasizes or supplements important points of the main text. It also supplies information about specific situations (e.g., memory limitations, equipment configurations, or details that apply to specific versions of a program).
-

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- TIP**
- A tip is a type of note that helps the user apply the techniques and procedures described in the text to his or her specific needs.
- It also provides reference information associated with the topic being discussed.
-

Mitutoyo assumes no liability to any party for any loss or damage, direct or indirect, caused by use of this instrument not conforming to this manual.

Information in this document is subject to change without notice.

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Warranty

In the event that the Mitutoyo data processing unit should prove defective in workmanship or material, within one year from the date of original purchase for use, it will be repaired or replaced, at our option, free of charge upon its prepaid return to us.

If the unit fails or is damaged for any of the following reasons, it will be subject to a repair charge, even if it is still under warranty.

- 1 Failure or damage owing to inappropriate handling or unauthorized modification.
- 2 Failure or damage owing to transport, dropping, or relocation of the instrument after purchase.
- 3 Failure or damage owing to fire, salt, gas, abnormal voltage, or natural disaster.

This warranty is effective only where the instrument is properly installed and operated in conformance with the instructions in this manual.

Export Control Compliance

This Product falls into the Catch-All-Controlled Goods or Program under the Category 16 of the Separate Table 1 of the Export Trade Control Order or the Category 16 of the Separate Table of the Foreign Exchange Control Order, based on the Foreign Exchange and Foreign Trade Law of Japan.

Further, this User's Manual also falls into the Catch-All-Controlled Technology for use of the Catch-All-Controlled Goods or Program, under the Category 16 of the Separate Table of the Foreign Exchange Control Order.

If you intend re-exporting or re-providing the product or technology to any party other than yourself, please consult with Mitutoyo prior to such re-exporting or re-providing.

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)



This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. To reduce the environmental impact of WEEE (Waste Electrical and Electronic Equipment) and minimize the volume of WEEE entering landfills, please reuse and recycle.

For further information, please contact your local dealer or distributors.

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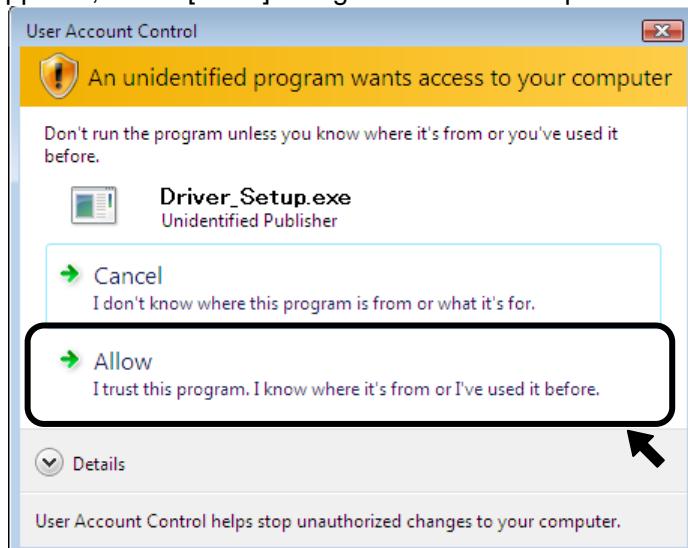
RA-10/120 USB Communication Install

This chapter explains regarding “USB Communication Install” procedure.

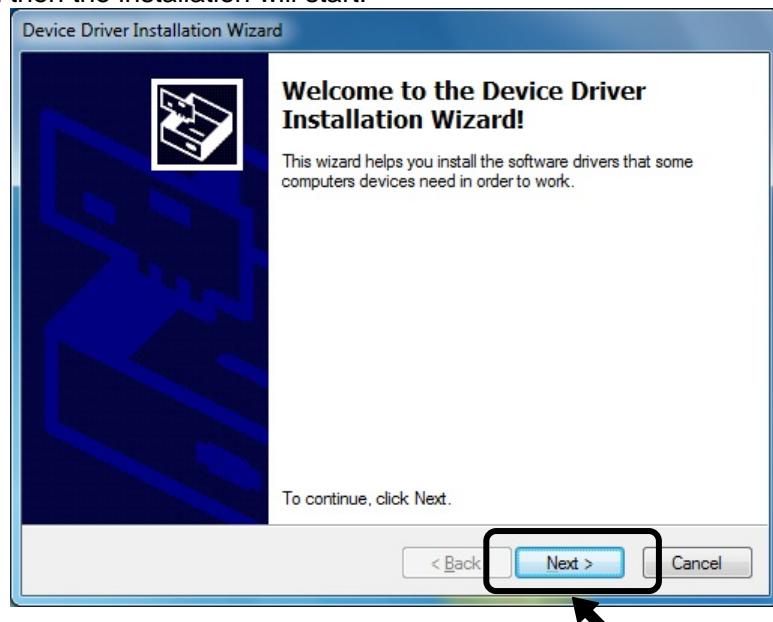
It is necessary to install a RA-10/120 communication driver to use “USB Communication”.

Set the CD-ROM including the application into the CD-ROM drive. Execute [Driver_Setup.exe] in the driver folder in the CD-ROM. Execute install with following the guidance.

1. After executing [Driver_Setup.exe], the below message appears occasionally according to user account control. If it appears, select [Allow] and go on to the next operation.



-
2. Then a confirmation message of [Device Driver Installation Wizard] appears.
Click [NEXT], and then the installation will start.



Here, the message on the right appears occasionally. If it appears, click [Install this driver software anyway] at the bottom.

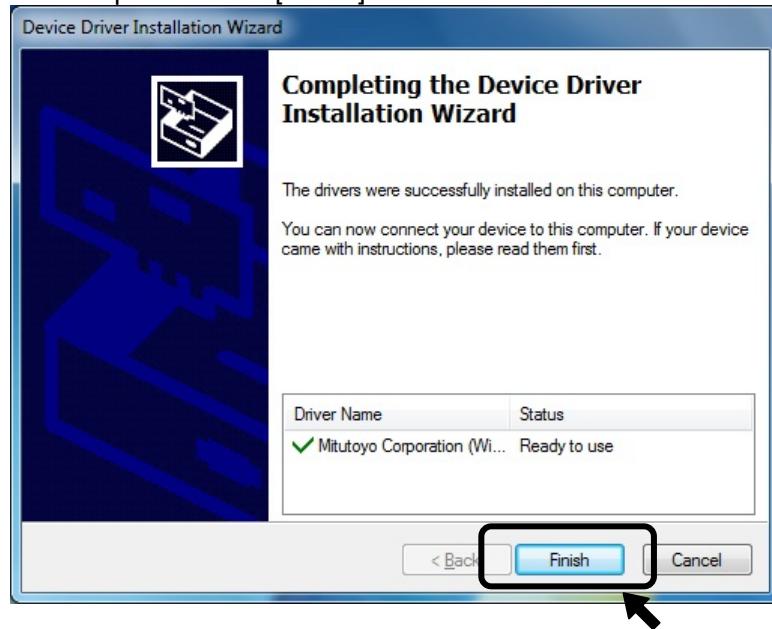


TIP In the case of V1.001 or later, the following message may be appeared several times. If it appears, tick [Always trust software from "MITUTOYO CORPORATION"] and click [Install].



3. ROUNDPAK V7 のインストール

3. When the message of [Completing the Device Driver Installation Wizard] appears, the installation of USB driver has been completed. Click [Finish].



2

RA-10/120 USB Communication Starting

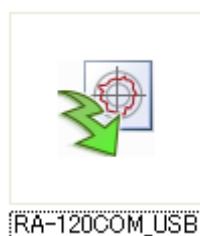
This chapter explains regarding the method of starting USB communication.

2.1 Before starting

- (1) Excel manufactured by Microsoft (from U.S.A) has to be installed to start the program. Regarding the performance environment, refer to [Chapter 5].
- (2) Connect a USB cable.
USB cable (part №12AAD510) is not included in this product. It is necessary to arrange separately. Please prepare the type-AB if you get it on the market.

2.2 Method of starting

- (1) Copy all the Application folders in the CD-ROM to arbitrary place on the hard disc.
- (2) Double-click [RA-120COM_USB.exe] in the application folder



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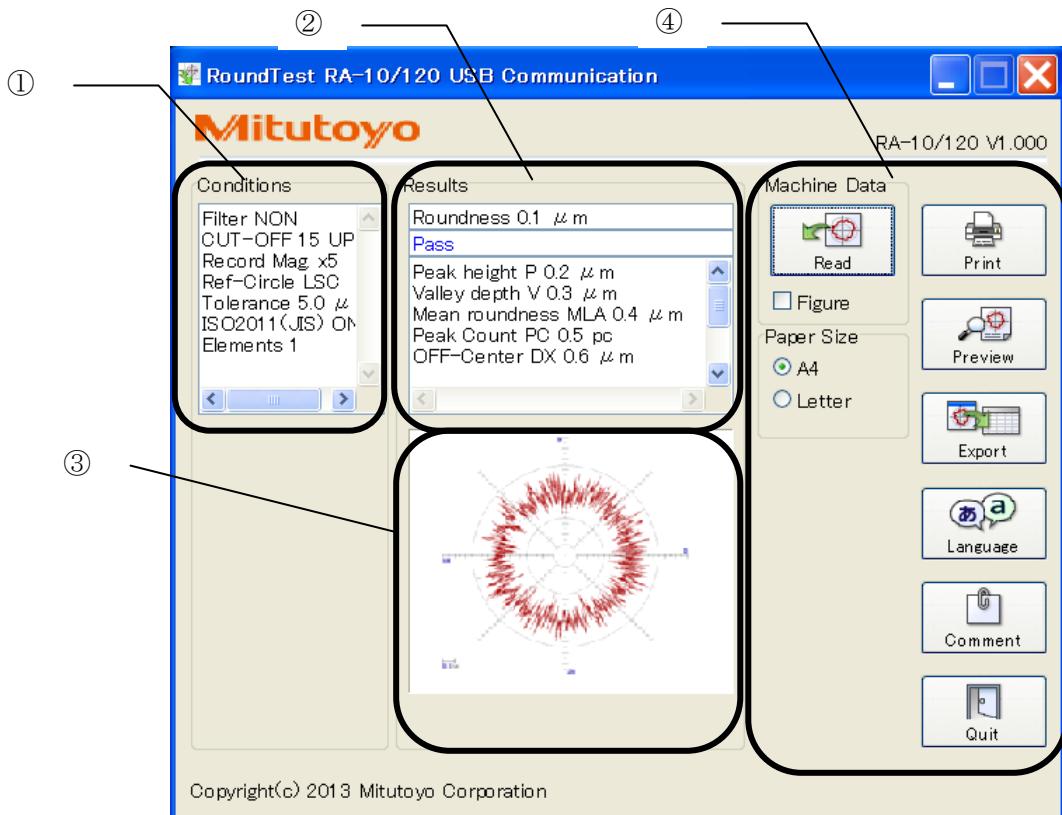
3

RA-10/120 Summary of USB Communication

This chapter explains regarding the summary of USB Communication.

It is available to create a “simple inspection certificate” with “RA-10/120 USB Communication” based on the calculation result of RA-10/120.

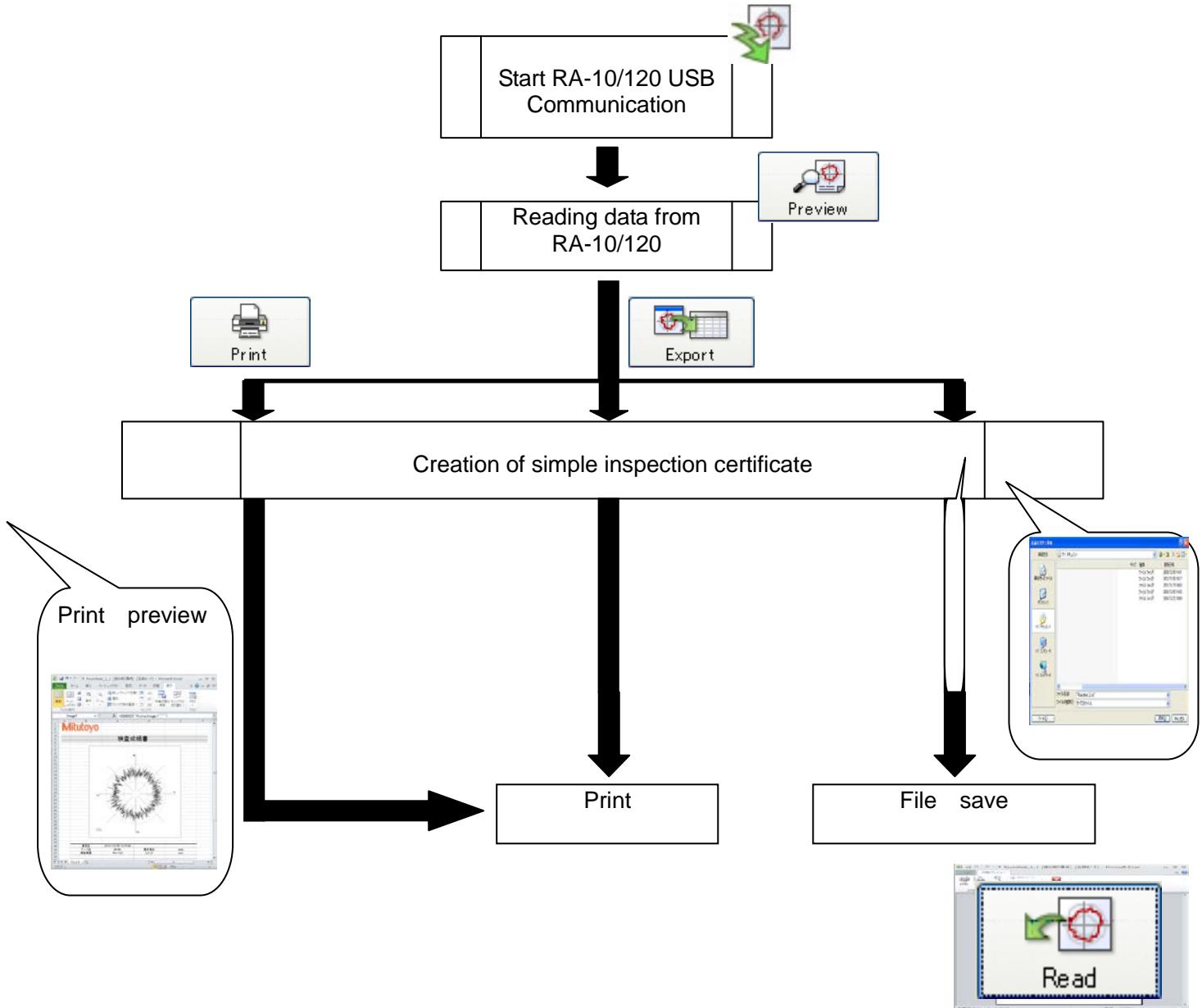
3.1 Overall view



- ① Condition list : Display the condition of the data taken from RA-10/120.
- ② Result list : Display the result of the data taken from RA-10/120.
- ③ Figure window : Display the figure of the data taken from RA-10/120.
- ④ Operation button : Reading the data from RA-10/120, creation of a simple inspection certificate..
Regarding the details, refer to [Chapter 4]

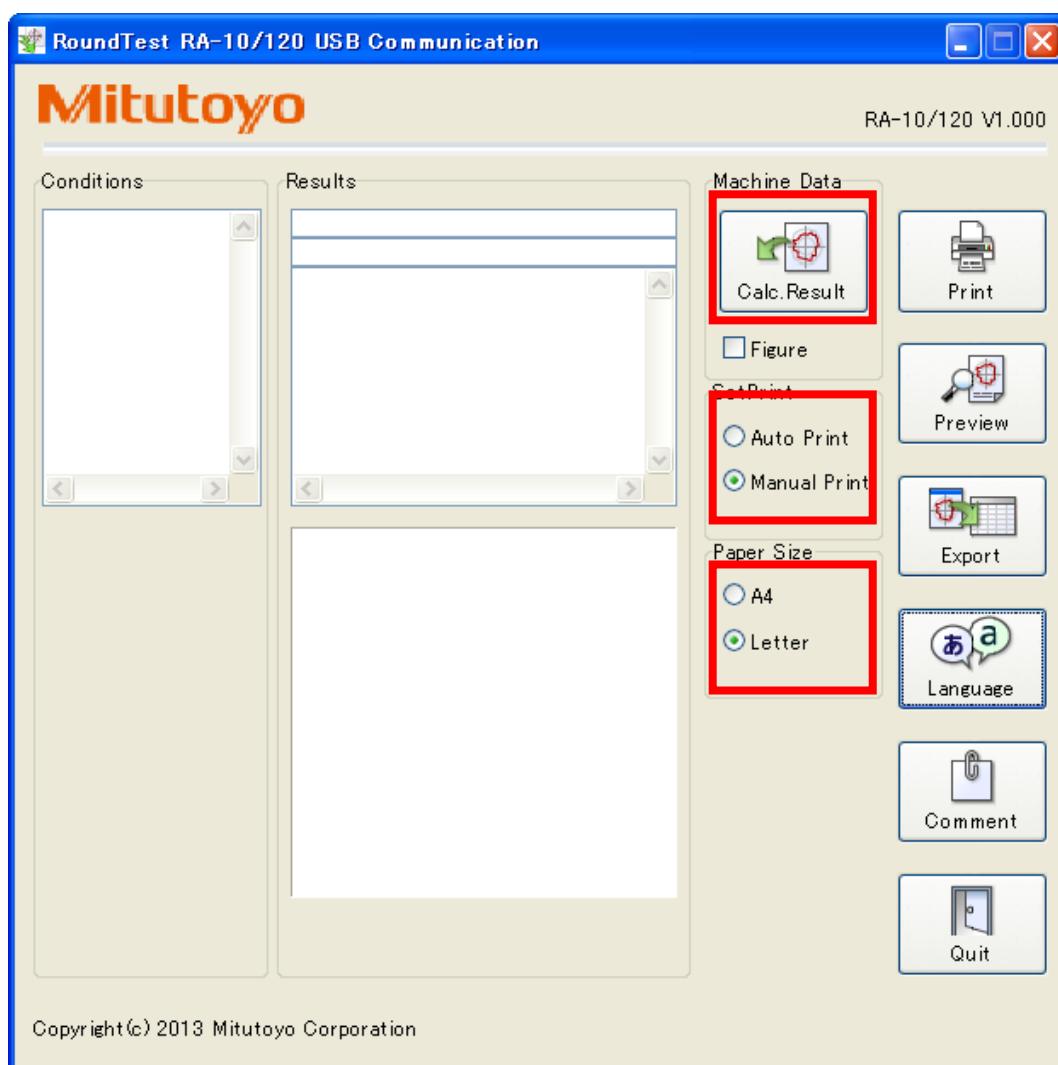
3.2 Operation procedure

This section explains regarding the procedure in the case of using “RA-10/120 USB Communication”. Operation method for the main function is as below.



3.3 Generating an inspection certificate

- (1) This program can generate a simplified inspection certificate based on calculation results and evaluation profile data.
- (2) Click "RA-120COM_USB.exe" to start "RA-10/120 USB Communication".
- (3) Select [Automatic Print] from the Print Method box.
- (4) Select either A4-size or letter-size print sheet.
- (5) Following steps can be performed automatically by clicking [Calc. Result]:
Loads data from the control unit → Creates an inspection certificate → Prints an inspection certificate
- (7) The evaluation conditions and calculation results of loaded data can be also confirmed on the screen of RA-10/120 USB Communication.



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4

RA-10/120 Method of USB Communication Usage

This chapter explains regarding the method of USB Communication usage.

4.1 Reading



Press the [Read] button to read the measurement data. The taken data are displayed on [Condition list], [Result list], and [Figure window].

The contents displayed on each list are as below.

(1) Condition list

	Item	Contents	
1	Filter	NON, 2CR50, 2CR75, 2CRPC50, 2CRPC75, Gaussian (*1)	Any one
2	CUT-OFF	15pc/r,50pc/r,150pc/r,500pc/r,15-150pc/r,15-50pc/r,,50-500pc/r ,NON (*1)	Any one
3	Record Mag.	x5,x10,x20,x50,x100,x200,x500,x1k,x2k,x5k,x10k	Any one
4	Ref-Circle	LSC,LSCI,MZC,MZCI,MIC,MICI,MCC,MCCI,LS,LSPL,MZ,MZP L,NON	Any one
5	Tolerance	○.○○○○ [Unit]	
6	ISO2011(JIS)	ON,OFF	Any one
7	Elements	○	

(2) Result list

	Item	Contents	
1	Analysis item	Roundness,RONt,Coaxiality ,Concentricity, Runout(RDL) ,Runout(AXL) , Squareness(AXS), Squareness(PLN),Thickness-DV, Flatness,FLTt,Parallelism, Parallel(Runout), Cylindricity, Simple Cylind, Mean Cylind (*1)	Any one
2	Result	OK,NG	Any one
3	Relevant analysis result	(*2)	

(* 1) If the analysis condition does not comply with the standards, each items are followed by *.
(Ex. 2CR50 *)

(*2) It depends on the analysis item.

	Item	Contents (Some are not printed out depends on RA-120 settings.)
1	Roundness	P,V,MLA,PC,DX,DY,DL,DA
2	RONt	RONp,RONv,RONq,PC,DX,DY,DL,DA
3	Coaxiality	DX,DY,DL,DA
4	Concentricity	DX,DY,DL,DA
5	Runout(RDL)	MAX,MIN,A1,A2
6	Runout(AXL)	MAX,MIN,A1,A2
7	Squareness(AXS)	ANG
8	Squareness(PLN)	ANG
9	Thickness-DV	MAX,MIN,A1,A2
10	Flatness	P,V,MLA,PC,DX,DY
11	FLTt	FLTp,FLTv,FLTq,PC,DX,DY
12	Parallelism	ANG
13	Parallel(Runout)	
14	Cylindricity	DX,DY,DL,DA
15	Simple Cylind.	DX,DY,DL,DA
16	Mean Cylind.	DX,DY,DL,DA

(3) Figure window

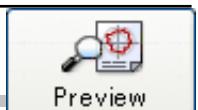
It displays the same figure as the one printed out through RA-10/120. (In case of A4 setting)

4.2 Print



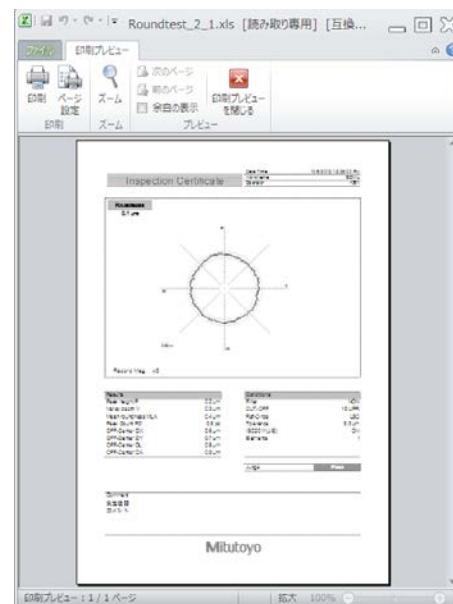
Press the [Print] button to print a “simple inspection certificate”.
Regarding the contents of printing, refer to [4.4 Export].

4.3 Print preview



Press the [Preview] button to display the print preview of the “simple inspection certificate”. It is possible to print out after checking the print preview.

【Ex. excel 2010】



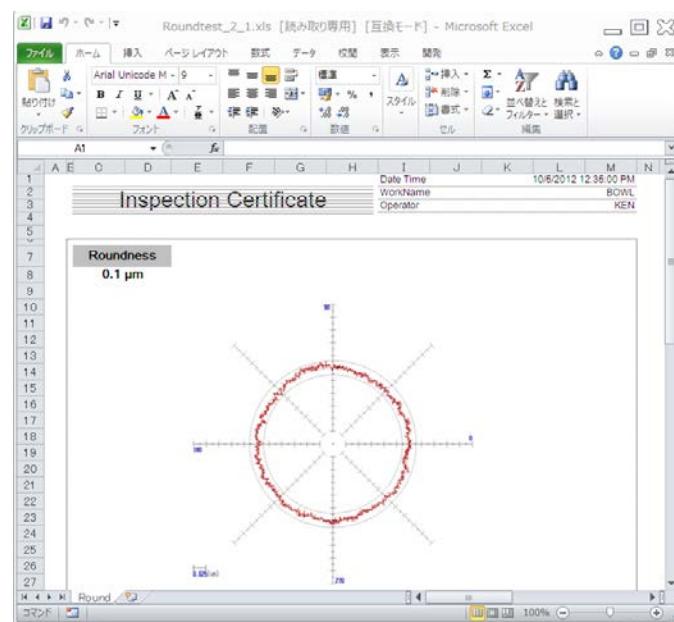
Regarding the contents of print preview, refer to [4.4 Export].

4.4 Export

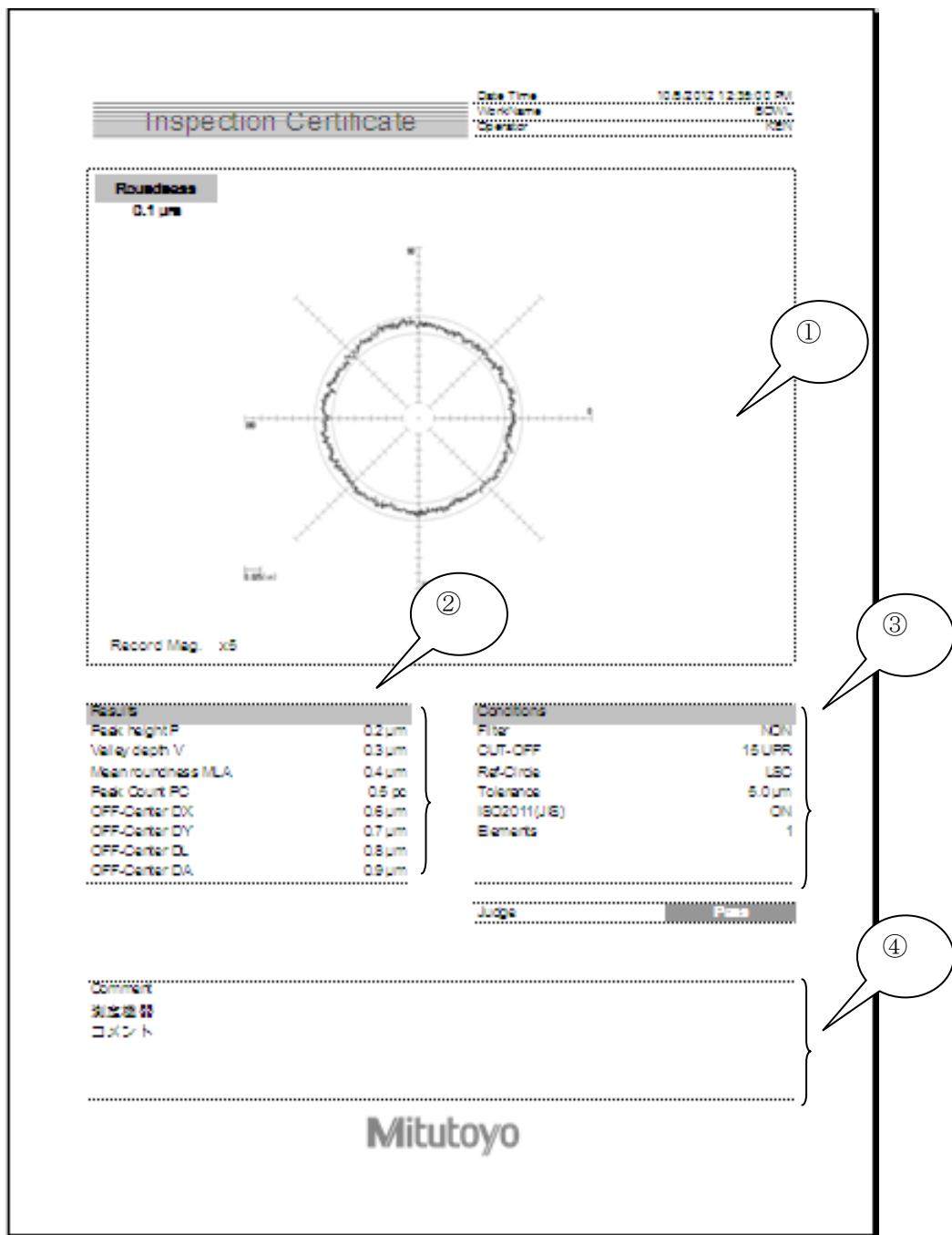


Press the [Export] to create the “simple inspection certificate”. It is possible to save anywhere.

【Ex. excel 2010】



(1) The format of the “Simple inspection certificate” is as below.



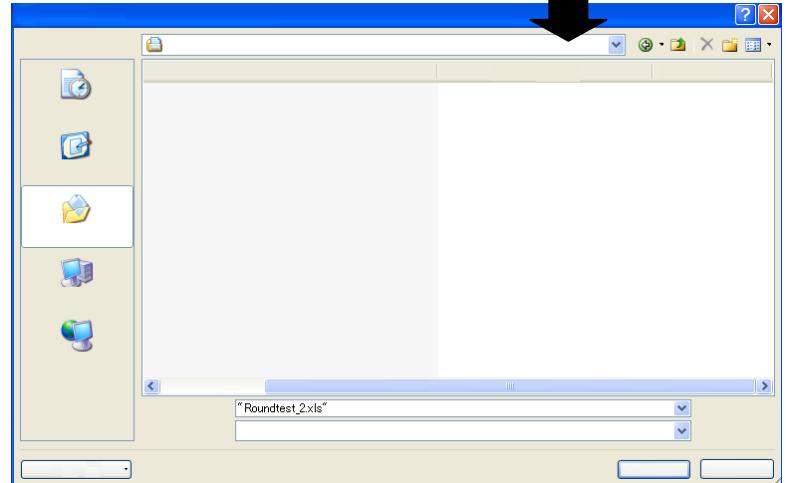
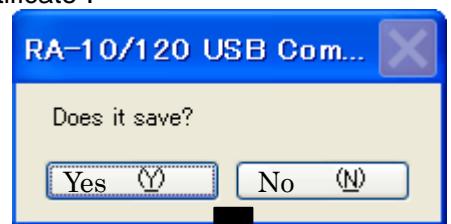
- ① Figure window : The contents of [③, 3.1 Overall view] is displayed.
(It does not display in the case of [NO figure].)
- ② Result list. : The contents of [② 3.1 Overall view] is displayed.
- ③ Condition list : The contents of [① 3.1 Overall view] is displayed.
- ④ Contents window : The contents set at [4.6. Comment settings].
(Regarding measurement date, it indicates the date included in the measured date taken from PA-120.)

4. RA-10/120 Method of USB Communication Usage

(2) This section explains regarding saving the “simple inspection certificate”.

Click [Yes] to save the simple inspection certificate.

The dialog of “Name and save” shows up. Name the file and Click [Save].



4.5 Language setting



It is possible to set language of the screen or the “simple inspection certificate”.

Applicable languages are as below.

Japanese	TRAD. Chinese
English	SIMP. Chinese
German	Czech
French	Polish
Italian	Hungarian
Spanish	Turkish
Portuguese	Swedish
Korean	Dutch



* This language setting does not match with the language of RA-10/120 settings.

4.6 Comment settings



It is possible to add “Comment” to the “simple inspection certificate”.

Addable items are as below.

Date Time	10/5/2012 12:35:00 PM
WorkName	BOWL
Operator	KEN
Comment	
Machine	RA-120
Comment	TEST

Comment

WorkName	BOWL
Operator	KEN
Machine	RA-120
Comment	TEST

① WorkName :

If the WorkName is set on RA-10/120, it displays the WorkName.

It is possible to set the WorkName as you like if it is not set on RA-10/120 (the column is blank).

In this case, it displays “WorkName”, but it is possible to set any text.

② Operator :

If the Operator is set on RA-10/120, it displays the Operator..

It is possible to set the Operator as you like if it is not set on RA-10/120 (the column is blank).

In this case, it displays “Operator”, but it is possible to set any text.

③ Machine :

Regardless of RA-10/120 settings, it is possible to set as you like.

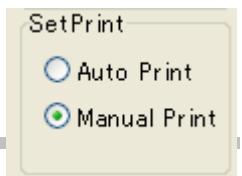
In this case, it displays “Machine”, but it is possible to set any text.

④ Comment :

Regardless of RA-10/120 settings, it is possible to set as you like.

In this case, it displays “Comment”, but it is possible to set any text.

4.7 Print settings

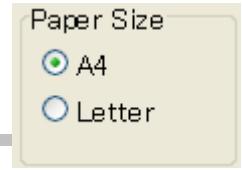


4.1.It is possible to print at the same time of reading.

Auto print : print at the same time of reading

Manual print : only reading

4.8 Paper selection



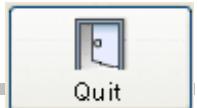
It is possible to select paper size at the operation of [4.2. Print], [4.3. Print Preview], [4.4. Export].

4.9 Figure



It is possible to read figure by checking [Figure]. If you don't check it, it does not display figure on the "simple inspection certificate".

4.10 Quit



Finish USB communication

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RA-10/120 USB Communication Performance Environment

RA-10/120 USB Communication performance environment is as below.

OS	Windows XP-SP3/Vista/Windows7(32Bit/64bit)/Windows10
Excel	Excel 2010/2016
Display	Equal or more than 1024×768 dots, High color (equal or more than 16Bit)

NOTE

- As for “over Windows Vista Business/Windows7/Windows10”, please use as a controller.
 - In the case that a security level of Excel is high, it does not work appropriately occasionally.
 - The language displayed on the software is in the system font of the PC currently used. Even though it does not display appropriately (gibberish text) or all the text can not be displayed on the screen depending on the language occasionally, there are no problems with the performance.
-

- (1) Windows is a registered brand of Microsoft (U.S.A).
- (2) Excel is a registered brand of Microsoft (U.S.A).
- (3) Other company names or product names mentioned on this manual are registered brand of the company for each.

SERVICE NETWORK

*As of October 2016

Europe

Mitutoyo Europe GmbH

Borsigstrasse 8-10, 41469 Neuss, GERMANY
TEL: 49 (0)2137 102-0 FAX: 49 (0)2137 102-351

Mitutoyo CTL Germany GmbH

Von-Gunzert-Strasse 17, 78727 Oberndorf, GERMANY
TEL: 49 (0)7423 8776-0 FAX: 49 (0)7423 8776-99

KOMEG Industrielle Messtechnik GmbH

Zum Wasserwerk 3, 66333 Völklingen, GERMANY
TEL: 49 (0)6898 91110 FAX: 49 (0)6898 9111100

Germany

Mitutoyo Deutschland GmbH

Borsigstrasse 8-10, 41469 Neuss, GERMANY
TEL: 49 (0)2137 102-0 FAX: 49 (0)2137 86 85

M3 Solution Center Hamburg

Tempowerkring 9 im HIT-Technologiepark 21079 Hamburg,
GERMANY
TEL: 49 (0)40 791894-0 FAX: 49 (0)40 791894-50

M3 Solution Center Berlin

Paradiesstrasse 208, 12526 Berlin, GERMANY
TEL: 49(0)30 2611 267 FAX: 49(0)30 26 29 209

M3 Solution Center Eisenach

Heinrich-Ehrhardt-Platz 1, 99817 Eisenach, GERMANY
TEL: 49 (0)3691 88909-0 FAX: 49 (0)3691 88909-9

M3 Solution Center Ingolstadt

Marie-Curie-Strasse 1a, 85055 Ingolstadt, GERMANY
TEL: 49 (0)841 954920 FAX: 49 (0)841 9549250

M3 Solution Center Leonberg GmbH

Steinbeisstrasse 2, 71229 Leonberg, GERMANY
TEL: 49 (0)7152 6080-0 FAX: 49 (0)7152 608060

Mitutoyo-Messgeräte Leonberg GmbH

Heidenheimer Strasse 14 71229 Leonberg, GERMANY
TEL: 49 (0)7152 9237-0 FAX: 49 (0)7152 9237-29

U.K.

Mitutoyo (UK) Ltd.

Joule Road, West Point Business Park, Andover, Hampshire
SP10 3UX, UNITED KINGDOM
TEL: 44 (0)1264 353 123 FAX: 44 (0)1264 354883

M3 Solution Center Coventry

Unit6, Banner Park, Wickmans Drive, Coventry,
Warwickshire CV4 9XA, UNITED KINGDOM
TEL: 44 (0)2476 426300 FAX: 44 (0)2476 426339

M3 Solution Center Halifax

Lowfields Business Park, Navigation Close, Elland, West
Yorkshire HX5 9HB, UNITED KINGDOM
TEL: 44 (0)1422 375566 FAX: 44 (0)1422 328025

M3 Solution Center East Kilbride

The Baird Building, Rankine Avenue, Scottish Enterprise
Technology Park, East Kilbride G75 0QF, UNITED
KINGDOM
TEL: 44 (0)1355 581170 FAX: 44 (0)1355 581171

France

Mitutoyo France

Paris Nord 2-123 rue de la Belle Etoile, BP 59267 ROISSY EN
FRANCE 95957 ROISSY CDG CEDEX, FRANCE
TEL: 33 (0)149 38 35 00

M3 Solution Center LYON

Parc Mail 523, cours du 3ème millénaire, 69791 Saint-Priest,
FRANCE
TEL: 33 (0)149 38 35 70

M3 Solution Center STRASBOURG

Parc de la porte Sud, Rue du pont du péage, 67118
Geispolsheim, FRANCE
TEL: 33 (0)149 38 35 80

M3 Solution Center CLUSES

Espace Scionzier 480 Avenue des Lacs, 74950 Scionzier,
FRANCE
TEL: 33 (0)1 49 38 35 90

M3 Solution Center TOULOUSE

12 rue de Caulet, Cellule B08, 31300 TOULOUSE, FRANCE
TEL: 33 (0)1 49 38 42 90

M3 Solution Center RENNES

ZAC Mivoie
Le Vallon
35230 Noyal-Châtillon sur Seiche, FRANCE
TEL: 33 (0)1 49 38 42 10

Italy

MITUTOYO ITALIANA S.r.l.

CORSO EUROPA, 7 - 20020 LAINATE (MI), ITALY
TEL: 39 (0)2935781 FAX: 39 (0)29373290-93578255

M3 Solution Center TORINO

VIA BRANDIZZO, 133/F - 10088 VOLPIANO (TO), ITALY
TEL: 39 (0)2935 78282 FAX: 39 (0)2935 78255

M3 Solution Center CHIETI

Contrada Santa Calcagna - 66020 Rocca S. Giovanni (CH),
ITALY
TEL: 39 (0)2935 78280 FAX: 39 (0)2935 78255

M3 Solution Center PADOVA

VIA G. GALILEI 21/F - 35035 MESTRINO (PD), ITALY
TEL: 39 (0)2935 78268 FAX: 39 (0)2935 78255

Belgium / Netherlands

Mitutoyo BeNeLux

Mitutoyo Belgium N.V.

Hogenakkerhoekstraat 8, 9150 Kruibeke, BELGIUM
TEL: 32 (0)3-2540444 FAX: 32(0)3-2540445

Mitutoyo Nederland B.V.

Wiltonstraat 25, 3905 KW Veenendaal,
THE NETHERLANDS
TEL: 31(0)318-534911 FAX: 31(0)318-534811

Sweden

Mitutoyo Scandinavia AB

Släntvägen 6, 194 61 Upplands Väsby, SWEDEN
TEL: 46 (0)8 594 109 50 FAX: 46 (0)8 590 924 10

M3 Solution Center Alingsas

Ängsvaktaregatan 3A, 441 38 Alingsas, SWEDEN
TEL: 46 (0)8 594 109 50 FAX: 46 (0)322 63 31 62

M3 Solution Center Värnamo

Storgatsbacken 1, 331 30 Värnamo, SWEDEN
TEL: 46 (0)8 594 109 50 FAX: 46 (0)370 463 34

Switzerland

Mitutoyo Schweiz AG

Steinackerstrasse 35, 8902 Urdorf, SWITZERLAND
TEL: 41 (0)447361150 FAX: 41(0)447361151

Mitutoyo Suisse SA

Rue Galilée 4, 1400 Yverdon-les Bains, SWITZERLAND
TEL: 41 (0)244259422 FAX: 41 (0)447361151

Poland

Mitutoyo Polska Sp.z o.o.

Ul.Graniczna 8A, 54-610 Wroclaw, POLAND
TEL: 48 (0)71354 83 50 FAX: 48 (0)71354 83 55

Czech Republic

Mitutoyo Cesko, s.r.o.

Dubská 1626, 415 01 Teplice, CZECH REP
TEL: 42 (0)417-514-011 FAX: 42 (0)417-579-867

Mitutoyo Česko M3 Solution Center Ivančice

Ke Karlovu 62/10, 664 91 Ivančice, CZECH REP
TEL: 42 (0)417-514-011 FAX: 42 (0)417-579-867

SERVICE NETWORK

*As of October 2016

Mitutoyo Česko M3 Solution Center Ostrava Mošnov
Mošnov 314, 742 51 Mošnov, CZECH REP
TEL: 42 (0)417-514-011 FAX:42 (0)417-579-867

Hungary

Mitutoyo Hungária Kft.
Záhony utca 7, D-épület / fsz, 1031 Budapest, HUNGARY
TEL: 36 (0)1 2141447 FAX: 36 (0)1 2141448

Romania

Mitutoyo Romania SRL
Strada DRUMUL GARII ODAI, Nr.1A, Show-room, Parter,
075100 OTOPENI-ILFOV, ROMANIA
TEL: 40 (0)311012088 FAX: +40 (0)311012089
Showroom in Brasov
Strada Ionescu Crum Nr.1, Brasov Business Park
Turnul 1, Mezanin, 500446 Brasov-Judetul Brasov,
ROMANIA
TEL/FAX: 40 (0)371020017

Russian Federation

Mitutoyo RUS LLC
13 Sharikopodshipnikovskaya, bld.2, 115088 Moscow,
RUSSIAN FEDERATION
TEL: 7 (0)495 7450 752

Finland

Mitutoyo Scandinavia AB Finnish Branch
Viherkiitäjä 2A, 33960, Pirkkala, Finland
TEL: 358 (0)40 355 8498

Austria

Mitutoyo Austria GmbH
Johann Roithner Straße 131 A-4050 Traun,
AUSTRIA
TEL: 43 (0)7229 23850 FAX: 43 (0)7229 23850-90

Singapore

Mitutoyo Asia Pacific Pte. Ltd.
Head office / M3 Solution Center
24 Kallang Avenue, Mitutoyo Building, SINGAPORE 339415
TEL:(65)62942211 FAX:(65)62996666

Malaysia

Mitutoyo (Malaysia) Sdn. Bhd.
Kuala Lumpur Head Office / M3 Solution Center
Mah Sing Intergrated Industrial Park, 4, Jalan Utarid U5/14,
Section U5, 40150 Shah Alam, Selangor, MALAYSIA
TEL:(60)3-78459318 FAX:(60)3-78459346
Penang Branch office / M3 Solution Center
No.30, Persiaran Mahsuri 1/2, Sunway Tunas, 11900 Bayan
Lepas, Penang, MALAYSIA
TEL:(60)4-6411998 FAX:(60)4-6412998
Johor Branch office / M3 Solution Center
No. 70, Jalan Molek 1/28, Taman Molek, 81100 Johor Bahru,
Johor, MALAYSIA
TEL:(60)7-3521626 FAX:(60)7-3521628

Thailand

Mitutoyo(Thailand)Co., Ltd.
Bangkok Head Office / M3 Solution Center
76/3-5, Chaengwattana Road, Kwaeng Anusaowaree, Khet
Bangkaen, Bangkok 10220, THAILAND
TEL:(66)2-080-3500 FAX:(66)2-521-6136
Cholburi Branch / M3 Solution Center
7/1, Moo 3, Tambon Bowin, Amphur Sriracha, Cholburi
20230, THAILAND
TEL:(66)3-834-5783 FAX:(66)3-834-5788

Amata Nakorn Branch / M3 Solution Center

700/199, Moo 1, Tambon Bankao, Amphur Phanthong,
Cholburi 20160, THAILAND
TEL:(66)3-846-8976 FAX:(66)3-846-8978

Indonesia

PT. Mitutoyo Indonesia
Head Office / M3 Solution Center
Jalan Sriwijaya No.26 Desa cibatu Kec. Cikarang Selatan
Kab. Bekasi 17530, INDONESIA
TEL: (62)21-2962 8600 FAX: (62)21-2962 8604

Vietnam

Mitutoyo Vietnam Co., Ltd
Hanoi Head Office / M3 Solution Center
No. 07-TT4, My Dinh - Me Tri Urban Zone, My Dinh 1 Ward,
Nam Tu Liem District, Hanoi, VIETNAM
TEL:(84)4-3768-8963 FAX:(84)4-3768-8960
Ho Chi Minh City Branch Office / M3 Solution Center
123 Dien Bien Phu Street,Ward 15,Binh Thanh District, Ho
Chi Minh City, VIETNAM
TEL:(84)8-3840-3489 FAX:(84)8-3840-3498

Mitutoyo Philippines, Inc.

Unit 2103, Bldg 2 GMV Center, 107 North Main Avenue,
Laguna Technopark, Binan, Laguna 4028, Philippines
TEL:(63)49 544 0272 FAX:(63)49 544 0272

India

Mitutoyo South Asia Pvt. Ltd.
Head Office / M3 Solution Center
C-122, Okhla Industrial Area, Phase-I, New Delhi-110 020,
INDIA
TEL:91(11)2637-2090 FAX:91(11)2637-2636
MSA Gurgaon technical center
Plot No. 65, Phase-IV, Udyog Vihar, Gurgaon – 122016
TEL : 91 (0124) – 2340294
Mumbai Region Head office
303, Sentinel Hiranandani Business Park Powai,
Mumbai-400 076, INDIA
TEL:91(22)2570-0684, 837, 839 FAX:91(22)2570-0685
Pune Office / M3 Solution Center
G2/G3, Pride Kumar Senate, F.P. No. 402 Off. Senapati Bapat
Road, Pune-411 016, INDIA
TEL:91(20)6603-3643, 45, 46 FAX:91(20)6603-3644

Vadodara office

S-1&S-2, Olive Complex, Nr. Haveli, Nizampura,
Vadodara-390 002, INDIA
TEL: 91 265-2750781 FAX: (91) 265-2750782

Bengaluru Region Head office / M3 Solution Center
No. 5, 100 Ft. Road, 17th Main, Koramangala, 4th Block,
Bengaluru-560 034, INDIA
TEL:91(80)2563-0946, 47, 48 FAX:91(80)2563-0949

Chennai Office / M3 Solution Center

No. 624, Anna Salai Teynampet, Chennai-600 018, INDIA
TEL:91(44)2432-8823, 24, 27, 28 FAX:91(44)2432-8825

Kolkata Office

Unit No. 1208,Om Tower, 32,J.L..Nehru Road, Kolkata-700
071, INDIA
Tel: 91 33-22267088/40060635 Fax: (91) 33-22266817

Taiwan

Mitutoyo Taiwan Co., Ltd. / M3 Solution Center Taipei
4F., No.71, Zhouzi St., Neihu Dist.,Taipei City 114, TAIWAN
(R.O.C.)
TEL:886(2)5573-5902 FAX:886(2)8752-3267

SERVICE NETWORK

*As of October 2016

Taichung Branch / M3 Solution Center Taichung

1F., No.758, Zhongming S. Rd., South Dist., Taichung City
402, TAIWAN(R.O.C.)
TEL:886(4)2262-9188 FAX:886(4) 2262-9166

Kaohsiung Branch / M3 Solution Center Kaohsiung

1F., No.31-1, Haibian Rd., Lingya Dist., Kaohsiung City 802,
Taiwan (R.O.C.)
TEL:886(7)334-6168 FAX:886(7)334-6160

South Korea

Mitutoyo Korea Corporation

Head Office / M3 Solution Center

(Sanbon-Dong, Geumjeong High View Build.), 6F, 153-8,
Ls-Ro, Gunpo-Si, Gyeonggi-Do, 15808 KOREA
TEL:82(31)361-4200 FAX:82(31)361-4202

Busan Office / M3 Solution Center

(3150-3, Daejeo 2-dong) 8,YutongdANJI 1-ro 49beon-gil,
Gangseo-gu, Busan, 46721 KOREA
TEL:82(51)718-2140 FAX:82(51)324-0104

Daegu Office / M3 Solution Center

371-12, Hosan-Dong, Dalseo-Gu, Daegu, 42704, KOREA
TEL:82(53)593-5602 FAX:82(53)593-5603

China

Mitutoyo Measuring Instruments (Shanghai) Co., Ltd.

12F, Nextage Business Center, No.1111 Pudong South Road,
Pudong New District ,Shanghai 200120, CHINA
TEL:86(21)5836-0718 FAX:86(21)5836-0717

Suzhou Office / M3 Solution Center China (Suzhou)

No. 46 Baiyu Road, Suzhou 215021, CHINA
TEL:86(512)6522-1790 FAX:86(512)6251-3420

Wuhan Office

RM. 1701, Wuhan Wanda Center, No. 96, Linjiang Road,
Wuchang District, Wuhan Hubei 430060, CHINA
TEL:86(27)8544-8631 FAX:86(27)8544-6227

Chengdu Office

1-705, New Angle Plaza, 668# Jindong Road, Jinjiang
District, Chengdu, Sichuan 610066,CHINA
TEL:86(28)8671-8936 FAX:86(28)8671-9086

Hangzhou Office

RM.804, Eastern International Business Center Building 1,
No.600 Jinsha Road
Hangzhou Economic and Technological Development Zone,
310018, China
TEL: 86(571)8288-0319 FAX: 86(571)8288-0320

Tianjin Office / M3 Solution Center Tianjin

RM. A+B+C 15/F, TEDA Building, No.256 Jie-fang Nan Road
Hexi District,Tianjin 300042, CHINA
TEL:86(22)5888-1700 FAX:86(22)5888-1701

Changchun Office

RM.1801, Kaifa Dasha, No. 5188 Ziyu Avenue, Changchun
130013, CHINA
TEL:86(431)8461-2510 FAX:86(431)8464-4411

Qingdao Office / M3 Solution Center Qingdao

Room 638, 6F, No.192 Zhengyang Road, Chengyang District,
Qingdao, Shandong, 266109, CHINA
TEL:86(532)8096-1936 FAX:86(532)8096-1937

Xi'an Office

RM. 805, Xi'an International Trade Center, No. 196 Xiaozhai
East Road, Xi'an, 710061, CHINA
TEL:86(29)8538-1380 FAX:86(29)8538-1381

Dalian Office / M3 Solution Center Dalian

RM.1008, Grand Central IFC, No.128 Jin ma Road,Economic
Development Zone,Dalian 116600, CHINA
TEL:86(411)8718 1212 FAX:86(411)8754-7587

Zhengzhou Office

Room1801,18/F,Unit1,Building No.23, Shangwu Inner Ring
Road, Zhengdong New District,Zhengzhou City , Henan
Province, 450018,CHINA

TEL:86(371)6097-6436 FAX:86(371)6097-6981

Mitutoyo Leeport Metrology (Hong Kong) Limited

Rm 818, 8/F, Vanta Industrial Centre, No.21-33, Tai Lin Pai
Road, Kwai Chung, NT, Hong Kong
TEL:86(852)2992-2088 FAX:86(852)2670-2488

Mitutoyo Leeport Metrology (Dongguan) Limited /

M3 Solution Center Dongguan

No.26, Guan Chang Road, Chong Tou Zone, Chang An Town,
Dong Guan, 523855 CHINA

TEL:86(769)8541 7715 FAX:86(769)-8541 7745

Mitutoyo Leeport Metrology (Dongguan) Limited – Fuzhou office

Rm 2104, City Commercial Centre, No.129 Wu Yi Road N.,
Fuzhou City, Fujian Province, CHINA

TEL 86 591 8761 8095 FAX 86 591 8761 8096

Mitutoyo Leeport Metrology (Dongguan) Limited – Changsha office

Room 2207, Shiner International Plaza, No. 88, Kaiyuan
Middle Road, Changsha City, Hunan, China
TEL 86 731 8401 9276 FAX 86 731 8401 9376

Mitutoyo Measuring Instruments (Suzhou) Co., Ltd.

No. 46 Baiyu Road, Suzhou 215021, CHINA

TEL:86(512)6252-2660 FAX:86(512)6252-2580

U.S.A.

Mitutoyo America Corporation

965 Corporate Boulevard, Aurora, IL 60502, U.S.A.
TEL:1-(630)820-9666 Toll Free No. 1-(888)648-8869
FAX:1-(630)978-3501

M3 Solution Center-Illinois

965 Corporate Boulevard, Aurora, IL 60502, U.S.A.
TEL:1-(888)648-8869 FAX:1-(630)978-3501

M3 Solution Center-Ohio

6220 Hi-Tek Court, Mason, OH 45040, U.S.A.
TEL:1-(888)648-8869 FAX:1-(513)754-0718

M3 Solution Center-Michigan

44768 Helm Street, Plymouth, MI 48170, U.S.A.
TEL:1-(888)648-8869 FAX:1-(734)459-0455

M3 Solution Center-California

16925 E. Gale Avenue, City of Industry, CA 91745, U.S.A.
TEL:1-(888)648-8869 FAX:1-(626)369-3352

M3 Solution Center-North Carolina

11515 Vanstory Drive, Suite 140, Huntersville, NC 28078, U.S.A.
TEL:1-(888)648-8869 FAX:1-(704)875-9273

M3 Solution Center-Alabama

2100 Riverchase Center, Suite 106, Hoover, AL 35244, U.S.A
TEL:1-(888)648-8869 FAX:1-(205)988-3423

M3 Solution Center-Washington

1000 SW 34th Street Suite G, Renton WA 98057 USA
TEL:1-(888)648-8869

M3 Solution Center-Texas

4560 Kendrick Plaza Drive, Suite 120, Houston, TX 77032
TEL:1-(888)648-8869 FAX:1-(281)227-0932

M3 Solution Center-Massachusetts

753 Forest Street, Suite 110, Marlborough,MA 01752
TEL:1-(888)648-8869 FAX:1-(508)485-0782

Mitutoyo America Corporation Calibration Lab

965 Corporate Boulevard, Aurora, IL 60502, U.S.A.
TEL:1-(888)648-8869 FAX:1-(630)978-6477

Micro Encoder, Inc.

11533 NE 118th Street, Kirkland, WA 98034, U.S.A.

TEL:1-(425)821-3906 FAX:1-(425)821-3228

Micro Encoder Los Angeles, Inc.

16925 E. Gale Avenue, City of Industry, CA 91745 USA
TEL:1-(626)271-1075

SERVICE NETWORK

*As of October 2016

Canada

Mitutoyo Canada Inc.

2121 Meadowvale Blvd., Mississauga, Ont. L5N 5N1., CANADA

TEL:1-(905)821-1261 FAX:1-(905)821-4968

Montreal Office

7075 Place Robert-Joncas Suite 129, Montreal, Quebec H4M 2Z2, CANADA

TEL:1-(514)337-5994 FAX:1-(514)337-4498

Brazil

Mitutoyo Sul Americana Ltda.

AV. Joao Carlos da Silva Borges, 1240 - CEP 04726-002 - Santo Amaro -São Paulo - SP, BRASIL

TEL:55(11)5643-0000 FAX:55(11)5641-3722

Regional Office

Belo Horizonte - MG

TEL:55(31)3531-5511 FAX:55(31)3594-4482

Rio Grande do Sul / PR, SC

TEL/FAX:55(51)3342-1498 TEL:55(51)3337-0206

Rio de Janeiro - RJ

TEL:55(21)3333-4899 TEL/FAX:55(21)2401-9958

Santa Barbara D'Oeste - SP

TEL:55(19)3455-2062 FAX:55(19)3454-6103

Norte, Nordeste, Centro Oeste

TEL:55(11)5643-0060 FAX:55(11)5641-9029

Escriptorio BA / SE

TEL/FAX:55(71)3326-5232

Factory(Suzano)

Rodovia Índio Tibirica 1555, BAIRRO RAFFO, CEP 08620-000 SUZANO-SP, BRASIL

TEL:55(11)4746-5858 FAX:55(11)4746-5936

Argentina

Mitutoyo Sul Americana Ltda.

Argentina Branch

Av. B. Mitre 891/899 – C.P. (B1603CQJ) Vicente López –Pcia.

Buenos Aires – Argentina

TEL:54(11)4730-1433 FAX:54(11)4730-1411

Sucursal Cordoba

Av. Amadeo Sabattini, 1296, esq. Madrid Bº Crisol Sur – CP

5000, Cordoba, ARGENTINA

TEL/FAX:54 (351) 456-6251

Mexico

Mitutoyo Mexicana, S. A. de C. V

Prolongación Industria Eléctrica No. 15 Parque Industrial Naucalpan

Naucalpan de Juárez, Estado de México C.P. 53370, MÉXICO

TEL: 52 (01-55) 5312-5612

M3 Solution Center Monterrey

Av. Morones Prieto No 914, Oriente Local, 105 Plaza Matz

Col. La Huerta, C.P. 67140 Guadalupe, N.L., MÉXICO

TEL: 52 (01-81) 8398-8227, 8398-8228, 8398-8244, 8398-8245

and 8398-8246

FAX: 52 (01-81) 8398-8245

M3 Solution Center Tijuana

Av. 2o. eje Oriente-Poniente No. 19075 Int. 18 Col. Cd.

Industrial Nueva Tijuana C.P. 22500 Tijuana, B. C., MEXICO

TEL: 52 (01-664) 647-5024

M3 Solution Center Querétaro

Av. Constituyentes Ote. 71-B, Fraccionamiento Observatorio

C.P. 76040 Querétaro, Qro., MÉXICO

TEL: 52 (01-442) 340-8018, 340-8019 and 340-8020

FAX: 52 (01-442) 340-8017

Aguascalientes Office / M3 Solution Center

Av. Aguascalientes No. 622, Local 15 Centro Comercial El Cilindro Fracc. Pulgas Pandas Norte, C.P. 20138, Aguascalientes, Ags. MÉXICO

TEL: 52 (01-449) 174-4140 and 174-4143

Irapuato Office / M3 Solution Center

Boulevard a Villas de Irapuato No. 1460 L.1 Col. Ejido Irapuato C.P. 36643 Irapuato, Gto., MÉXICO

TEL: 52 (01-462) 144-1200 and 144-1400

Mitutoyo Corporation

20-1, Sakado 1-Chome, Takatsu-ku, Kawasaki-shi, Kanagawa 213-8533, Japan

Tel: +81 (0)44 813-8230 Fax: +81 (0)44 813-8231

Home page: <http://www.mitutoyo.co.jp/global.html>

For the EU Directive, Authorized representative and importer in the EU:

Mitutoyo Europe GmbH

Borsigstrasse 8-10, 41469 Neuss, Germany