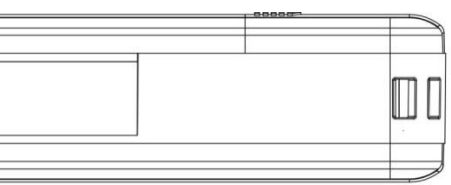
Garment Inspection and Reporting System

成衣检测及报表系统

GS-188

User Manual

用户手册



GIRS™

Warning:

Changes or modifications to this equipment and/or program not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.

NOTE:

T HIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the equipment and/or the USB receiver

Increase the separation between the equipment and USB receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

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1. Introduction

Thank you for purchase of our GIRS model GS-188 Garment Inspection and Reporting System. Our product and software is intended to be used in the inspection process of manufactured garments. For the best result of our system, please read this manual carefully and follow the instructions step by step.

The product can be used on a stand-alone or networked multi-user environment. The application software is designed to be simple and user-friendly. However, as it involves selection of proper computer configuration and installation of software programs, it would require relevant computer knowledge. It is strongly recommended for you to consult your computer or IT staff to select and set-up the correct network and hardware configuration so that the system can achieve the best efficiency.

The digital measuring tape and software program are specially and uniquely designed for this system. The manufacturer does not guarantee proper function and performance of this system if other measuring device or software program were being used.

2. Getting Started

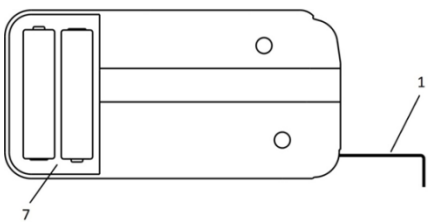
The following items should come with your purchased package:

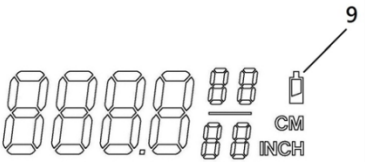
- Digital measuring tape
- Software diskette
- USB receiver
- User manual
- Lanyard holder
- Quick start guide

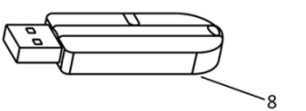
Make available the desktop or laptop computer, with appropriate operating system and configuration as specified in Chapter 5.

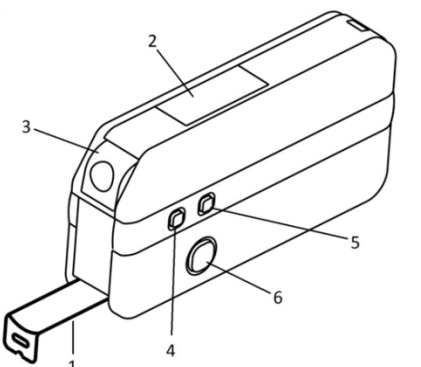
(Note : The measuring tape and USB receiver are matched one-to-one before leaving factory. If you have more than one set of this product used in your site, do not mix the USB receiver with another measuring tape. The label on the USB receiver and the label inside the battery compartment of the measuring tape carry the same serial number)

3. Digital Measuring Tape Illustrations









4. Use Your Measuring Tape

4.1 Power On

Install two AAA size batteries into the battery compartment (7). The measuring tape will be powered on by pressing any one of the key switches (4, 5 or 6).

4.2 Measure, Lock and Unlock

Start measuring by pulling out the tape (1).
When stop pulling, the tape will be locked automatically at that position.
To unlock the tape, press the unlock button (3), the tape will be retracted.

4.3 Unit Conversion

Measured dimensions will be shown on the display unit (2) in CM or INCH.
By pressing the IN-CM key switch (4), the dimension on the display unit can be converted from CM to INCH or from INCH to CM.

4.4 Set Zero

When the tape is fully retracted, the reading on the display unit should be “0.0”. In case, when the tape is fully retracted and the reading on the display unit is not “0.0”, you should press the ZERO key switch (5). The reading on the display unit will be set to “0.0”.

4.5 USB Receiver

Plug in the USB receiver (8) into any USB port of your computer. The LED on the receiver will light on.

Note : The measuring tape and USB receiver are one-to-one matching pair before leaving factory. If you have more than one set of this product used in your site, do not mix the USB receiver with another measuring tape. The label on the USB receiver and the label inside the battery compartment of the measuring tape should carry the same serial number)

Install and startup your database program as per Chapter 5. Select the subject you want to inspect and measure.

4.6 Data Transfer

When a dimension is measured, by pressing the “TRANSFER” key switch (6), the reading on the display unit will be transferred to your computer via the USB receiver (8). You should hear a “DING” sound from your computer to confirm the data has been transferred and received.

4.7 Power Off

When the measuring tape is left idle for 60 seconds, the equipment will be automatically powered off.

4.8 Battery Replacement

When the battery level of the measuring tape drops to the pre-set low limit, the battery-low warning signal (9) on the display unit will flash. The measuring tape can be used for a few more hours. However, you should prepare to replace the old batteries with new batteries.

5. Program Installation

5.1 Computer System Requirement

GIRS is designed to operate in Microsoft Windows under a database platform MS SQL Server 2012 Express. (SQL Server 2012 Express can be downloaded freely from MS Download Center, please read the system requirement therein)

Note : Please install SQL Server 2012 Express before installation of GIRS

The following Window Operating System and computer configuration is required :

Windows 7, Windows Vista SP2, Windows Server 2008 R2 or Windows Server 2008 SP2

- For 32-bit systems
  - ✓ Computer with Intel or compatible 1GHz or faster processor (2 GHz or faster is recommended.)
- For 64-bit systems
  - ✓ Computer with Intel or compatible 1.4 GHz or faster processor
- Minimum of 512 MB of RAM (2 GB or more is recommended.)
- 2.2 GB of available hard disk space

5.2 Installation of Database Server

SQL Server 2012 Express can be downloaded freely from the following site :

Microsoft Download Center :
English version :

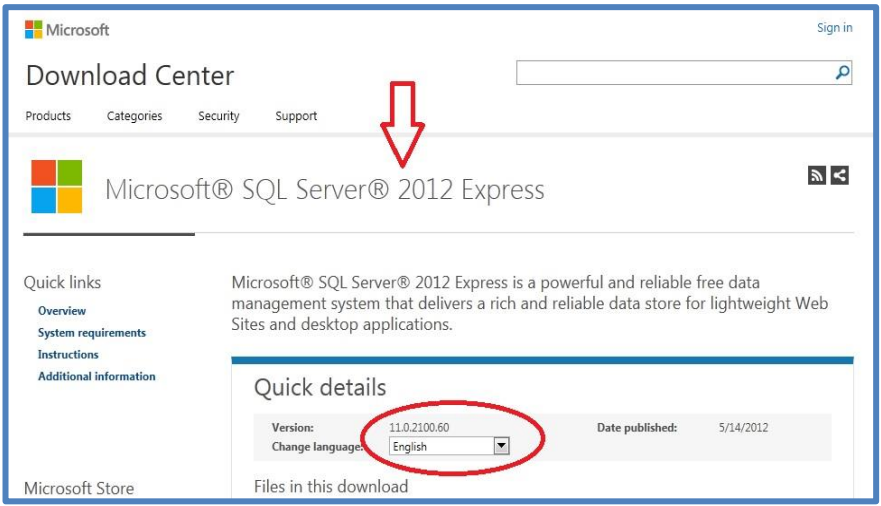
http://www.microsoft.com/en-us/download/details.aspx?id=29062

SQL Server 2012 Express installation needs the Windows foundation program, Microsoft .Net Framework 3.5 SP1, which is normally pre-installed during installation of MS Windows. If the foundation program is missing in your Windows system, you will be notified to install it during SQL Server installation. Please follow the on-screen instruction.

Remark: Only one computer installed with SQL Server is needed in multi-PC network environment, also refer to Chapter 7

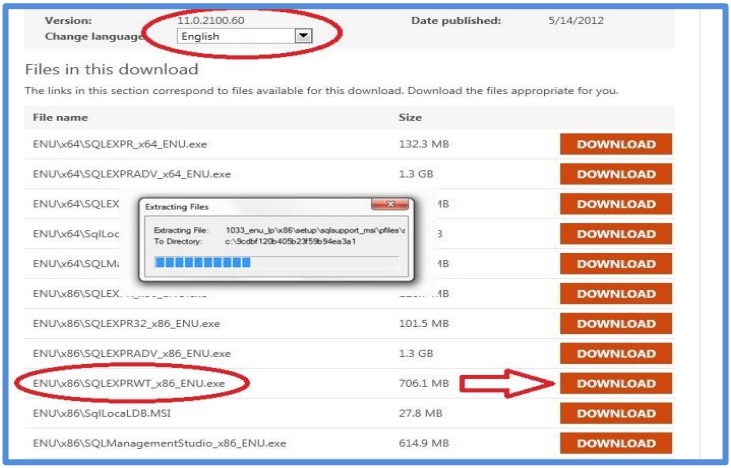
5.2 Installation of Database Server (cont.)

Please follow the instruction of MS Download Center to install :



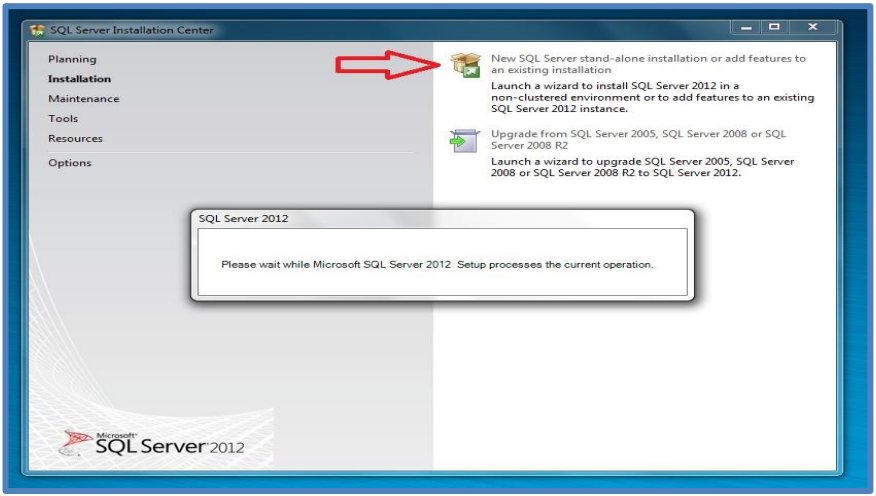
5.2 Installation of Database Server (cont.)

Select Language, download “SQLEXPRWT_x86” (for 32bit/64 bit systems) to install SQL Server 2012 Express.



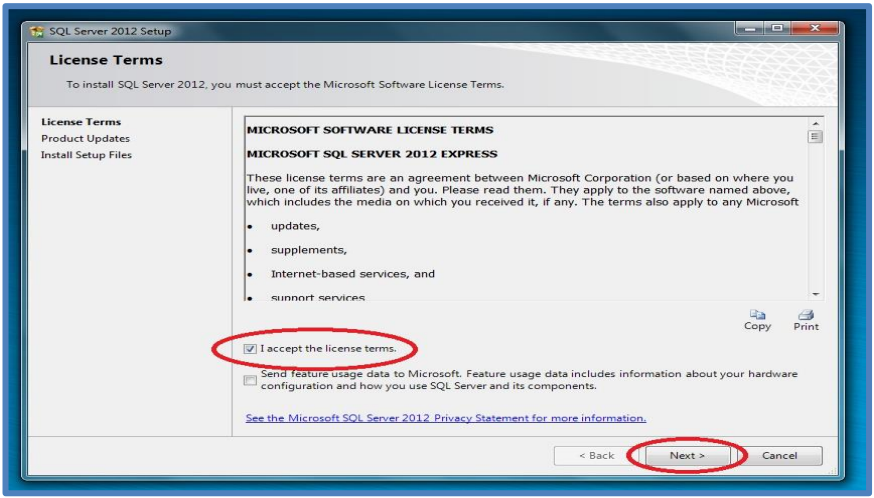
5.2 Installation of Database Server (cont.)

Select “New Installation”



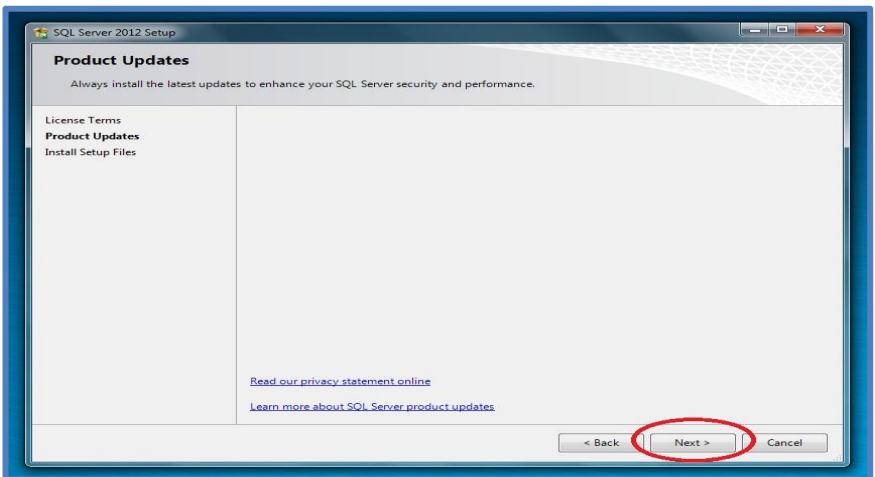
5.2 Installation of Database Server (cont.)

Accept the License Terms, then click “Next”



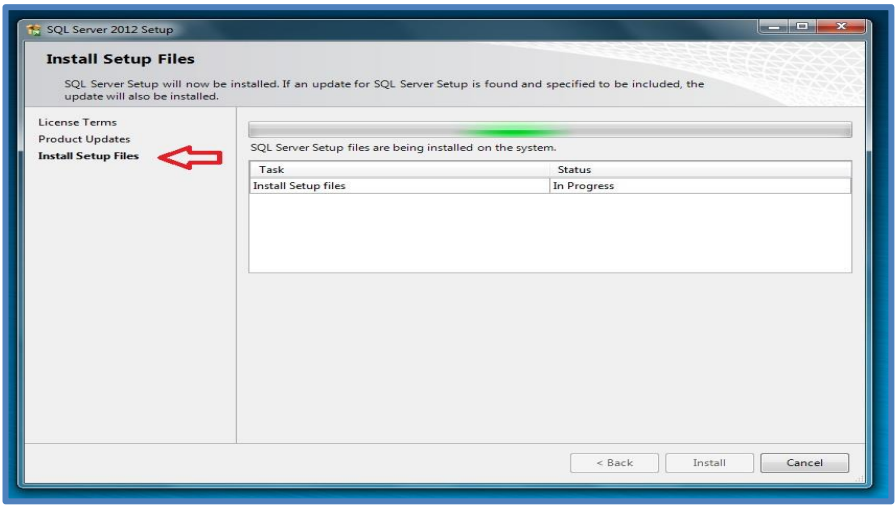
5.2 Installation of Database Server (cont.)

Installation will check for product updates when internet service is connected. Click “Next” to continue…



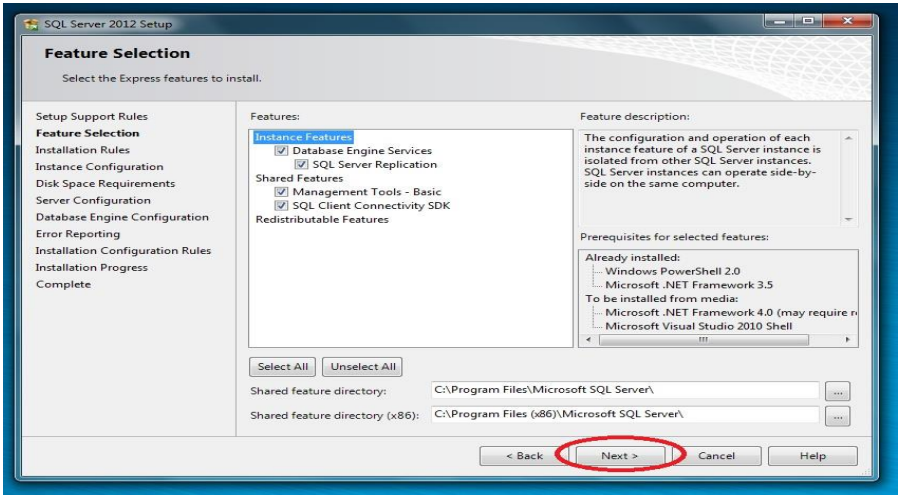
5.2 Installation of Database Server (cont.)

Installation in progress…



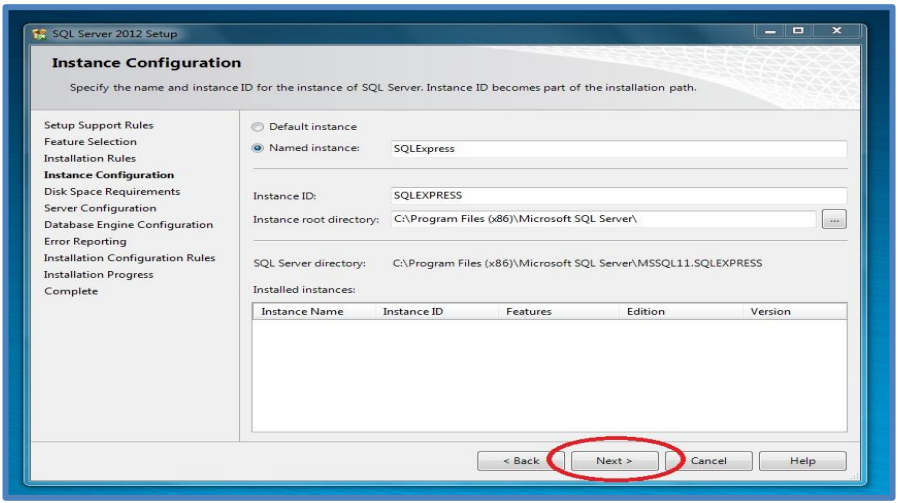
5.2 Installation of Database Server (cont.)

Click “Next” to continue…



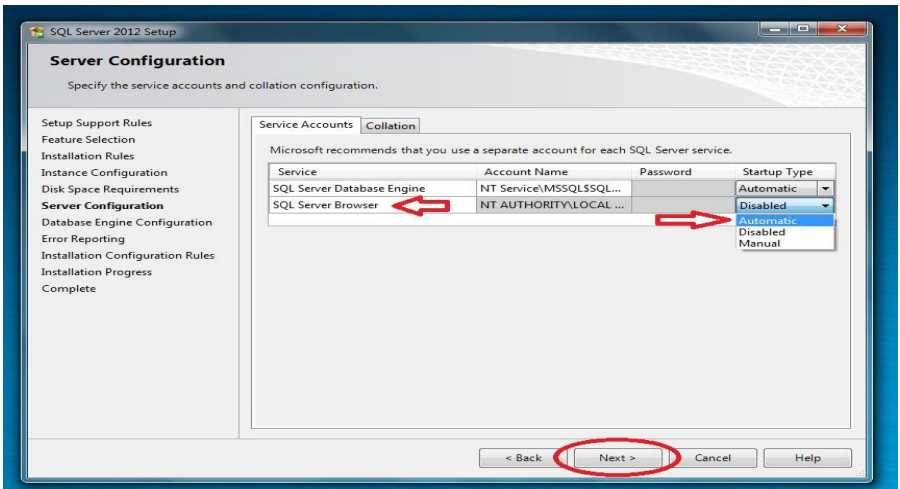
5.2 Installation of Database Server (cont.)

Click “Next” to continue…



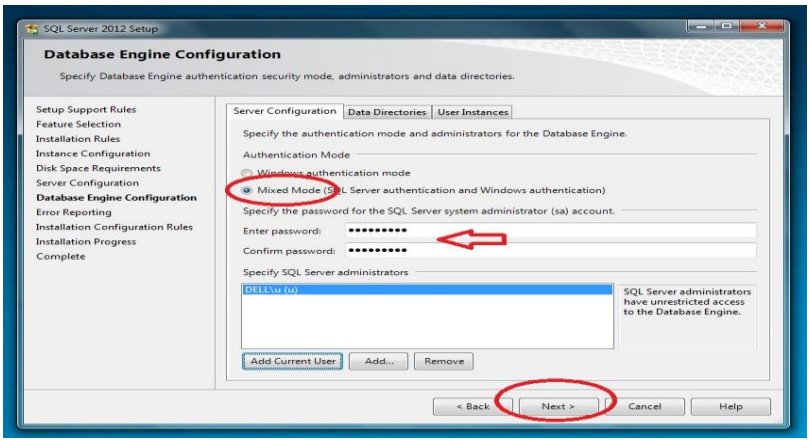
5.2 Installation of Database Server (cont.)

Set “SQL Server Browser” to Automatic and click “Next” to continue…



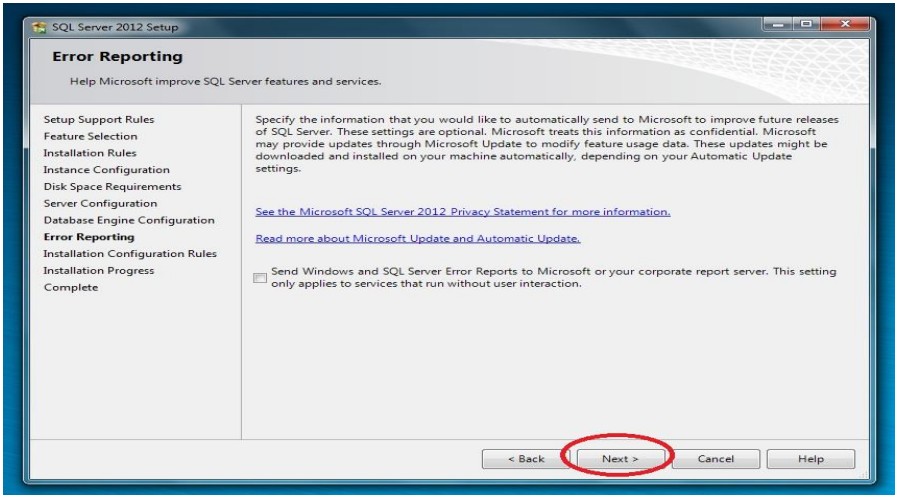
5.2 Installation of Database Server (cont.)

Set “Authentication Mode” to “Mixed Mode”, then enter and confirm password.
E.g. Password = GIRSAdmin, but can choose another password.
Click “Next” to continue…



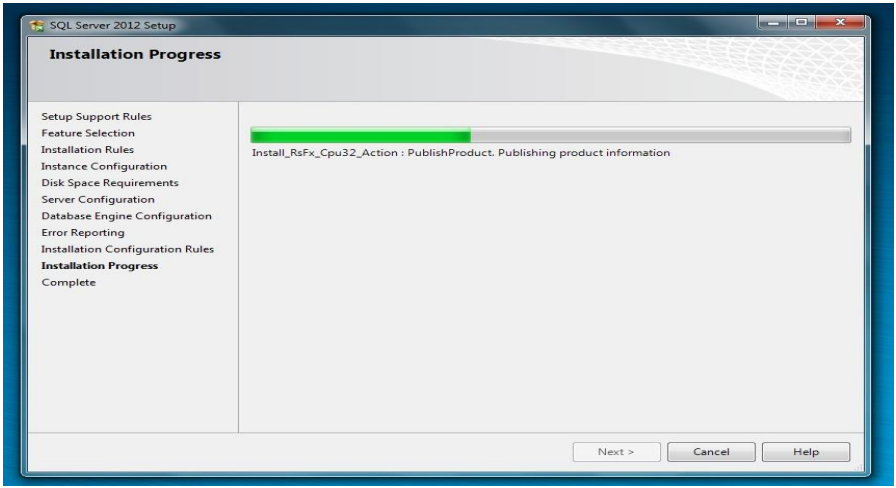
5.2 Installation of Database Server (cont.)

Click “Next” to continue…



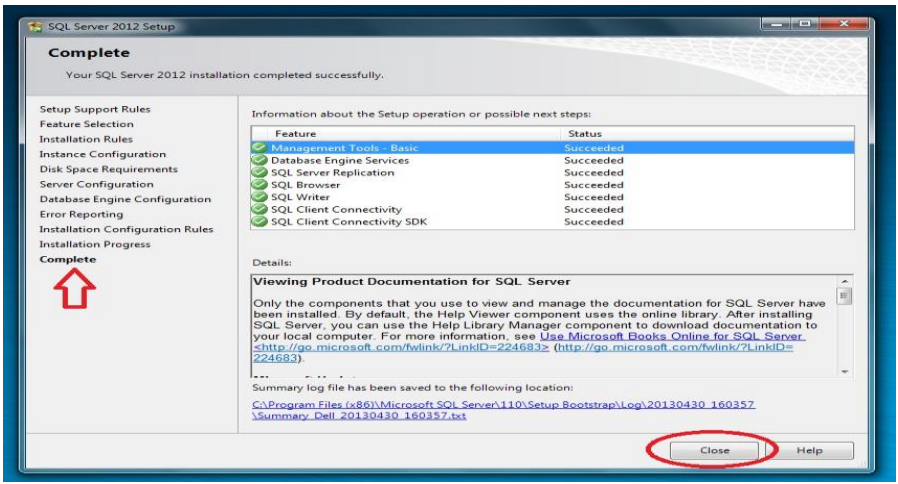
5.2 Installation of Database Server (cont.)

Installation in progress…



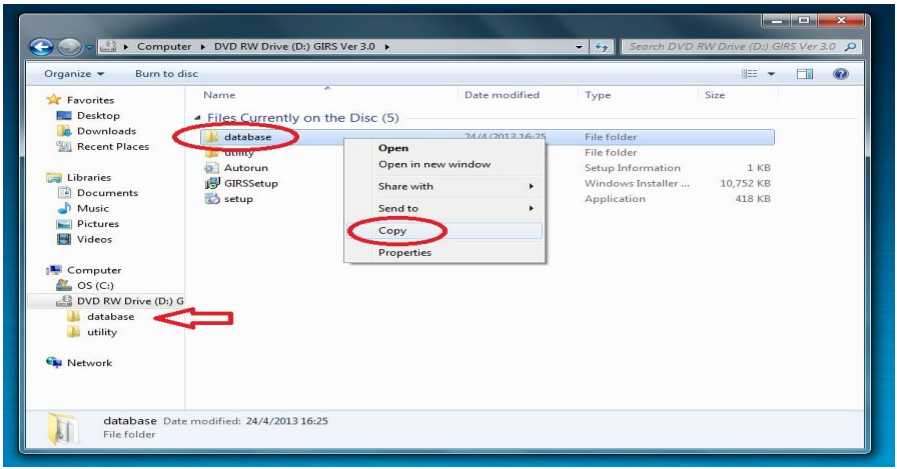
5.2 Installation of Database Server (cont.)

Installation of SQL Server is completed.
"Close" SQL Server 2012 Setup.



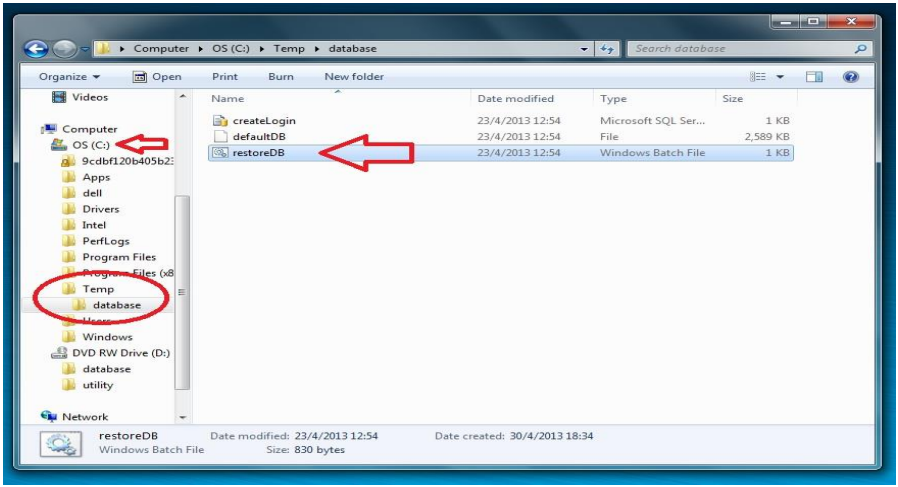
5.3 SQL Server Setting

Place the GIRS program disc in the CD-Rom tray. Open file folder to view. Copy the folder D:\database to C:\Temp\



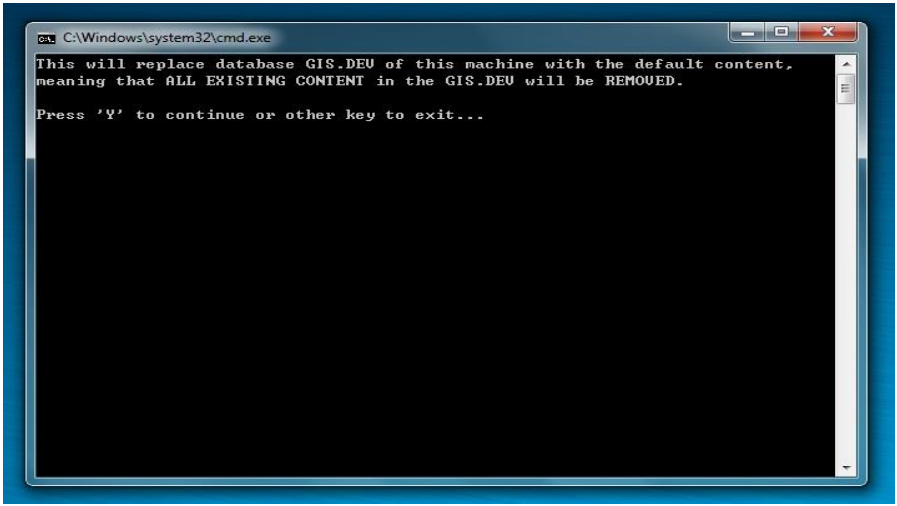
5.3 SQL Server Setting (cont.)

Double click to run “restoreDB” at C:\Temp\database



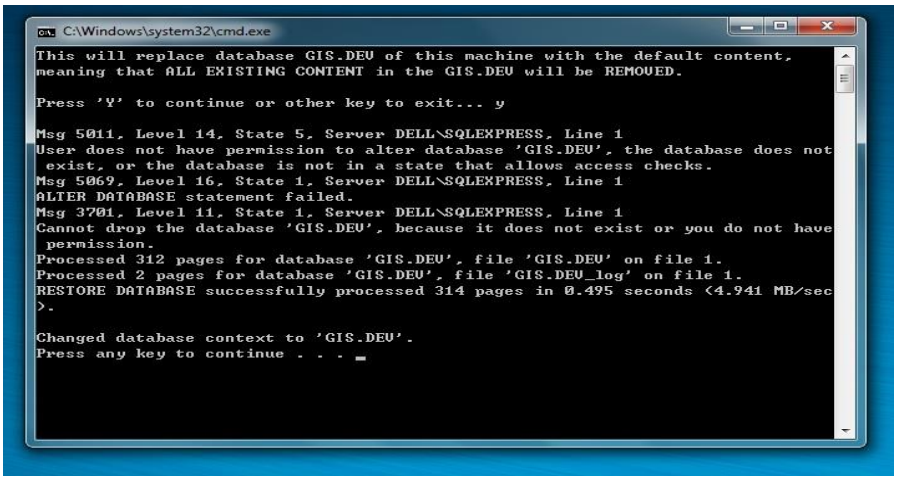
5.3 SQL Server Setting (cont.)

Press ‘Y’ to continue…



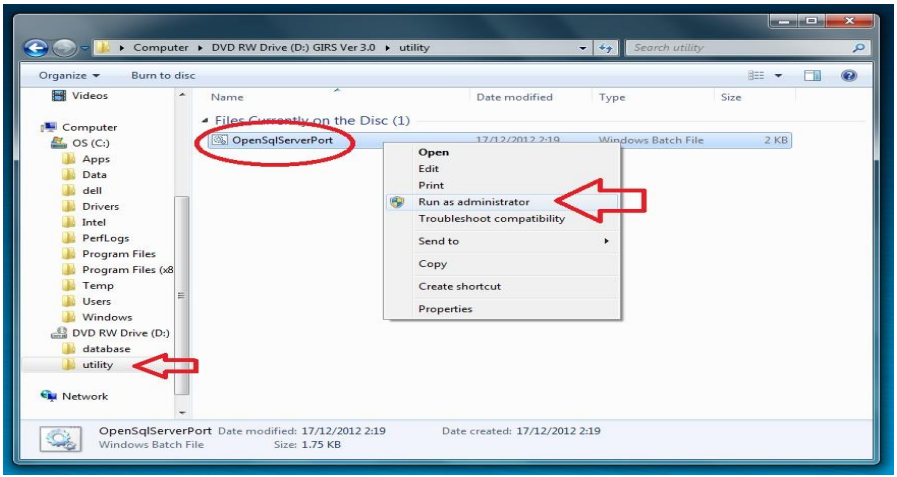
5.3 SQL Server Setting (cont.)

Press any key to continue…
Now the database of SQL Server is restored.



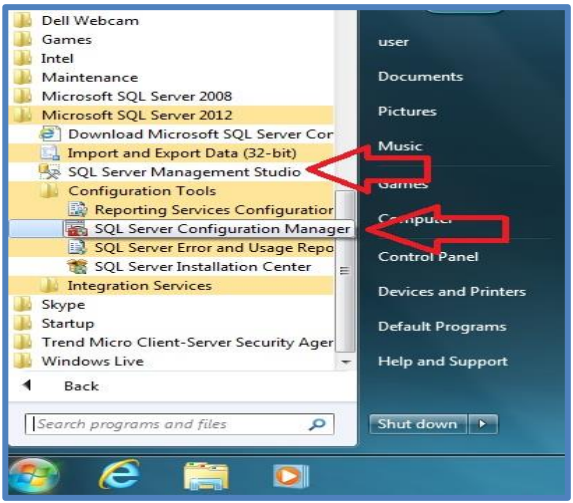
5.3 SQL Server Setting (cont.)

Use administrator mode to run D:\utility\OpenSqlServerPort in GIRS program disc (open SQL server port)



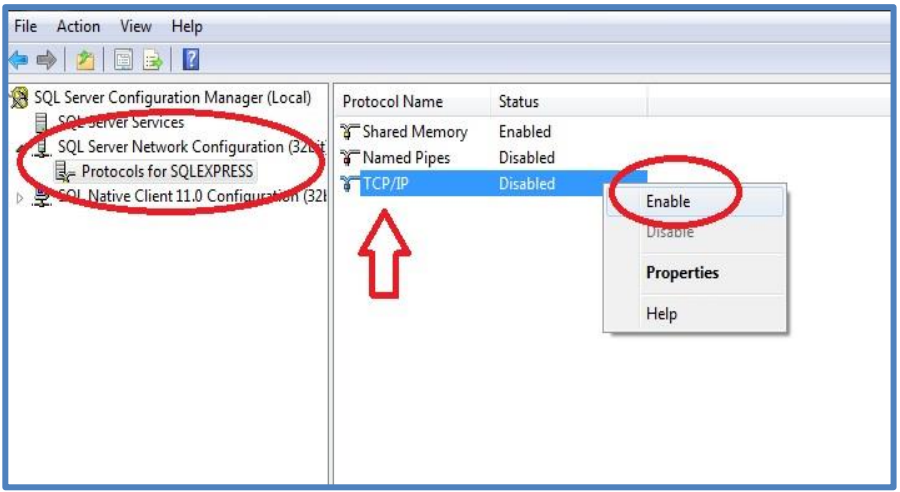
5.3 SQL Server Setting (cont.)

Open SQL Server Configuration Manager



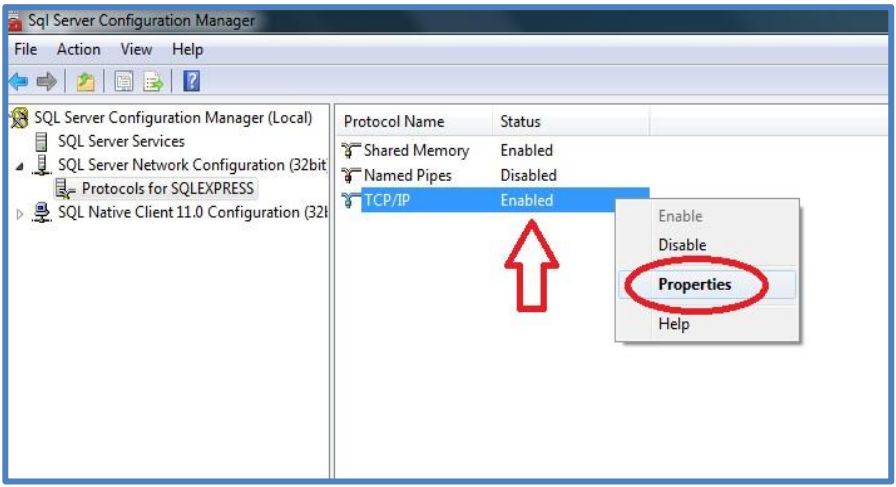
5.3 SQL Server Setting (cont.)

Enable TCP/IP from SQL Server Configuration Manager



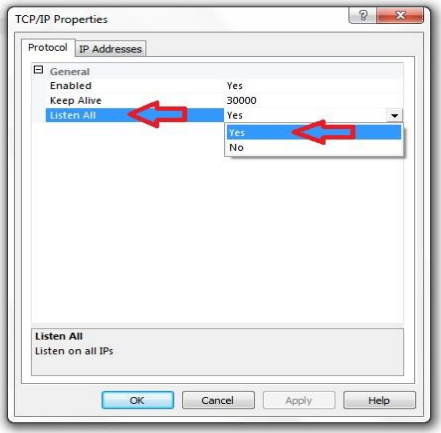
5.3 SQL Server Setting (cont.)

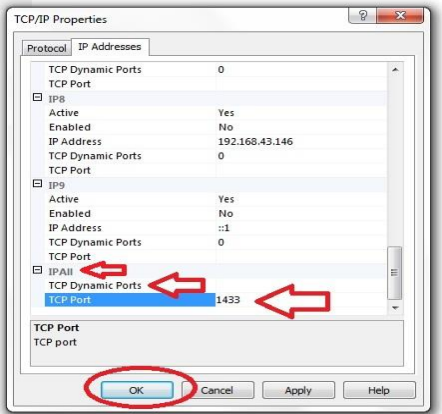
Open Properties of TCP/IP



5.3 SQL Server Setting (cont.)

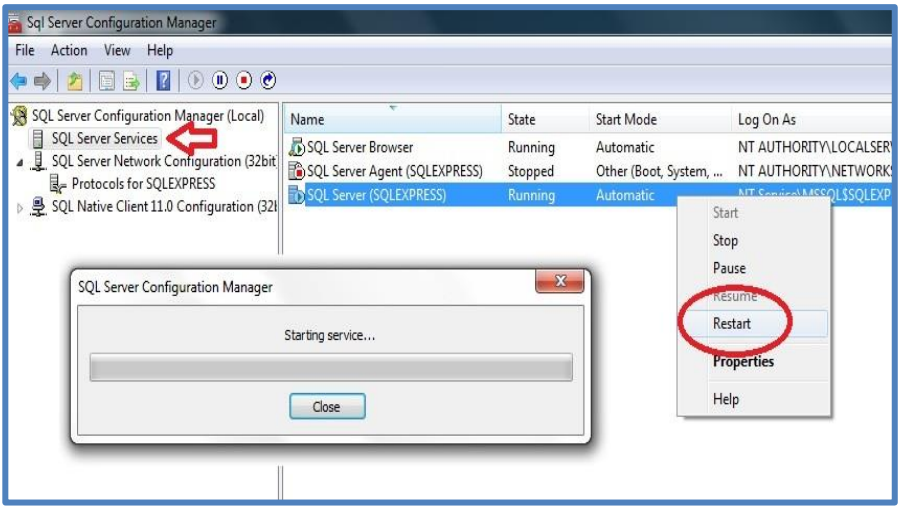
Under Protocol, “Listen All” is set to ‘Yes’;
For “IPAll” under ‘IP Addresses’, delete any data in TCP Dynamic Ports and set TCP Port to 1433.





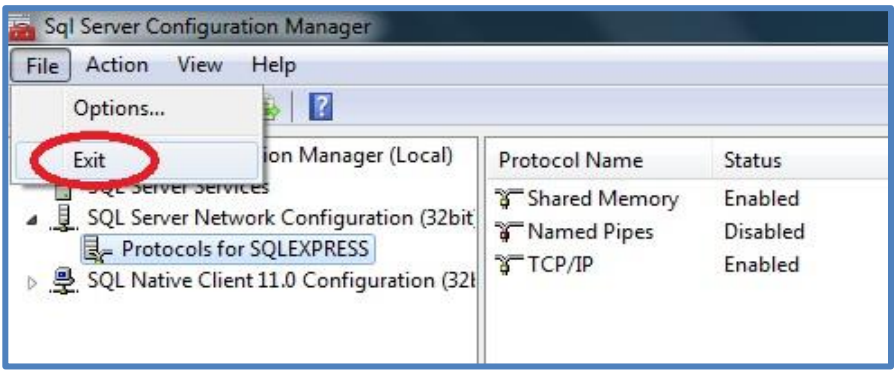
5.3 SQL Server Setting (cont.)

Restart the SQL Server…



5.3 SQL Server Setting (cont.)

Exit the SQL Server Configuration Manager



Now continue with the installation of GIRS program…

5.4 Installation of GIRS

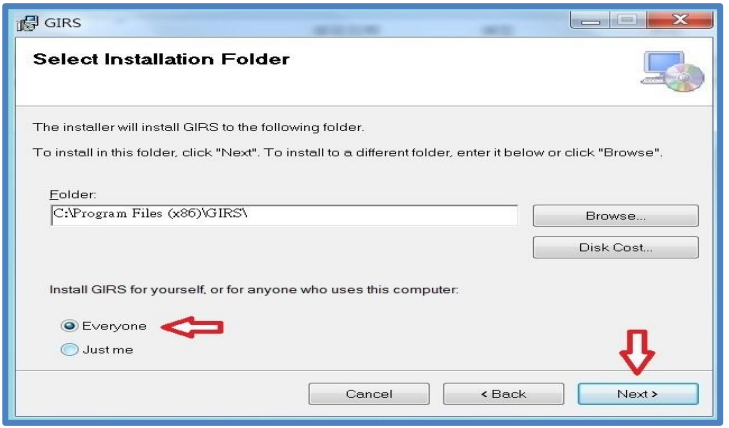
Place GIRS Program Disc into CD-Rom drive of your computer
The autoplay dialogue box will pop up; (The GIRS version no. may not be the same since the most update version will be included)
Select “setup.exe”

5.4 Installation of GIRS (cont.)

Click “Next” to continue…

5.4 Installation of GIRS (cont.)

Select “Everyone”, then click “Next” to complete GIRS installation



“Close” to complete installation of GIRS.

5.4 Installation of GIRS (cont.)

The following icons will be setup at computer's desktop:

GIRS Supervisor

GIRS Inspector

6. How to Use GIRS

There are two main parts of the GIRS program : the “Supervisor” and the “Inspector”, for different groups of user.

The Supervisor program is to be used by the System Administrator, management and supervisor.
The Inspector program is to be used by the internal Inspectors or customer representatives.

The program defines three groups of users :

1. Admin (system administrator, management)
2. Supervisor
3. Not a Supervisor

For ”Not a Supervisor”, there are sub-groups of :

1. Not an inspector
2. In-line inspector
3. Final inspector
4. Customer

6. How to Use GIRS (cont.)

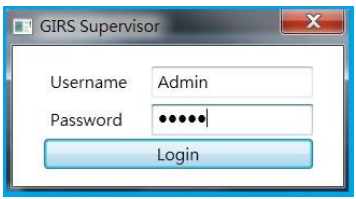
The rights of different groups of user are listed in the table below:

User's Right	Admin	Supervisor	Not a Supervisor
Login to GIRS Supervisor	Yes	Yes	No
Add, Edit, Delete User	Yes	No	No
Add, Edit, Delete Specification	Yes	Yes	No
Edit, Delete Inspection Results	Yes	Yes	No
View, Print Inspection Results	Yes	Yes	Yes

6.1 GIRS Supervisor

Click the Supervisor icon to start GIRS Supervisor

Login **GIRS Supervisor**



For the first time, use the preset Administrator to login :

Username : Admin

Password : Admin

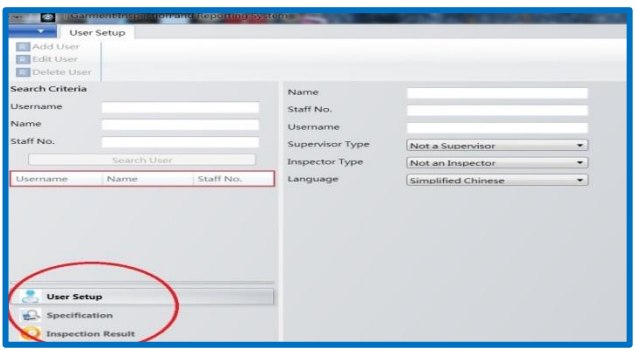
Administrator can change the password after first time login

6.1 GIRS Supervisor (cont.)

There are three major functions of GIRS Supervisor :

- User Setup
- Specification (add, edit, delete)
- Inspection Result (view, edit, delete, print)

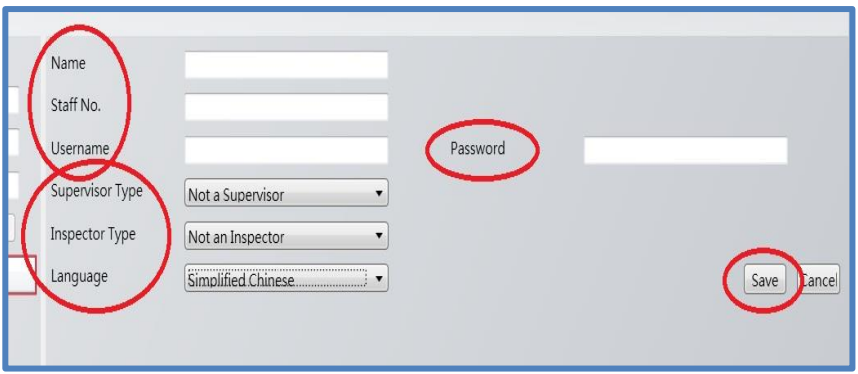
By selecting the User Setup, the Administrator can add, edit or delete users.



6.1.1 User Setup

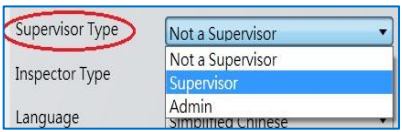
Add User *(Only the Administrator has the right to add, edit or delete user*)

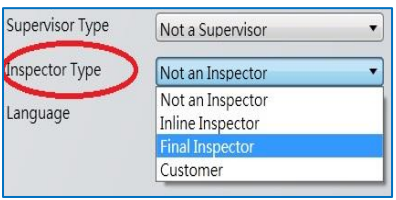
- Select “Add User” under “User Setup”
- Input details of new user
- Create Password for new user
- User password can be changed anytime by administrator as required



6.1.1 User Setup (cont.)

- Select “User Type”, “Language” and then save

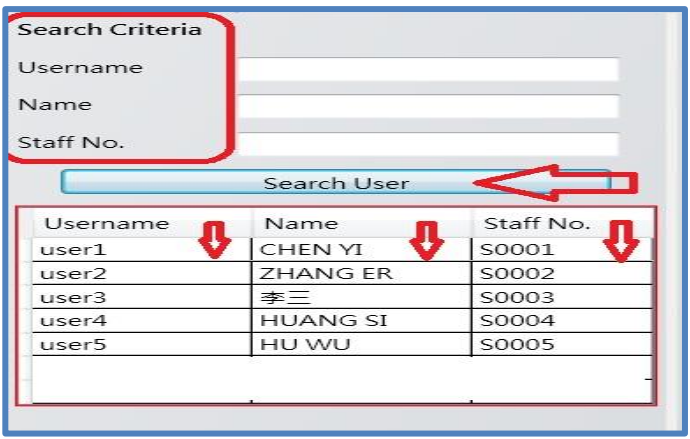




6.1.1 User Setup (cont.)

Search registered users:

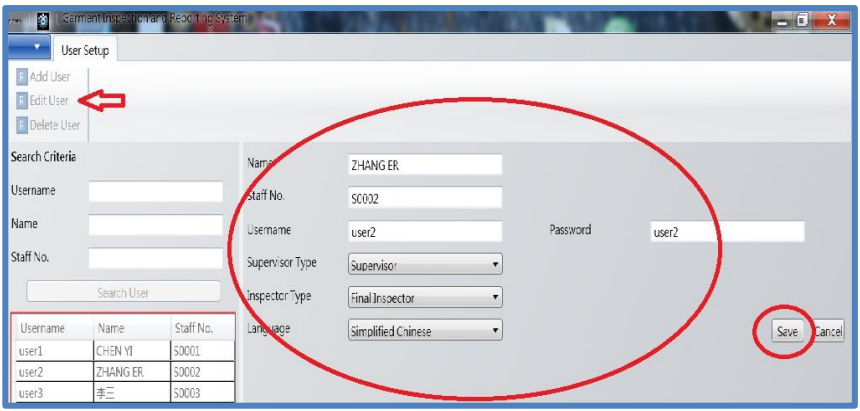
- Input search criteria, or
- Click “Search User” to view, list can be sort to order under different tabs



6.1.1 User Setup (cont.)

Edit User

- Select “Edit User” under “User Setup”
- Edit user details and password
- Click “Save” and confirm update



6.1.1 User Setup (cont.)

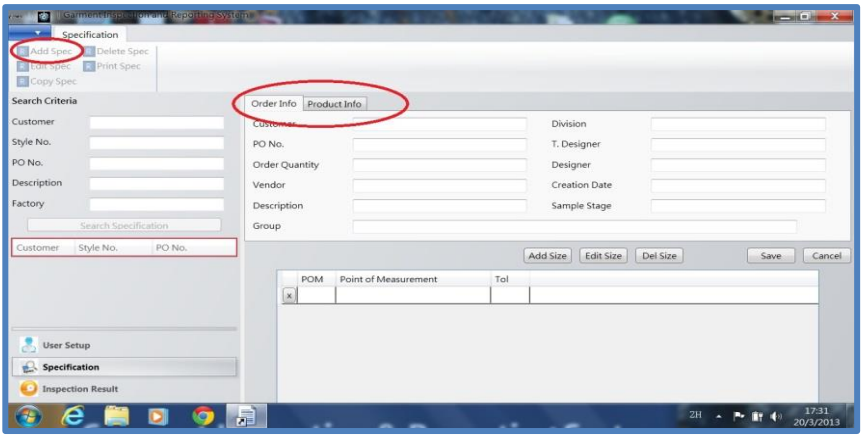
Delete User

- Pick the user you want to delete
- Select “Delete User” under “User Setup”
- Make sure before you confirm the “Delete” action

6.1.2 Specification

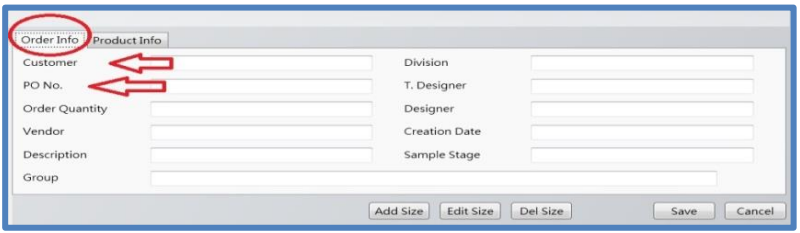
Add Specification

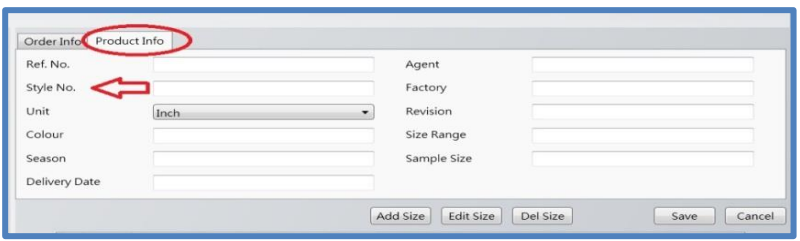
- Select “Add Spec” under “Specification”
- Input “Order Info” and “Product Info”



6.1.2 Specification (cont.)

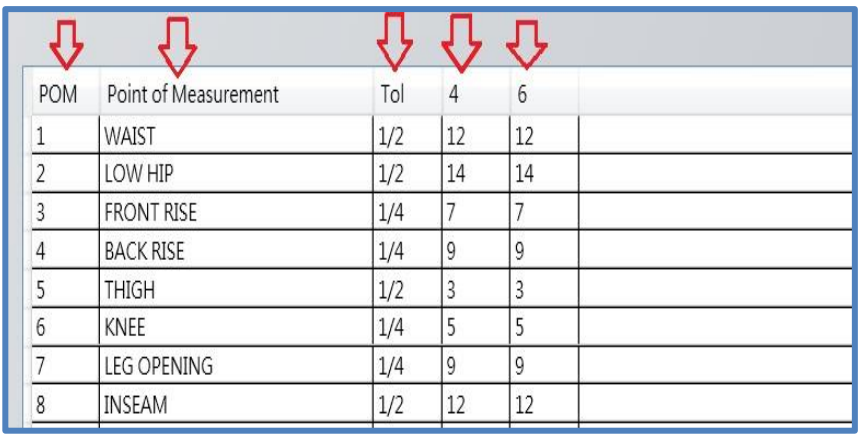
- Customer, PO No. and Style No. are compulsory entries for all specifications





6.1.2 Specification (cont.)

- Add “Size”, “POM”(Abbrev. for Point of Measurement), “Point of Measurement” and “Tol”(Tolerance)
- “Save” and confirm adding a new specification

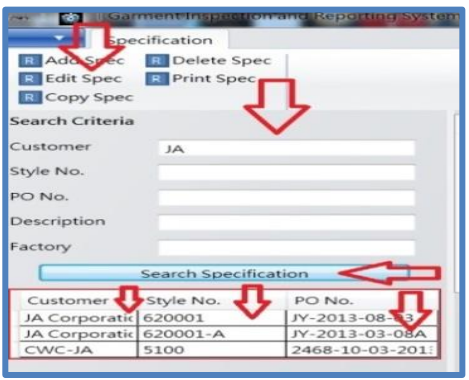


POM	Point of Measurement	Tol	4	6
1	WAIST	1/2	12	12
2	LOW HIP	1/2	14	14
3	FRONT RISE	1/4	7	7
4	BACK RISE	1/4	9	9
5	THIGH	1/2	3	3
6	KNEE	1/4	5	5
7	LEG OPENING	1/4	9	9
8	INSEAM	1/2	12	12

6.1.2 Specification (cont.)

Edit Specification

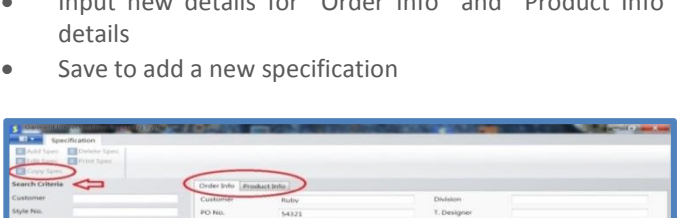
- Input Search criteria to look for registered specification, or
- Click “Search Specification” to view, list can be sort to order under different tabs
- “Save” to confirm update



6.1.2 Specification (cont.)

Copy Specification : to reproduce a similar specification

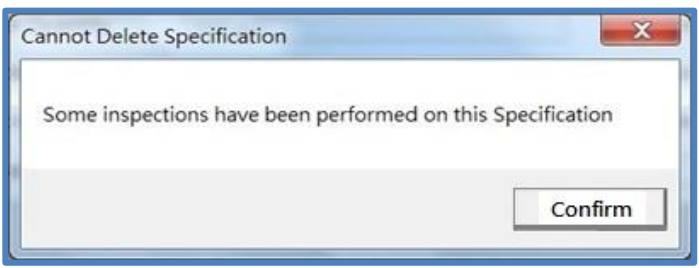
- Input Search criteria to look for registered specification, or
- Select “Search Specification” to view, list can be sort to order under different tabs
- Click “Copy Spec” under “Specification”
- Input new details for “Order Info” and “Product Info” to replace the old details
- Save to add a new specification



6.1.2 Specification (cont.)

Delete Specification

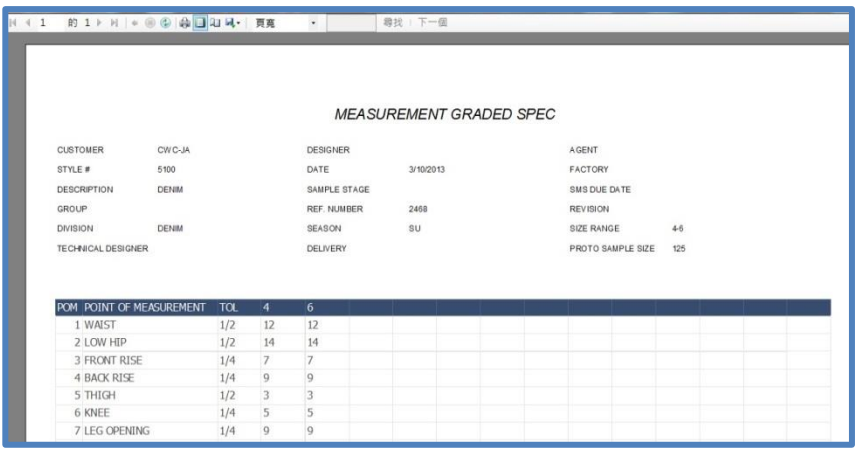
- Select the spec to be deleted
- Click “Delete Spec” under “Specification”
- Double check before you confirm to delete specification
- Specifications already performed inspection measurement cannot be deleted



6.1.2 Specification (cont.)

Print Specification

- Select the spec to be printed
- Click “Print Spec” under “Specification”



MEASUREMENT GRADED SPEC

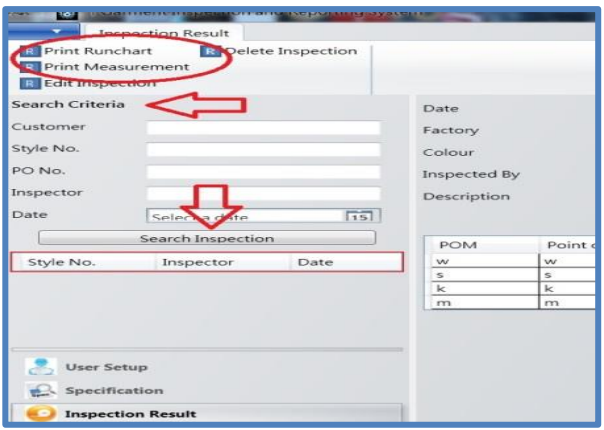
CUSTOMER	CWC-JA	DESIGNER		AGENT	
STYLE #	5100	DATE	3/10/2013	FACTORY	
DESCRIPTION	DENIM	SAMPLE STAGE		SMS DUE DATE	
GROUP		REF. NUMBER	2468	REVISION	
DIVISION	DENIM	SEASON	SU	SIZE RANGE	4-6
TECHNICAL DESIGNER		DELIVERY		PROTO SAMPLE SIZE	125

POM	POINT OF MEASUREMENT	TOL	4	6
1	WAIST	1/2	12	12
2	LOW HIP	1/2	14	14
3	FRONT RISE	1/4	7	7
4	BACK RISE	1/4	9	9
5	THIGH	1/2	3	3
6	KNEE	1/4	5	5
7	LEG OPENING	1/4	9	9

6.1.3 Inspection Result

Print Inspection Result

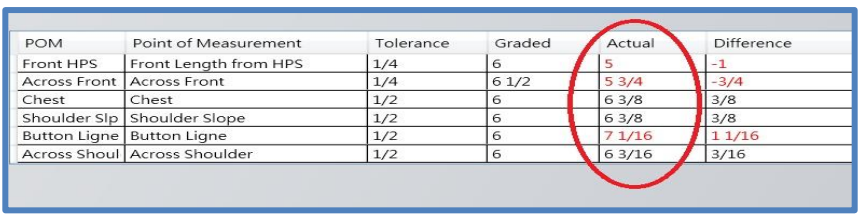
- Search and select the inspection result
- Click Print “Runchart” or “Measurement“



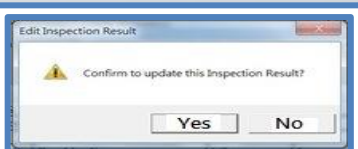
6.1.3 Inspection Result

Edit Inspection

- Search and select inspection result
- Click “Edit Inspection” under Inspection Result”
- Only the actual measurement data can be edited
- Save and confirm to update the inspection result



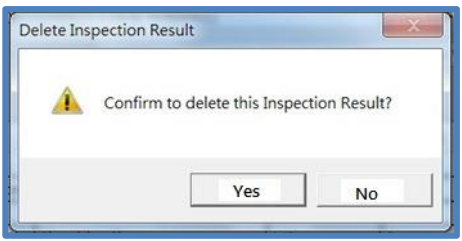
POM	Point of Measurement	Tolerance	Graded	Actual	Difference
Front HPS	Front Length from HPS	1/4	6	5	-1
Across Front	Across Front	1/4	6 1/2	5 3/4	-3/4
Chest	Chest	1/2	6	6 3/8	3/8
Shoulder Slp	Shoulder Slope	1/2	6	6 3/8	3/8
Button Ligne	Button Ligne	1/2	6	7 1/16	1 1/16
Across Shoul	Across Shoulder	1/2	6	6 3/16	3/16



6.1.3 Inspection Result (cont.)

Delete Inspection

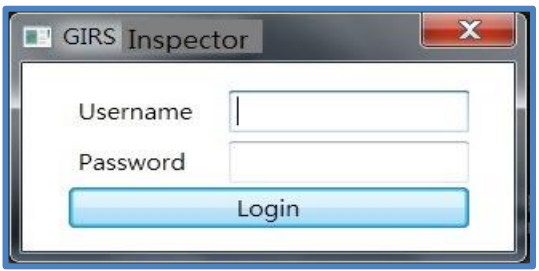
- Search and select inspection result
- Click “Delete Inspection” under “Inspection Result”
- Make sure before your confirm to “delete” the inspection result



6.2 GIRS Inspector

Click the Inspector icon to start GIRS Inspector

Login GIRS Inspector

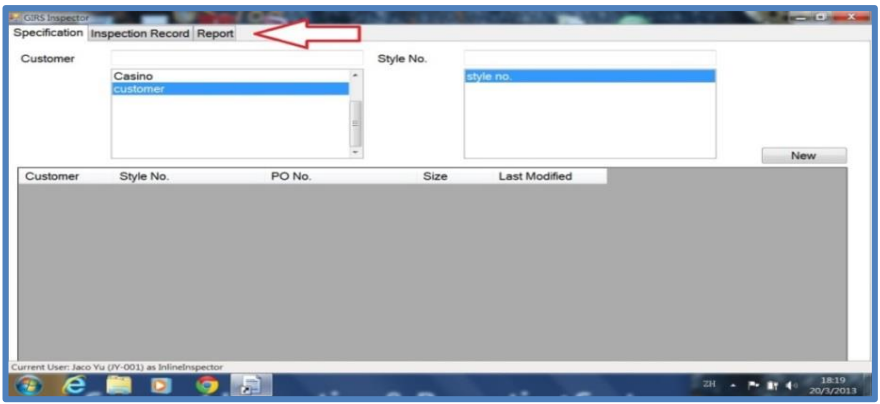


Use the Username and Password as assigned by Administrator to login GIRS Inspector.

6.2 GIRS Inspector (cont.)

There are three major functions of GIRS Inspector :

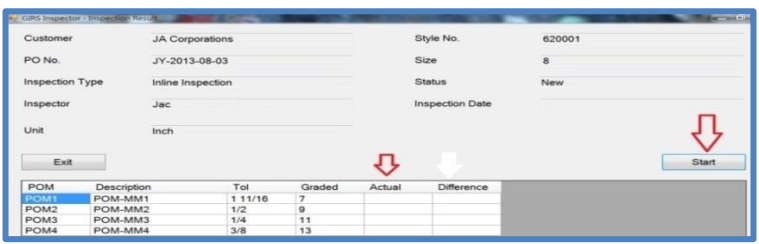
- Specification : to select specification and start new inspection
- Inspection Record : to search and view inspection record
- Report : to search and print inspection report



6.2.1 Specification

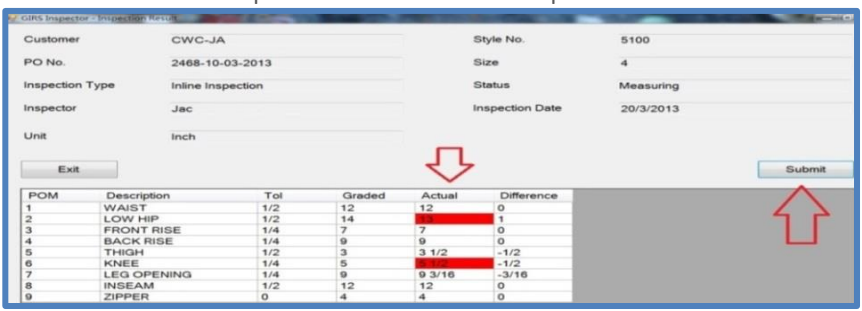
Start New Inspection :

- Plug in the USB receiver into any USB port of your computer. The LED on the receiver will light on
- Power on the measuring tape by pressing any one of the key switches
- Select Specification and start New Inspection
- When a POM is measured, by pressing the “TRANSFER” key switch, the reading on the display unit will be transferred to your computer via the USB receiver. You should hear either a “DING” or a warning sound from your computer to confirm the data has been transferred and received.



6.2.1 Specification (cont.)

- Strictly follow the order of POM in taking measurement
- The measurement data and difference to TOL will be recorded
- Data out of tolerance will be shown in red with “warning sound”
- “Submit” after each inspection; click “Start” to take new inspection
- “Exit” when all inspections of each batch completed

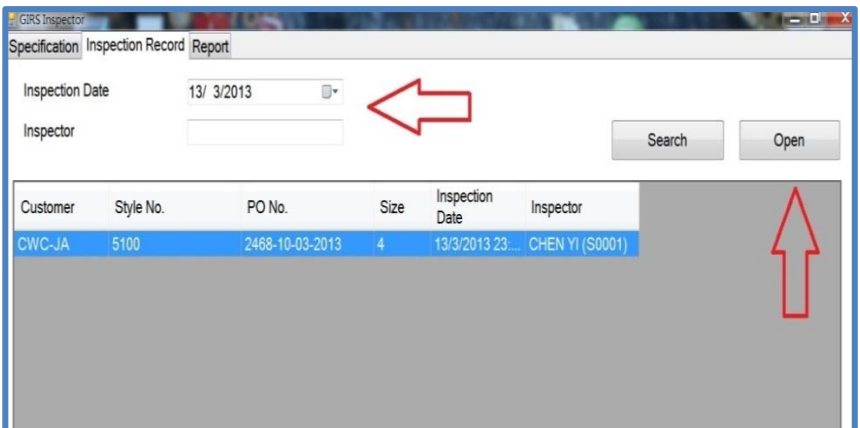


Remark : In case the working environment is too noisy to hear the “DING” or warning sound, user can consider to connect external powered speakers to the computer.

6.2.2 Inspection Record

Search Inspection Records

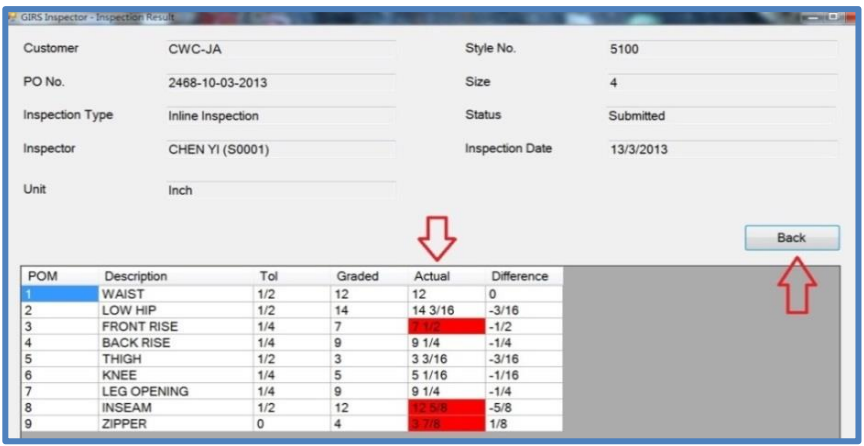
- Inspection records can be searched by date of inspection
- Open to view records



6.2.2 Inspection Record (cont.)

View Inspection Records

- Data out of tolerance is shown in red
- “Back” to close the current inspection record, search to view other records



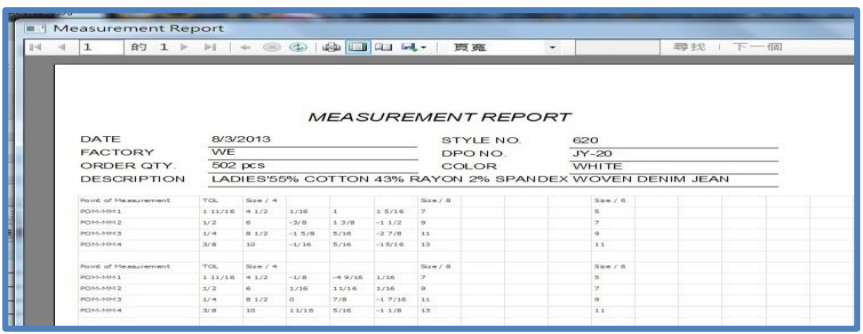
POM	Description	Tol	Graded	Actual	Difference
1	WAIST	1/2	12	12	0
2	LOW HIP	1/2	14	14 3/16	-3/16
3	FRONT RISE	1/4	7	7 1/2	-1/2
4	BACK RISE	1/4	9	9 1/4	-1/4
5	THIGH	1/2	3	3 3/16	-3/16
6	KNEE	1/4	5	5 1/16	-1/16
7	LEG OPENING	1/4	9	9 1/4	-1/4
8	INSEAM	1/2	12	12 5/8	-5/8
9	ZIPPER	0	4	3 7/8	1/8

6.2.3 Report

Search or Print Measurement Reports / Runchart Reports

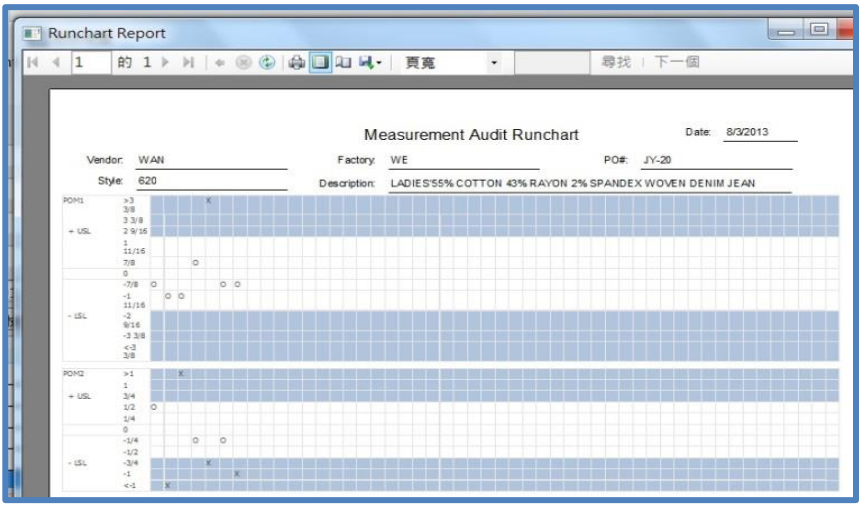
- Reports can be searched by date of inspection
- View or Print Measurements / Runchart Reports
- Logout GIRS Inspector when finish

Sample of Measurement Report



6.2.3 Report

Sample of Runchart Report



7. Network Application

GIRS is designed to run on both stand-alone and multi-user networked environment.

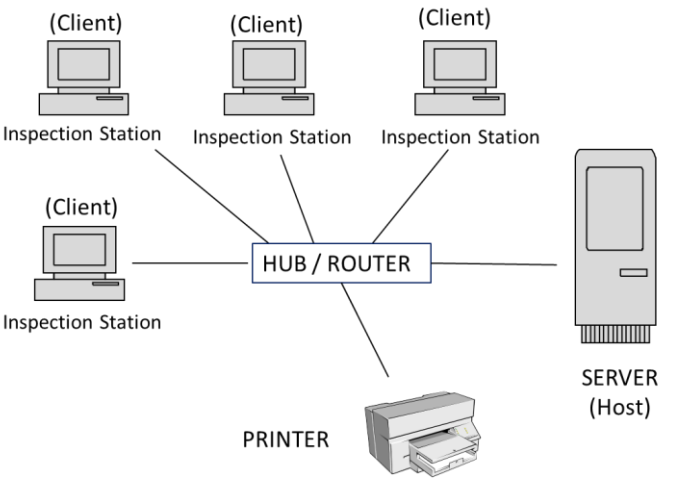
In case of a networked environment, two or more computers can be linked up by LAN (Local Area Network) through a HUB or a wireless router. All GIRS data will be saved in the hard disk of the host Server computer, and can be accessed and viewed from any one of the computers.

Only one computer (the host Server) need to install the SQL Server and the GIRS program. The other computers (Inspection stations) need only to install the GIRS program; and the data in the host Server can be shared among computers in the same network.

Please consult your IT staff or external IT experts to support in setting up the network.

7. Network Application (cont.)

A typical example of network setup is shown below.



7.1 Client Station Setting

Login the computer used at the Inspection Station (Client)
Double click the GIRS “Supervisor” icon to start program and you will see the screen below.

7.1 Client Station Setting (cont.)

- Input name of remote SQL Server
- Select SQL Server Authentication :
  Input :
  User ID = GIRSAdmin
  Password = GIRSAdmin
  Reconfirm Password = GIRSAdmin

- Save the settings

Client Station setting is completed and the communication with the Host Server is activated.

8. Data Maintenance

All GIRS data (users, specifications, measurement reports) are stored in the hard disk drive of your computer (stand-alone) or the server (networked). In order to protect your data, we strongly advise you to back up your data by an external hard disk drive at a regular period.

Please consult your IT staff or external IT experts on how to back up your data.

9. Trouble Shooting and Services

Cannot power on your measuring tape

- Check if the batteries are placed into the battery compartment correctly.
- Make sure the batteries are at correct polarity and with good contact to the metal terminals.
- Replace the batteries with new ones.

Reading on display unit is not correct

- Check if there is any residual value on the display unit when tape is fully retracted. If not, set the residual reading to "0.0" by pressing the ZERO key switch.

Data cannot be transferred to your computer

- Check if the USB receiver is correctly plugged onto your computer.
- Check if the LED on the USB receiver lights on. If not, you may need to replace your USB receiver.
- Check if you have used another USB receiver of another measuring tape. Check the serial number on the labels of the USB receiver and inside the battery compartment of the measuring tape. The two serial numbers should

be the same. If not, you must have mixed up the USB receiver and you have to find the correct USB receiver.

Return the measuring tape to your agent or distributor if the above steps cannot solve your problem.

Do not attempt to open up the measuring tape and repair by yourself. This will void the warranty as provided by the manufacturer.

10. Warranty

One Year Warranty

E Measuring Device Limited or its authorized agent or distributor warrant all products against defects in materials and workmanship for a period of one (1) Year from the date of original consumer purchase. If a defect exists during the warranty period, EMD or its option will either repair or replace the product at no charge.

The warranty will not apply to the product if it has been damaged by misuse, alternation, accident, improper handling or operation, or if unauthorized repairs are attempted or made. Some example of damages not covered by warranty include, but not limited to, battery leakage, bending of steel tape, visible cracking of the LCD display or plastic casing, which are presumed to be damages resulting from misuse or abuse.

11. Product Specification

System Model No.	GS-188
Device Model No.	DT-138 (measuring tape)
Tape Length	1.6 M
Tape Width	13 mm
Tape Print	In both British and Metric standand
LCD Display	In INCH, fractions, 1/16 resolution In CM, 1 decimal
Dimension	110 x 55 x 25 mm (LxHxD)
Weight	105 gm excluding battery
Power Source	3V, DC, 2 x AAA Battery
Battery Life	80-100 working hours
Data Output Interface	Wireless RF output through an USB receiver Protocol: SDTP (Short Distance Digital Transceiving Protocol) RF: SFP (Static Frequency Pair) Range: 2.4-2.4835 GHz
Control Buttons	IN-CM Unit conversion (inch/cm) ZERO Set zero TRANSFER Data transfer
Power Management	Power on by any button Auto power off after 60 seconds idle Battery low warning

Specification is subject to change without prior notice. The illustrated product may differ form that supplied.

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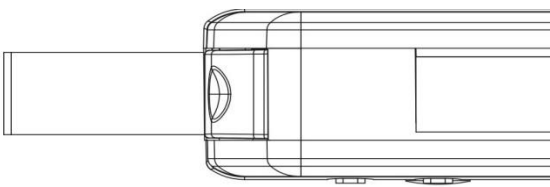
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