

Reel Materials Management System User Manual



CEYON TELLINVENTORY CO.,LTD.

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I. Outline

1. Introduction on Reel Materials Management System

- Shelf

Reel Materials Management System's shelf allows access to materials' location by using RFID tag information identification on reels. Each reel that needs to be released are marked with green LED on the shelf, and when there is an error, the LED turns red.

I. Outline

1. Introduction on Reel Materials Management System

▪ Registrator

This is a system that allows reel's warehousing management and collection management by attaching RFIC tags on reels. Warehousing is managed by having a registration device perceive the barcode information on the reel automatically and save its material information on DB, and create tag information.

▪ User Program



This is a program that allows operation of registered reel's information on administrator's PC conveniently.

- Warehousing status : check detailed information of reels that are put into a warehouse
- Order management : check order registration and inquiry
- Inquiry by parts : check parts status
- Release reservation : check reservation and reservation information for releasing parts and products
- Release process : check release stand-by list and release completion list
- Inventory management : manage useless materials and optimal inventory
- BOM management : BOM product registration, inquiry, AnyVendor registration
- System management : personal information setting, optimal inventory alarm, shelf setting

II. Installation

1. Hardware Requirement

System	Requirement
Power	AC 110V~220V Up to 2.5A
COMM	TCP/IP

2. User Program System Requirement

System	Requirement
Windows XP	Windows XP Service Pack 3, NET Framework 4
Windows 7	NET Framework 4
Windows 10	NET Framework 4

➤ Hardware Requirements

-Maximum Hardware Requirements : Pentium over 1GHz, RAM over 512MB

※ Registration device and user program will be updated automatically.

II. Installation

2. User Program Software Installation

The screenshot displays the CEYON TELLINVENTORY website. At the top, there is a navigation bar with links: Advantage, Effect, System, Process, Product, and Support. Below this, a large circular graphic highlights the '실시간 릴관리 시스템' (Real-time Release Management System). To the right of this graphic is a horizontal flowchart with five blue circles containing the following text: '인출고 관리' (Inventory Management), '보유부품 관리' (Inventory Management), '보유 지재 관리' (Inventory Management), '작업 지재 관리' (Inventory Management), and '재품별 생산가능 수량관리' (Inventory Management). Below the flowchart, there are four bullet points in Korean: '중소기업 생산관리의 혁명' (Revolution in production management for small and medium enterprises), 'BOM만 관리하면 생산이 한손에!' (If you only manage BOM, production is in one hand!), '부품관리에 키보드 Free' (Keyboard free for component management), and '부품릴 찾는 시간 제로화 선언' (Declaration of zero time for finding components). Below these bullet points, there is a paragraph in Korean: '다양한 크기 릴의 개별 적재 적재된 릴에 각각의 LED 인디케이트 적용 재고 현황 및 위치 정보 실시간 연동 구분 사항 - 표준선반 1개당 최대 적재 수량 315개'. At the bottom, there are three blue buttons with white text: '소개 동영상 Download', '소개 PPT Download', and '운영 SW Download'.

▪ How to set up User Program

- 1) Go to <http://tellinventory.co.kr/#> .
- 2) Click on Support Menu -> Operation SW Download button.
- 3) Click on RmgtSetup.Zip and download the file.
- 4) After unzipping, install RmgtSetup.msi.
- 5) There will be a short cut icon created under the name of "StartRmgt" on wallpaper.

2

I. Shelf

1. Colors of LED

I. When green light is on

- 1) Indicate the location of the reel in search

II. When green light is blinking

- 1) Need to take reels out in sequential order (Sequential LED ON)

III. When red light is on

- 1) A wrong reel is taken out.
- 2) The reel is unregistered.
- 3) It has been restocked without remeasuring the residuals after a certain time.

2. Colors of Buzzer Lights

I. When green light is on

- 1) Indicate the location of the reel in search

II. When green light is blinking

- 1) Need to take reels out in sequential order (Sequential LED ON)

III. When red light is on

- 1) A wrong wheel is taken out.

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I. User Program

1. User Program Practice and Login

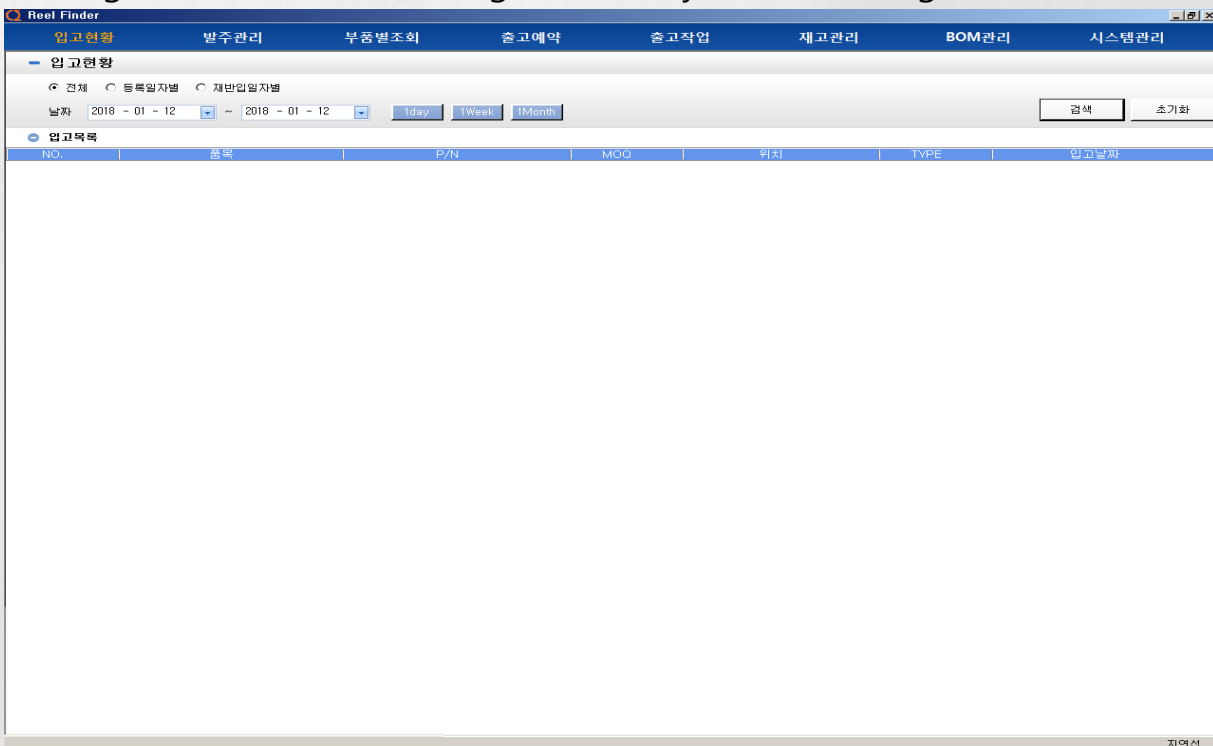
This is user program's practice screen and login screen.
After entering user ID and password, click on "Login" button.



2. Main Screen Composition

This is user program's main screen.

It consists of warehousing status, order management, inquiry by parts, release reservation, release process, inventory management, BOM management, system management.



I. User Program

3. Menu Composition

입고현황

발주관리

부품별조회

출고예약

- Order registration
- Order inquiry

- Parts release reservation
- Product release reservation

출고작업

재고관리

BOM관리

시스템관리

- Release stand-by
- Release completion list

- Useless materials management
- Optimal material management

- PN matching
- Product registration
- BOM registration
- BOM inquiry
- AnyVendor registration

- Personal information
- Options and setting

I. User Program

4. Warehousing Status

This is user program's warehousing status screen.

It allows searching for registered new manufacturer's P/N order materials.

Reel Finder

입고현황 발주관리 부품별조회 출고예약 출고작업 재고관리 BOM관리 시스템관리

입고현황

☒ 전체 ☐ 등록일자별 ☐ 재반입일자별

날짜: 2018 - 01 - 12 ~ 2018 - 01 - 12 1day 1Week 1Month 검색 초기화

입고목록

NO.	품목	P/N	MOQ	위치	TYPE	입고날짜
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Reel Finder

입고현황 발주관리 부품별조회 출고예약 출고작업 재고관리 BOM관리 시스템관리

입고현황

☒ 전체 ☐ 등록일자별 ☐ 재반입일자별

날짜: 2017 - 01 - 05 ~ 2018 - 01 - 12 1day 1Week 1Month 검색 초기화

입고목록

NO.	품목	P/N	MOQ	위치	TYPE	입고날짜
1	Capacitor	PGRM2165C1H222JA01D	1916	CEY104.5 / 5.9	REEL	2017-11-23
2	Resistor	ABA40DP00140004000	3600	CEY104.5 / 5.8	REEL	2017-12-14
3	Capacitor	PGRM159R71H102K-A01D	3555	CEY104.5 / 5.7	REEL	2017-11-27
4	Capacitor	IPSS14-E3/61T	23	CEY104.5 / 5.6	REEL	2017-11-23
5	Capacitor	CS1608-0R392K500NRB	3191	CEY104.5 / 5.5	REEL	2017-12-11
6	Capacitor	0603N220J500LT4000	1689	CEY104.5 / 5.45	REEL	2017-12-14
7	Capacitor	0402N100J500LT10000	4224	CEY104.5 / 5.44	REEL	2017-12-11
8	Capacitor	WR04X56R0FTL10000	8338	CEY104.5 / 5.42	REEL	2017-11-23
9	Capacitor	PGRM188R61E105KA12D	292	CEY104.5 / 5.41	REEL	2017-11-23
10	Resistor	WR06X7R5JTL5000	4108	CEY104.5 / 5.4	REEL	2017-11-23
11	Capacitor	0AAG04963	4355	CEY104.5 / 5.39	REEL	2017-11-23
12	Resistor	WR04X100JTL10000	5386	CEY104.5 / 5.38	REEL	2017-11-23
13	Capacitor	WW25MR010FTL4000	3600	CEY104.5 / 5.37	REEL	2017-12-11
14	Capacitor	WR06X300FTL5000	3237	CEY104.5 / 5.36	REEL	2017-11-23
15	Capacitor	ACR0402T000J(D)	6948	CEY104.5 / 5.35	REEL	2017-11-23
16	Capacitor	STPB3216-260PT	3497	CEY104.5 / 5.34	REEL	2017-11-24
17	Capacitor	STPB3216-260PT	3600	CEY104.5 / 5.33	REEL	2017-11-24
18	Resistor	PGRM1885C1H270JA01D	2238	CEY104.5 / 5.32	REEL	2017-11-24
19	Capacitor	P2209-00998	2930	CEY104.5 / 5.31	REEL	2017-11-24
20	Capacitor	GRM188F51E105ZA12D	1390	CEY104.5 / 5.30	REEL	2017-11-24
21	Capacitor	PGRM188R61E105KA12D	1037	CEY104.5 / 5.3	REEL	2017-11-24
22	Capacitor	STPB3216-260PT	1277	CEY104.5 / 5.29	REEL	2017-11-24
23	Backplane	IPC47100136JPN	732	CEY104.5 / 5.28	REEL	2017-11-24
24	Capacitor	STPB3216-260PT	2157	CEY104.5 / 5.27	REEL	2017-11-24
25	Capacitor	STGB3216-600PT	3123	CEY104.5 / 5.25	REEL	2017-11-24
26	Backplane	+GRM1885C1H00004000	2489	CEY104.5 / 5.24	REEL	2017-11-24
27	Capacitor	RM04FTN1002	91	CEY104.5 / 5.23	REEL	2017-11-24
28	Resistor	WR06X223JTL5000	4500	CEY104.5 / 5.22	REEL	2017-12-14
29	Capacitor	STPB2012-600PT	678	CEY104.5 / 5.21	REEL	2017-11-24
30	Resistor	P2209-005249	316	CEY104.5 / 5.20	REEL	2017-11-24
31	Resistor	PGRM1885C1H180JA01D	680	CEY104.5 / 5.2	REEL	2017-11-23
32	Capacitor	MCR03EZP5FX18008	1391	CEY104.5 / 5.19	REEL	2017-11-24
33	Capacitor	MCR01MZPEJ103M	4418	CEY104.5 / 5.18	REEL	2017-11-23
34	Capacitor	PGRM1885C1H200JA01D	1717	CEY104.5 / 5.17	REEL	2017-11-24
35	Capacitor	PGRM188R71E74K-A12D	3231	CEY104.5 / 5.16	REEL	2017-11-24
36	Capacitor	IPGRM1885C1H120JA01D	3291	CEY104.5 / 5.15	REEL	2017-11-24
37	Capacitor	PGRM2165C1H101JA01D	2349	CEY104.5 / 5.14	REEL	2017-11-24
38	Capacitor	PGRM1885C1H331JA01D	2176	CEY104.5 / 5.13	REEL	2017-11-24
39	Capacitor	MCR03EZP5FX18008	1391	CEY104.5 / 5.12	REEL	2017-11-24

How to search warehousing status

- 1) Select among "total", "by registration date", "by re-warehousing date", and date and click on search button.
- 2) A list will appear according to the search condition.(If you wish to reset the list, click on refresh button.)

I. User Program

5. Order Management

This is user program's order management display.
It allows access to user's order registration and inquiry.

The screenshot shows the 'Order Registration' screen in the 'Reel Finder' application. The interface includes a top menu bar with options like '입고현황', '발주관리', '부품별조회', '출고예약', '출고작업', '재고관리', 'BOM관리', and '시스템관리'. Below the menu, there are search filters for '품목' (Item), '재품' (Material), and 'P/N' (Part Number), along with '검색' (Search) and '초기화' (Reset) buttons. A table header is visible with columns: '선택', '품목', 'P/N', 'MOQ', and '현재수량'. The main area displays the text 'Order Registration' in large font. At the bottom, there is a status bar showing '소계' (Total) and '0'.

The screenshot shows the 'Order Inquiry' screen in the 'Reel Finder' application. The interface includes a top menu bar with options like '입고현황', '발주관리', '부품별조회', '출고예약', '출고작업', '재고관리', 'BOM관리', and '시스템관리'. Below the menu, there are search filters for '날짜' (Date) with a range from '2018 - 01 - 12' to '2018 - 01 - 12', and buttons for 'Iday', '1Week', '1Month', '검색' (Search), '초기화' (Reset), and '삭제' (Delete). A table header is visible with columns: 'No', 'P.O.#', '발주요청자' (Requester), '거래처' (Customer), and 'P.O. DATE'. The main area displays the text 'Order Inquiry' in large font. At the bottom, there is a status bar showing '지연성' (Latency).

I. User Program

5.1 Order Registration (1)

Reel Finder

입고현황 발주관리 부품별조회 출고예약 출고작업 재고관리 BOM관리 시스템관리

발주등록

① 품목 [] 제품 [] P/N [] 검색 초기화

②

선택	품목	P/N	MOQ	현재수량
☐	Resistor	+GRM188500004000	4000	736
☐	Backplane	+GRM1885C1H00004000	4000	15851
☐		00000028	3000	2618
☐	Capacitor	001000040207213K0	1000	89
☐	Resistor	00109-0280	2000	1592
☐		0030000744C2008K7	3000	2700
☐	Resistor	010000073713278VF	10000	1895
☐	Resistor	010000081238016K/	10000	6048
☐	Resistor	010000100611919V7	10000	2866

③ 선택추가 | 전체추가

발주등록

발주번호 [E-104-18-0112-0001] 담당자 [지연섭] 거래처 [] 등록 삭제 초기화

No.	P/N	품목	MOQ	규격	담당자	제품	현재수량	필요수량	발주수량	발주단위	납기날짜	선택
④												

▪ How to register order

- 1) After selecting or entering P/N, by item and by product, search.
- 2) Check accordingly on ②.
- 3) After checking, click on "add selected" or "add all" on ③.
- 4) When an article is added, it will be added on an order registration list(④) below.

I. User Program

5.1 Order Registration (2)

Reel Finder

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발주등록

품목 [] 제품 REM134-4 P/N 1 검색 초기화

선택	품목	P/N	MOQ	현재수량
☐	Balun	1PGRM1885C1H220JA01D	4000	0
☒	Capacitor	1PMMBT3904LT1G	3000	383
☐	Capacitor	MCR03EZP5J201005000110310105H64	100000	0
☒	Resistor	PGRM1885C1H471JA01D	4000	5991
☐	Capacitor	PGRM188R71H103KA01D	4000	2220
☐	Capacitor	STGB3216-600PT	4000	8939
☐	Capacitor	TAJA106M016RNJ	2000	339
☐	Resistor	TAJB106K016RNJ	2000	1871
☐	Resistor	WR06X101JTL5000	5000	6443

선택추가 전체추가

발주등록

발주번호 E-104-18-0118-0001 담당자 지연섭 거래처 [] 등록 삭제 초기화

No.	P/N	품목	MOQ	규격	담당자	제품	현재수량	필요수량	발주수량	발주단위	납기날자	선택
1	1PMMBT3904LT1G	Capacitor	3000		guest		383	1				☒
2	PGRM1885C1H471JA01D	Resistor	4000		guest		5991					☒

How to register order

- 5) Fill out required entry items(⑤) for order article.
(When you double-click, input window will be vitalized.)
- 6) After checking on articles for last order(⑥), click on Registration button(⑦).
- 7) If you wish to delete the order request list, check on the line accordingly and click on "Delete" button(⑧).
(List initialization works the same way.)

※ You may inquire the list of last order articles on Order Inquiry menu. (Refer to Manual 5.2)

I. User Program

5.2 Order Inquiry

Reel Finder

입고현황 **발주관리** 부품별조회 출고예약 출고작업 재고관리 BOM관리 시스템관리

- 발주관리

날짜: 2018 - 01 - 18 ~ 2018 - 01 - 18 1day 1Week 1Month 검색 초기화 삭제

발주목록

No	P.O.#	발주요청자	거래처	P.O DATE
1	E-104-18-0118-0001	지연섭	A	2018-01-18

P.O. NUMBER : E-104-18-0118-0001 소개 2

No	P/N	규격	단위	발주수량	입고수량	진행상태	거래처	NOTE
1	IPMMBT3904LT1G	1	1	1	0	대기	A	
2	PGRM1885C1H471JA01D	1	1	1	0	대기	A	

▪ How to inquire order

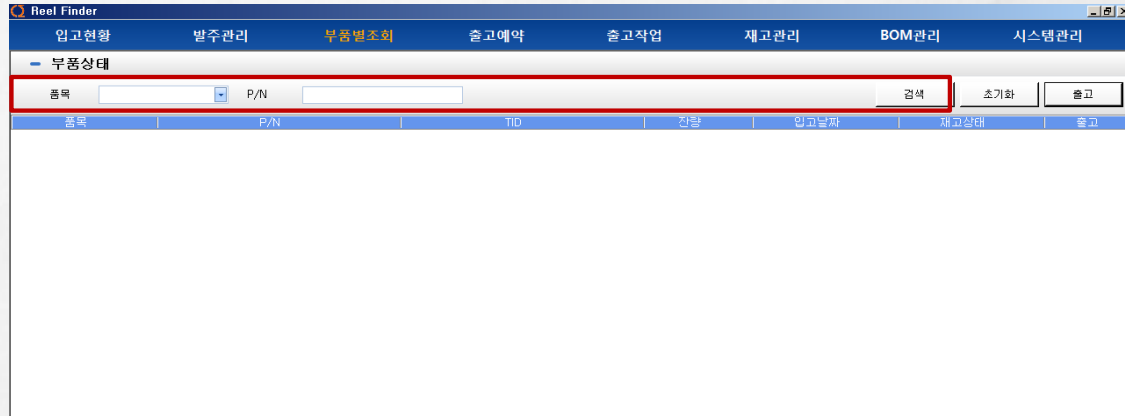
- 1) After selecting a date period, click on search button.
- 2) On order list, double-click on applicable list.
- 3) You may access to details of the list below.
- 4) If you wish to cancel the order request, click on the list and click on cancel button above.

※ Order request may be cancelled while it's still "pending".

I. User Program

6. Inquiry by Parts (Immediate Release) (1)

This is an inquiry by parts screen of user program.



Reel Finder

입고현황 | 발주관리 | **부품별조회** | 출고예약 | 출고작업 | 재고관리 | BOM관리 | 시스템관리

부품상태

품목: [] P/N: [] 검색 초기화 출고

품목	P/N	TID	잔량	입고날짜	재고상태	출고
----	-----	-----	----	------	------	----



Reel Finder

입고현황 | 발주관리 | **부품별조회** | 출고예약 | 출고작업 | 재고관리 | BOM관리 | 시스템관리

부품상태

품목: [] P/N: [Ip] 검색 초기화 출고

품목	P/N	TID	잔량	입고날짜	재고상태	출고
	IPNLV32T-5R6J-PF	2017-11-24.00285	491	2017-12-05	CEY104.1/3.31	☒
	IPGRM1885C1HR50CA01D	2017-11-24.00066	3600	2017-12-05	CEY104.1/1.20	☐
	IPGRM1555C1H330JZ01D	2017-12-07.00072	1278	2017-12-07	CEY104.1/7.11	☐
	IPGRM21BR72A103KA01L	2017-12-05.00007	2348	2017-12-07	CEY104.1/5.18	☐
	IPGRM155R71H103KA88D	2017-12-05.00037	8160	2017-12-07	CEY104.1/7.4	☐
	IPGRM1555C1H680JA01D	2017-12-07.00069	8740	2017-12-07	CEY104.1/7.9	☐
	IPLOG15HS8N2J02D	2017-12-05.00086	9000	2017-12-07	CEY104.1/6.18	☐
	IPGRM1555C1H1R0CA01D	2017-12-05.00100	9000	2017-12-07	CEY104.1/5.42	☐
	IPGRM1555C1HR68CZ01D	2017-12-05.00120	9000	2017-12-07	CEY104.1/6.39	☐
	IPRF2483SR	2017-12-05.00152	9	2017-12-08	CEY104.2/6.6	☐
	IPGRM1555C1H680JZ01D	2017-12-05.00019	202	2017-12-08	CEY104.2/6.29	☐
	IPLT6230S6#TRPBF0628T1T403475.3025004...	2017-12-05.00101	222	2017-12-08	CEY104.2/7.9	☐
	IPNLV32T-5R6J-EF	2017-12-07.00088	339	2017-12-08	CEY104.2/6.11	☐
	IPLT6230S6-1Q/CTRPBF	2017-12-05.00079	869	2017-12-08	CEY104.2/5.36	☐
	IPNFM21CC471R1H3D	2017-12-05.00141	923	2017-12-08	CEY104.2/6.28	☐
	IPGRM1885C1H1R0CZ01D	2017-12-05.00104	1537	2017-12-08	CEY104.2/7.13	☐
	IP033607375T	2017-12-07.00123	4616	2017-12-08	CEY104.2/7.16	☐
	IPLOP03TN33NJ04D	2017-12-05.00143	5230	2017-12-08	CEY104.2/7.9	☐
	IPGRM1555C1HR68CZ01D	2017-12-05.00108	7978	2017-12-08	CEY104.2/5.20	☐
	IPMM8430-2600RA1	2017-12-05.00042	278	2018-01-01	CEY104.2/6.39	☐
Backplane	IPAML1005H56NUTS	2017-11-27.00173	773	2017-11-28	CEY104.5/2.19	☐
Backplane	IPGRM1885C1H200JA01D	2017-11-27.00043	1463	2017-11-28	CEY104.2/3.31	☐

▪ How to search inquiry by parts

- 1) After selecting product or entering P/N, search.
- 2) It will display detailed inquiries of selected product.

I. User Program

6. Inquiry by Parts (Immediate Release) (2)

On inquiry by parts menu, you can release immediately without any release reservation.

The screenshots illustrate the process of releasing parts immediately. The first screenshot shows the main list of parts with a red box around the '출고' (Release) column, indicating where to click to initiate release. The second screenshot shows the '출고 LED 알림' (Release LED Notification) window, which displays a table of released parts. The '상태' (Status) column in this table shows green LEDs, indicating successful release. A '종료' (End) button is also visible at the bottom of this window.

No.	P/N	TID	QTY	상태
1	AW4PAE01820002000	2017-07-11.00169	120	●
2	BL-HG036A-AV-TRB	2017-07-11.00198	560	●
3	0402B122X500C.T10000	2017-07-11.00134	600	●
4	PGRM1885C1H181JA010	2017-07-11.00295	1440	●
5	IP933976370215	2018-01-31.00038	2660	●
6	+GRM188R7H00004000	2017-07-11.00219	3620	●

■ How to release immediately on inquiry by parts menu

- 1) After searching, check on the products you want released.
- 2) If you pressed the release button(②), parts release is completed.
- 3) List of released parts will be displayed on the screen(③), and a green LED light on the shelf, underneath the releasing reel, will turn on.
- 4) After taking out the reel, with the green LED light on, from the shelf and pressing "Done" button, immediate release is completed.

I. User Program

7. Release Process

This a screen display for user program's release process.
It consists of release stand-by list and release completion list.

The screenshot shows the 'Reel Finder' application window. The top menu bar includes: 입고현황, 발주관리, 부품별조회, 출고예약, 출고작업 (highlighted), 재고관리, BOM관리, and 시스템관리. Below the menu, there is a section for '출고대기 목록' (Release Stand-by List) with date filters (날짜) set to 2018-01-19 and buttons for Today, 1Week, and 1Month. A search button (검색) is on the right. The main content area displays '출고대기 목록' and a table header with columns: NO., 출고대기번호, 담당자, 부서, 제품여부, 진행상태, 대기등록일, and 선택. The table body is empty, and the text 'Release Stand-by' is centered. At the bottom right, there are buttons for 초기화 (Reset) and 삭제 (Delete), and a status indicator '지연섬' (Delay Island).

The screenshot shows the 'Reel Finder' application window. The top menu bar is the same as the previous screenshot. Below the menu, there is a section for '출고완료 목록' (Release Completion List) with the same date filters and search button. The main content area displays '출고완료 목록' and a table header with columns: NO., 출고대기번호, 담당자, 부서, 제품여부, 진행상태, 대기등록일, 출고완료, and 선택. The table body is empty, and the text 'Release Completion List' is centered. At the bottom right, there are buttons for 초기화 (Reset) and 삭제 (Delete), and a status indicator '지연섬' (Delay Island).

I. User Program

7.1 Parts Release Reservation (1)

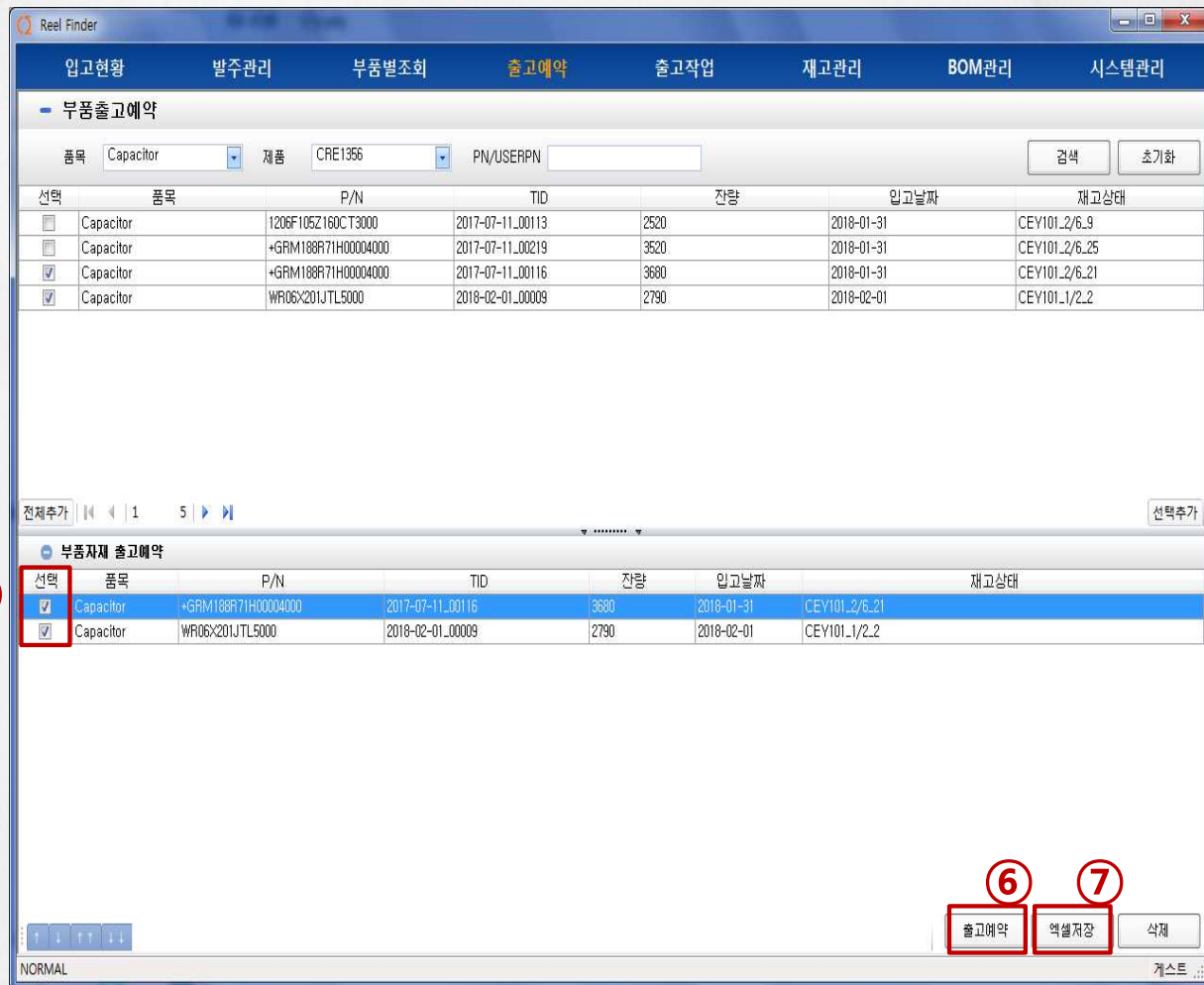


■ How to make a parts-release reservation

- 1) After selecting or entering P/N, by item and by product, search.
(If you search without selecting an item or a product, or entering P/N, entire item list will be searched.)
- 2) Applicable list will be referred, according to the search condition.
- 3) Check on the items you want released (②).
- 4) After checking, click on "add selected" (③).
(If you want "add all", click on button ④.)

I. User Program

7.1 Parts Release Reservation (2)



▪ How to make a parts-release reservation

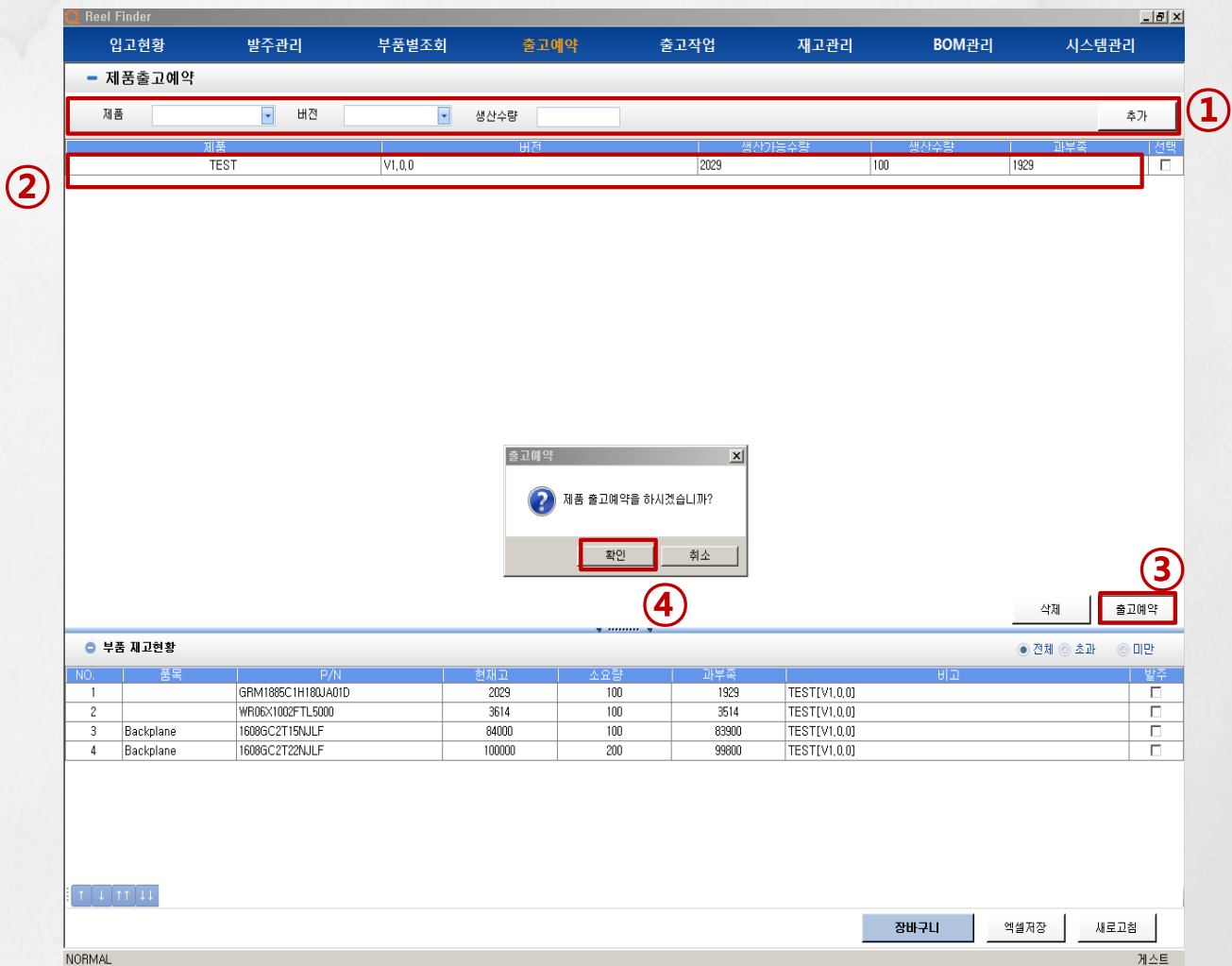
- When the article is added, it is added into parts material release reservation list and check(⑤) on article that you wish to request release.
- When you press on Release Reservation button(⑥), selected item's release reservation is completed.

※ If you wish to save parts release reservation list in Microsoft Excel, click on ⑦.

※ You may check the list of items requested for release reservation, on Release Process-Release Stand-by menu, and release is complete once you press on Practice Release button. (Refer to Manual 8.1)

I. User Program

7.2 Product Release Reservation (1) - Success



■ How to make a product-release reservation

- 1) After entering the product and version you want, and production quantity, click on "Add" button.
- 2) Product list and parts residual quantity status, under applicable conditions, are inquired.
- 3) Click on "release reservation" button(③).
- 4) After release reservation pop-up window appears, click on "Confirm" button(④) and product release reservation is completed.

※ You may check release reservation status on Release Process-Release Stand-by menu. (Refer to Manual 8)

※ You may check parts residual quantity status of the product to be release, below. If the products are in shortage, request for product order right away and proceed further. (Refer to Manual 7.2(2))

I. User Program

7.2 Product Release Reservation (2) - Fail

When product's materials are in shortage, product release reservation is processed as "abnormal reservation".

When all materials are in warehouse and ready for normal release, after ordering materials in shortage, **click on release practice button on Release Process-Release Stand-by menu**, and release is completed.

→ When product's materials are in shortage, product article will appear in red.

제품	버전	생산가능수량	생산수량	과부족	선택
TESV	V1.0.0	0	100	-100	

부품 재고현황

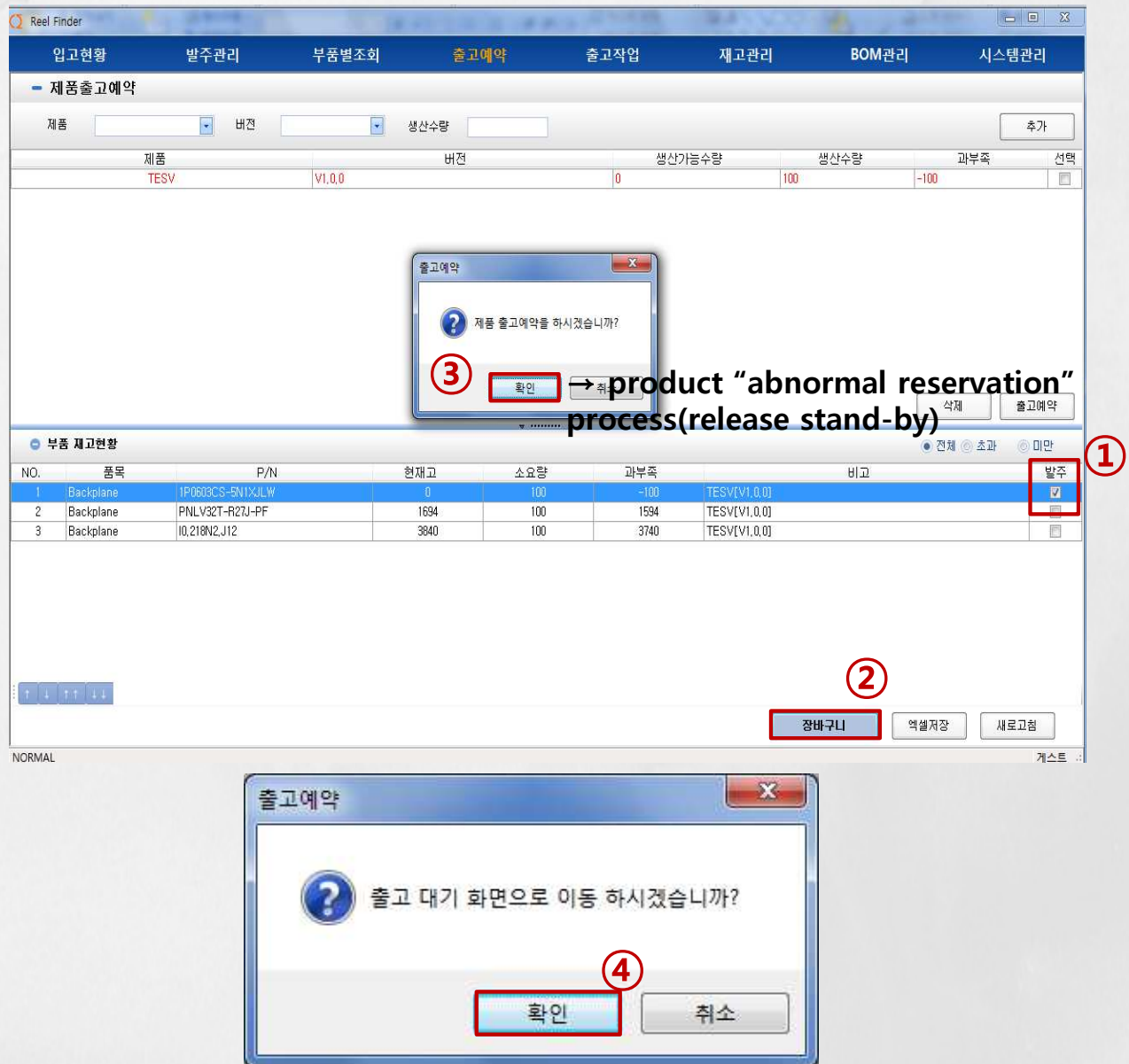
NO.	품목	P/N	현재고	소요량	과부족	비고	발주
1	Backplane	1P0603CS-5N1XJLW	0	100	-100	TESV[V1.0.0]	
2	Backplane	P1NLV321-FR2J-PP	1694	100	1694	TESV[V1.0.0]	
3	Backplane	1Q,218N2,J12	3840	100	3740	TESV[V1.0.0]	

▪ How to release product and order parts

- 1) Product article with lacking material will appear in red.
- 2) While the product's parts residual quantity status is inquired below, parts article in shortage will also appear in red.

I. User Program

7.2 Product Release Reservation (2) - Fail



How to release product and order parts

- 3) After checking on the list of materials in shortage(①), click on cart(②).
- 4) When you click on "Confirm(③)" on product release reservation pop-up window, it will be on standby as a abnormal reservation and release standby pop-up window will appear.
- 5) When you click on "Confirm(④)", it will move to release standby display.
(If you wish to process orders in a row, click on "Cancel" button and if you wish to move to release stand-by display, click on "Confirm".)

I. User Program

7.2 Product Release Reservation (2) - Fail

NO.	출고대기번호	담당자	부서	제품명	출고일	대기등록일	예약상태	선택
1	R2018-02-01_00002	게스트		부품	출고취소	2018-02-01	정상예약	
2	R2018-02-02_00001	게스트		제품	출고대기	2018-02-02	비정상예약	

NO.	품목	P/N	출고수량	생산소수량	잔량
1	Backplane	1P0603CS-5N1XJLW	0	100	-100
2	Backplane	PNLV32T-R27J-PF	840	100	740
3	Backplane	10.218N2.J12	3840	100	3740

▪ How to release product and order parts

- 6) When you move to release stand-by display, release stand-by list will be inquired.
- 7) If you double-click on a release reservation list, details of the applicable article will be inquired.

※ Refer to parts order manual 5.1

I. User Program

8. Release Process

This a screen display for user program's release process.
It consists of release stand-by list and release completion list.

The screenshot shows the 'Reel Finder' application window. The top menu bar includes '입고현황', '발주관리', '부품별조회', '출고예약', '출고작업' (highlighted), '재고관리', 'BOM관리', and '시스템관리'. Below the menu, there is a section for '출고대기 목록' (Release Stand-by List) with date filters for '날짜' (2018-01-19 to 2018-01-19) and buttons for '1day', '1Week', and '1Month'. A search button '검색' is on the right. The main content area displays '출고대기 목록' and a table with columns: 'NO.', '출고대기번호', '담당자', '부서', '제품여부', '진행상태', '대기등록일', and '선택'. The text 'Release Stand-by' is centered in the main area. At the bottom right, there are buttons for '초기화' and '삭제', and a '지연설' link.

The screenshot shows the 'Reel Finder' application window. The top menu bar is the same as the previous screen. Below the menu, there is a section for '출고완료 목록' (Release Completion List) with the same date filters and search button. The main content area displays '출고완료 목록' and a table with columns: 'NO.', '출고대기번호', '담당자', '부서', '제품여부', '진행상태', '대기등록일', '출고완료', and '선택'. The text 'Release Completion List' is centered in the main area. At the bottom right, there are buttons for '초기화' and '삭제', and a '지연설' link.

I. User Program

8.1 Release Stand-by

➤ You can check the list of products that are registered for release reservation on release stand-by menu.

1 Search button

2 Release Stand-by List

NO.	출고대기번호	담당자	부서	제품대부	전행상태	대기등록일	선택
1	R2018-01-19_00001	지연섭		부품	출고대기	2018-01-19	☐
2	R2018-01-19_00002	지연섭		부품	출고대기	2018-01-19	☐

3 Release Information page

NO.	품목	WR05X1002FTL5000	P/N	필수량	2090	지배수량
1						

▪ How to look up release stand-by list and process or cancel release

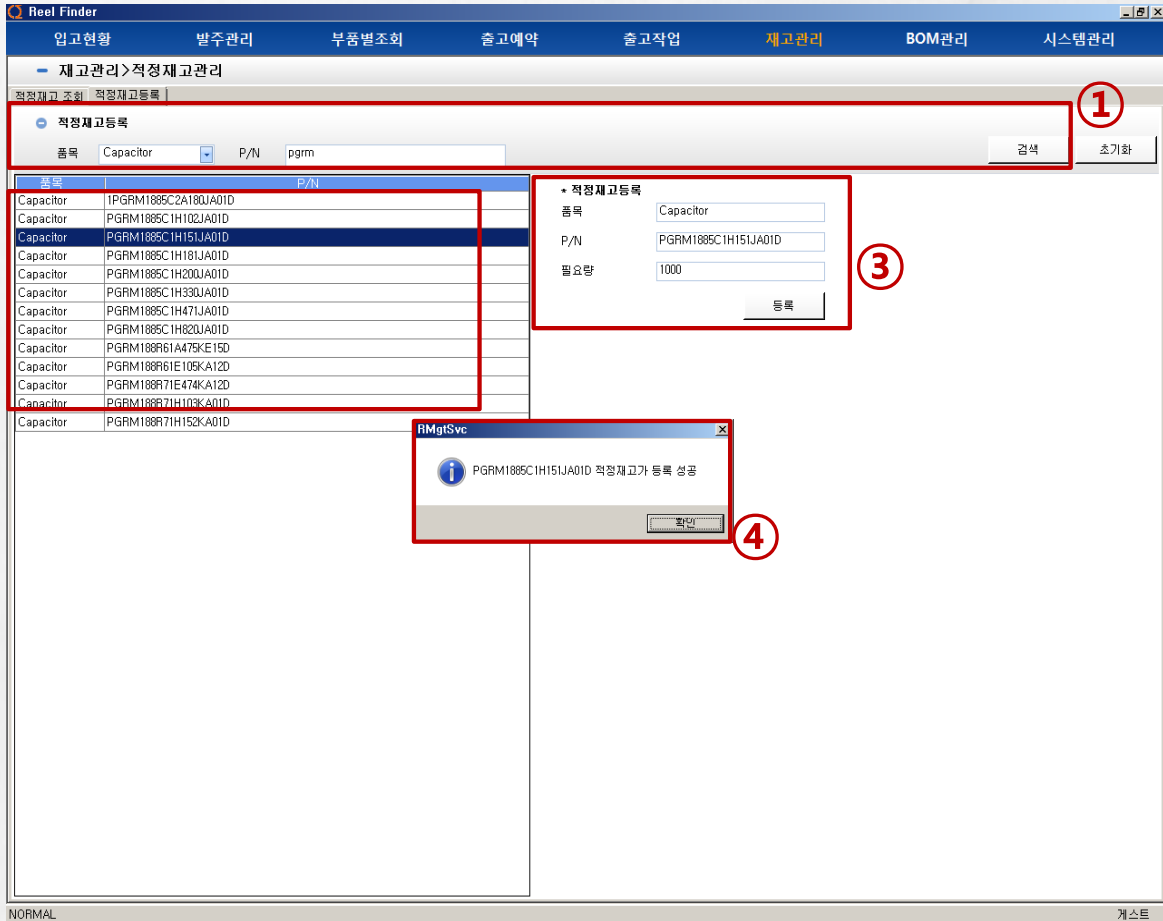
- 1) After selecting time period, click on "search" button.
- 2) When a list of release stand-by, within the period, is displayed, double-click on wanted release stand-by list.
- 3) Selected list of release data page will be displayed.
- 4) On the displayed page, click on either "Process release" or "Cancel release."
- 5) You can check the list of completed list on release process-release completion list. (refer to manual 8.2)

I. User Program

9.1 Optimal Inventory Management

(Registration) What is optimal inventory? It is amount of materials that are required to store.

Possible to set an alert when the inventory falls below
(Refer to alarm setting manual 11.2)



▪ How to register optimal inventory

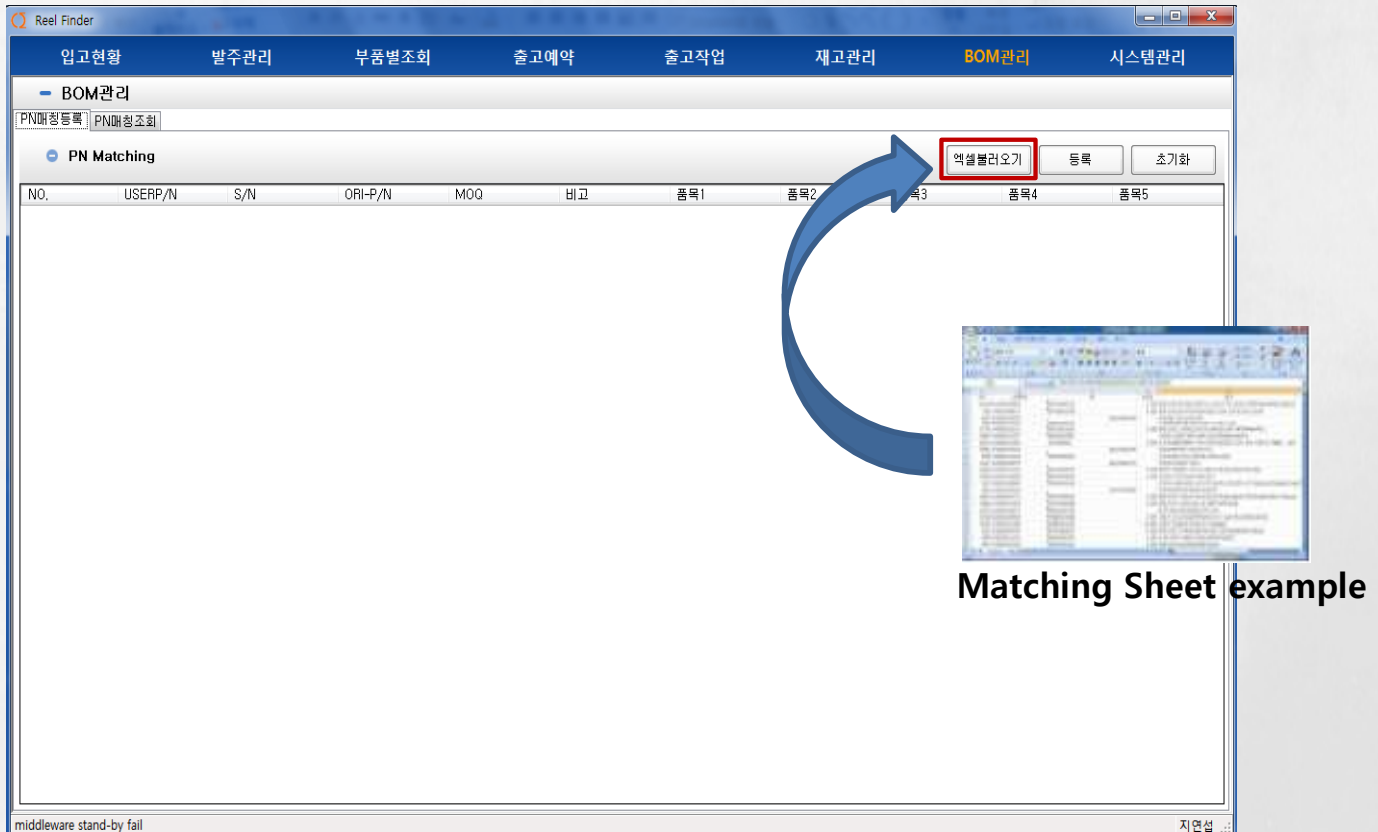
- 1) After selecting product or entering P/N, click on "Search" button.
- 2) Applicable list will be inquired(②).
- 3) Double-click on the list you wish to register as optimal inventory.
- 4) Enter required amount on ③, and click on "Register" button.
- 5) When "Optimal inventory registration success" pop-up window appears, registration is completed.

※ When optimal inventory registration is completed, you can check on inquiry menu.

I. User Program

10.1 PN Matching (Registration)

On user program's PN matching, user can save data on DB en block by registering an Excel spreadsheet, without having to register on registration device manually.



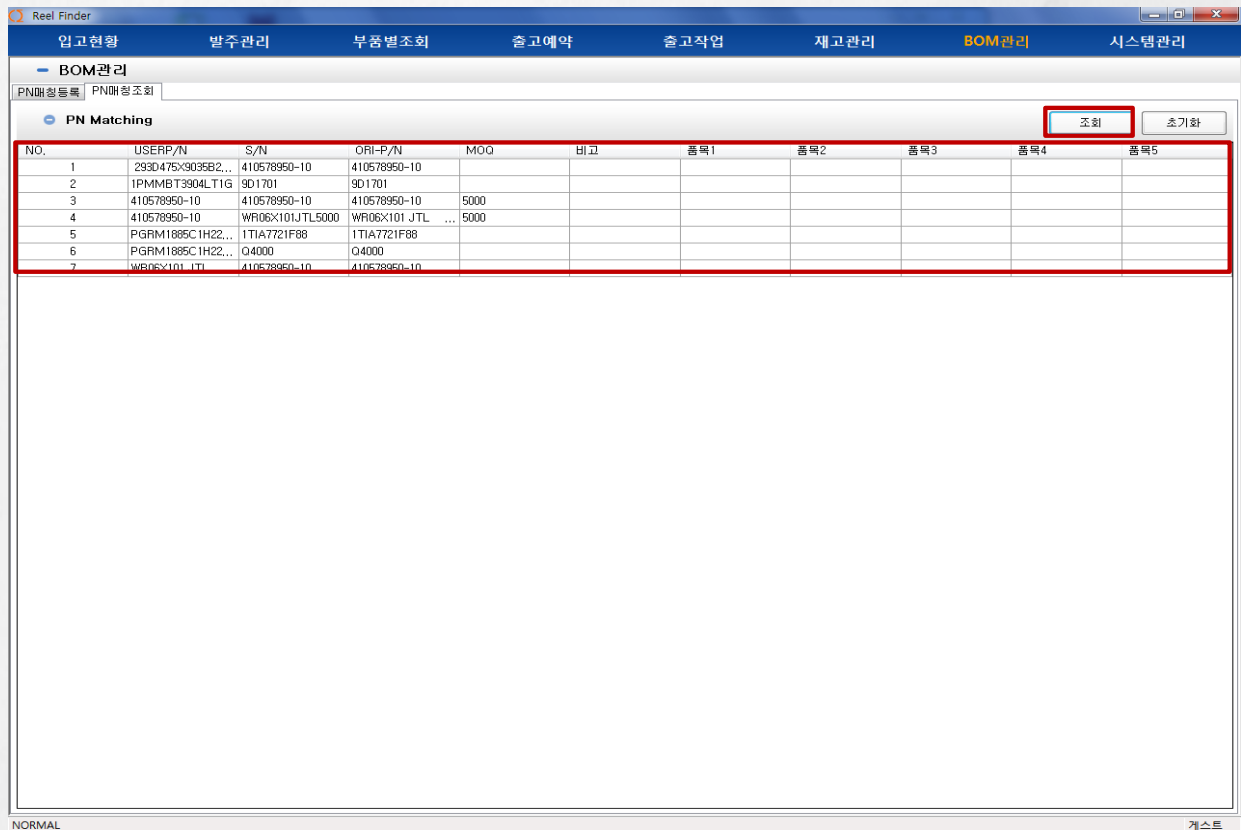
▪ PN 매칭 등록 방법 How to do PN matching

- 1) Write and save a matching Sheet in Microsoft Excel.
- 2) After clicking on "Open spreadsheet", open the saved Excel spreadsheet.
- 3) Matching Sheet is saved in DB successfully.

I. User Program

10.1 PN Matching (Inquiry)

This is a display to inquire completed articles with PN matching.



NO.	USERP/N	S/N	ORI-P/N	MOQ	비고	품목1	품목2	품목3	품목4	품목5
1	293D475X9035B2...	410578950-10	410578950-10							
2	1PMMBT3904LT1G	9D1701	9D1701							
3	410578950-10	410578950-10	410578950-10	5000						
4	410578950-10	WR06X101JTL5000	WR06X101 JTL ...	5000						
5	PGRM1885C1H22...	1TIA7721F88	1TIA7721F88							
6	PGRM1885C1H22...	O4000	O4000							
7	WR06X101 JTL	410578950-10	410578950-10							

▪ How to inquire PN matching

- 1) Click on "Inquiry" button.
- 2) It inquires manually mapped articles on registration device and mapping articles on Excel spreadsheet.

I. User Program

10.2 Product Registration

This is a display to register product's name and version.

The screenshot shows the 'Reel Finder' application window with the 'BOM관리' (BOM Management) menu selected. The interface is divided into two main sections. On the left, a table lists existing products with columns for '제품' (Product), '버전' (Version), and '날짜' (Date). A red box labeled '2' highlights this table. On the right, a form for adding a new product is visible. It includes input fields for '제품' (Product) and '버전' (Version), with 'TEST1' and 'V1.0.0' entered respectively. A red box labeled '1' highlights these input fields. Below the inputs are buttons for '제품생성' (Create Product) and '초기화' (Reset). A red box labeled '3' highlights the '선택' (Select) column in the table, which contains checkboxes. At the bottom of the table, a red box labeled '4' highlights the '삭제' (Delete) button. The bottom status bar shows 'FINDREEL' on the left and '게스트' (Guest) on the right.

제품	버전	날짜	선택
CHR1356LR_SMD	V1.0.0	2018-04-30	☐
CRE1356LR_1MB_SMD	V1.0.0	2018-02-22	☐
CRE1356LR-1CH	V1.0.0	2018-03-27	☐
CRE1356LR-2CH	V1.0.0	2018-03-27	☐
CRE1356PLUS-2R_SMD	V1.0.0	2018-03-06	☐
REELFINDER_SMD	V1.0.0	2018-05-14	☐
RFM125-5_SMD	V1.0.0	2018-03-27	☐
RFM125_SMD	V1.0.0	2018-03-27	☐
TCPIP	V1.0.0	2018-05-10	☐
TDBI.LCD	V1.0.0	2017-06-23	☐

▪ How to register product

- 1) After entering product's name and version, click on "Create product" button.
- 2) You can check created product article on ②.

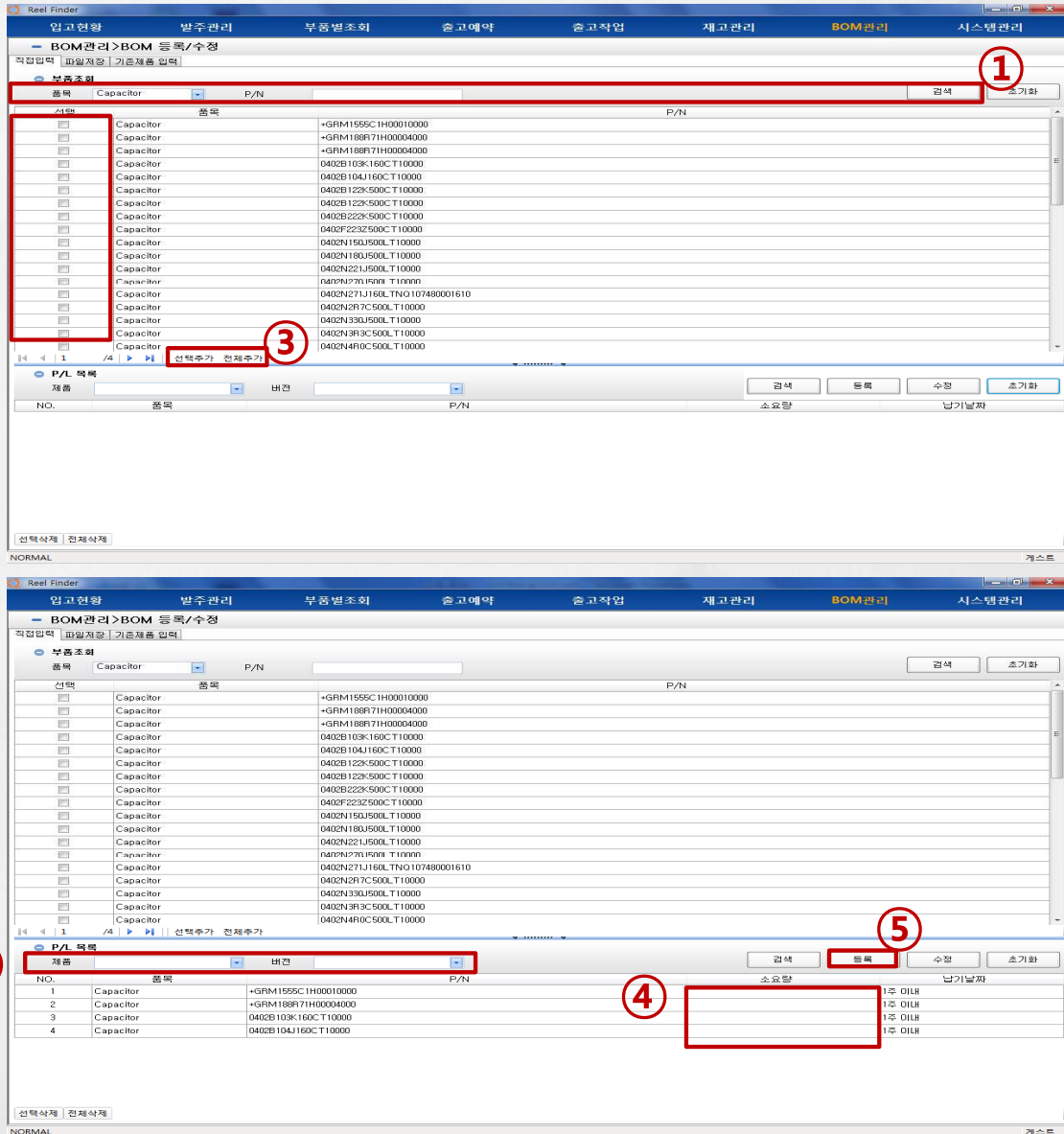
※ If you wish to delete, check on ③ and click on delete button(④).

※ If there is no version, you can keep the basic setting.

I. User Program

10.3 BOM Registration (manually)

This is a display that a user can register BOM manually.



How to register BOM (manually)

- 1) After selecting product or entering P/N, click on "Search" button.
- 2) When list is inquired, check on the article you wish to register BOM(②).
- 3) After checked, click on "add selected" button(③).
- 4) Enter required entry (demand quantity), product, version(④), of added list, and click on "Registration" button(⑤).

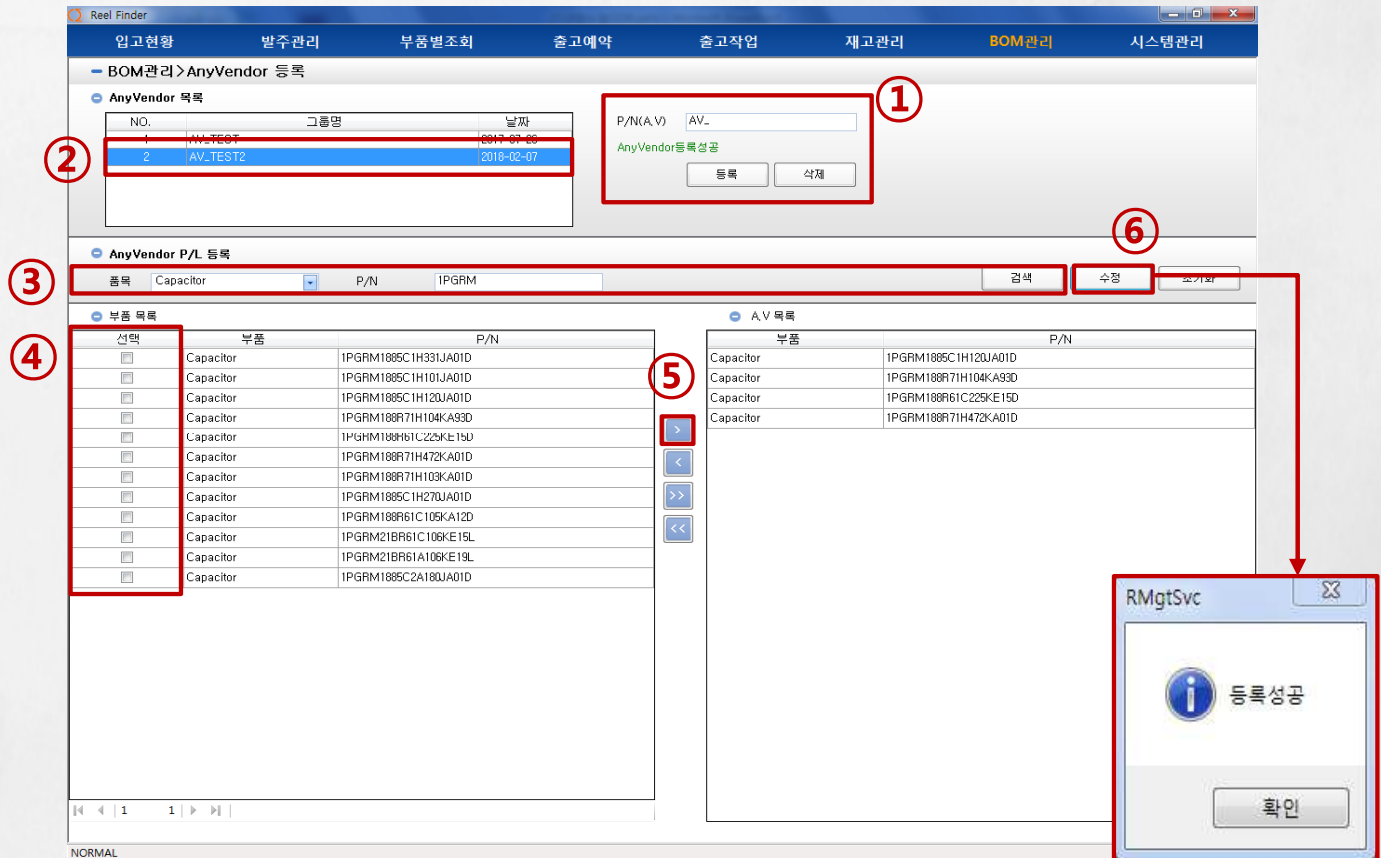
※ You can check registered BOM list on BOM inquiry menu.

I. User Program

10.4 AnyVendor Registration

- What is AnyVendor?

When a certain material is in shortage, a list of substitute materials



- How to register AnyVendor

- 1) Enter an article name that you wish to assign as AnyVendor, and click on "Register" button.
- 2) Registered articles from 1) are added on AnyVendor list, and when you double click, P/L registration below will be vitalized.
- 3) After selecting or entering P/N, click on "Search" button(③)
- 4) Check on articles that you wish to register as AnyVendor, from parts list, and click on > button(⑤).
- 5) When you click on "Edit" button(⑥), "Registration complete" pop-up window will appear.

I. User Program

11. System Management

This is a screen display of user program's system management. You can search and change user's personal information or select options or settings.

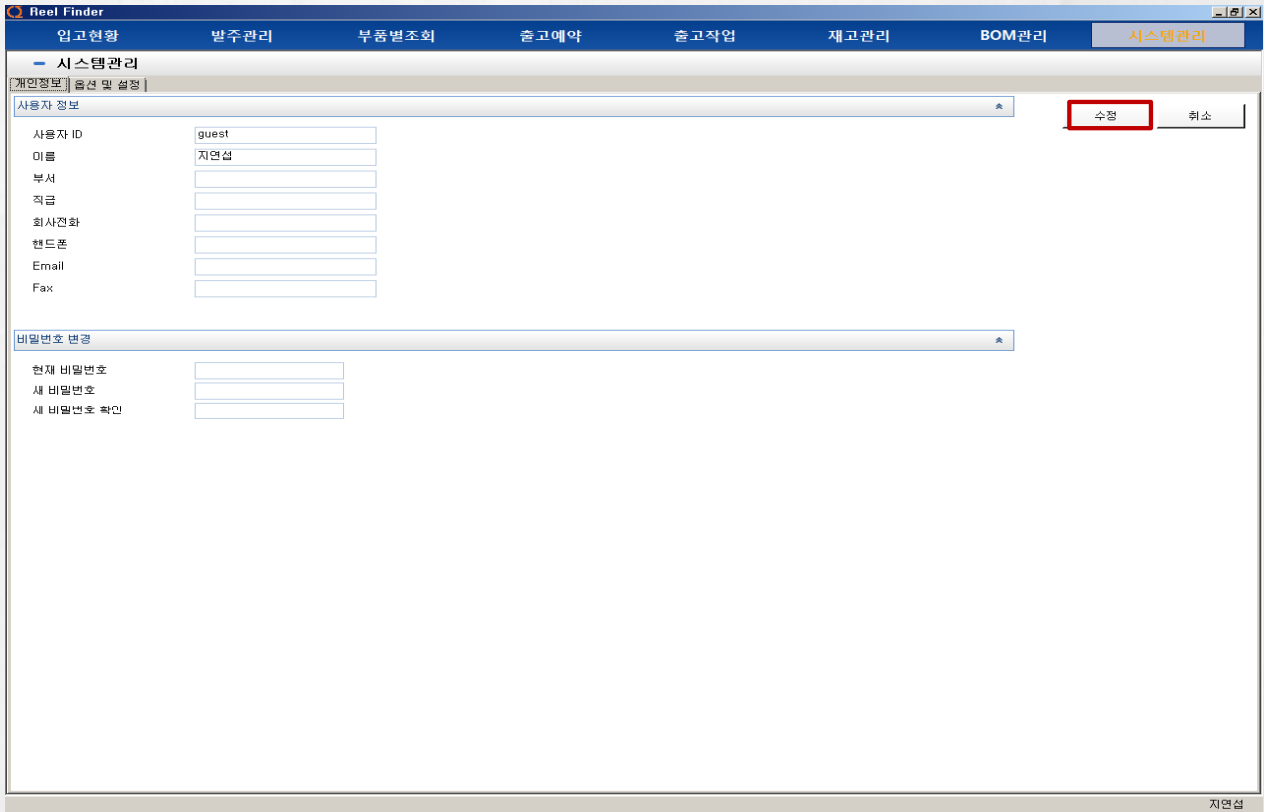
The screenshot shows the 'Reel Finder' application window with the '시스템관리' (System Management) tab selected. The '사용자 정보' (User Information) section is active, displaying a form for user details. The form includes fields for '사용자 ID' (User ID) with the value 'guest', '이름' (Name) with '지연섭', '부서' (Department), '직급' (Rank), '회사전화' (Company Phone), '핸드폰' (Mobile Phone), 'Email', and 'Fax'. There are '수정' (Modify) and '취소' (Cancel) buttons. Below this is the '비밀번호 변경' (Change Password) section with fields for '현재 비밀번호' (Current Password), '새 비밀번호' (New Password), and '새 비밀번호 확인' (Confirm New Password). A large text overlay 'Personal information' is centered on the screen.

The screenshot shows the 'Reel Finder' application window with the '시스템관리' (System Management) tab selected. The '적정재고 알람' (Optimal Inventory Alarm) section is active, displaying a form for alarm settings. The form includes a '알람 모니터링 설정' (Alarm Monitoring Setting) section with radio buttons for '수동' (Manual), '몇 시간마다' (Every few hours), '몇 주마다' (Every few weeks), and '매일' (Daily). There is a '수정' (Modify) button. Below this is the '선택설정' (Optional Settings) section with checkboxes for 'USERP/N 사용' (Use USERP/N), '경광등 부저' (Buzzer), '임의출고알람' (Arbitrary Release Alarm), '순차적 LED ON' (Sequential LED ON), '간헐속정 사용' (Intermittent Speed Setting), 'Host Interface Server', and '선입선출법' (First In First Out Method). There is a '수정' (Modify) button. Below this is the '일반 설정' (General Settings) section with a checkbox for '자동로그인' (Auto Login) and a '수정' (Modify) button. A large text overlay 'Options and setting' is centered on the screen.

I. User Program

11.1 Account Management

On account management menu, you can change user information and password.



The screenshot shows the 'Reel Finder' application window with the '시스템관리' (System Management) menu selected. The '개인정보' (Personal Information) sub-menu is active, displaying two sections: '사용자 정보' (User Information) and '비밀번호 변경' (Change Password). The '사용자 정보' section contains input fields for '사용자 ID' (User ID), '이름' (Name), '부서' (Department), '직급' (Rank), '회사전화' (Company Phone), '핸드폰' (Mobile Phone), 'Email', and 'Fax'. The '비밀번호 변경' section contains input fields for '현재 비밀번호' (Current Password), '새 비밀번호' (New Password), and '새 비밀번호 확인' (Confirm New Password). A red box highlights the '수정' (Change) button in the top right corner of the '사용자 정보' section. The '취소' (Cancel) button is also visible next to it. The bottom right corner of the window shows the user '지연섭' (Jiyeon-seop).

▪ How to set personal information

- When you want to change user information, enter the information you wish to update and click on "Change" button.
- If you wish to change password, enter current password and new password and click on "change" button.

I. User Program

11.2 Options and Setting

On options and setting menu, you can change optimal inventory alarm setting and shelf setting.

The screenshot shows the 'REEL FINDER' application window with the '시스템관리' (System Management) menu selected. The '적정재고알람' (Optimal Inventory Alarm) section is highlighted with a red box. It contains the '알람 모니터링 설정' (Alarm Monitoring Setting) with radio buttons for '수동' (Manual), '몇 시간마다' (Every few hours), '몇 주마다' (Every few weeks), and '매일' (Daily). The '수정' (Change) button is visible. Below this, the '일반설정' (General Settings) section is also highlighted with a red box. It includes checkboxes for 'USERP/N 사용' (Use USERP/N), '경황등 부저' (Buzzer for status light), '임의출고알람' (Arbitrary release alarm), '순차적 LED ON' (Sequential LED ON), '잔량측정 사용' (Use remaining quantity measurement), and 'Host Interface Server'. There is a '시간설정' (Time setting) field set to '00시00분'. A '선택설정' (Select setting) section contains input fields for 'HIS IP', 'HIS PORT1', and 'HIS PORT2'. A '출고작업' (Release work) dropdown menu is set to '선입선출법' (First in, first out). The '일반 설정' (General setting) section at the bottom has a checkbox for '자동로그인' (Auto login) and a '수정' (Change) button. The status bar at the bottom indicates 'NORMAL'.

▪ Optimal inventory alarm setting

Alarm set for when a minimum required number of materials fall below the set number, at a set time.

▪ Auto login setting

If you want to set up auto login, check the selected box and click on "change" button.

I. User Program

11.2 Options and Setting

REEL FINDER

입고관리 발주등록 재고현황 재고관리 출고관리 출고예약 BOM관리 시스템관리

시스템관리

계정관리 옵션 및 설정 적정재고알람

알람 모니터링 설정

☒ 수동
☐ 몇 시간마다
☐ 몇 주마다
☐ 매일

수정

선반설정

☐ USERP/N 사용
☐ 경광등 부저
☐ 임의출고알람
☒ 순차적 LED ON
☒ 잔량측정 사용
☒ Host Interface Server

시간설정 00시00분

출고작업 선입선출법 선입선출법 소용량 번호 지정

수정

일반 설정

☐ 자동로그인

수정

NORMAL

- Use USER P/N : managing its own P/N code
- Light buzzer : using light buzzer on the top of shelf
- Temporary release alarm : turning on red LED light when it's temporarily released
- LED ON in order : take out reels in order
(Take the reel out according to the order that LED lights blink)
- Remaining amount check : after hatching a reel for certain time, its remaining amount must be checked
- Host Interface Server : server ip address setting
- Release process : selecting a releasing method by first come-first served, demand quantity, and reserved numbers
 - 1) First come-first served : searching by entering early orders in warehouse, and less remaining amount receiving its priority
 - 2) Demand quantity : searching by entering early orders in warehouse, and having more than requested demand quantity receiving its priority

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I. Problem Solving

Condition	Cause and solution
When it doesn't move to the next display on registration device's network checking display	Check if the registration device's lan cable is plugged in properly on the back
When the registrator is not recognizing the barcode	Check if the barcode's USB is plugged properly on the back of registration device
When registration device's bar freeze in the middle of processing	Turn off the registration device and turn back on
When light on top of shelf is not turning on	Turn of the shelf's power and turn back on
When user program doesn't log in	1) Check if the main shelf is on 2) Check if the internet on PC is properly connected

➤ When you can't solve the issue, contact Ceyon Tellinventory Co., LTD. directly.

II. Arrangement of Terms

Terms	Explanations
AnyVendor	list of substitutes when a certain material runs out
BOM (Bills of Material)	list of all of assemblies, sub-assemblies, components, parts and raw materials, and product structure information for products with necessary quantity
BCR (Barcode Reader)	Barcode reader
ETR (Export Run)	Export run
ETC (Export Completion)	Export completion
GR (Gross Requirement Planning)	Gross requirement planning
MOQ (Minimum Order Quantity)	Minimum order quantity
MRP (Material Requirements Planning)	Release reservation (Material requirements planning)
M/W (Middleware)	software that connects multiple computers with many processes to allow a service, using network
P/L	Product list
P/N	Product number
PO (Purchase Order)	Purchase order
POH (Projected on Hand)	Expected inventory
Shelf State	Shelf state
Shelf Type	Shelf type
S/N (Serial Number)	Serial number
SR (Scheduled Receipt)	Re-warehousing

II. Arrangement of Terms

Terms	Explanations
TID (Tag ID)	each part's or material's unique management number
over-and-short	amount of current quantity over or less, compared to optimal quantity
inside diameter	product's inner diameter
Release	taking the product out
insufficient materials	amount of demand quantity over available quantity
useless materials	parts or single product that are not as useful anymore due to production alteration or suspension.
demand quantity	demand quantity(pure demand quantity)
external diameter	product's outer diameter
remaining amount	amount that is left
optimal inventory	residual quantity that can most economically satisfy its demand



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