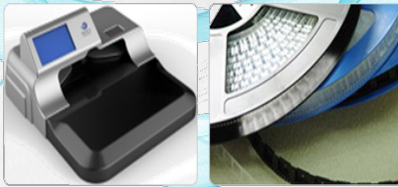


Reel Materials Management System User Manual

Ceyon
Tellinventory

RFID/USN이 세상을 바꿉니다.



CEYON TELLINVENTORY CO.,LTD.

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1
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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

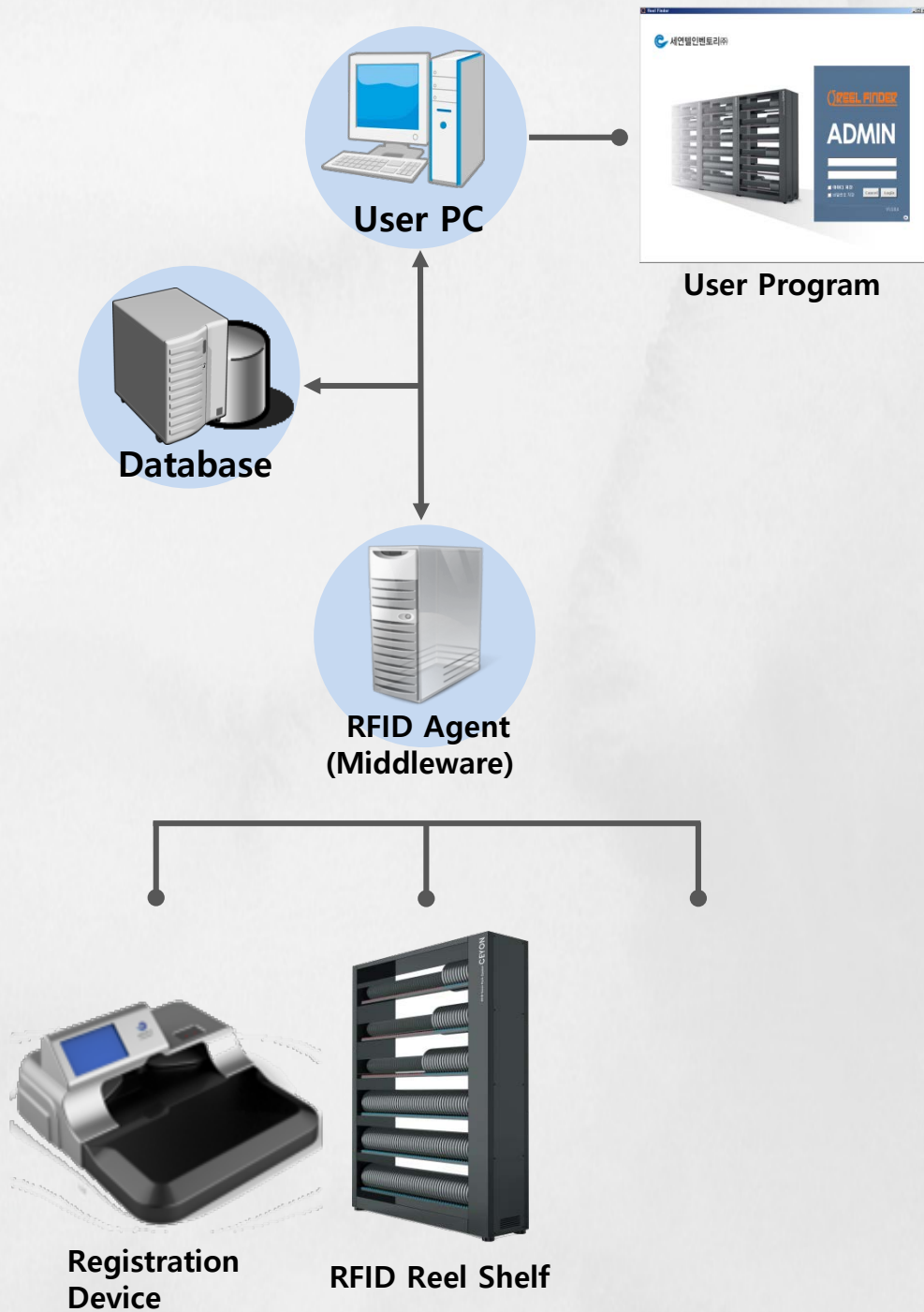


This is a program that allows operation of registered reel's information on administrator's PC conveniently.

- 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

I. Outline

2. Diagram of Reel Materials management system



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

CEYON TELLINVENTORY

Advantage Effect System Process Product Support

실시간물관리 시스템

입출고 관리 | 보유부품 관리 | 보유 자재 관리 | 적정 자재 관리 | 재고별 생산가능수량관리

- 중소기업 생산관리의 혁명
- BOM만 관리하면 생산이 한손에!
- 부품관리에 키보드 Free
- 부품찾는 시간 제로화 선언

다양한 크기 릴의 개별 적재
적재된 릴에 각각의 LED 인디게이트 적용
재고 현황 및 위치 정보 실시간 연동

구분 사양 - 표준선반 1개당 최대 적재 수량 315개

소개 동영상 Download

소개 PPT Download

운영 SW Download

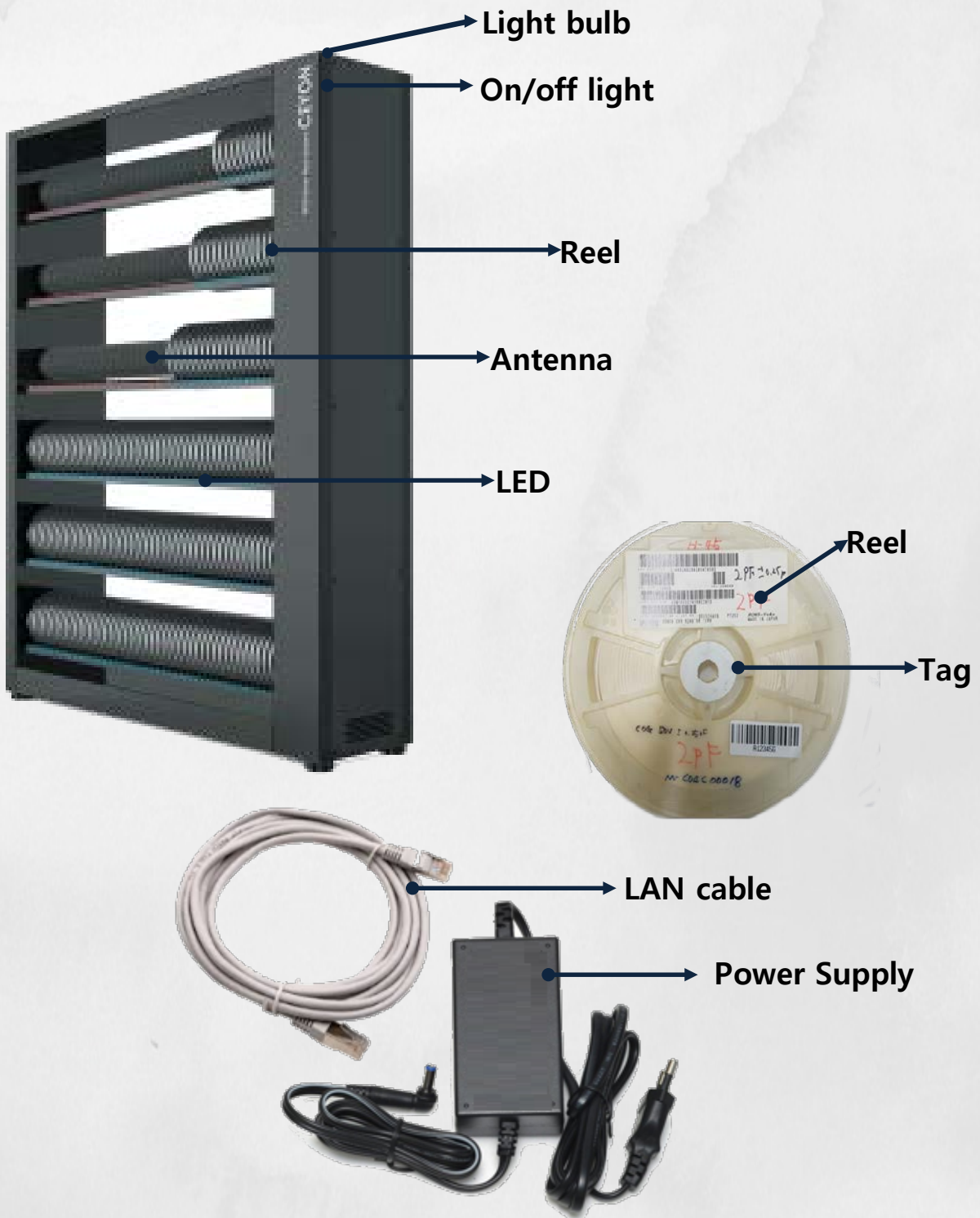
▪ How to set up User Program

- 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.

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2
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I. Shelf

1. Shelf Composition



I. Shelf

2. 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.

3. 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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3
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I. User Program

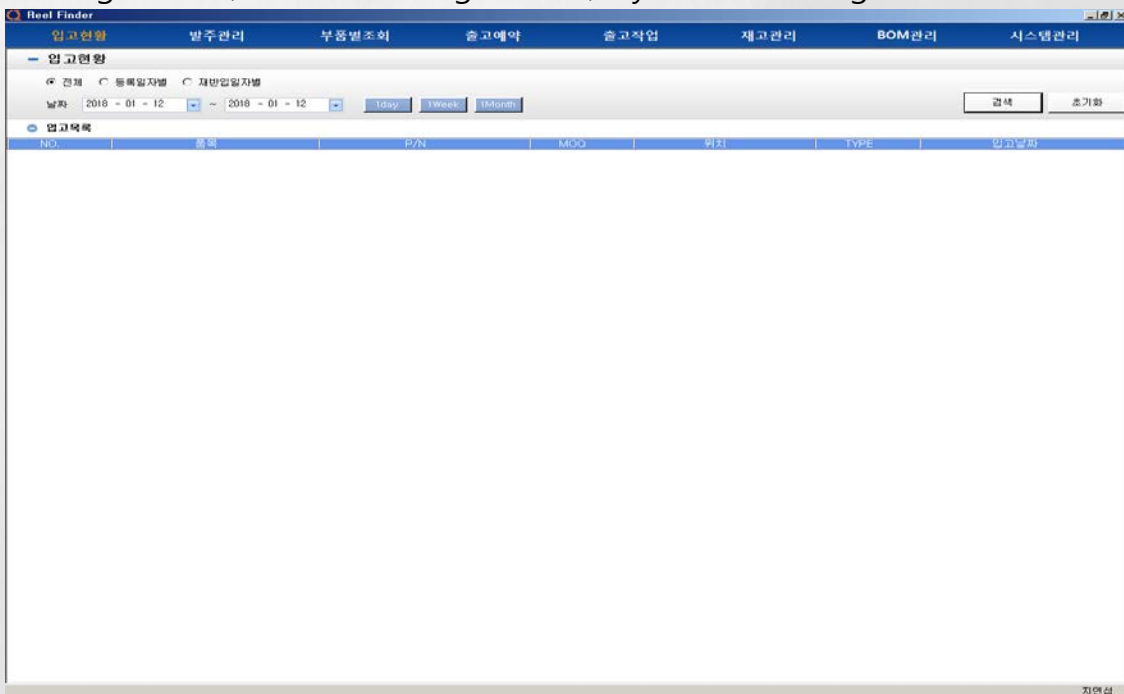
1. User Program Practice and Login

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 <ul style="list-style-type: none">• Order registration• Order inquiry	부품별조회	출고예약 <ul style="list-style-type: none">• Parts release reservation• Product release reservation
출고작업 <ul style="list-style-type: none">• Release stand-by• Release completion list	재고관리 <ul style="list-style-type: none">• Useless materials management• Optimal material management	BOM관리 <ul style="list-style-type: none">• PN matching• Product registration• BOM registration• BOM inquiry• AnyVendor registration	시스템관리 <ul style="list-style-type: none">• 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 | 입고예약 | 입고작업 | 재고관리 | BOM관리 | 시스템관리

입고현황

전체 | 등록일자별 | 자반입일자별

날짜: 2018 - 01 - 12 ~ 2018 - 01 - 12 | 1Day | 1Week | 1Month

검색 | 초기화

NO.	종목	P/N	MOQ	위치	TYPE	입고일자
-----	----	-----	-----	----	------	------

Reel Finder

입고현황 | 발주관리 | 부품별조회 | 입고예약 | 입고작업 | 재고관리 | BOM관리 | 시스템관리

입고현황

전체 | 등록일자별 | 자반입일자별

날짜: 2017 - 01 - 05 ~ 2018 - 01 - 12 | 1Day | 1Week | 1Month

검색 | 초기화

NO.	종목	P/N	MOQ	위치	TYPE	입고일자
1	Capacitor	PGRM2185C 1H222JA01D	1916	CEV104.5 / 5.9	REEL	2017-11-23
2	Resistor	ABAC06P00140004000	3600	CEV104.5 / 5.8	REEL	2017-12-14
3	Capacitor	PGRM159R17H102CA01D	3555	CEV104.5 / 5.7	REEL	2017-11-27
4	Capacitor	IPSS14-E 3/61T	23	CEV104.5 / 5.6	REEL	2017-11-23
5	Capacitor	CE1000-763025000R0B	3151	CEV104.5 / 5.5	REEL	2017-12-11
6	Capacitor	0603N220500LT4000	1689	CEV104.5 / 5.45	REEL	2017-12-14
7	Capacitor	0402N100500LT10000	4224	CEV104.5 / 5.44	REEL	2017-12-11
8	Capacitor	WR0405R0P TL10000	8338	CEV104.5 / 5.42	REEL	2017-11-23
9	Capacitor	PGRM189R1E105CA12D	282	CEV104.5 / 5.41	REEL	2017-11-23
10	Resistor	WR0607R5 TL5000	4180	CEV104.5 / 5.4	REEL	2017-11-29
11	Capacitor	GAAG04963	4355	CEV104.5 / 5.39	REEL	2017-11-23
12	Resistor	WR04010U TL10000	5306	CEV104.5 / 5.39	REEL	2017-11-23
13	Capacitor	WR0204R10P TL4000	3648	CEV104.5 / 5.37	REEL	2017-12-11
14	Capacitor	WR060303P TL5000	3237	CEV104.5 / 5.36	REEL	2017-11-23
15	Capacitor	ACR0402T000J0D	6048	CEV104.5 / 5.35	REEL	2017-11-23
16	Capacitor	STPB3216-260PT	3487	CEV104.5 / 5.34	REEL	2017-11-24
17	Capacitor	STPB3216-260PT	3600	CEV104.5 / 5.33	REEL	2017-11-24
18	Resistor	PGRM1895C 1H275JA01D	2230	CEV104.5 / 5.32	REEL	2017-11-24
19	Capacitor	P2203-000088	2930	CEV104.5 / 5.31	REEL	2017-11-24
20	Capacitor	GRM189R1E105CA12D	1990	CEV104.5 / 5.30	REEL	2017-11-24
21	Capacitor	PGRM189R1E105CA12D	1037	CEV104.5 / 5.3	REEL	2017-11-24
22	Capacitor	STPB3216-260PT	1277	CEV104.5 / 5.29	REEL	2017-11-24
23	Backplane	1PC47100136JPN	732	CEV104.5 / 5.28	REEL	2017-11-24
24	Capacitor	STPB3216-260PT	2157	CEV104.5 / 5.27	REEL	2017-11-24
25	Capacitor	STPB3216-260PT	3123	CEV104.5 / 5.25	REEL	2017-11-24
26	Backplane	+GRM1895C 1H00004000	2489	CEV104.5 / 5.24	REEL	2017-11-24
27	Capacitor	RM04F TN1002	91	CEV104.5 / 5.23	REEL	2017-11-24
28	Resistor	WR060223U TL5000	4500	CEV104.5 / 5.22	REEL	2017-12-14
29	Capacitor	STPB2012-400PT	678	CEV104.5 / 5.21	REEL	2017-11-24
30	Resistor	P2203-005249	316	CEV104.5 / 5.20	REEL	2017-11-24
31	Resistor	PGRM1895C 1H180JA01D	688	CEV104.5 / 5.2	REEL	2017-11-23
32	Capacitor	MC103E2PSPX1800B	1391	CEV104.5 / 5.19	REEL	2017-11-24
33	Capacitor	MCR01M2PE10304	4418	CEV104.5 / 5.18	REEL	2017-11-23
34	Capacitor	PGRM1895C 1H200JA01D	1717	CEV104.5 / 5.17	REEL	2017-11-24
35	Capacitor	PGRM189R1E105CA12D	3291	CEV104.5 / 5.16	REEL	2017-11-24
36	Capacitor	1PGRM1895C 1H120JA01D	3291	CEV104.5 / 5.15	REEL	2017-11-24
37	Capacitor	PGRM1895C 1H180JA01D	2349	CEV104.5 / 5.14	REEL	2017-11-24
38	Capacitor	PGRM1895C 1H331JA01D	2176	CEV104.5 / 5.13	REEL	2017-11-24
39	Capacitor	MC103E2PSPX1800B	1391	CEV104.5 / 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.

Reel Finder

입고현황

발주관리

부품별조회

출고예약

출고작업

재고관리

BOM관리

시스템관리

발주등록

품목

재품

P/N

검색

초기화

구분	품목	P/N	MOQ	현재수량
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선택추가

현재추가

발주등록

발주번호

입일자

거래처

등록

삭제

초기화

No.	P/N	품목	MOQ	규격	입일자	재품	현재수량	발주수량	발주단위	납기날짜	선택
-----	-----	----	-----	----	-----	----	------	------	------	------	----

Order
Registration

소계

0

자연선택

Reel Finder

입고현황

발주관리

부품별조회

출고예약

출고작업

재고관리

BOM관리

시스템관리

발주관리

날짜

2018 - 01 - 12

2018 - 01 - 12

Today

1Week

1Month

검색

초기화

삭제

발주목록

No.	P.O.#	발주요청자	거래처	P.O. DATE
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Order
Inquiry

자연선택

I. User Program

5.1 Order Registration (1)

Reel Finder

입고현황 발주관리 부품별조회 출고예약 출고작업 재고관리 BOM관리 시스템관리

발주등록

품목 [] 제품 [] P/N [] 검색 초기화

선택	품목	P/N	MOQ	현재수량
<input type="checkbox"/>	Resistor	+GRM186500004000	4000	736
<input type="checkbox"/>	Backplane	+GRM1865C1H00004000	4000	15851
<input type="checkbox"/>		00000028	3000	2618
<input type="checkbox"/>	Capacitor	0010000402D7213K0	1000	89
<input type="checkbox"/>	Resistor	00109-0280	2000	1592
<input type="checkbox"/>		0030000744C2008K7	3000	2700
<input type="checkbox"/>	Resistor	010000073713276VF	10000	1895
<input type="checkbox"/>	Resistor	010000081238016K/	10000	6048
<input type="checkbox"/>	Resistor	010000100611919V7	10000	2866

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
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▪ 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)

발주등록

품목: [] 제품: REM134-4 P/N: 1 검색 초기화

선택	품명	P/N	MOQ	현재수량
<input type="checkbox"/>	Balun	IPGRM1885C1H220JA01D	4000	0
<input checked="" type="checkbox"/>	Capacitor	IPMMBT3904LT1G	3000	383
<input type="checkbox"/>	Capacitor	MCR03EZP5J201005000110310105H64	100000	0
<input checked="" type="checkbox"/>	Resistor	PGRM1885C1H471JA01D	4000	5991
<input type="checkbox"/>	Capacitor	PGRM188971H103KA01D	4000	2220
<input type="checkbox"/>	Capacitor	STGB3216-600PT	4000	8939
<input type="checkbox"/>	Capacitor	TAJA106M016RNJ	2000	339
<input type="checkbox"/>	Resistor	TAJB106K016RNJ	2000	1871
<input type="checkbox"/>	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	납기날짜	선택
1	IPMMBT3904LT1G	Capacitor	3000		guest		383	1				<input checked="" type="checkbox"/>
2	PGRM1885C1H471JA01D	Resistor	4000		guest		5991					<input checked="" type="checkbox"/>

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 Today 1Week 1Months 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	1PMMBT3904LT1G	1	1	1	0	대기	A	
2	PGRM1885C1H471JAD1D	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	수량	입고일자	재고상태	출고
----	-----	-----	----	------	------	----

Reel Finder

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

부품상태

품목: [] P/N: [] 검색 [] 초기화 [] 출고 []

품목	P/N	TID	수량	입고일자	재고상태	출고
	IPNLV32T-5P6J-EP	2017-11-24_00285	491	2017-12-06	CEY104.1/3.31	
	IPGRM1885C1HR60CA01D	2017-11-24_00066	3600	2017-12-05	CEY104.1/1.20	
	IPGRM1555C1H33QJZ01D	2017-12-07_00072	1278	2017-12-07	CEY104.1/7.11	
	IPGRM218R72A109KA01L	2017-12-05_00007	2348	2017-12-07	CEY104.1/5.18	
	IPGRM1555C1H110CA01D	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	
	IPGRM1555C1H110CA01D	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	
	IPRF2488R	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	
	IPLT6230S6WTRP6F0628T1T403475_3025004...	2017-12-05_00101	222	2017-12-08	CEY104.2/7.9	
	IPNLV32T-5P6J-EF	2017-12-07_00088	339	2017-12-08	CEY104.2/6.11	
	IPLT6230S6-1Q/C TRPBF	2017-12-05_00079	869	2017-12-08	CEY104.2/5.36	
	IPNPM21CC471R1H3D	2017-12-05_00141	923	2017-12-08	CEY104.2/6.28	
	IPGRM1885C1H110CA01D	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	
	IPLOP031N3GNJ04D	2017-12-05_00143	5230	2017-12-08	CEY104.2/7.8	
	IPGRM1555C1HR60CZ01D	2017-12-05_00108	7878	2017-12-08	CEY104.2/5.20	
	IPMM8430-2600RA1	2017-12-05_00042	276	2018-01-01	CEY104.2/6.39	
Backplane	IPAML1005H56N1JTS	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 top screenshot shows the 'Reel Finder' interface with a list of capacitors. A red box highlights the '출고' (Release) button in the top right corner, labeled with a circled '1'.

The bottom screenshot shows the same interface with a red box highlighting the '출고' (Release) button, labeled with a circled '2'. A second red box highlights a '출고 LED 알림' (Release LED Notification) dialog box that appears over the list, labeled with a circled '3'. This dialog box contains a table of released parts and a '종료' (End) button at the bottom, labeled with a circled '4'.

No.	P/N	TID	QTY	GRN
1	AW4PAE01820002000	2017-07-11_00169	120	●
2	BL-HG036A-AV-TRB	2017-07-11_00198	560	●
3	0402B122X500CT10000	2017-07-11_00134	600	●
4	PGRM1895C1H181JA010	2017-07-11_00295	1440	●
5	IP933976370215	2018-01-31_00038	2660	●
6	+GRM189R71H00004000	2017-07-11_00219	3520	●

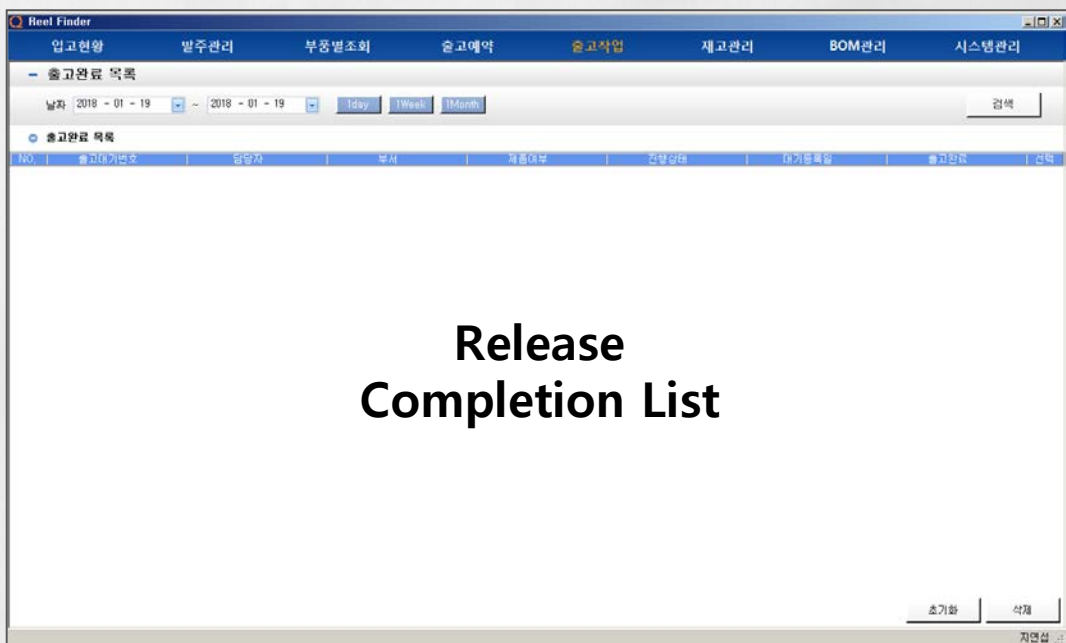
How to release immediately on inquiry by parts menu

- 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

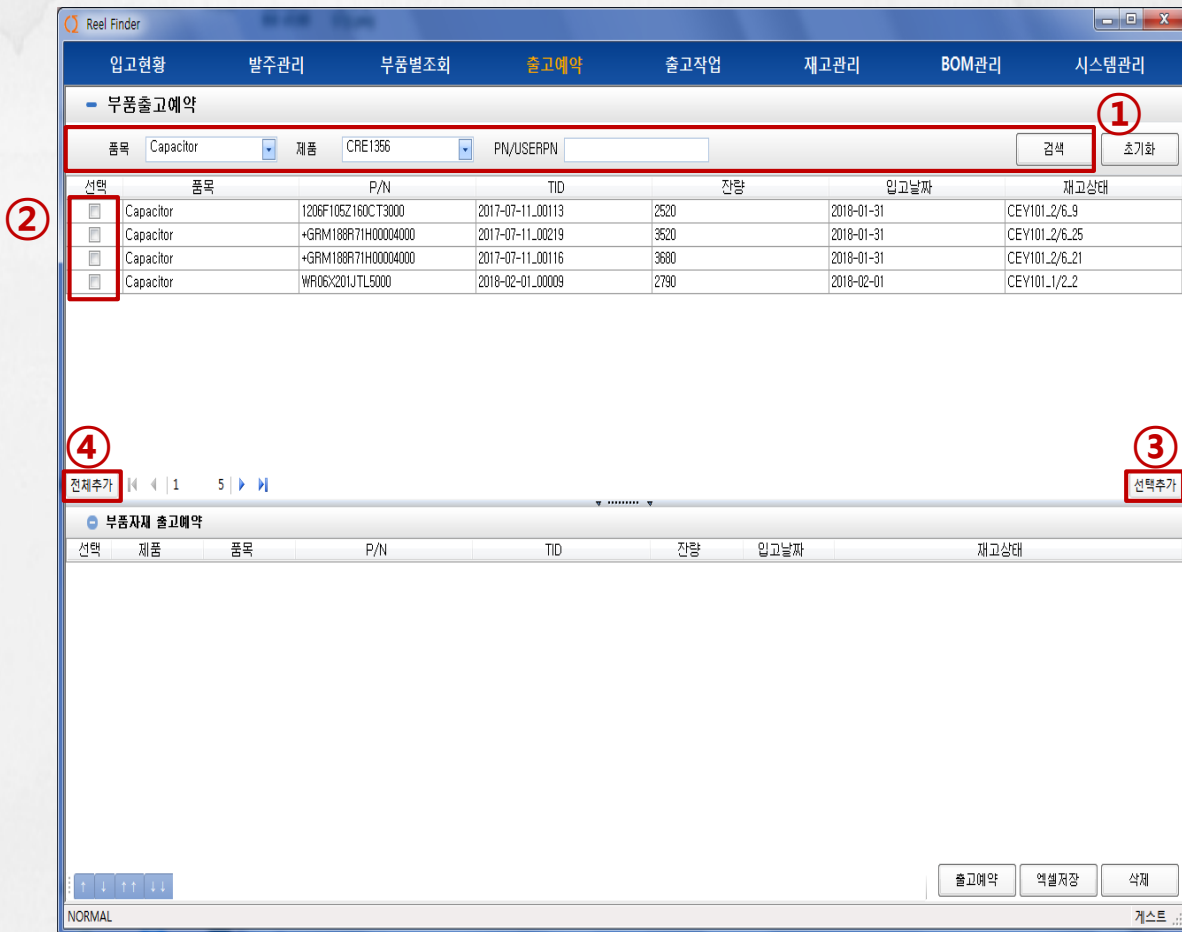
7. Release Process

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



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)

Reel Finder

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

부품출고예약

품목: Capacitor 재품: CRE1355 PN/USERPN: 검색 초기화

선택	품목	P/N	TID	잔량	입고날짜	재고상태
<input type="checkbox"/>	Capacitor	1206F105Z160CT3000	2017-07-11_00113	2520	2018-01-31	CEY101_2/6.9
<input type="checkbox"/>	Capacitor	+GRM188R71H00004000	2017-07-11_00219	3520	2018-01-31	CEY101_2/6.25
<input checked="" type="checkbox"/>	Capacitor	+GRM188R71H00004000	2017-07-11_00116	3680	2018-01-31	CEY101_2/6.21
<input checked="" type="checkbox"/>	Capacitor	WR06X201JTL5000	2018-02-01_00009	2790	2018-02-01	CEY101_1/2.2

전체추가 1 5 선택추가

부품재출고예약

선택	품목	P/N	TID	잔량	입고날짜	재고상태
<input checked="" type="checkbox"/>	Capacitor	+GRM188R71H00004000	2017-07-11_00116	3680	2018-01-31	CEY101_2/6.21
<input checked="" type="checkbox"/>	Capacitor	WR06X201JTL5000	2018-02-01_00009	2790	2018-02-01	CEY101_1/2.2

출고예약 엑셀저장 삭제

NORMAL 게스트

▪ How to make a parts-release reservation

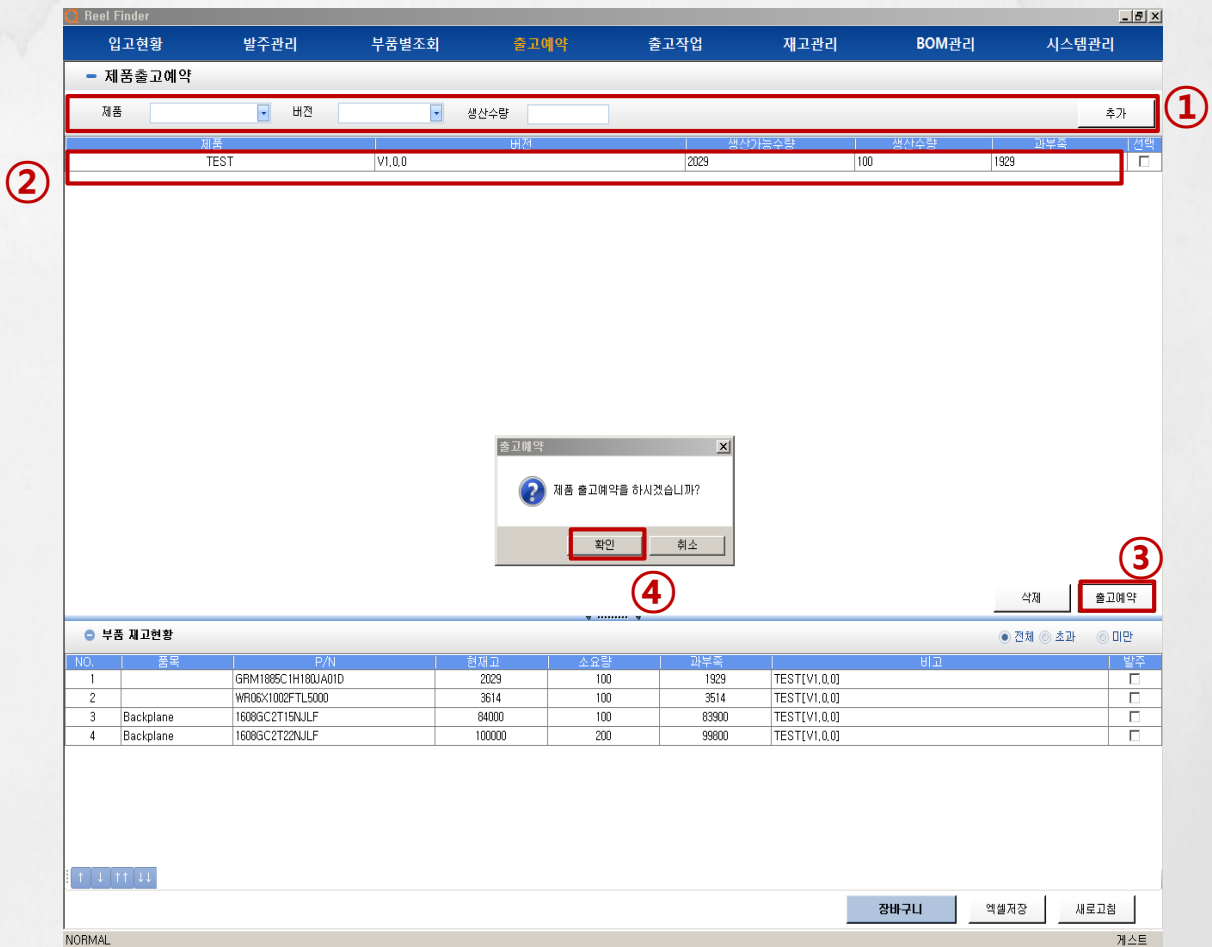
- 5) When the article is added, it is added into parts material release reservation list and check(⑤) on article that you wish to request release.
- 6) When you press on Release Reservation button(⑥), selected item's release reservation is completed.

※ 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.

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

제품출고예약

제품: [TESV] 버전: [V1.0.0] 생산수량: [0] 생산가능수량: [100] 과부족: [-100] [추가]

제품	버전	생산수량	생산가능수량	과부족	선택
TESV	V1.0.0	0	100	-100	<input type="checkbox"/>

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

삭제 출고예약

부품 재고현황 전제 초과 미만

NO.	품목	P/N	현재고	소요량	과부족	비고	발주
1	Backplane	1P0603CS-5N1XJLW	0	100	-100	TESV[V1.0.0]	<input type="checkbox"/>
2	Backplane	P1N1V321-F1270-PP	1694	100	1594	TESV[V1.0.0]	<input type="checkbox"/>
3	Backplane	10,218N2,J12	3840	100	3740	TESV[V1.0.0]	<input type="checkbox"/>

장배구니 역셀저장 새로고침

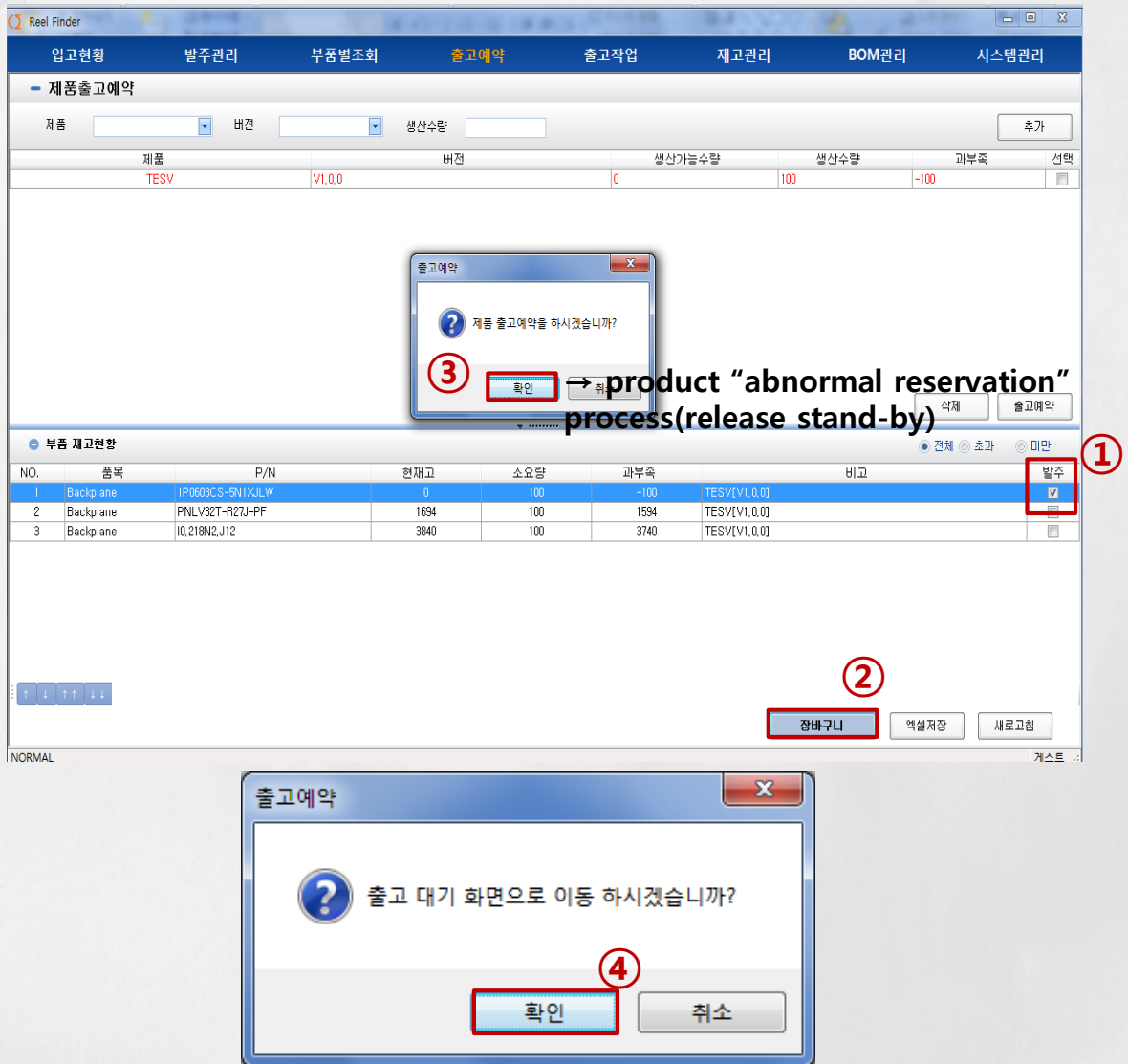
NORMAL 게스트

▪ 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



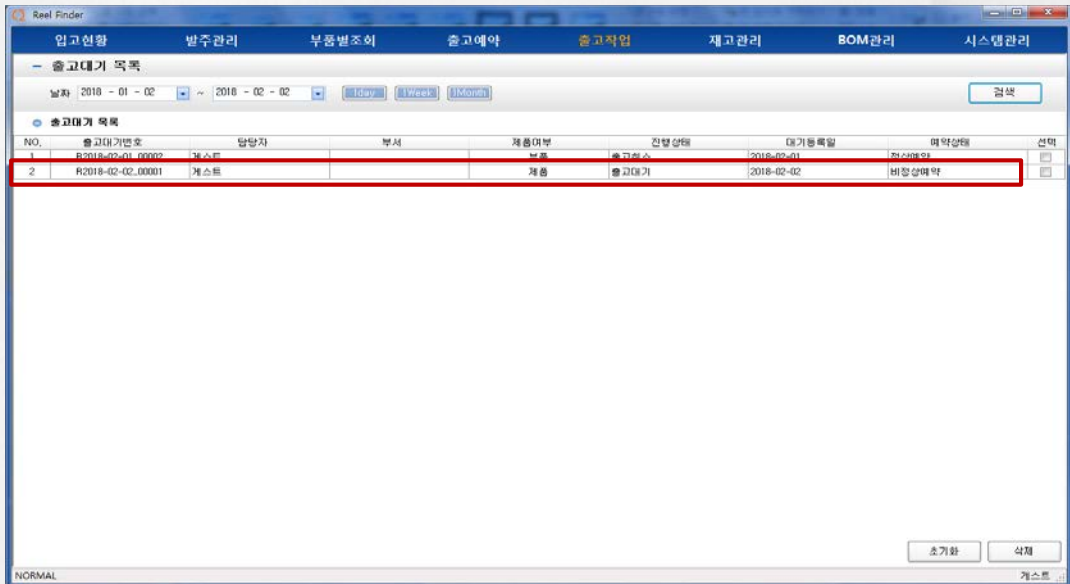
How to release product and order parts

- 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



Reel Finder

입고현황 발주관리 부품별조회 출고예약 출고작업 재고관리 BOM관리 시스템관리

출고대기 목록

날짜: 2018 - 01 - 02 ~ 2018 - 02 - 02 [1 Day] [1 Week] [1 Month] 검색

NO.	출고대기번호	담당자	부서	제품명	진행상태	대기종료일	비고	선택
1	R2018-02-01-00002	게스트		제품	출고완료	2018-02-01	정상예약	<input type="checkbox"/>
2	R2018-02-02-00001	게스트		제품	출고대기	2018-02-02	비정상예약	<input type="checkbox"/>

추가화 삭제

NORMAL 게스트



Reel Finder

입고현황 발주관리 부품별조회 출고예약 출고작업 재고관리 BOM관리 시스템관리

출고대기>출고정보

출고대기번호: R2018-02-02-00001 검색 Reel P/N 출고실행 출고취소 출고완료 역설지정

제품	버전	생산수량
TESV	V1.0.0	100

출고대기 목록

NO.	품목	P/N	출고수량	생산수량	잔량
1	Backplane	IP0609CS-8N1XJLW	8	100	-100
2	Backplane	PNLV32T-R27J-PF	840	100	740
3	Backplane	ID218KZ-312	3040	100	3740

NORMAL 게스트

▪ How to release product and order parts

- When you move to release stand-by display, release stand-by list will be inquired.
- 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 'Today', '1Week', and '1Month'. A search button '검색' is on the right. The main area displays a table with columns: 'NO.', '출고대기번호', '담당자', '부서', '제품여부', '전항상태', '대기종류', 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 '자세히' 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 area displays a table with columns: 'NO.', '출고대기번호', '담당자', '부서', '제품여부', '전항상태', '대기종류', '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 '자세히' 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.

Screenshot 1: Release Stand-by List

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

출고대기 목록

날짜: 2018-01-19 ~ 2018-01-19 | Today | 1Week | 1Month | 검색

NO.	출고대기번호	담당자	부서	제품어부	전행상태	대기종료일	선택
1	R2018-01-19_00001	지연섭		부품	출고대기	2018-01-19	<input type="checkbox"/>
2	R2018-01-19_00002	지연섭		부품	출고대기	2018-01-19	<input type="checkbox"/>

Screenshot 2: Release Information

출고대기 > 출고정보

출고대기번호: R2018-01-19_00001 | 검색 | Reel | P/N

NO.	출고대기번호	출고일	출고량	출고상태	출고완료	출고완료일	출고완료시간
1	R2018-01-19_00001	2018-01-19	1	출고중	출고완료	2018-01-19	10:00:00

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

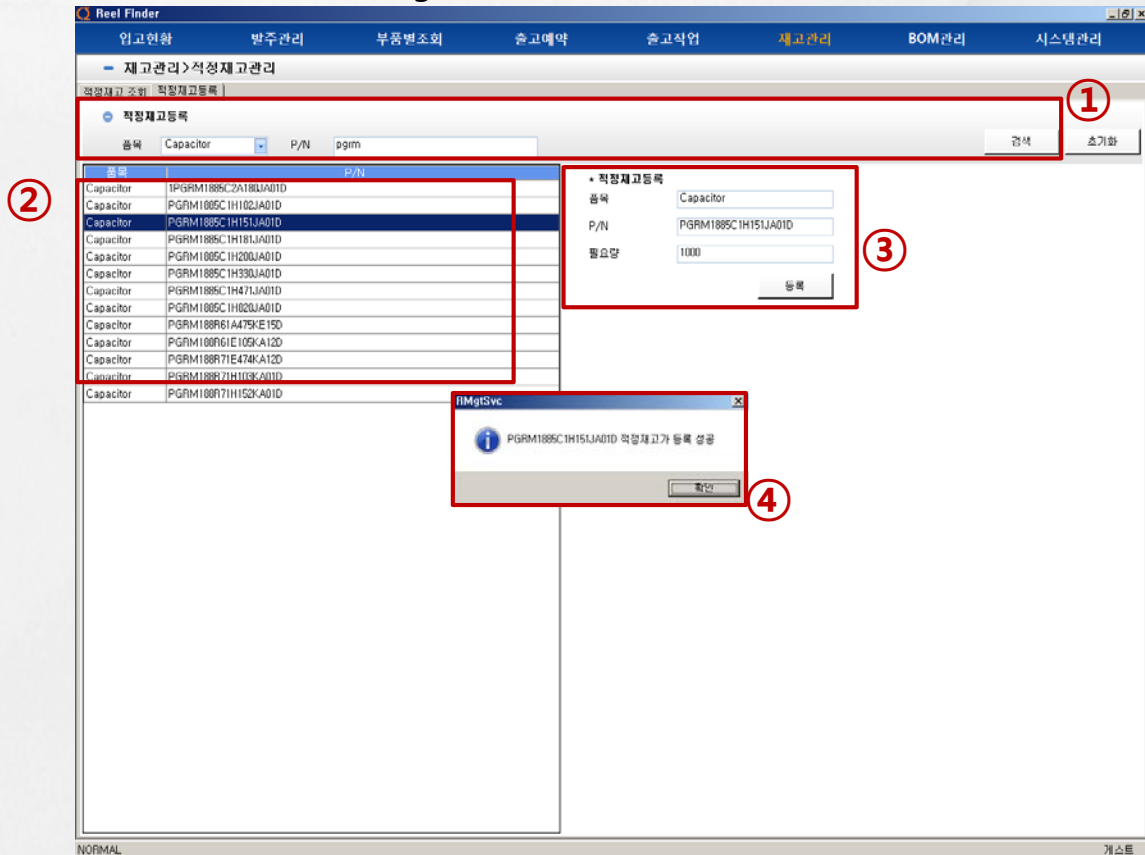
- 1) After selecting time period, click on "search" button.
- 2) When a list of release stand-by, within the period, is displayed, double-click on wanted release stand-by list.
- 3) Selected list of release data page will be displayed.
- 4) On the displayed page, click on either "Process release" or "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) 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

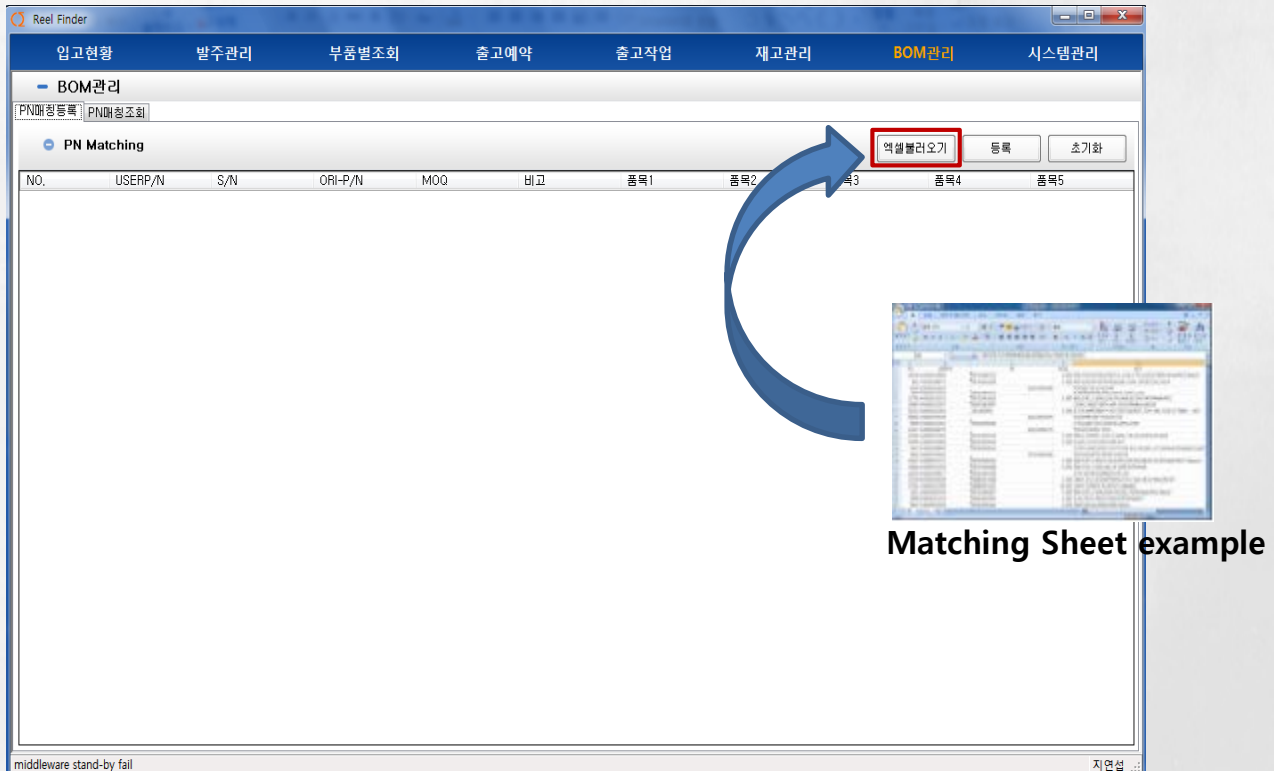
- 1) After selecting product or entering P/N, click on "Search" button.
- 2) Applicable list will be inquired(②).
- 3) Double-click on the list you wish to register as optimal inventory.
- 4) Enter required amount on ③, and click on "Register" button.
- 5) When "Optimal inventory registration success"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



▪ 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-IP/N	MOQ	입고	품목1	품목2	품목3	품목4	품목5
1	293047520035B2...	410578950-10	410578950-10							
2	1PMMMBT3904LT1G	901701	901701							
3	410578950-10	410578950-10	410578950-10	5000						
4	410578950-10	WR06X101JTL5000	WR06X101 JTL ...	5000						
5	PGRM1805C IH22...	1T1A7721F08	1T1A7721F08							
6	PGRM1805C IH22...	04000	04000							
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.

제품	버전	날짜	선택
CHR1356LR_SMD	V1.0.0	2018-04-30	<input type="checkbox"/>
CRE1356LR_1MB_SMD	V1.0.0	2018-02-22	<input type="checkbox"/>
CRE1356LR-1CH	V1.0.0	2018-03-27	<input type="checkbox"/>
CRE1356LR-2CH	V1.0.0	2018-03-27	<input type="checkbox"/>
CRE1356PLUS-2R_SMD	V1.0.0	2018-03-06	<input type="checkbox"/>
REELFINDER_SMD	V1.0.0	2018-05-14	<input type="checkbox"/>
REM125-S_SMD	V1.0.0	2018-03-27	<input type="checkbox"/>
RFM125_SMD	V1.0.0	2018-03-27	<input type="checkbox"/>
TCPIP	V1.0.0	2018-05-10	<input type="checkbox"/>
TDBILLCD	V1.0.0	2017-06-23	<input type="checkbox"/>

제품: TEST1
버전: V1.0.0

제품생성 초기화

삭제

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.

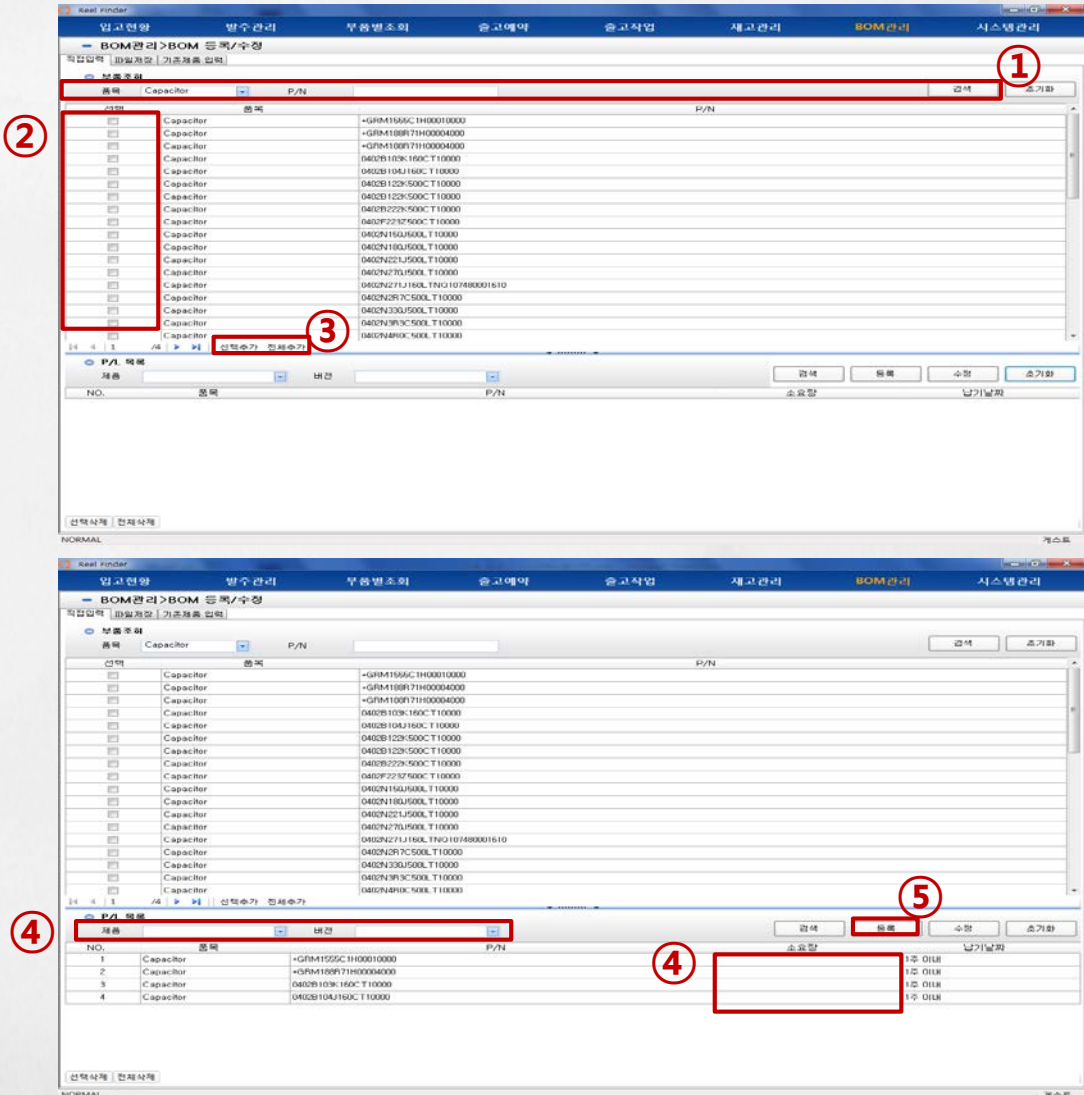
※ If you wish to delete, check on ③ and click on delete button(④).

※ 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

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 'System Management' window with the 'Personal information' tab selected. The window has a menu bar with options: '입고현황', '발주관리', '부품별조회', '출고예약', '출고작업', '재고관리', 'BOM관리', and '시스템관리'. The '시스템관리' menu is expanded, showing '개인정보관리' and '옵션 및 설정'. The '개인정보관리' sub-menu is selected, displaying a form for user information. The form includes fields for '사용자 ID' (guest), '이름' (지연섭), '부서', '직급', '회사전화', '핸드폰', 'Email', and 'Fax'. There are also fields for '현재 비밀번호', '새 비밀번호', and '새 비밀번호 확인'. A '수정' (Modify) button is visible on the right.

Personal information

The screenshot shows the 'System Management' window with the 'Options and setting' tab selected. The window has a menu bar with options: '입고관리', '발주등록', '재고현황', '재고관리', '출고관리', '출고예약', 'BOM관리', and '시스템관리'. The '시스템관리' menu is expanded, showing '계정관리' and '옵션 및 설정'. The '옵션 및 설정' sub-menu is selected, displaying a form for system options. The form includes sections for '적정재고 알람' (Alarm monitoring setting), '선반설정' (Shelf setting), and '일반 설정' (General setting). The '적정재고 알람' section has radio buttons for '수동' (Manual), '몇 시간마다' (Every few hours), '몇 주마다' (Every few weeks), and '매일' (Daily). The '선반설정' section has checkboxes for 'USERP/N 사용', '경광등 부저', '임의출고알람', '순차적 LED ON', '간략축정 사용', 'Host Interface Server', and '선입선출법'. The '일반 설정' section has a checkbox for '자동로그인'. A '수정' (Modify) button is visible on the right.

Options and setting

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) tab is active, displaying a form for user information and password management. The form is divided into two sections: '사용자 정보' (User Information) and '비밀번호 변경' (Password Change). The '사용자 정보' section includes 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 includes 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's name '자연섭'.

- **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 '시스템관리' (System Management) window of the REEL FINDER application. The window has a blue header bar with the title 'REEL FINDER' and several menu items: '입고관리', '발주등록', '재고현황', '재고관리', '출고관리', '출고예약', 'BOM관리', and '시스템관리'. Below the header, there is a sub-menu '시스템관리' with options '계정관리' and '옵션 및 설정'. The '옵션 및 설정' option is selected, and it is further divided into three sections: '적정재고알림' (Optimal Inventory Alarm), '선반설정' (Shelf Setting), and '일반설정' (General Setting). The '적정재고알림' section is highlighted with a red box and contains a '알람 모니터링 설정' (Alarm Monitoring Setting) area with four radio buttons: '수동' (selected), '몇 시간마다', '몇 주마다', and '매일'. A '수정' (Change) button is to the right. The '선반설정' section is also highlighted with a red box and contains a '선반설정' (Shelf Setting) area with checkboxes for 'USERP/N 사용', '경광등 부저', '임의출고알람', '순차적 LED ON', '잔량측정 사용', and 'Host Interface Server'. There is a '시간설정' (Time Setting) field set to '00시00분'. To the right, there are input fields for 'HIS IP', 'HIS PORT1', and 'HIS PORT2', with a '수정' (Change) button. Below these, there is a '출고작업' (Outgoing Work) dropdown menu with options '선입선출법', '선입선출법', '선출선입법', and '반출 지정'. The '일반설정' (General Setting) section is highlighted with a red box and contains a checkbox for '자동로그인' (Auto Login) and a '수정' (Change) button. The bottom of the window shows '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

The screenshot shows the 'REEL FINDER' application window with the '시스템관리' (System Management) tab selected. The window is divided into several sections:

- 시스템관리** (System Management): Includes sub-tabs for '계정관리' (Account Management), '옵션 및 설정' (Options and Settings), and '적정재고알람' (Optimal Inventory Alarm).
- 알람 모니터링 설정** (Alarm Monitoring Settings): Contains radio buttons for '수동' (Manual), '몇 시간마다' (Every few hours), '몇 주마다' (Every few weeks), and '매일' (Daily). A '수정' (Modify) button is present.
- 선반설정** (Shelf Settings): This section is highlighted with a red border. It includes:
 - Checkboxes for 'USERP/N 사용' (Use USER P/N), '경광등 부저' (Light buzzer), '임의출고알람' (Arbitrary release alarm), '순차적 LED ON' (Sequential LED ON), '잔량측정 사용' (Use remaining amount measurement), and 'Host Interface Server'.
 - A '시간설정' (Time setting) field set to '00시00분'.
 - A '선반설정' (Shelf setting) sub-section with input fields for 'HIS IP', 'HIS PORT1', and 'HIS PORT2', and a '수정' (Modify) button.
 - A '출고작업' (Release work) dropdown menu with options: '선입선출법' (First come first served), '선입선출법' (First come first served), '수량' (Quantity), and '번호 지정' (Number designation).
- 일반 설정** (General Settings): Includes a checkbox for '자동로그인' (Auto login) and a '수정' (Modify) button.

The status bar at the bottom indicates '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

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

FCC Instructions

FCC Compliance Statement(Part 15.19 (3))

This 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.

FCC Interference Statement(Part 15.105)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device is approved with 57 antennas attached as documented. Additional co-location evaluation test will be needed when transmitting with multiple of these devices.