

# SelfCheck<sup>™</sup> System V-Series, R-Series, and BCS



#### **3M Library Systems**

3M™ SelfCheck™ System V-Series, R-Series, and BCS Owner's Manual

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# **Safety information**

Read, understand, and follow all safety information contained in these instructions prior to installation and use of the 3M™ SelfCheck™ System V-Series Model 6410, 6420, 7410, and 7420, the 3M SelfCheck System V-Series Tabletop Models 6412, 6422, 7412, and 7422, the 3M SelfCheck System R-Series Model 8410, and 3M SelfCheck System BCS Model 9410. Retain these instructions for future reference.

#### Intended use

The 3M SelfCheck System V-Series Model 6410, 6420, 7410, and 7420, 3M SelfCheck System V-Series Tabletop Models 6412, 6422, 7412, and 7422, 3M SelfCheck System R-Series Model 8410, and 3M SelfCheck System BCS Model 9410 are intended for use by library patrons in checking out books with minimal assistance by library staff. The V-Series and R-Series models can be installed into a desk unit from 3M or into furniture provided by the customer. The V-Series Tabletop Models 6412, 6422, 7412, and 7422 and the BCS Model 9410 are intended for use on a desktop provided by the customer.

These systems must be installed as specified in their respective site planning guides and field service handbooks. They are intended for use in an indoor library environment and have not been evaluated for other uses or locations.

<b>EXPLANATION OF SIGNAL WORD CONSEQUENCES</b>		
⚠ DANGER:	Indicates a potentially hazardous situation, which, if not avoided, will result in death or serious injury and/or property damage.	
⚠ WARNING:	Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury and/or property damage.	
⚠ CAUTION:	Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury and/or property damage.	
CAUTION:	Indicates a potentially hazardous situation, which, if not avoided, may result in property damage.	

EXPLANATION OF PRODUCT SAFETY LABEL SYMBOLS		
	Attention: Read accompanying documentation	
Disconnect power before servicing. Unit contains high voltage electrical circuits that must be discord electrical circuits that must be discord regel and checked for voltage prior to servicing. Service should be performed only by 3M factory trained service personned.	Risk of electric shock	
BACKLIGHT CONTAINS MERCURY, DISPOSE ACCORDING TO LOCAL, STATE, AND FEDERAL LAWS	Display Unit: Mercury disposal hazard	
CAUTION  LASER LIGHT DO NOT STARE INTO BEAM 0.95 mW at 830-670 nm CLASS 2 LASER PRODUCT	Laser Scanner: Laser exposure	

# Safety information for V-Series Models 6410, 6420, 7410, and 7420

# **M** WARNING

To reduce the risk associated with fire due to modification or incorrect installation of system components or the use of non-approved replacement components:

- Do not attempt to modify or repair—no user serviceable parts—contact 3M Service for repair.
- Use approved system components installed by 3M service personnel only.
- Install system components into desk or enclosure according to instructions and specifications given in the appropriate site planning guide.

To reduce the risk associated with hazardous voltage due to a user attempting to service a component, incorrect installation of system components, or use of the system when damage has occurred:

- Do not attempt to modify or repair—no user serviceable parts—contact 3M Service for repair.
- Install system components into desk or enclosure according to instructions and specifications given in the appropriate site planning guide.
- Do not use the V-cradle, coil driver box, interconnect box, appliance coupler, or computer if any cases or power cords are damaged.

# **↑** CAUTION

To reduce the risk associated with environmental contamination due to the incorrect disposal of the lithium battery in the PC, mercury in the monitor/display, and/or any circuitry that contains lead in the solder:

At the end of service life, dispose of the V-cradle, coil driver box, interconnect box, appliance coupler, computer, monitor, and laser scanner in accordance with federal, state, and local requirements.

To reduce the risk associated with exposure to laser light due to a person looking into the laser scanner:

- Do not look directly into laser scanner device;
- At the end of service life, dispose of laser scanner in accordance with federal, state, and local requirements.

#### **IMPORTANT NOTE**

The Code of Federal Regulations (CFR) 21CFR1040.10 requires the following statement for products containing lasers:

Caution—use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure.

# Safety information for V-Series Tabletop Models 6412, 6422, 7412, and 7422

# **MARNING**

To reduce the risk associated with fire due to a user or installer attempting to service the SelfCheck unit:

- Do not attempt to modify or repair—no user serviceable parts—contact 3M Service for repair.
- Use approved system components installed by 3M service personnel only.

To reduce the risk associated with hazardous voltage due to a user or installer attempting to service the SelfCheck unit or use of the system when damage has occurred to power cord:

- Do not attempt to modify or repair—no user serviceable parts—contact 3M Service for repair.
- Use approved system components installed by 3M service personnel only.
- Do not use the SelfCheck Tabletop unit if the power cord is damaged contact 3M Service for repair.

# **M** WARNING

To reduce the risk associated with tipping over of the Selfcheck Tabletop unit due to placement on an unsuitable desk or table:

- Insure that the furniture onto which the SelfCheck is placed is strong enough and provides a low-slip surface to safely hold the unit to prevent tipping or falling;
- Install SelfCheck in accordance with instructions and specifications given in the SelfCheck System Tabletop Unit Site Planning Guide.

To reduce the risk associated with back strain due to the heavy weight of the system:

Follow safe lifting procedures.

# **⚠** CAUTION

To reduce the risk associated with environmental contamination due to the incorrect disposal of the lithium battery in PC or mercury in monitor/display:

 At the end of service life, dispose of SelfCheck unit and any accessories in accordance with federal, state and local requirements.

To reduce the risk associated with exposure to laser light due to a person looking into the laser scanner, or incorrect disposal of the laser scanner:

- Do not look directly into laser scanner device;
- At the end of service life, dispose of laser scanner in accordance with federal, state, and local requirements.

#### **IMPORTANT NOTE**

The Code of Federal Regulations (CFR) 21CFR1040.10 requires the following statement for products containing lasers:

Caution—use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure.

# Safety information for R-Series Model 8410

# **↑** WARNING

To reduce the risk associated with fire due to modification or incorrect installation of system components or the use of non-approved replacement components:

- Do not attempt to modify or repair—no user serviceable parts—contact 3M Service for repair.
- Use approved system components installed by 3M service personnel only.
- Install system components into desk or enclosure according to instructions and specifications given in the Model 8410 Site Planning Guide.

To reduce the risk associated with hazardous voltage due to a user attempting to service a component, incorrect installation of system components, or use of the system when damage has occurred:

- Do not attempt to modify or repair—no user serviceable parts—contact 3M Service for repair.
- Install system components into desk or enclosure according to instructions and specifications given in the Model 8410 Site Planning Guide.
- Do not use the interconnect box, appliance coupler, or computer if any cases or power cords are damaged.

# **↑** CAUTION

To reduce the risk associated with environmental contamination due to the incorrect disposal of the lithium battery in PC, mercury in monitor/display, and/or any circuitry that contains lead in the solder:

 At the end of service life, dispose of interconnect box, appliance coupler, PC, monitor, and laser scanner in accordance with federal, state and local requirements.

To reduce the risk associated with exposure to laser light due to a person looking into the laser scanner:

- Do not look directly into laser scanner device.
- At the end of service life, dispose of laser scanner in accordance with federal, state, and local requirements.

#### **IMPORTANT NOTE**

The Code of Federal Regulations (CFR) 21CFR1040.10 requires the following statement for products containing lasers:

Caution—use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure.

# **Safety information for BCS Model 9410**

# **↑** WARNING

To reduce the risk associated with fire due to modification or incorrect installation of system components or the use of non-approved replacement components:

- Do not attempt to modify or repair—no user serviceable parts—contact 3M Service for repair.
- Use approved system components installed by 3M service personnel only.
- Install system components according to instructions and specifications given in the Model 9410 Site Planning Guide.

To reduce the risk associated with hazardous voltage due to a user attempting to service a component, incorrect installation of system components, or use of the system when damage has occurred:

- Do not attempt to modify or repair—no user serviceable parts—contact 3M Service for repair.
- Install system components according to instructions and specifications given in the Model 9410 Site Planning Guide.
- Do not use the computer or monitor if any enclosures or power cords are damaged.

# **⚠** CAUTION

To reduce the risk associated with environmental contamination due to the incorrect disposal of the lithium battery in PC, mercury in monitor/display, and/or any circuitry that contains lead in the solder:

 At the end of service life, dispose of the computer, monitor, printer, and laser scanner in accordance with federal, state and local requirements.

To reduce the risk associated with exposure to laser light due to a person looking into the laser scanner:

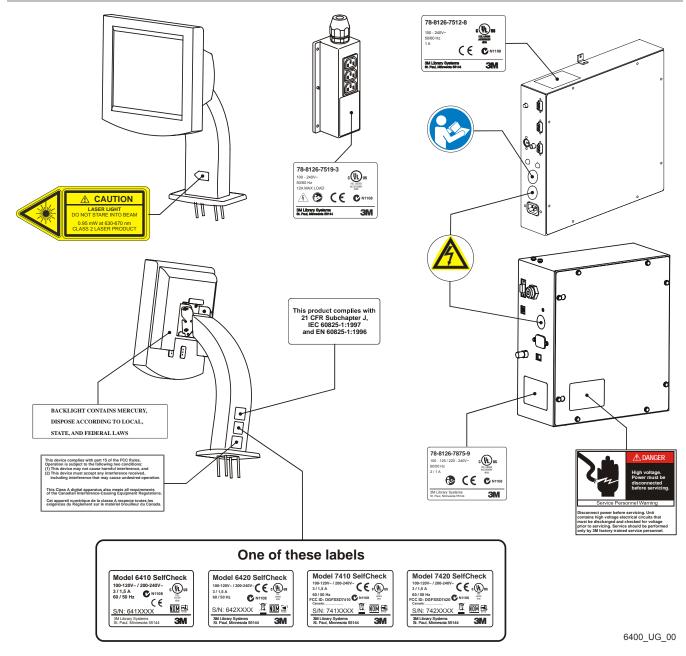
- Do not look directly into laser scanner device.
- At the end of service life, dispose of laser scanner in accordance with federal, state, and local requirements.

#### **IMPORTANT NOTE**

The Code of Federal Regulations (CFR) 21CFR1040.10 requires the following statement for products containing lasers:

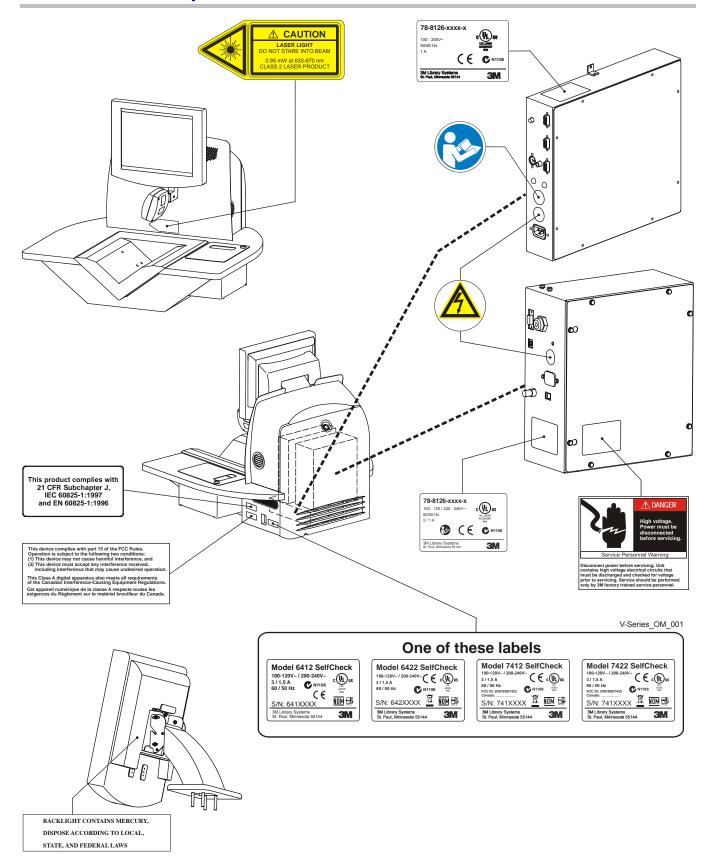
Caution—use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure.

#### **V-Series label locations**

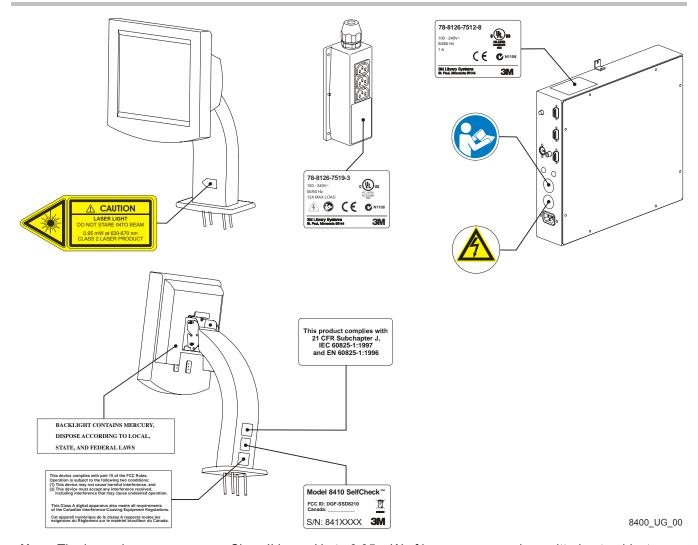


Note: The barcode scanner uses a Class II laser. Up to 0.95 mW of laser power can be emitted onto objects.

# **V-Series Tabletop Unit label locations**

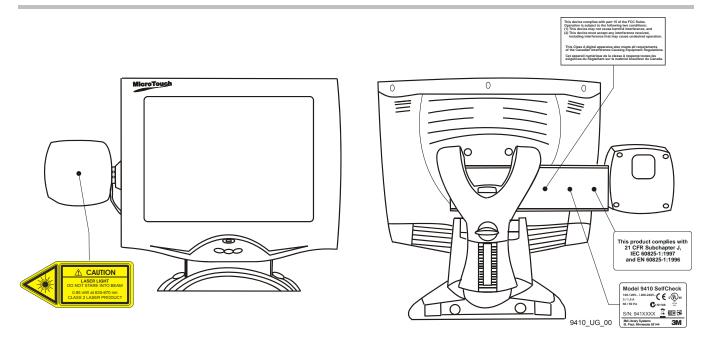


# **R-Series label locations**



**Note**: The barcode scanner uses a Class II laser. Up to 0.95 mW of laser power can be emitted onto objects.

# **BCS label locations**



# Regulatory compliance

# **EMC compliance USA and Canada**

#### **FCC Radio Frequency Rules and Regulations**

This equipment has been tested and found to comply with the limits for a Class A 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 emit radiated 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 their own expense.

**NO MODIFICATIONS.** Modifications to this device shall not be made without the written consent of The 3M Company. Unauthorized modifications may void the authority granted under Federal Communications Commission Rules permitting the operation of this device.

#### FCC Intentional Radiator Certification (Models 7410, 7420, 7412, 7422 and 8410only)

Model 7410: FCC ID: DGFSSD7410 Model 7420: FCC ID: DGFSSD7420

Model 7412 and Model 7422: FCC ID: DGFSSD7422

Model 8410: FCC ID: DGF-SSD8210

This equipment contains an intentional radiator approved by the FCC under the FCC ID number shown above. 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.

# **Industry Canada radio frequency rules and regulations**

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

# **EMC compliance Europe**

This equipment complies with the requirements of the EMC directive.

#### **Australia**

This unit complies with the EMC requirements for Australia.

# **Japan**

同梱の電源コードは当該製品専用です。

# **Overview**

Welcome to the 3M™ SelfCheck™ System.

The SelfCheck system enables library customers to check library materials in and out by themselves. The system emulates the check-in and checkout procedures performed by library staff. In addition, the system can optionally operate in offline mode when the library's automated circulation system is unavailable.

Depending on the model, the SelfCheck system uses either a barcode scanner or a radio frequency identification (RFID) reader to identify items being checked into or out of the library. It also updates the library circulation database and turns security attributes on or off as required.

This *Owner's Manual* contains safety information, machine specifications, commonly used procedures, and other information useful in the day-to-day operations of library staff.

Please take the time to read this manual. It will help you understand how your SelfCheck system works. Keep it accessible when the system is in use. It will serve as a reference guide when questions arise.

# **V-Series specifications**

## System physical characteristics (with cabinet)

Overall height	58.5 inches (148.6 cm)
Counter height	36 inches (91.4 cm)
Width	44.5 inches (112.9 cm)
Counter depth	26.5 inches (67.4 cm)
Base depth	34.5 inches (87.6 cm)
Weight Laminate top Corian® top	314 lbs. (142 kg) 334 lbs. (151 kg)
Shipping weight Laminate top Corian® top	364 lbs. (165 kg) 384 lbs. (174 kg)

## System operating environment

Humidity	0% to 85% RH, non-condensing
Operating temperature	50° F to 93° F (10° C to 34° C)
Storage temperature	-22° F to 131° F (-30° C to 55° C)

## System power requirements

Voltage	100–120 VAC or 200–240 VAC
Current	6.0 A or 3.0 A
Frequency	50/60 Hz
Phase	Single
Power	600 Watts

#### **Component specifications**

Component	Dimensions	Weight	Electrical
Touch screen	16.1 in. × 10.2 in. × 15.7 in. 40.9 cm × 25.9 cm × 39.9 cm	16.3 lb 7.4 kg	12 VDC, 2.0 A
Scanner	2.59 in. × 1.38 in. × 3.47 in. 6.58 cm × 3.51 cm × 8.81 cm	7.5 oz 213 g	24 VDC, 300 mA
Printer	6.25 in. × 8.5 in. × 5.87 in. 15.9 cm × 21.6 cm × 14.9 cm	4.2 lb 1.9 kg	24 VDC, 3.0 A
Interconnect box	12 in. × 12 in. × 3 in. 30.5 cm × 30.5 cm × 7.62 cm	3.6 lb 1.6 kg	100–240 VAC, 1.0 A
Coil driver box	11.5 in. × 10 in. × 4.8 in. 29.2 cm × 25.4 cm × 12.2 cm	15.0 lb 6.8 kg	100–240 VAC, 1.0 A
V-cradle	6.6 in. × 16 in. × 18.4 in. 16.8 cm × 40.6 cm × 46.7 cm	5.0 lb 2.3 kg	Powered by coil driver box

Component	Dimensions	Weight	Electrical
Computer without stand	13.3 in. × 3.95 in. × 15.1 in. 33.8 cm × 10.1 cm × 38.4 cm	22.2 lb 10.1 kg	120 VAC, 5 A or
Computer with stand	14.3 in. × 7.0 in. × 15.1 in. 36.3 cm × 17.8 cm × 38.4 cm	23.2 lb 10.5 kg	240 VAC, 2.5 A
Appliance coupler	3.25 in. × 3.0 in. × 32.25 in. (max.) 8.26 cm × 7.62 cm × 81.9 cm	1.24 lb 0.56 kg	100–240 VAC, 12.0 A

# **V-Series Tabletop Unit specifications**

# System physical characteristics

Height	31.0 inches (78.7 cm)
Width	36.0 inches (91.4 cm)
Depth	30.5 inches (77.5 cm)
Weight Laminate top Corian® top	200 pounds (90.7 kg) 220 lbs. (99.8 kg)
Shipping weight Laminate top Corian® top	250 lbs. (113 kg) 270 lbs. (122 kg)

#### **System operating environment**

Humidity	0% to 85% RH, non-condensing
Operating temperature	50° F to 93° F (10° C to 34° C)
Storage temperature	-22° F to 131° F (-30° C to 55° C)

## System power requirements

Voltage	100–120 VAC or 200–240 VAC
Current	6.0 A or 3.0 A
Frequency	50/60 Hz
Phase	Single
Power	600 Watts

#### **Component specifications**

Component	Dimensions	Weight	Electrical
Touch screen	16.1 in. × 10.2 in. × 15.7 in. 40.9 cm × 25.9 cm × 39.9 cm	16.3 lb 7.4 kg	12 VDC, 2.0 A
Scanner	2.59 in. × 1.38 in. × 3.47 in. 6.58 cm × 3.51 cm × 8.81 cm	7.5 oz 213 g	24 VDC, 300 mA
Printer	6.25 in. × 8.5 in. × 5.87 in. 15.9 cm × 21.6 cm × 14.9 cm	4.2 lb 1.9 kg	24 VDC, 3.0 A

Component	Dimensions	Weight	Electrical
Interconnect box	12 in. × 12 in. × 3 in. 30.5 cm × 30.5 cm × 7.62 cm	3.6 lb 1.6 kg	100–240 VAC, 1.0 A
Coil driver box	11.5 in. × 10 in. × 4.8 in. 29.2 cm × 25.4 cm × 12.2 cm	15.0 lb 6.8 kg	100–240 VAC, 1.0 A
V-cradle	6.6 in. × 16 in. × 18.4 in. 16.8 cm × 40.6 cm × 46.7 cm	5.0 lb 2.3 kg	Powered by coil driver box
Computer	12.4 in. × 2.75 in. × 13.2 in. 31.5 cm × 7.0 cm × 33.5 cm	13.9 lb 6.3 kg	100 VAC, 4 A or 200 VAC, 2 A

# **R-Series specifications**

# System physical characteristics (with cabinet)

Overall height	58.5 inches (148.6 cm)
Counter height	36 inches (91.4 cm)
Width	44.5 inches (112.9 cm)
Counter depth	26.5 inches (67.4 cm)
Base depth	34.5 inches (87.6 cm)
Weight Laminate top Corian® top	278 lbs. (126 kg) 298 lbs. (135 kg)
Shipping weight Laminate top Corian® top	328 lbs. (149 kg) 348 lbs. (158 kg)

# System operating environment

Humidity	0% to 85% RH, non-condensing
Operating temperature	50° F to 93° F (10° C to 34° C)
Storage temperature	-22° F to 131° F (-30° C to 55° C)

# System power requirements

Voltage	100–120 VAC or 200–240 VAC
Current	6.0 A or 3.0 A
Frequency	50/60 Hz
Phase	Single
Power	600 Watts

## **Component specifications**

Component	Dimensions	Weight	Electrical
Touch screen	16.1 in. × 10.2 in. × 15.7 in. 40.9 cm × 25.9 cm × 39.9 cm	16.3 lb 7.4 kg	12 VDC, 2.0 A
Scanner	2.59 in. × 1.38 in. × 3.47 in. 7.5 oz 24 VDC, 300 mA 6.58 cm × 3.51 cm × 8.81 cm 213 g		24 VDC, 300 mA
Printer	6.25 in. × 8.5 in. × 5.87 in. 15.9 cm × 21.6 cm × 14.9 cm	4.2 lb 1.9 kg	24 VDC, 3.0 A
Interconnect box	nnect 12 in. × 12 in. × 3 in. 3.6 lb 100–240 V/ 30.5 cm × 30.5 cm × 7.62 cm 1.6 kg		100–240 VAC, 1.0 A
Computer without stand	13.3 in. × 3.95 in. × 15.1 in. 33.8 cm × 10.1 cm × 38.4 cm	22.2 lb 10.1 kg	120 VAC, 5 A or
Computer with stand	14.3 in. × 7.0 in. × 15.1 in. 36.3 cm × 17.8 cm × 38.4 cm	23.2 lb 10.5 kg	240 VAC, 2.5 A
Appliance coupler	3.25 in. × 3.0 in. × 32.25 in. (max.) 8.26 cm × 7.62 cm × 81.9 cm	1.24 lb 0.56 kg	100–240 VAC, 12.0 A

# **BCS Model 9410 specifications**

#### **System operating environment**

Humidity	0% to 85% RH, non-condensing
Operating temperature	50° F to 93° F (10° C to 34° C)
Storage temperature	-22° F to 131° F (-30° C to 55° C)

## System power requirements

Voltage	100-120 VAC or 200-240 VAC
Current	6.0 A or 3.0 A
Frequency	50/60 Hz
Phase	Single
Power	600 Watts

# **Component specifications**

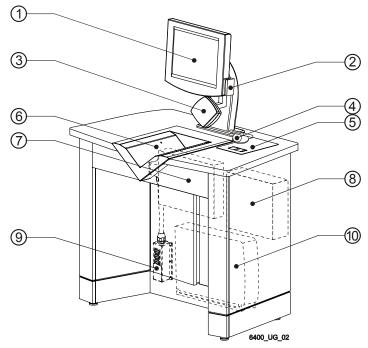
Component	Dimensions	Weight	Electrical
Touch screen	16.1 in. × 10.2 in. × 15.7 in. 40.9 cm × 25.9 cm × 39.9 cm	16.3 lb 7.4 kg	12 VDC, 2.0 A
Scanner	2.59 in. × 1.38 in. × 3.47 in. 6.58 cm × 3.51 cm × 8.81 cm	7.5 oz 213 g	24 VDC, 300 mA
Computer without stand	13.3 in. × 3.95 in. × 15.1 in. 33.8 cm × 10.1 cm × 38.4 cm	22.2 lb 10.1 kg	120 VAC, 5 A or
Computer with stand	14.3 in. × 7.0 in. × 15.1 in. 36.3 cm × 17.8 cm × 38.4 cm	23.2 lb 10.5 kg	240 VAC, 2.5 A

# **Components**

#### **V-Series**

The SelfCheck System V-Series models consist of the following components:

- (1) Color touch screen monitor
- (2) Magnetic card reader (optional)
- (3) Barcode scanner
- (4) Smart card reader (optional)
- (5) Receipt printer
- (6) V-cradle
- (7) Interconnect box (inside furniture)
- (8) V-coil driver box (inside furniture)
- (9) Appliance coupler (inside furniture)
- (10) Computer with keyboard and mouse (inside furniture)

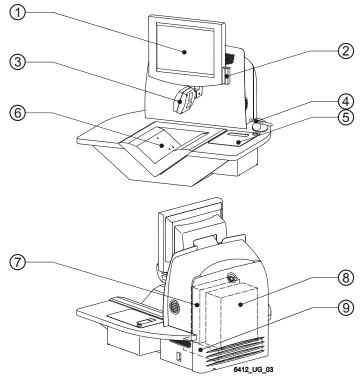


3M™ SelfCheck™ System V-Series components

# **V-Series Tabletop Units**

The SelfCheck System V-Series Tabletop Unit models consist of the following components:

- (1) Color touch screen monitor
- (2) Magnetic card reader (optional)
- (3) Barcode scanner
- (4) Smart card reader (optional)
- (5) Receipt printer
- (6) V-cradle
- (7) Computer (inside chassis)
- (8) V-coil driver box (inside chassis)
- (9) Interconnect box (inside chassis)

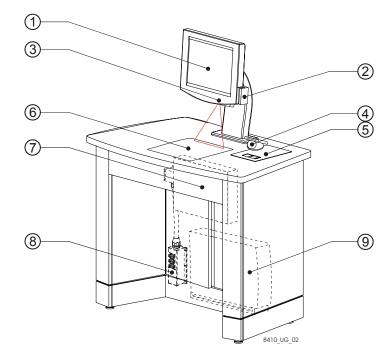


3M™ SelfCheck™ System V-Series Tabletop Unit components

#### **R-Series**

The SelfCheck System R-Series models consist of the following components:

- (1) Color touch screen monitor
- (2) Magnetic card reader (optional)
- (3) Barcode scanner (behind monitor)
- (4) Smart card reader (optional)
- (5) Receipt printer
- (6) RFID pad
- (7) Interconnect box (inside furniture)
- (8) Appliance coupler (inside furniture)
- (9) Computer with keyboard and mouse (inside furniture)



3M™ SelfCheck™ System R-Series components

#### **BCS Model 9410**

The SelfCheck System BCS model consists of the following components:

- (1) Barcode scanner
- (2) Color touch screen monitor
- (3) Computer
- (4) Keyboard and mouse
- (5) Receipt printer



3M™ SelfCheck™ System BCS components

# **M** WARNING

To reduce the risk associated with fire due to modification or incorrect installation of system components or the use of non-approved replacement components:

- Do not attempt to modify or repair—no user serviceable parts—contact 3M Service for repair.
- Use approved system components installed by 3M service personnel only.
- Install system components into desk or enclosure according to instructions and specifications given in the appropriate site planning guide.

To reduce the risk associated with hazardous voltage due to a user attempting to service a component, incorrect installation of system components, or use of the system when damage has occurred:

- Do not attempt to modify or repair—no user serviceable parts—contact 3M Service for repair.
- Install system components into desk or enclosure according to instructions and specifications given in the appropriate site planning Guide.
- Do not use the V-cradle, coil driver box, interconnect box, appliance coupler, or computer if any cases or power cords are damaged.

#### Color touch-screen monitor

The color touch-screen monitor displays animated graphics, messages, and other information to guide the customer through the operation of the SelfCheck system.

# Magnetic card reader

The optional magnetic card reader reads magnetic strips that conform to industry standards. It can read numeric or alphanumeric data from the magnetic strip whether the data is recorded on track 1, track 2, or track 3.

#### **Barcode scanner**

The laser barcode scanner is mounted below, beside, or behind the touch screen monitor. The scanner is used for reading customer and item identification.

# **∧** CAUTION

To reduce the risk associated with exposure to laser light due to a person looking into the laser scanner:

- Do not look directly into laser scanner device.
- At the end of service life, dispose of laser scanner in accordance with federal, state and local requirements.

#### **Smart card reader**

The optional smart card reader can be used for reading customer smart cards.

## **Receipt printer**

The receipt printer is recessed into the cabinet that 3M provides and may be placed on the countertop in other installations. It is a thermal printer, which does not require toner or ribbons. Receipt printing can be turned on or off or made conditional on the printer paper supply. Receipt text and graphics can be edited in the 3M<sup>™</sup> SelfCheck<sup>™</sup> System Manager.

#### V-cradle

The V-cradle is where library items are placed for processing on V-Series models. The unique shape of the V-cradle aids customers in placing the items for scanning and desensitizing. The V-cradle contains electronic circuitry that desensitizes or resensitizes Tattle-Tape security strips in the V1 and V2 models and RFID tags in the V3 model. It also contains sensors that ensure that the items are placed correctly.

## RFID reader pad

The reader pad, which typically is mounted inside or under the countertop of R-Series models, communicates with RFID tags placed in library items. Each tag is encoded with item identification information using the 3M™ Staff Workstation or 3M™ Conversion Station. The SelfCheck system uses the information in the RFID tag to check materials in and out. It also turns on a security feature in the tag when it checks items in, and turns it off when it checks items out. Using RFID, several items can be processed at one time. For more information about RFID technology, see <a href="http://www.3m.com/us/library">http://www.3m.com/us/library</a>.

#### Interconnect box

The interconnect box is installed inside SelfCheck system furniture. It contains power supplies for the accessory components. It is so called because several components plug into it.

#### V-coil driver box

The V-coil driver box is installed inside SelfCheck System V-Series cabinets. It contains the circuitry that drives the electromagnetic coil in the V-cradle.

# **Appliance coupler**

The appliance coupler is a three-outlet power strip with a remote switch placed at a convenient height. It supplies power to the other components. The appliance coupler switch is the master switch for the SelfCheck system.

# Computer

The SelfCheck system computer is a personal computer installed inside the SelfCheck system cabinet.

# **⚠** CAUTION

To reduce the risk associated with environmental contamination due to the incorrect disposal of the lithium battery in the PC, mercury in the monitor/ display, and/or any circuitry that contains lead in the solder:

 At the end of service life, dispose of the V-cradle, coil driver box, interconnect box, appliance coupler, computer, monitor, and laser scanner in accordance with federal, state, and local requirements.

#### Communications

The SelfCheck system communicates with the library's circulation system over the library's local area network using the Standard Interface Protocol (SIP 1.0 or SIP 2.0) or NCIP, the circulation interface protocol developed by the National Information Standards Organization.

The system communicates with customers by reading their library IDs and guiding them through the checkout or check-in process. The SelfCheck system displays instructions to help the customers solve problems. If these fail, the system instructs customers to ask for help at the circulation desk.

#### **Barcode formats**

The SelfCheck system can identify customers and library items by reading barcodes. Several barcode formats, or symbologies, are installed on the SelfCheck system by default:

- Codabar
- Code 39
- Plessey
- Telepen Numeric
- Code 128
- Straight 2 of 5
- UPC-A 12

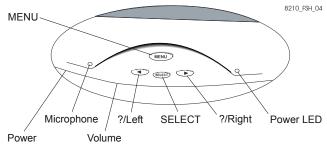
If your library uses a barcode format that is not installed, the administrator can install it from SelfCheck System Manager.

# **Touch screen monitor controls**

The SelfCheck system uses a touch screen monitor to guide customers through check-in and checkout. To adjust the display, use the monitor's onscreen menu to adjust display characteristics, such as brightness, contrast, and color. Do *not* change the display resolution, for the default resolution is optimized for the SelfCheck system graphics.

#### To adjust the display

- 1 Press the menu key to display the main menu.
- 2 Using the selection keys, make adjustments as required.
- **3** Exit the main menu by pressing the menu key again.



#### SelfCheck system monitor controls

#### To lock the controls

- 1 Press SELECT, and then press the left arrow key (◄). Press both keys for 10 seconds. DO NOT RELEASE.
- While continuing to press the first two keys, press the right arrow key (▶), and then hold all three keys for an additional 10 seconds.

#### To unlock the controls

• Repeat the procedure for locking the controls.

# **General maintenance**

# Replacing the printer paper

The SelfCheck system will send out email notifications when the printer is low on paper. When the printer paper runs out, use one of the following procedures to replace it with a new roll of paper:

#### To replace the paper in a recessed printer

- 1 Remove the cover plate.
- **2** Squeeze the open button on the left side of the cover and lift the printer cover.
- 3 Place the paper roll in the printer so the paper unwinds from the bottom.
- **4** Pull the front edge of the paper out until it is past the front edge of the printer.
- **5** Close the printer cover.
- 6 Replace the cover plate.

#### To replace the paper in a top-mounted printer

- 1 Squeeze the open button on the left side of the cover and lift the printer cover.
- 2 Place the paper roll in the printer so the paper unwinds from the bottom.
- 3 Pull the front edge of the paper out until it is past the front edge of the printer.
- 4 Close the printer cover.
- To order printer paper rolls, see "Obtaining service and supplies" on page 27.

# SQUEEZE TO OPEN

Opening the printer

# Cleaning the components

The SelfCheck system components can become dirty with normal use and may require cleaning. To clean the component exteriors, dampen a soft cloth with water or a mild cleaning solution and gently wipe away dirt from the affected areas.

# Cleaning the monitor

- Shut down the SelfCheck system.
- Use care when cleaning the SelfCheck system monitor.
- Use pre-moistened towelettes that are sold specifically for monitor cleaning. If these are not available, you can use isopropyl alcohol or water to dampen a soft cloth, but use it very sparingly.

# **Solving problems**

Most problems with the SelfCheck system can be resolved by reading this manual. In this section we attempt to help you resolve problems that may be due to hardware or configuration failures.

## **Boot and login problems**

## Login and communication problems

Problems you encounter during the login process can be caused by changes to the host computer installation setup and circulation system changes. Contact your system administrator for assistance.

## Unable to log on to the host computer

3M Software Support may ask you to monitor the logon process to determine if the SelfCheck system is attempting to log on to the host.

#### To set up session logging

- 1 Open SelfCheck System Manager.
- 2 On the advanced **Support** tab, click the **Log Level** box, and then click the requested log level.
- 3 Click Set Level.

#### Additional things to check

- The data cable should be properly connected to the network connector on the SelfCheck system.
- The host should be properly operating and capable of accepting a connection from the SelfCheck system.
- Make sure the SIP or NCIP program is running on the host.
- If a terminal server is used, make sure it is running and is capable of accepting a connection from the SelfCheck system.
- Have any network passwords changed?
- Has the path or other accesses to the network or the host changed?
- Was the SelfCheck system improperly turned off or otherwise disconnected from the host without properly logging off the system? This might leave the host connection active, which would prevent the SelfCheck system from logging in until the port is reset.
- Does the host port need to be reset to allow a connection from the SelfCheck system?
- Does the SelfCheck system get disconnected from the host without anyone initiating the logoff process? The host computer may be dropping the connection.

# **Printer problems**

- Verify that the printer has paper.
- Verify that the paper is properly installed. The paper must be installed with the thermal side up and paper coming from the bottom of the roll.
- Verify that the printer is enabled on the **Devices** tab.
- Verify that the printer cable and power plugs are connected.
- Verify that the printer cover is closed and latched.
- Try printing a Windows test page from the printer driver properties in the Printers and Faxes window.

# **Check-in and checkout problems**

## **Cannot read magnetic cards**

- Is Mag Card Reader enabled on the Devices tab?
- Does the card have information on the track that is selected on the set up screen?
- Is the card being swiped with the magnetic strip on the correct side?
- Is the card being swiped quickly enough? A card that is swiped too slowly has read problems.
- Are the cable connections tight?

#### Cannot read smart cards

- Is Smart Card Reader enabled on the Devices tab?
- Is the smart card being inserted correctly into the reader?

#### Cannot read the customer or item barcode

- Make sure barcodes on customer cards and library materials are not scratched, dirty or otherwise damaged in a way that might make them hard to read. Try an item with a clean, good quality barcode.
- Make sure customer cards are placed so that the barcode is face up and is being placed under the scan line.
- Make sure barcodes on books or other items are being placed under the scan line.

# The Mediacheck is not working

- Make sure the Mediacheck is plugged in.
- Make sure the 110V/220V input power setting is correct.
- Make sure the Mediacheck's USB cable is firmly connected to the correct USB port.
- In SelfCheck System Manager, make sure the Mediacheck is enabled on the **Devices** tab.

# **Scanner problems**

If you are having scanning problems, the following table may provide some solutions.

Possible cause	Solutions	
The scanner reads poorly.	Clean the scanner lens with a soft, dry, lint-free cloth.	
The barcode can't be read properly because it is faded or dirty.	Replace the barcode with a clean, good quality barcode.	
A bright light is shining on or reflecting from the barcode.	Remove or shade the light.	
The wrong scanner position is indicated on the user interface	On the advanced <b>Workflow</b> tab, select the correct scanner mounting location.	
The barcode symbology is not recognized.	On the <b>Devices</b> tab, add the symbology used in the barcode.	
The scanner beam is not aligned properly.	Call customer service. In the U.S., call 3M Technical Support at 1-800-328-0067, option 1. Outside the U.S., call your local 3M office.	

# **Power problems**

Possible cause	Solutions
No AC power.	Make sure the SelfCheck system is plugged in.
	<ul> <li>Make sure the monitor is turned on.</li> </ul>
	<ul> <li>Make sure the outlet being used is not operated from a wall switch or other control device.</li> </ul>
	<ul> <li>Check to see whether any other machine or appliance using the same outlet is working.</li> </ul>
	<ul> <li>If the outlet is dead, have a qualified person check the circuit breaker or fuse box.</li> </ul>
There is a computer problem with the SelfCheck system.	In the U.S., call 3M Technical Support at 1-800-328-0067, option 1. Outside the U.S., call your local 3M office.

# Other problems

# Multiple book detector is not detecting multiple strips (V2 and V4)

- Ensure that the multiple book detector is turned on.
- Verify that a security strip is in the book.
- Make sure that the strip is resensitized.
- Do not place books on the cradle during SelfCheck system startup.

# How can I change the sound volume?

Rotate the volume control on the bottom of the monitor. For the location, see "Touch screen monitor controls" on page 22.

# **Obtaining service and supplies**

# Printer paper and other supplies

The SelfCheck system sends out email notifications when the printer is low on paper. To order printer paper and other supplies in the U.S., call 1-800-328-0067, option 2. Outside the U.S., call your local 3M office. The following printer paper is recommended:

#### Thermal printer paper

Part number	78-8126-7827-0 (Part number for one roll. You must order paper in quantities of 8 rolls)
Width	3.15 inches [80 mm]
Length	410 feet [125 m]
Diameter	4.0 inches [100 mm]

# **Contacting support**

To contact 3M to request a service call, installation, software support, or to provide Service Agreement information, in the U.S. call 1-800-328-0067. Outside the U.S., contact your local 3M office.

# **3M Library Systems Web site**

The 3M Library Systems Web site is at http://www.3M.com/library.

For additional information about SelfCheck systems, go to <a href="http://www.3M.com/us/library">http://www.3M.com/us/library</a> and select the information you want from the navigation bar.

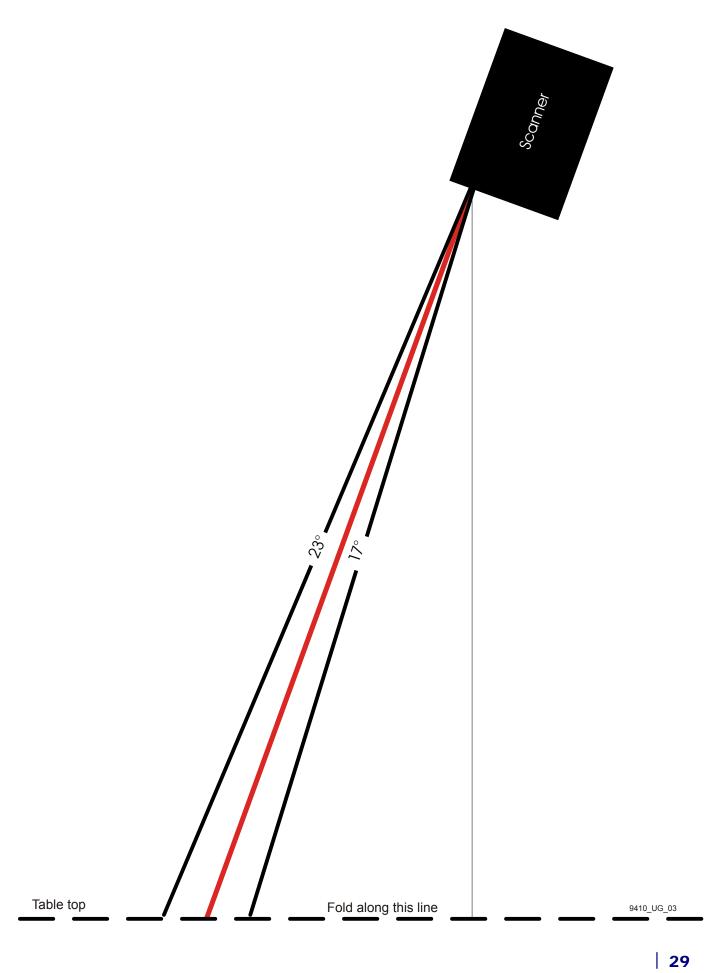
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# Appendix A: BCS scanner adjustment template

Use the template on the following page to ensure that the BCS scanner is about 8 inches (20 cm) from the desktop and lined up at about a 20 degree angle (between 17 and 23 degrees).

#### How to use the template

- 1 Remove the template page from the binder (printed manual) or print it (PDF).
- **2** Fold the page along the dotted line.
- **3** Use the template to ensure that the scanner is at the correct distance and angle.



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