The B3512 Control Panel integrates intrusion and residential fire, providing one simple user interface for both systems. The B3512 provides up to 16 individually identified points in a single area. The control panel can communicate through its built-in Ethernet port (not applicable to “E” control panels), or through compatible plug-in modules that can send events over the public switched telephone network (PSTN) or over cellular network communications. With the B3512, you can monitor doors, windows, and motion within areas like showrooms or those that hold inventory. Each user can have a personalized passcode, a wireless keyfob, and an access credential to control the system.

Use programmable authority levels with restricted privileges to provide service, security, and cleaning personnel with full or limited access. Use the three programmable outputs to turn on lights or lock and unlock doors. Users can:
- Turn on the system to secure the stock room while you conduct daily business.
- Perform tests to ensure your system is working properly.
- Set your system to alarm immediately if a door opens.
- Activate the Watch feature so a tone sounds whenever a customer enters.
- Set a schedule for your system to automatically turn on at closing time.
- Use wireless security options to customize your system.

▶ Provides up to 16 points using 8 on-board and 8 wireless points for installation flexibility with perimeter and interior control. Supports keypad points.

▶ On-board Ethernet port for Conettix IP alarm communication and remote programming, compatible with modern IP networks including IPv6/IPv4, Auto-IP, and Universal Plug and Play.

▶ Installer-friendly features for simple installation and communications, including plug-in PSTN and cellular communication modules.

▶ Remote Security Control app which allows users to control their security systems - and view system cameras - remotely from mobile devices such as phones and tablets.

▶ Programmable keypad shortcuts, situation sensitive on-screen help, and a bilingual user interface make system operation simple and easy.
Central monitoring stations provide 24-hour system monitoring with access to vital services. Professional security personnel can test the system, monitor system activity, and alert the police, fire department, or other emergency response teams if necessary.

**Functions**

**Programmable outputs**
- Three programmable on-board outputs; one high current using a relay, and two trigger outputs
- Output A, with a contact rating of 3 Amps, can supply up to 1.0 A total current from AUX PWR
- Outputs B and C sink up to 50 mA at 12 VDC
- Four alarm-output patterns
- Programmable bell test

**System response**
- High-performance micro-controller provides industry leading system response
- 20 custom point profiles
- Selectable point response time
- Cross point capability
- Fire alarm verification
- Dangerous gas indicator includes carbon monoxide (NFPA 720)
- Watch mode
- A scheduled event (SKED) to perform several functions, such as turn on (arm) the system, turn off (disarm) the system, bypass and un-bypass points, and control relays

**User interface**
- Supervision of up to 4 keypads
- Custom keypad text is fully programmable through RPS or the Installer Services Portal programming tool (available in Europe, Middle East, Africa, and China)
- Full function menu including custom functions
- Authority by area and 32 character name for each user
- 14 custom authority levels control user’s authority to change, add, or delete passcodes to disarm or bypass areas; and to start system tests
- Programmable primary and secondary language by user and keypad
- 12 available languages (any two can be concurrently used)

**User interface languages**

The following table shows the available languages per keypad type.

<table>
<thead>
<tr>
<th>B915/ B915i</th>
<th>B920</th>
<th>B921C</th>
<th>B930</th>
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</tbody>
</table>

**Area Re-Arm**
For higher security applications, this feature guarantees that areas are always rearmed, and are disarmed for no longer than a specific, configurable, amount of time (for example, service time).

**Custom functions**
For added convenience, the installer can program one custom function. A custom function allows customers to complete complex tasks with fewer keystrokes. For example, a custom function can bypass a group of points and arm the system, allowing the user to perform this function with one easy command. Installers can use custom functions to control a particular room. Customers activate a custom function with a keypad, with a keyfob, by faulting a point, or automatically as a scheduled event (SKED).

**Passcode security**
- Two-man rule. Requires two people with two unique passcodes to be present at the time of opening.
- Early ambush. Allows users to verify that the facility is safe by requiring two passcodes. The control panel sends a duress event if the user does not enter the passcode a second time after inspecting the premises.
- Dual authentication. Requires two forms of identification before processing certain system commands, including turning off the system and opening doors. A standard system user must have a passcode, a credential (token or card), and appropriate command authority permissions.

**Easy exit control**
The control panel changes from one On (armed) state to another without turning off (disarming) the system. For example, if you change the state from Part On (Perimeter Arm) to All On (Master Arm), the control panel complies and reports the change. Easy exit control reduces the number of keystrokes, simplifying system operation.

**Programmable passcode-controlled menu list**
Passcode-controlled shortcuts provide users only with the options and information pertinent to them, simplifying system operation.
Monitor Delay/Delayed Response
Create a special point profile that delays the reaction of a point for a specified time (up to 1 hour in minutes and seconds). This delay provides time for the specified condition to reset before activating any annunciation. The system can annunciate locally and send a report, if desired. When the system is armed, the point can respond like a normal point - providing dual functionality. Use this feature to ensure that perimeter doors have not been propped open, or to monitor critical areas such as computer rooms and safes, for example.

System users
The system supports up to 10 users. Each user can have a personalized passcode, a wireless keyfob, and an access credential to control the system. You can assign passcodes to one of 14 customized authority levels that can be restricted to operate only during certain times. Programmable primary and secondary language by user and keypad; select from English, Chinese, French, Greek, Hungarian, Italian, Polish, Portuguese, and Spanish.

Route groups and destinations
The control panel can send reports to four different route groups using one primary and up to three backup destinations for each route group.

Communication formats
The control panel sends reports in these formats:
- Modem4
- ANSI-SIA Contact ID

Reporting capabilities
The control panel has flexible communications for most central station receivers with reporting capabilities such as:
- Individual point numbers
- Opening or closing reports by user and area number
- Remote programming attempts
- Diagnostic reports

Destination test
It is possible to send test reports to each and all destinations within each route group.

IP communication
The control panel can use IP to communicate with a Conettix D6600 or a Conettix D6100IPv6 Communications Receiver/Gateway. Use one of the following for IP:
- The on-board Ethernet connection (not applicable to “E” control panels)
- Ethernet Communication Module: B426
- Plug-in cellular communicator: B442/B443/B444
Conettix IP communication provides a secure path that includes anti-replay/anti-substitution features, and enhanced security with up to AES 256-bit encryption (using Cipher Block Chaining (CBC)). The control panel supports Domain Name System (DNS) for both remote programming and central station communication. DNS provides ease of use, eliminating the need to use static IP addresses as your reporting destination, and accommodates a simple solution for central station disaster recovery. The control panel supports both IPv6 and IPv4 networks.

Communication paths
The control panel accommodates up to four separate phone and four separate network paths to the central station receiver. When resetting alarms or turning a system on and off, the user is identified by name and number.

Personal notification
The control panel can send text messages and emails for personal notification over Ethernet or using a cellular communicator. You can configure up to 16 destinations using a combination of cellular phone numbers and email addresses. The control panel sends notifications in the user's programmed primary language.

Bosch Remote Connect (Cloud)
Remote Connect simplifies connections from RPS, and the Remote Security Control app, using Bosch Cloud services. This service creates a secure connection to the control panel without specific router settings or the need for a static IP address or DNS.

Notice
The Bosch Remote Connect service is not available in Europe, the Middle East, or Africa.

Firmware updates
Remote firmware updates are available.

A wide variety of input options
Each point:
- Accommodates normally-open (NO) and normally-closed (NC) devices with end-of-line (EOL) resistor supervision.
- Accepts programming for fire, gas, fire supervisory, or intrusion applications.
- Supports hardwired and wireless devices.

Security and fire detection
The control panel provides 8 on-board points, and up to 8 additional wireless points. You can program individual points to monitor burglar alarms, fire alarms, and supervision devices.

Event log
The event log stores local and reported events. The event log includes information such as time, date, event, area, point, and user. View the event log from a keypad or use RPS or the Installer Services Portal programming tool (available in Europe, Middle East, Africa, and China) to remotely retrieve event information. When the event log reaches a programmed threshold of stored events, it can send an optional report to a receiver. The log stores up to 127 local and reported events.
Scheduled events (SKEDs)
The internal clock and calendar start a scheduled event (SKED). A SKED performs functions such as turn on or off, relay control, or point bypassing.
The control panel offers:
- One scheduled event with up to 25 different functions
- Two opening windows and two closing windows
- Two user group windows
- Day-of-week, date-of-month, or holiday only schedules
- One holiday schedule of 366 days (leap year)

Programming
Installers can perform limited programming on-site with a keypad (critical parameters; such as account IDs, central station and RPS IP addresses and phone numbers, reporting formats, and more). They can also do full programming on-site or remotely (attended or unattended) with RPS. A programmable system passcode prevents unauthorized remote programming. Full programming is also possible with the web-based Installer Services Portal programming tool. The Installer Services Portal programming tool is available for panel firmware version 3.06 or higher.

Notice
The Installer Services Portal programming tool is available in Europe, Middle East, Africa, and China.

The following table shows the available languages for RPS and Installer Services Portal programming tool.

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<thead>
<tr>
<th>Installer Services Portal programming tool</th>
<th>RPS programming</th>
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</table>

* RPS custom text is text, that can be entered in RPS and which will then be displayed on keypads and on the Remote Security Control app.

Diagnostics
Keypads, RPS and the Installer Services Portal programming tool (available in Europe, Middle East, Africa, and China) offer diagnostic help for monitoring and troubleshooting. The diagnostics features allow you to view the status of the wired and wireless devices. The features provide the status of the control panel and its connected devices, such as firmware version, power, and missing conditions. View the status of each area.

Remote Security Control app
The Remote Security Control app allows users to control their security systems remotely from their devices. Users can:
- Turn their security system On or Off
- Turn specific areas On or Off
- Control outputs for applications such as lighting control
- Grant access remotely by unlocking and locking doors

The app requires the installing dealer to create a Remote Access Profile for users, and to install the profile on their devices.

Bosch Video Management System integration
With Bosch Video Management System (Bosch VMS) and an intrusion system, the VMS operator has a single user interface to monitor and control the intrusion system combined with video surveillance. With Bosch VMS and a control panel, the operator can, for example:
- View videos triggered by intrusion events, including all relevant information such as areas, point, and user show in the display with the event.
- View areas, points, outputs, and doors - with their statuses - on the Bosch VMS map, providing the exact location in the system.
- Turn on (arm) and turn off (disarm) areas.
- Bypass and unbypass points.

Requirements to integrate Bosch VMS with a control panel:
- A licensed Bosch VMS system using Professional Editions v5.5 or higher or Bosch VMS Enterprise.
- Edition v5.5 or higher.
- Expansion license to integrate the intrusion control panel. One license needed per control panel. Order number MBX-XINT-xx for the expansion license added to a Bosch VMS base license. Refer to the Bosch Video Management Software product page on the Bosch website, www.boschsecurity.com.
- Access to Remote Programming Software (RPS) and the Installer Services Portal programming tool (available in Europe, Middle East, Africa, and China).

Certifications and approvals

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<th>Region</th>
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<tr>
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### Regulatory compliance/quality marks

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### Installation/configuration notes

#### Notice

Not all products and features are available in all regions. Consult your local Bosch representative for availability details.

#### Keypads

- B942/B942W Touch Screen Keypad (SDI2)
- B930 ATM Style Alphanumeric Keypad (SDI2)
- B921C Two-line Capacitive Keypad (SDI2)
- B920 Two-line Alphanumeric Keypad (SDI2)
- B915/B915I Basic Keypad (SDI2)
- B96 Keypad Trim Bezel
- B56 Keypad Surface Mount Box
- B99 USB Direct Connect Cable
- B501-10 Interconnect wiring cables (pack of 10)

#### Power

- CX4010 Plug-in Transformer (18 VAC 22 VA 60 Hz)
- ICP-TR1822-CAN Plug-in Transformer (110 VAC primary, 18 VAC 22 VA secondary)
- DE-45-18 Transformer

#### Enclosures

- B10 Medium Control Panel Enclosure
- B11 Small Control Panel Enclosure
- B12 Mounting Plate for D8103 Enclosure
- B8103 Universal Enclosure (requires a B12)
- D8108A Attack Resistant Enclosure (requires a B12)
- D8109 Fire Enclosure (requires a B12)
- D8108A-CE Attack Resistant Enclosure with Built-in Transformer (requires a B12)
- B-ENCL-1 Metal Enclosure Kit (includes B12 and transformer)

#### Accessories

- Bosch conventional detectors, including Professional Series, Blue Line Gen2, Blue Line, Classic Line, Commercial Line, and Ceiling Mount motion detectors, as well as glass break, seismic, request-to-exit, photoelectric, heat, and smoke detectors.
**Modules**

B201 2-wire Powered Loop Module  
B426 Conettix Ethernet Communication Module  
B430 Plug-in Communicator, Telephone  
B442 Conettix Plug-in Cellular Communicator (using GPRS)  
B443 Conettix Plug-in Cellular Communicator (using HSPA+)  
B444 Conettix Plug-in Cellular Communicator  
B450 Conettix Plug-in Communicator Interface  
B520 Auxiliary Power Supply Module  
B810 wireless receiver (RADION)  
B820 SDI2 Inovonics Interface Module  
D113 Battery Lead Supervision Module  
D125B Dual Class B Initiating Module  
D129 Class A Initiating Module  
D130 Auxiliary Relay Module  
D132A Smoke Detector Reversing Relay Module  
D134 Dual Relay Module  
D135A Low Battery Disconnect Module  
D185 Reverse Polarity Signaling Module  
D192G Class “B”, Style Y Bell Circuit Supervision

**Applications**

Remote Programming Software (RPS or RPS-LITE) v6.03 and higher  
Installer Services Portal programming tool  
Bosch Video Management System v5.5 and higher  
Remote Security Control

**Conettix receivers**  
(Managed and configured with Conettix D6200 Programming/Administration Software v2.00)  
Conettix D6600 Communications Receiver/Gateway (with only D6641 line cards installed) with CPU version 01.10.00  
Conettix D6100IPv6 Communications Receiver/Gateway with CPU version 61.10.00  
Conettix D6100i Communications Receiver/Gateway with CPU version 61.10.00

**RADION wireless from Bosch**

B810 wireless receiver (RADION)  
RFBT-A/RFBT bill trap  
RFDL-11-A/RFDL-11 TriTech motion detector  
RFDW-RM-A/RFDW-RM surface mount door/window contact  
RFDW-SM-A/RFDW-SM recessed mount door/window contact  
RFGB-A/RFGB glass break detector  
RFKF-A/RFKF two-button keyfob  
RFKF-FBS-A/RFKF-FBS four-button keyfob  
RFKF-TBS-A/RFKF-TBS two-button keyfob  
RFPB-SB-A/ RFPB-SB single-button panic  
RFPB-TB-A/RFPB-TB two-button panic  
RFRP-A/RFRP repeater  
RFSM-A/RFSM smoke detector  
RFPR-12-A/RFPR-12 PIR motion detector  
RFPR-C12-A/RFPR-C12 PIR curtain motion detector  
RFUN-A/RFUN universal transmitter

**Inovonics Wireless**

B820 SDI2 Inovonics Interface Module  
ENKIT-SDI2 SDI2 Inovonics Interface and Receiver Kit. Includes B820 and EN4200  
EN1210 Universal Transmitter (Single-input)  
EN1210EOL Universal Transmitter with EOL Resistor  
EN1210W Door-Window Transmitter with Reed Switch  
EN1215EOL Universal Transmitter with Wall Tamper, Reed Switch, and EOL Resistor  
EN1223D Water-resistant Pendant Transmitter (Double-button)  
EN1223S Water-resistant Pendant Transmitter (Single-button)  
EN1224-ON Multiple-Condition Pendant Transmitter  
EN1233D Necklace Pendant Transmitter (Double-button)  
EN1233S Necklace Pendant Transmitter (Single-button)  
EN1235D Beltclip Pendant Transmitter (Double-button)  
EN1235DF Fixed-location Transmitter (Double-button)  
EN1235S Beltclip Pendant Transmitter (Single-button)  
EN1235SF Fixed-location Transmitter (Single-button)  
EN1247 Glass-break Detector Transmitter  
EN1249 Bill Trap Transmitter  
EN1242 Smoke Detector Transmitter  
EN1260 Wall Mount Motion Detector  
EN1261HT High Traffic Motion Detector  
EN1262 Motion Detector with Pet Immunity  
EN1265 360° Ceiling Mount Motion Detector
EN4200 Serial Receiver
EN5040-T High Power Repeater with Transformer

### Technical specifications

#### Communications

**Ethernet**
- 10/100 full duplex (N/A for "E" control panels)

#### Environmental considerations

**Relative humidity**
- 5% to 93% at +90°F (+32°C), non-condensing

**Temperature (operating)**
- +32°F to +122°F (0°C to +49°C)

#### Power requirements

**Current draw (maximum)**
- Idle 125 mA; alarm 155 mA

**Output (alarm)**
- 1.3 A at 12 VDC

**Output (auxiliary, continuous power, and switched auxiliary combined):**
- 800 mA at 12 VDC nominal

**Voltage (operating):**
- 12 VDC nominal

**Voltage (AC):**
- 16.5 - 18 VAC

#### Number of...

**Areas**
- 1

**Custom functions**
- 1

**Events**
- 512

**Passcode users**
- 10, plus 1 installer passcode

**Points**
- 16 (8 on-board, up to 8 wireless)

**Programmable outputs**
- 3 on-board

**RF points**
- 8

**SKEDs**
- 1

### Ordering information

#### B3512 IP control panel, 16 points
Supports up to 16 points, 3 on-board outputs, and 1 area for intrusion, residential fire. On-board Ethernet. Order number **B3512**

#### B3512E Control panel, 16 points, no IP
The B3512E is available only in kits, with a minimum order quantity of 10. Order number **B3512E**

#### Accessories

**B520 Auxiliary power supply module, 2A 12V**
Provides auxiliary power to 12 VDC devices or to SDI2 modules. Order number **B520**

**B201 2-Wire Powered Loop**
The module provides a single powered initiating device circuit. The module supports compatible 12 V 2-wire smoke detectors. It also supports connecting burglary devices to the control panel. Order number **B201**

**B810 Wireless SDI2 bus interface**
Receives RF signals from RADION transmitters, repeaters, and glassbreaks. Operates at 433.42 MHz. For use with compatible SDI2 bus control panels. Order number **B810**

**D122 Dual battery harness, 17” 18AWG**
Harness with circuit breaker. Connects two batteries (in parallel) to a compatible control panel. Order number **D122**

**D122L Dual battery harness, 35”, 12V**
Harness with circuit breaker and leads measuring 35 in. (89 cm). Connects two batteries (in parallel) to a compatible control panel in a separate enclosure. Order number **D122L**

**D126 Battery, 12V 7Ah**
A rechargeable sealed lead-acid power supply used as a secondary power supply or in auxiliary or ancillary functions. Order number **D126**

**D1218 Battery, 12V 18Ah**
The D1218 is a 12 V 18 Ah sealed lead-acid battery with two bolt-fastened terminals. It is used for standby and auxiliary power. It connects to a compatible control panel using a D122 or D122L Dual battery harness. Order number **D1218**

**CX4010 Transformer, plug-in, 18V 22VA**
For use in North America. 110 VAC primary voltage input. 18 VAC, 22 VA secondary input. Order number **CX4010**

**ICP-TR1822-CAN Transformer, plug-in, 18V 22VA, Canada**
For use in Canada. 110 VAC primary voltage input. 18 VAC, 22 VA secondary input. Order number **ICP-TR1822-CAN**

**D8004 Transformer enclosure kit, grey**
For applications that might require a remote transformer in an enclosure. Can be used with B Series control panels and D9412GV4/D7412GV4 control panels. Order number **D8004**

**B8103 Universal enclosure, white**
White steel enclosure measuring 41 cm x 41 cm x 9 cm (16 in. x 16 in. x 3.5 in.). Order number **B8103**
D8108A Attack resistant enclosure, large, grey
Grey steel enclosure measuring 41.5 cm x 41.5 cm x 9 cm (16 in. x 16 in. x 3.5 in.).
UL Listed. Includes a lock and key set.
Order number D8108A

D8109 Fire enclosure, 16x16x3.5", red
Red enclosure, 16in. x 16in. x 3.5in. (41cm x 41cm x 9cm), 16 gauge (1.5mm) cold-rolled steel, full-length hinge, D101F lock and 2 D102F keys, UL Listed for commercial fire/burglary applications.
Order number D8109

B10 Steel enclosure, medium, white
White, steel enclosure. Accepts an optional lock and tamper switch. Measures 35.6 cm x 31.8 cm x 7.6 cm (14 in x 12.5 in x 3 in).
Order number B10

B11 Steel enclosure, small, white
White, steel enclosure. Accepts an optional lock and tamper switch. Measures 27.8 cm x 25.9 cm x 8.32 cm (10.9 in x 10.2 in x 3.3 in).
Order number B11

B12 Mounting plate for D8103 enclosure
Required for mounting select control panels and other devices in B8103, D8103, D8108A, D8109, and BATB Battery Box enclosures.
Order number B12

B-ENCL-1 Metal Enclosure kit w/transformer
White steel enclosure with installed 220 VAC transformer.
Order number B-ENCL-1

D101 Enclosure lock and key set
Short-body lock set with one key supplied. Uses the D102 (#1358) replacement key.
Order number D101

D110 Tamper switch for enclosure, 2pcs
Screw-on tamper switch that fits all enclosures. Shipped in packages of two.
Order number D110

ICP-EZTS Dual tamper switch
Combination tamper switch with a wire loop for additional tamper outputs.
Order number ICP-EZTS

B99 USB direct connect cable
Male A to Male A USB cable for local programming of control panels with on-board USB ports.
Order number B99

B915 Basic Keypad
Two-line alphanumeric basic keypad with language function keys.
Available languages: English, Chinese, Dutch, French, German, Greek, Italian, Hungarian, Polish, Portuguese, Spanish, Swedish.
Order number B915

B915I LCD keypad, icon keys, SDI2
Two-line alphanumeric basic keypad with icon function keys.
Available languages: English, Chinese, Dutch, French, German, Greek, Italian, Hungarian, Polish, Portuguese, Spanish, Swedish.
Order number B915I

B920 2 Line Alpha Numeric Keypad (SDI2)
Two-line alphanumeric keypad
Available languages: English, Dutch, French, German, Hungarian, Italian, Portuguese, Spanish, Swedish.
Order number B920

B921C Two-line keypad w/Touch keys, Inputs
Two-line alphanumeric keypad with inputs and capacitive touch keys in black.
Available languages: English, Dutch, French, German, Hungarian, Italian, Portuguese, Spanish, Swedish.
Order number B921C

B930 ATM Style-Alpha Numeric Keypad (SD12)
Five-line ATM style alphanumeric keypad
Available languages: English, Dutch, French, German, Hungarian, Italian, Portuguese, Spanish, Swedish.
Order number B930

B942 Touch Screen KP Prox/Input/Output, black
Black SDI2 touch screen keypad with inputs and one output.
Available languages: English, Chinese, Dutch, French, German, Greek, Italian, Hungarian, Polish, Portuguese, Spanish, Swedish.
Order number B942

B942W Touch screen KP, prox/input/output,white
White SDI2 touch screen keypad with inputs and one output.
Available languages: English, Chinese, Dutch, French, German, Greek, Italian, Hungarian, Polish, Portuguese, Spanish, Swedish.
Order number B942W

B426 Ethernet Communication Module
Supports two-way communications over Ethernet networks for compatible control panels
Order number B426

B442 Plug-in cellular module, GPRS
Multi-function cellular communicator that provides IP communication over a (GPRS) cellular network
Order number B442

B443 Plug-in Cellular, HSPA+ (3G+)
Multi-function 3G/4G cellular communicator providing IP communication over a GPRS/EDGE/UMTS/HSPA+ cellular network
Order number B443
**B444 Plug-in cellular module, VZW LTE, hot**
Pre-activated 4G LTE cellular communicator for secure two-way IP communication on the Verizon Wireless LTE network.
Order number **B444**

**B444-C Plug-in cell module, VZW LTE, cold**
Non-activated 4G LTE cellular communicator for secure two-way IP communication on the Verizon Wireless LTE network.
Order number **B444-C**

**Software Options**

**D5500CU Upgrade DVD**
RPS software is available for free download on the RPS product page. It is also available on DVD-ROM.
Order number **D5500CU**