

# Configuration guide

# Remotely managing your SMART Board® 8055i interactive flat panel

Connecting and configuring a room control system.....	2
Connecting a computer to an interactive flat panel.....	2
Configuring your computer's serial interface settings.....	3
Power modes.....	4
Room control system programming commands and responses.....	4
Command inventory.....	5
Designating video input commands for a specific video input.....	6
Commands and controls.....	7
Power state commands.....	7
Video input.....	7
Video input commands.....	10
Audio output commands.....	14
System information commands.....	15
Service information.....	19

---

This document includes detailed instructions on how to set up your computer or room control system to remotely manage your SMART Board® 8055i interactive flat panel using an RS-232 serial interface.

## CONFIGURATION GUIDE

Remotely managing your SMART Board 8055i interactive flat panel

# Connecting and configuring a room control system

Connect a computer to the room control input on the interactive flat panel to remotely select video inputs, turn on or turn off your interactive flat panel and request information such as contrast, power state and current settings.

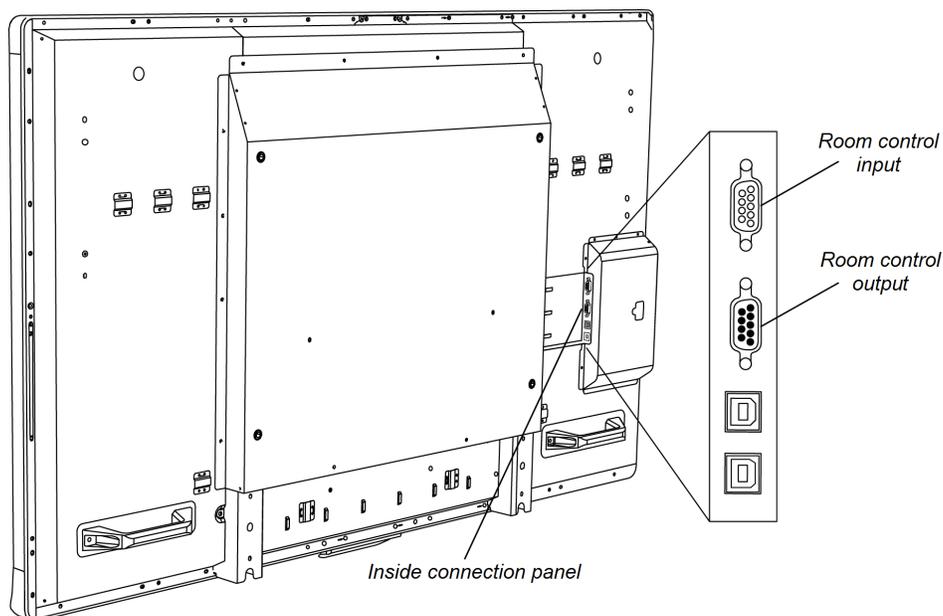
## Connecting a computer to an interactive flat panel

### ■ To connect a computer to your interactive flat panel

Connect an RS-232 cable from the serial output on your computer to the room control input on the inside connection panel.

#### **i** NOTE

Do not use a null modem cable. Use only a standard RS-232 cable.



### ■ Connecting a computer to multiple interactive flat panels

#### **i** NOTE

Up to three interactive flat panels can be connected.

## CONFIGURATION GUIDE

Remotely managing your SMART Board 8055i interactive flat panel

1. Connect an RS-232 cable from the serial output on your computer to the room control input on the inside connection panel of the first interactive flat panel.
2. Connect an RS-232 cable from the room control output of the first interactive flat panel to the room control input on the second interactive flat panel.
3. Connect an RS-232 cable from the room control output of the second interactive flat panel to the room control input on the third interactive flat panel.

### Configuring your computer's serial interface settings

You need to configure your computer's serial interface before sending commands.

#### **i** NOTES

- Use ASCII-formatted commands.
- Press ENTER after each command, and then wait for the command prompt (>) before you type the next command.
- The room control feature of the interactive flat panel is available when the interactive flat panel is active or in Standby mode. It isn't available when the interactive flat panel is in Eco-Standby mode (presence detection is disabled) or is turned off.

#### **■** To configure your computer's serial interface

1. Turn on your interactive flat panel.
2. Turn on your computer, and then start your serial communications program or terminal emulation program.
3. Activate local echo.
4. Configure your serial interface settings using the values from this table, and then press ENTER.

Baud rate	19200
Data length	8
Parity bit	None
Stop bit	1

A command prompt (>) appears on the following line.

#### **i** NOTE

If no message appears or an error message appears, your serial interface configuration isn't correct. Repeat step 3.

5. Type commands to configure your interactive flat panel.

## CONFIGURATION GUIDE

Remotely managing your SMART Board 8055i interactive flat panel

# Power modes

The interactive flat panel has five distinct power modes: On, Power Save, Standby, Eco-Standby and Off.

### IMPORTANT

Some commands are available when your interactive flat panel is in Standby mode. No commands are available when the interactive flat panel is off or in Eco-Standby mode.

# Room control system programming commands and responses

To access interactive flat panel information or adjust interactive flat panel settings using the room control system, type commands after the command prompt (>), and then wait for the response from your interactive flat panel.

### NOTE

Commands aren't case-sensitive.

### EXAMPLE

```
>get contrast  
contrast=55
```

If you type a command that the room control system doesn't recognize, you receive an invalid command response.

In the example below the user included a space in the contrast command.

### INCORRECT

```
>set con trast=65  
invalid cmd=set con trast=65
```

## CONFIGURATION GUIDE

Remotely managing your SMART Board 8055i interactive flat panel

### Command inventory

Your interactive flat panel responds to the commands in the tables on the following pages. To see a list of valid commands for your interactive flat panel's current power state, type `?`, and then press ENTER.

#### IMPORTANT

- Type commands on a command prompt (`>`).
- Review each entry carefully before you press ENTER.
- Do not send another command until you receive the response and the next command prompt.

#### Identifying current values

You can identify the current value for each setting. In the example below, the user wants to identify the contrast level for the interactive flat panel.

##### EXAMPLE

```
>get contrast  
contrast=55
```

#### Assigning a specific value

You can assign a specific value for a setting within the command's target range. In the example below, the user wants to set the contrast level for the interactive flat panel to 65.

##### EXAMPLE

```
>set contrast=65  
contrast=65
```

#### Increasing a value for a setting

You can increase a setting by a designated number. In the example below, the user wants to increase the contrast level for the interactive flat panel by 5.

##### EXAMPLE

```
>set contrast +5  
contrast=70
```

## CONFIGURATION GUIDE

Remotely managing your SMART Board 8055i interactive flat panel

### Decreasing a value for a setting

You can decrease a setting the designated number. In the example below, the user wants to decrease the contrast level for the interactive flat panel by 15.

#### EXAMPLE

```
>set contrast -15  
contrast=55
```

### Designating video input commands for a specific video input

When you connect multiple video inputs to your interactive flat panel, you can designate different settings for each video input. You can also specify which video input you want to get information about or assign values to.



#### IMPORTANT

You must connect the video input to your interactive flat panel to identify or assign a value for it, but the video input does not need to be in use.

### Identifying the value for a video input setting

Use the Get command to identify values for a video input. In the example below, the user wants to identify the contrast for the VGA 1 video input.

#### EXAMPLE

```
>get contrast vga1  
contrast vga1=65
```

### Assigning a value for a video input setting

Use the Set command to assign values for a video setting. In the example below, the user wants to set the contrast to 70 for the VGA 1 video input.

#### EXAMPLE

```
>set contrast vga1=70  
contrast vga1=70
```

## Commands and controls

The following tables contain command line options for identifying and assigning system settings.

### Power state commands

Use power state commands to turn on or to turn off the interactive flat panel or to request its current power state. The interactive flat panel power state determines which commands are available at that time. Power state control commands are available even when the interactive flat panel is off.

#### Identifying the power state setting

Use the following commands to identify the values for power state settings.

Command	Response	Response values	Available in Standby mode
get powerstate	powerstate=[powerstate]	<ul style="list-style-type: none"> <li>• on</li> <li>• ready</li> <li>• standby</li> <li>• off</li> </ul>	Yes
get standbymode	standbymode=[standbymode]	<ul style="list-style-type: none"> <li>• normal</li> <li>• eco</li> </ul>	Yes

#### Assigning the power state setting

Use the following commands to assign values to power state settings.

Command	Command target values	Responses	Available in Standby mode
set powerstate [target]	<ul style="list-style-type: none"> <li>• =on</li> <li>• =ready</li> <li>• =standby</li> <li>• =off</li> </ul>	powerstate=[powerstate]	Yes
set standbymode [target]	<ul style="list-style-type: none"> <li>• =normal</li> <li>• =eco</li> </ul>	standbymode=[standbymode]	Yes

### Video input

Use the following commands to identify or set a video input . You can use these commands when your interactive flat panel is in Standby mode.

#### Identifying the video input

Use the following commands to identify the video input .

## CONFIGURATION GUIDE

Remotely managing your SMART Board 8055i interactive flat panel

Command	Response	Response values	Available in Standby mode
get input	input =[current]	<ul style="list-style-type: none"><li>• VGA1</li><li>• VGA2</li><li>• DVI</li><li>• Video1</li><li>• S_Video</li><li>• DVD/HD1</li><li>• DisplayPort</li><li>• HDMI1</li><li>• HDMI2</li></ul>	Yes
get videoinputs	videoinputs =[current] <b>i NOTE</b> A list of all the available video inputs appears.	<ul style="list-style-type: none"><li>• VGA1</li><li>• VGA2</li><li>• DVI</li><li>• Video2</li><li>• S_Video</li><li>• DVD/HD1</li><li>• DisplayPort</li><li>• HDMI1</li><li>• HDMI2</li></ul>	Yes
get usb1source	usb1source =[current] <b>i NOTE</b> Use this command to identify the video input associated with USB 1. The default is VGA 1.	<ul style="list-style-type: none"><li>• VGA1</li><li>• VGA2</li><li>• DVI</li><li>• DisplayPort</li><li>• HDMI1</li><li>• HDMI2</li><li>• Disabled</li></ul>	Yes
get usb2source	usb2source =[current] <b>i NOTE</b> Use this command to identify the video input associated with USB 2. The default is VGA 2.	<ul style="list-style-type: none"><li>• VGA1</li><li>• VGA2</li><li>• DVI</li><li>• DisplayPort</li><li>• HDMI1</li><li>• HDMI2</li><li>• Disabled</li></ul>	Yes
get usb3source	usb3source =[current] <b>i NOTE</b> Use this command to identify the video input associated with USB 3. The default is HDMI 2.	<ul style="list-style-type: none"><li>• VGA1</li><li>• VGA2</li><li>• DVI</li><li>• DisplayPort</li><li>• HDMI1</li><li>• HDMI2</li><li>• Disabled</li></ul>	Yes

## CONFIGURATION GUIDE

Remotely managing your SMART Board 8055i interactive flat panel

### Setting the video input

Use the following command to set the video input.

Command	Command target value	Response	Available in Standby mode
set input [target]	<ul style="list-style-type: none"><li>• =VGA1</li><li>• =VGA2</li><li>• =DVI</li><li>• =Video2</li><li>• =S_Video</li><li>• =DVD/HD1</li><li>• =DisplayPort</li><li>• =HDMI1</li><li>• =HDMI2</li></ul>	input=[current]	Yes
set usb1source [target]	<ul style="list-style-type: none"><li>• =VGA1</li><li>• =VGA2</li><li>• =DVI</li><li>• =DisplayPort</li><li>• =HDMI1</li><li>• =HDMI2</li><li>• =Disabled</li></ul>	usb1source =[current]	Yes
<b>i NOTE</b> The video and USB input combination must be unique.			
set usb2source [target]	<ul style="list-style-type: none"><li>• =VGA1</li><li>• =VGA2</li><li>• =DVI</li><li>• =DisplayPort</li><li>• =HDMI1</li><li>• =HDMI2</li><li>• =Disabled</li></ul>	usb2source =[current]	Yes
<b>i NOTE</b> The video and USB input combination must be unique.			

## CONFIGURATION GUIDE

Remotely managing your SMART Board 8055i interactive flat panel

Command	Command target value	Response	Available in Standby mode
set usb3source [target]	<ul style="list-style-type: none"><li>• =VGA1</li><li>• =VGA2</li><li>• =DVI</li><li>• =DisplayPort</li><li>• =HDMI1</li><li>• =HDMI2</li><li>• =Disabled</li></ul>	usb3source =[current]	Yes

### NOTE

The video and USB input combination must be unique.

## Video input commands

Use video input control commands to control video input settings for all video inputs, including HDMI inputs.

### Identifying video input control settings

Use the following commands to identify the video input control settings.

### IMPORTANT

Turn on your interactive flat panel to access this information. The information is not available when your interactive flat panel is off or in Standby mode.

Command	Response	Response values	Available in Standby mode
get blacklevel	blacklevel=[current]	0–100	No
get brightness	brightness=[current]	0–100	No
get clock	clock=[current]	current clock	No
get clockphase	clockphase=[current]	current clock phase	No
get colortemp	colortemp=[current]	<ul style="list-style-type: none"><li>• normal</li><li>• warm</li><li>• cool</li><li>• user</li></ul>	No
get contrast	contrast=[current]	0–100	No

## CONFIGURATION GUIDE

Remotely managing your SMART Board 8055i interactive flat panel

Command	Response	Response values	Available in Standby mode
get displaymode	displaymode=[current]	<ul style="list-style-type: none"><li>• dynamic</li><li>• standard</li><li>• sRGB</li><li>• cinema</li><li>• sport</li><li>• game</li><li>• user</li><li>• ambient</li></ul>	No
get saturation	saturation=[current]	0–100	No
get sharpness	sharpness=[current]	0–100	No
get tint	tint=[current]	0–100	No

## CONFIGURATION GUIDE

Remotely managing your SMART Board 8055i interactive flat panel

### Assigning video input control settings

Use the following commands to control the appearance of your video input. For more information on setting a specific value, see *Assigning a specific value* on page 5.

#### IMPORTANT

The following information is not available when your interactive flat panel is off or in Standby mode.

Command	Command target value	Response	Available in Standby mode
set blacklevel [target]	<ul style="list-style-type: none"><li>• + value</li><li>• - value</li><li>• =0–100</li></ul>	blacklevel =[current]	No
set brightness [target]	<ul style="list-style-type: none"><li>• + value</li><li>• - value</li><li>• =0–100</li></ul>	brightness=[current]	No
set brightness [video input] [target]	<ul style="list-style-type: none"><li>• + value</li><li>• - value</li><li>• =0–100</li></ul>	brightness [video input]=[current]	No
<b>i NOTE</b> The video input can be “VGA1”, “VGA2”, “Composite” or “S-Video”. You can set the brightness even if the interactive flat panel isn’t using that video input.			
set clock [target]	<ul style="list-style-type: none"><li>• + value</li><li>• - value</li><li>• =minimum–maximum (varies by OSD settings)</li></ul>	clock =[current]	No
set clockphase [target]	<ul style="list-style-type: none"><li>• + value</li><li>• - value</li><li>• =minimum–maximum (varies by OSD settings)</li></ul>	clockphase =[current]	No

## CONFIGURATION GUIDE

Remotely managing your SMART Board 8055i interactive flat panel

Command	Command target value	Response	Available in Standby mode
set blacklevel [target]	<ul style="list-style-type: none"><li>• + value</li><li>• - value</li><li>• =0–100</li></ul>	blacklevel =[current]	No
set brightness [target]	<ul style="list-style-type: none"><li>• + value</li><li>• - value</li><li>• =0–100</li></ul>	brightness =[current]	No
set colortemp [target]	<ul style="list-style-type: none"><li>• normal</li><li>• warm</li><li>• cool</li><li>• user</li></ul>	colortemp =[current]	No
set contrast [target]	<ul style="list-style-type: none"><li>• + value</li><li>• - value</li><li>• =0–100</li></ul>	contrast =[current]	No
set displaymode [target]	<ul style="list-style-type: none"><li>• dynamic</li><li>• standard</li><li>• sRGB</li><li>• cinema</li><li>• sport</li><li>• game</li><li>• user</li><li>• ambient</li></ul>	displaymode =[current]	No
set saturation [target]	<ul style="list-style-type: none"><li>• + value</li><li>• - value</li><li>• =0–100</li></ul>	saturation =[current]	No
set sharpness [target]	<ul style="list-style-type: none"><li>• + value</li><li>• - value</li><li>• =0–100</li></ul>	sharpness =[current]	No
set tint [target]	<ul style="list-style-type: none"><li>• + value</li><li>• - value</li><li>• =0–100</li></ul>	tint =[current]	No

## CONFIGURATION GUIDE

Remotely managing your SMART Board 8055i interactive flat panel

### Audio output commands

Use the following commands to control your interactive flat panel audio output to your audio system.

#### NOTE

Audio output commands aren't defined by the video input.

#### Identifying audio output control settings

Use the following commands to identify the audio output control settings.

#### IMPORTANT

The following information is not available when your interactive flat panel is off or in Standby mode.

Command	Response	Response values	Available in Standby mode
get audioinput	audioinput=[current]	<ul style="list-style-type: none"><li>• IN1</li><li>• IN2</li><li>• IN3</li><li>• USB</li><li>• HDMI</li><li>• DisplayPort</li></ul>	No
<div data-bbox="591 1136 727 1171"><b> NOTE</b></div> <div data-bbox="584 1192 1386 1228">Current audio input response values are dependent on the video input.</div>			
get mute	mute=[current]	<ul style="list-style-type: none"><li>• on</li><li>• off</li></ul>	No
get volume	volume=[current]	<ul style="list-style-type: none"><li>• 0–100</li></ul>	No

## CONFIGURATION GUIDE

Remotely managing your SMART Board 8055i interactive flat panel

### Assigning audio output control settings

Use the following commands to control your audio output settings. For more information on setting a specific value, see *Assigning a specific value* on page 5.

#### IMPORTANT

The following settings are not available when your interactive flat panel is off or in Standby mode.

Command	Command target value	Response	Available in Standby mode
set audioinput [target]	<ul style="list-style-type: none"><li>• IN1</li><li>• IN2</li><li>• IN3</li><li>• USB</li><li>• HDMI</li><li>• DisplayPort</li></ul>	audioinput=[current]	No
<div data-bbox="602 892 1471 995"><h4> NOTE</h4><p>Current audio input response values are dependent on the video input.</p></div>			
set mute [target]	<ul style="list-style-type: none"><li>• =on</li><li>• =off</li></ul>	mute=[current]	No
set volume [target]	<ul style="list-style-type: none"><li>• + value</li><li>• - value</li><li>• =0–100</li></ul>	volume=[current]	No

### System information commands

System information commands enable you to control system settings. For more information on setting a specific value, see *Assigning a specific value* on page 5.

#### Identifying system information settings

Use the following commands to identify the system information settings.

#### IMPORTANT

Some of these commands are not available when your interactive flat panel is in Standby mode. Refer to the following table for more information.

## CONFIGURATION GUIDE

Remotely managing your SMART Board 8055i interactive flat panel

Command	Response	Response values	Available in Standby mode
get aspectratio	aspectratio=[current]	<ul style="list-style-type: none"><li>• 1:1</li><li>• 16:9</li><li>• 4:3</li><li>• zoom1</li><li>• zoom2</li></ul>	No
get autopoweroff	autopoweroff =[current]	15–240	No
get fwinfotouch	fwinfotouch=[current]	Firmware version number	Yes
get fwvericp	fwvericp=[current]	Firmware version number	Yes
get fwvermpu	fwvermpu =[current]	Firmware version number	Yes
get fwverscr	fwverscr =[current]	firmware version number	Yes
get hposition	hposition =[current]	current horizontal position	No
get language	language=[current]	<ul style="list-style-type: none"><li>• English</li><li>• Arabic</li><li>• Danish</li><li>• German</li><li>• English_UK</li><li>• Spanish</li><li>• Spanish_MEX</li><li>• French</li><li>• Hindi</li><li>• Hungarian</li><li>• Italian</li><li>• Korean</li><li>• Dutch</li><li>• Norwegian</li><li>• Portuguese_BRA</li><li>• Portuguese</li><li>• Russian</li><li>• Swedish</li><li>• Turkish</li><li>• Chinese</li><li>• Chinese_SIM</li></ul>	No
get modelnum	modelnum=[current]	Model number	No
get proximity	proximity=[current]	<ul style="list-style-type: none"><li>• on</li><li>• off</li></ul>	Yes

## CONFIGURATION GUIDE

Remotely managing your SMART Board 8055i interactive flat panel

Command	Response	Response values	Available in Standby mode
get proximityreenable	proximityreenable=[current]	1–10	Yes
get readystatebrightness	readystatebrightness=[current]	0–100	Yes
get resolution	resolution=[current]	<ul style="list-style-type: none"><li>• 800 × 600</li><li>• 1024 × 768</li></ul>	No
get serialnum	serialnum=[current]	Serial number	No
get tempsensor1	tempsensor1=[current]	Temperature in °C	No
get tempsensor2	tempsensor2=[current]	Temperature in °C	No
get vposition	vposition = [current]	Current vertical position	No

### Assigning system information settings

Use the following commands to set system data. For more information on setting a specific value, see *Assigning a specific value* on page 5.



#### IMPORTANT

Some of these commands are not available when your interactive flat panel is in Standby mode. Refer to the following table for more information.

Command	Command target range	Response	Available in Standby mode
set aspectratio [target]	<ul style="list-style-type: none"><li>• 1:1</li><li>• 16:9</li><li>• 4:3</li><li>• zoom1</li><li>• zoom2</li></ul>	aspectratio=[current]	No
set autpoweroff [target]	<ul style="list-style-type: none"><li>• + val</li><li>• - val</li><li>• =15–240</li></ul>	autpoweroff = [current]	No
set factoryreset	=yes	factoryreset = [current]	Yes
set fwvericp	=yes	factoryreset = [current]	Yes

## CONFIGURATION GUIDE

Remotely managing your SMART Board 8055i interactive flat panel

Command	Command target range	Response	Available in Standby mode
set hposition [target]	<ul style="list-style-type: none"><li>• + val</li><li>• - val</li><li>• =minimum to maximum (varies by OSD settings)</li></ul>	hposition =[current]	No
set language [target]	<ul style="list-style-type: none"><li>• English</li><li>• Arabic</li><li>• Danish</li><li>• German</li><li>• English_UK</li><li>• Spanish</li><li>• Spanish_MEX</li><li>• French</li><li>• Hindi</li><li>• Hungarian</li><li>• Italian</li><li>• Korean</li><li>• Dutch</li><li>• Norwegian</li><li>• Portuguese_BRA</li><li>• Portuguese</li><li>• Russian</li><li>• Swedish</li><li>• Turkish</li><li>• Chinese</li><li>• Chinese_SIM</li></ul>	language=[current]	No
set proximity [target]	<ul style="list-style-type: none"><li>• =on</li><li>• =off</li></ul>	proximity=[current]	Yes
set proximityreenable [target]	=1–10	proximityreenable=[current]	Yes
set readystatebrightness [target]	=0–100	readystatebrightness=[current]	Yes
set vposition [target]	<ul style="list-style-type: none"><li>• + val</li><li>• - val</li><li>• =min–max</li></ul>	vposition =[current]	No
?		List of commands available in the current power state	Yes

## CONFIGURATION GUIDE

Remotely managing your SMART Board 8055i interactive flat panel

### Service information

Use the following commands when servicing the interactive flat panel.

#### Accessing service information data

Use the following commands to access service information data.

#### IMPORTANT

Some of these commands are not available when your interactive flat panel is in Standby mode. Refer to the following table for more information.

Command	Response	Response values	Available in Standby mode
get displayhour	displayhour =[current]	0–20000	Yes
get fancontrol	fancontrol =[current]	<ul style="list-style-type: none"><li>• on</li><li>• auto</li></ul>	Yes
get highspeedfan	highspeedfan =[current]	<ul style="list-style-type: none"><li>• high</li><li>• normal</li></ul>	No
get totalhours	totalhours =[current]	0–20000	Yes

#### Assigning service information settings

Use the following commands to set service information.

#### IMPORTANT

Some of these commands are not available when your interactive flat panel is in Standby mode. Refer to the following table for more information.

Command	Command target range	Response	Available in Standby mode
set highspeedfan [target]	<ul style="list-style-type: none"><li>• =high</li><li>• =normal</li></ul>	highspeedfan =[current]	No
set fancontrol [target]	<ul style="list-style-type: none"><li>• =on</li><li>• =auto</li></ul>	fancontrol =[current]	Yes

[smarttech.com/support](http://smarttech.com/support)  
[smarttech.com/contactsupport](http://smarttech.com/contactsupport)

© 2012 SMART Technologies ULC. All rights reserved. SMART Board, smarttech, the SMART logo and all SMART taglines are trademarks or registered trademarks of SMART Technologies ULC in the U.S. and/or other countries. All other third-party product and company names may be trademarks of their respective owners. Patent No. US6320597; US6326954; US6563491; US6741267; US6803906; US6829372; US6947032; US6954197; US6972401; US7151533; US7236162; US7411575; US7619617; US7643006; US7692625; US7755613; US7757001; US7880720; USD612396; USD616462; USD617332; and USD636784. Other patents pending. Contents are subject to change without notice. 06/2012.