

User Manual

touchCUE-V/i

Version 01



User Manual touchCUE-V /i

UM036_01, 24.4.2008

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2. Introduction

2.1. Overview

The touchCUE-V /i touch panel interface allows to turn any plasma monitor, LCD display or video projection system into a CUE touch panel. Accepting composite (NTSC/PAL) video and S-video (Y/C) inputs, the video can be displayed either full screen or in a video window. Output from the touchCUE-V /i is up to 1024 x 768 providing stunning high color images for both graphics and video. It can be controlled by a variety of pointing devices including a mouse or touch-sensitive overlay. Innovative design features like min. 512 MB of standard data storage provides a level of capability not available with other touch panel interface devices. Fully compatible with CUE controllers, the touchCUE-V /i provides the ultimate one-touch multimedia solution for boardrooms, conference rooms and high-tech homes.

2.2. Features

- High Color display output 1024 x 768 or 800 x 600 pixels – firmware dependent
- Wired Ethernet communication
- Real-time video from composite and S-video inputs
- Variety of pointing devices can be used
- Web server and Admin Web pages for setup and diagnostics
- 19" rack mountable

2.3. Programming

User application screen layouts containing buttons, bar graphs, logos, drawings, video windows etc. are prepared on a PC and downloaded into the video touch panel. The user application can be prepared using **Cue Director** programming tools.

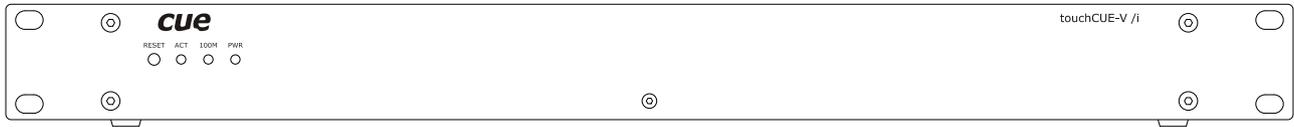
3. Box Contents

Each touchCUE-V /i comes with

- Touch panel interface touchCUE-V /i
- Ethernet cable straight-through, Ethernet cable crossed-over
- CUEwire cable
- CUEadapter /30W incl. power cable
- PS/2-keyboard-mouse (Y-cable)
- Warranty Conditions
- CE Declaration
- RoHS Declaration
- Touch Panel Data Sheet
- Cue System Connector Wiring Sheet
- CUE Application CD

4. Physical Description

4.1. Front Panel of the touchCUE-V /i



Indicators

ACT _____ activity

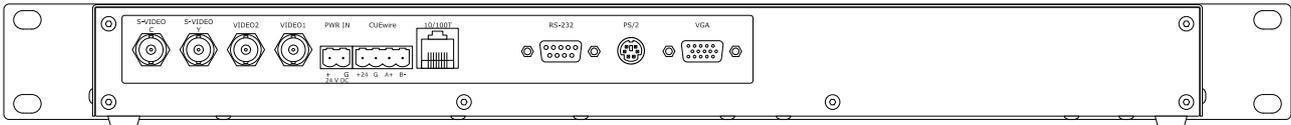
100M _____ 100M/10M LAN selection

PWR _____ power indication

Button

RESET _____ reset

4.2. Rear Panel of the touchCUE-V /i



Power Supply Connector PWR IN

This connector allows you to connect touchCUE-V/i to the external power 24V/ 15W with the supplied AC CUEadapter.

PWR IN			
Pin	Signal	Description	Phoenix 2-pin 5.08 mm
1	+	Power +24 VDC	
2	G	Ground	

Important note

After switching the power supply off a minimum pause of 5 seconds is necessary before switching the power supply of the touch panel unit on again.

CUEwire Connector

The connector marked CUEwire is used for the connection between touchCUE-C /i and the controllers.

Pin	Signal	Description	Phoenix 4-pin 5.08 mm
1	+24	Power +24 VDC	
2	G	Ground	
3	A+	RS-485 Data +	
4	B-	RS-485 Data -	

Video Input Connectors

2x Composite video input on BNC connector: VIDEO1
VIDEO2

1x S-video input on two BNC connectors: S-VIDEO Y (Intensity, Luminance)
S-VIDEO C (Colour, Chrominance)

10/100 BaseT LAN Connector

The 10/100 BaseT LAN is a standard network connection 10/100 BaseT LAN using RJ-45 connector. There is no auto sense, which means it does not recognize straight through cable to cross-over cable. For the direct PC connection it is necessary to use cross-over cable; for the connection to Ethernet switch straight through cable. The length of the Ethernet cable connecting touch panel to the network must not exceed 100 meters.

Connector pin out

CUEnet (LAN)				
RJ-45	Pin	Signal	Description	Cat5 Cable Color
	1	TX_D1+		White / Orange
	2	TX_D1-		Orange
	3	RX_D2+		White / Green
	4			Blue
	5			White / Blue
	6	RX-D2-		Green
	7	G	Ground	White / Brown
	8	G	Ground	Brown

RS-232 Connector

Touch controller serial connection. Elo TouchSystem compatible controllers supported.

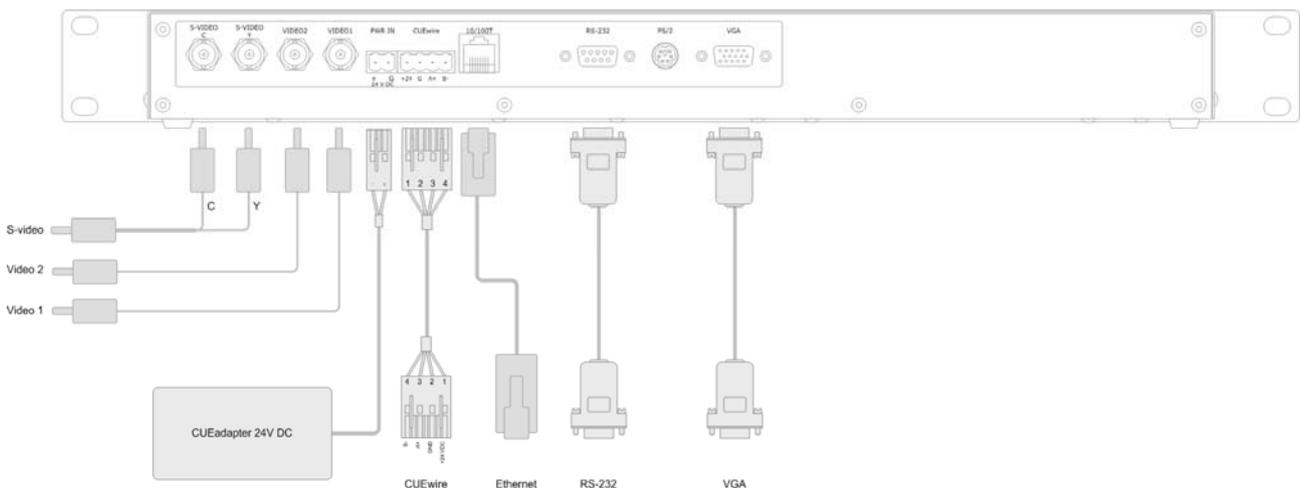
PS/2 Connector

PS/2 pointing device connection, **PS/2-keyboard-mouse (Y-cable) must be used!**

VGA Connector

VGA monitor connection

4.3. Connection



5. Setup

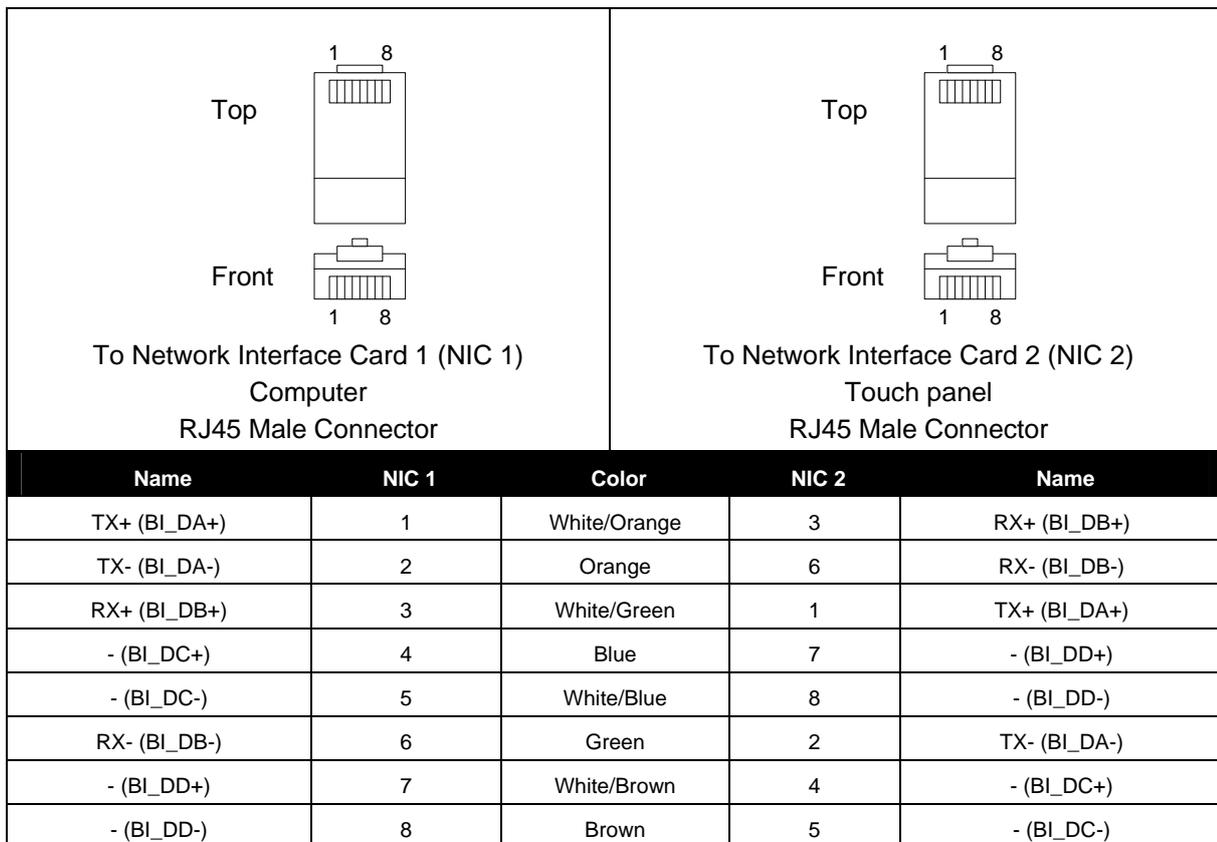
5.1. PC Connection

Using LAN Directly to PC

Attach one end of an RJ-45 Ethernet **crossed-over cable** to the touch panel CUEnet (LAN) port and attach the other end of the RJ-45 Ethernet cable to your computer.

Ethernet Crossed-Over Cable

This cable can be used to cascade hubs, or for connecting two Ethernet stations back-to-back without a hub. It works with 10Base-T, 100Base-TX, 100Base-T4 and 1000Base-T. Use a good enough cable, if you are confused about categories of cables then use Category 5 (enhanced) and you'll be fine even at 1000Base-T.



That means that the White/Orange cable connected to NIC 1 pin 1 should go to NIC 2 pin 3 and NIC 1 pin 2 to NIC 2 pin 6 etc.

Notes

1. 1000Base-T names are in parentheses.
2. It's important that each pair is kept as a pair. TX+ & TX- must be in the pair and RX+ & RX- must together in another pair. Just as the table above shows.
3. While 10Base-T and 100Base-TX only uses 2 pairs, please connect all four since 100Base-T4 and 1000Base-T needs them and save you some future debugging.
4. The colors originate from the numbering and name on NIC 1.

5. The connection is based on IEEE Standard 802.3, 2000 Edition.

Using LAN Network

Attach one end of an RJ-45 Ethernet **straight-through cable** to the touch panel CUEnet (LAN) port and attach the other end of the RJ-45 Ethernet cable to your network switch.

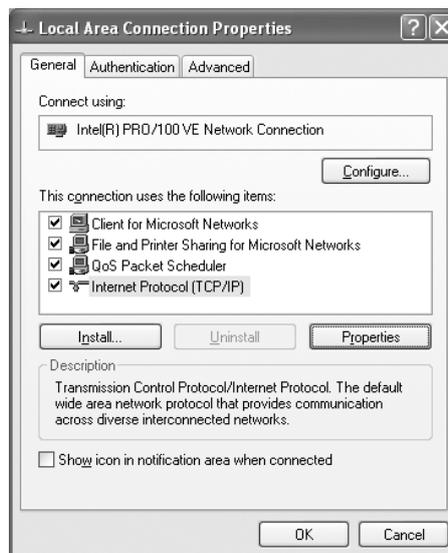
Windows XP Local Area Connection Settings

Steps are

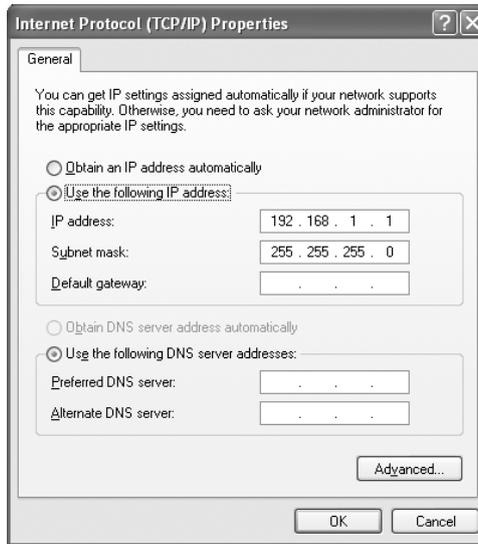
1. Start Windows XP.
2. Click Start, then click Control Panel choose the option to switch to Classic View.
3. Double-click Network Connections, select the Local Area Connection and then right-click and select Properties.



4. Select Internet Protocol (TCP/IP) and click Properties button.



5. Select Use the following IP address option. Set IP address to 192.168.1.1 (or other address different from 192.168.1.127) and Subnet mask to 255.255.255.0. Leave other options unchanged and click OK.



5.2. Access Admin Web Server

Run the Internet browser on your PC and type in the touch panel factory default IP address **192.168.1.128**. The Admin login web page will be displayed. The password is set to default.

5.3. Download User Application

Overview

User control application is dedicated to control and it is programmed by Cue Director programming tools. It is composed of elements for AV, lighting, heating, and air conditioning control etc. based on the actual application.

Using Cue Director XPL

Steps are

1. Connect touch panel to your computer as described in chapter PC Connection.
2. Switch on the touch panel.
3. Run Cue Director XPL.
4. Open Cue System Workspace (CSW) file with Cue Director XPL. It's necessary to have appropriated touch panel properly inserted and configured.
5. Right-click on panel-xxx Layout and select "Download layout...".

Using Admin Web

Steps are

1. Connect touch panel to your computer as described in chapter PC Connection.
2. Switch on the touch panel.

3. Run Cue Director XPL.
4. Open Cue System Workspace (CSW) file with Cue Director XPL. It's necessary to have appropriated touch panel properly inserted and configured.
5. Right-click on panel layout and select "Export to WDF file..." and type name of exported file.
6. Start your web browser and open tochCUE-V/i web pages (for default IP settings open <http://192.168.1.128> page).
7. Go to Application page, browse your WDF file and upload it (see more in section Settings – Applications page).

5.4. Settings

The Admin Web pages enable to manage or show an IP configuration, date and time, stored applications and files, firmware and system information.

This manual describes features of firmware version 2.00n.

Configuration page

Identification



The screenshot shows the web interface for configuring a touchCUE-V/i panel. The page has a red header with the touchCUE logo on the left, the text "touchCUE-V /i CS0190.R04.123456" in the center, and "V /i" on the right. A left sidebar contains a menu with items: Configuration, Date and time, Applications, File storage, Settings, System, Password, Backup, Reset, and License. The main content area is titled "Configuration" and has three tabs: "Identification" (selected), "IP settings", and "DNS". Under the "Identification" tab, there is a "Name:" label followed by a text input field containing "touchCUE-V /i". At the bottom right of the main area, there are "Apply" and "Help" buttons. The footer of the page includes "www.cuesystem.com" and "Contact Support" on the left, and the "cue" logo on the right.

This page is used for setting the identity of a specific touchCUE-V /i panel. Each touchCUE can be identified by a unique identification name. Unique names are most useful in applications requiring more than one touchCUE. This enables programmers and installers to reference touch panel with a logical, user friendly name, like "boardroom," "lobby," etc. To set the touchCUE-V /i identity, enter the unique name you wish to use in the Name box. Be sure to click the Apply button for changes to the identification to become effective!

IP settings

The screenshot shows the touchCUE Configuration page. The top header includes the touchCUE logo, the text "touchCUE-V /i CS0190.R04.123456", and a "V /i" indicator. The left sidebar contains a menu with items: Configuration, Date and time, Applications, File storage, Settings, System, Password, Backup, Reset, and License. Below the menu is the website "www.cuesystem.com" and "Contact Support". The main content area is titled "Configuration" and has three tabs: "Identification", "IP settings" (which is selected), and "DNS". Under the "IP settings" tab, the following information is displayed: Physical address (MAC): 00:04:5F:84:74:AC, Current IP address: 192.168.1.128, Current subnet mask: 255.255.255.0, and Current default gateway: 192.168.1.1. Below this, there are input fields for Host name, IP address (with 192.168.1.128 entered), Subnet mask (with 255.255.255.0 entered), and Default gateway (with 192.168.1.1 entered). At the bottom right of the main area are "Apply" and "Help" buttons.

This page is used for establishing the communication parameters for your touchCUE. The touchCUE uses standard internet protocol (IP) communication parameters. Certain parameters can be reset by the user. On start up, this page will display the touchCUE's given Physical address (MAC), Current IP address. Carefully note this addressing information (and any changes you elect to make to the IP address, subnet mask, or default gateway). This information must be entered into the CUE System Director® program written for your specific application. For control systems with more than one touchCUE or ipCUE, a unique IP address must be given to each unit.

Some control systems are "stand alone" and not part of a larger network. For such "stand alone" systems, the Host name is optional. However, for control systems that are connected to a larger network, please obtain the Host name from the network administrator, and enter it into the corresponding box. DHCP is not supported in this release. Be sure to click the Apply button for any changes to the IP settings to become effective!

DNS

The screenshot shows the touchCUE Configuration page with the "DNS" tab selected. The top header and left sidebar are identical to the previous screenshot. The main content area is titled "Configuration" and has three tabs: "Identification", "IP settings", and "DNS" (which is selected). Under the "DNS" tab, the following information is displayed: Current primary DNS server, Current secondary DNS server, Primary DNS server (with an empty input field), and Secondary DNS server (with an empty input field). At the bottom right of the main area are "Apply" and "Help" buttons.

This page is used for setting parameters of your touchCUE's DNS server. On start up, this page will display the touchCUE's given Current primary DNS server, Current secondary DNS server. You can reset the primary DNS server and secondary DNS server manually by entering your changes into the appropriate

boxes. DHCP is not supported in this release. Be sure to click the Apply button for any changes to the DNS to become effective!

Date and time page

Current date and time

touchCUE-V /i CS0190.R04.123456

Configuration
Date and time
Applications
File storage
Settings
System
Password
Backup
Reset
License

www.cuesystem.com
Contact Support

Date and time

Current date and time | Time zone | Internet clock

Current time: 23.04.2008 10:13:38 GMT

Day, month, year:

Hour, minute, second:

Apply Help

This page is used for setting the time clock on your touchCUE. The current date, time, and time zone are shown on the Current time line. The applicable boxes can be selected to enter changes to the: date: day/month/year, time: hour/minute/second. Be sure to click the Apply button for any changes to the date and time to become effective!

Time zone

touchCUE-V /i CS0190.R04.123456

Configuration
Date and time
Applications
File storage
Settings
System
Password
Backup
Reset
License

www.cuesystem.com
Contact Support

Date and time

Current date and time | Time zone | Internet clock

Current time: 23.04.2008 10:14:02 GMT

Time zone: (GMT) Greenwich Mean Time

Note: The time zone change does not take effect in applications until your touchCUE-V /i is reset.

Apply Help

This page is used for setting the time zone on your touchCUE. The current date, time, and time zone, are shown on the Current time line. The time zone box can be selected to enter changes to the Time zone. Be sure to click the Apply button for any changes to the time zone to become effective!

Internet clock

touchCUE-V /i CS0190.R04.123456 V /i

Configuration
Date and time
Applications
File storage
Settings
System
Password
Backup
Reset
License

Date and time

Current date and time Time zone Internet clock

Use Internet clock

Primary NTP server:

Secondary NTP server:

Note: The Public NTP Time Server Lists are [here](#).

Apply Help

This page is used for synchronization of the touchCUE's date and time to an internet clock. Begin by selecting the check box for Use Internet clock. Next, enter the IP addresses (or complete address name) of the primary and secondary NTP servers. Use the Primary NTP server and Secondary NTP server boxes for this purpose. Be sure to click the Apply button for any changes to the internet clock to become effective!

Applications page

Applications

touchCUE-V /i CS0190.R04.123456 V /i

Configuration
Date and time
Applications
File storage
Settings
System
Password
Backup
Reset
License

Applications

Name	Size	Date		
▶ Test-Wire.wdf	276 KB	12.11.07 10:05	Stop	Delete

Free space: 208 MB Total Stop

Procházet... Upload

Note: The application cannot be uploaded from more pages at the same time.

Help

This page is used for uploading Cue Design Director® application to your touchCUE-V /i. All uploaded applications are listed on this page, along with their file properties: file name/file size/date. touchCUE-V /i has a generous memory; unused free space is shown at the bottom of this page touchCUE-V /i also permits other service functions like deleting files, downloading applications back to a personal computer, and starting/stopping specific applications.

A “running flag”  or  denotes the **active application**. The running application  can be stopped via the Start/Stop button. Likewise, a stopped application  can be restarted with the Start/Stop button. Files are uploaded from a personal computer to the touchCUE-V /i by selecting the desired application program, and

clicking the Upload button. Files are downloaded from the touchCUE-V /i to a personal computer by clicking the File name. Files are easily deleted with the Delete button.

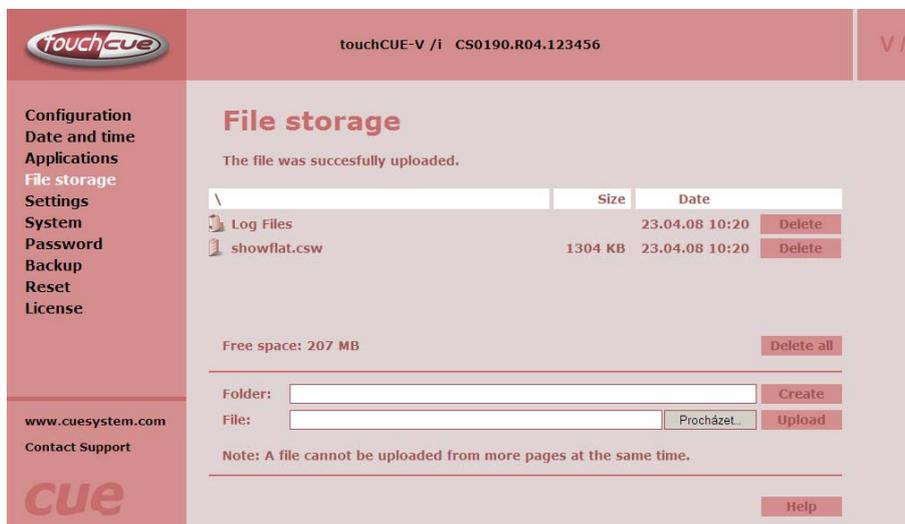
The button **Total Stop** stops a running application. This application will not be automatically started after reset or clicking the Remote Control. No application will be active and the “running flag”  or  will be removed after the button **Total Stop** is pressed.

Data



Application data is a part of memory, where files created and used by Cue Design Director® applications can be stored. The data in this section can be easily uploaded using button **Upload** and organized in folders. The folders can be created using button **Create**.

File storage page



The touchCUE-V /i's generous memory can be used as an auxiliary file storage device. This is helpful in archiving electronic manuals, PDF and other support documentation. File storage is managed via the file storage page.

A list of existing files, folders, and their properties are shown. To delete a file or a folder, click the Delete button on the corresponding line. To delete all files and folders from the current folder, click the Delete All button.

To create a new folder, enter a name for the new folder, and click the Create button. To upload a file, select the desired file, and click the Upload button.

Settings page

Settings

touchCUE-V / i CS0190.R04.123456

Settings

Panel address: 1

Screen saver timeout (minutes): 0

Select pointing device: PS2 mouse, ELO TouchPanel, PS2 mouse, None

Warning: if a 'Panel address' or a 'Pointing device' is changed, a running application will be restarted.

Apply Help

Setting of following parameters available on this page:

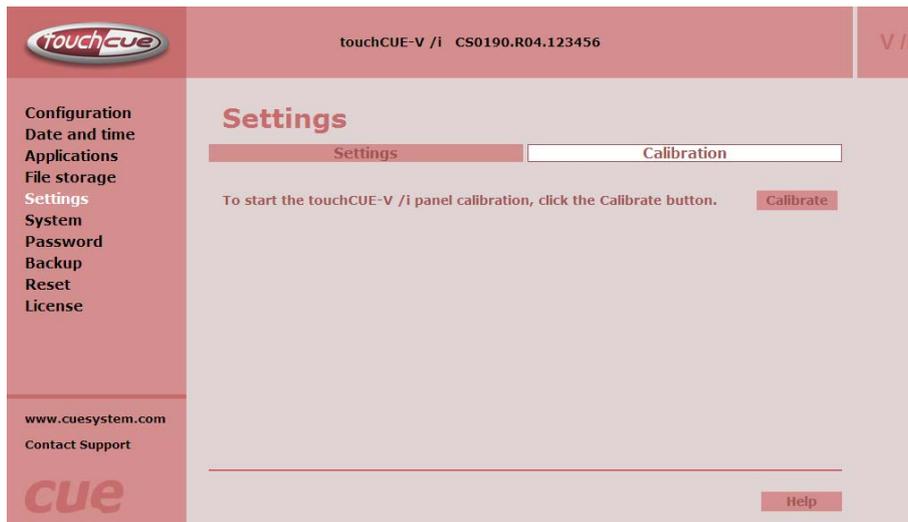
Panel address can be set in the range 1 to 9. Each unit connected to the CUEwire bus must have its unique address. These addresses for touchpanels and keyboards are set in configuration and are called „panel addresses“. Its value must be unique for each unit on the CUEwire bus.

Screen saver timeout can be set timeout for screen saver in range 1-90min. Value 0 means no screensaver feature enabled.

Select pointing device The two possible types of pointing devices are supported:

- MS PS/2 mouse compatible
- ELO TouchSystem compatible - serial (RS232) controllers

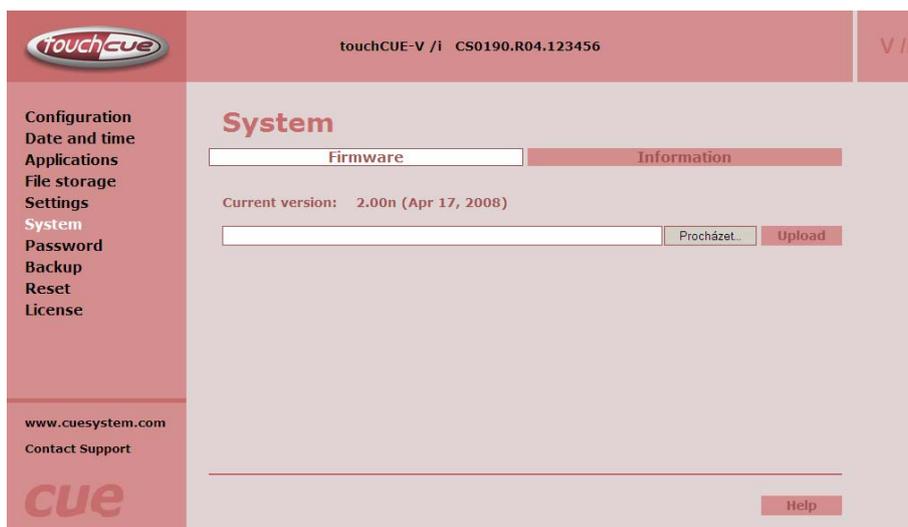
Settings – calibration



From this page the **Calibration** procedure can be activated.

System page

Firmware



This page is used for updating the touchCUE-V /i firmware. The Current version of firmware is shown. To upload new firmware, select the desired version on your PC, and click the Upload button.

Pay attention to installed firmware version. **Select appropriate firmware version according hardware revision of your touchCUE-V /i.** The hardware revision can be checked according the label on the housing or directly in Admin Web on each page caption. (for example R04 as in the sample above)

Attention: also for resolution selection the proper firmware must be used!

The available resolutions are 1024x768 and 800x600.

The firmwares are available from www.cuesystem.com

Information

The screenshot shows the 'System' page of the touchCUE-V /i web interface. The page has a red header with the touchCUE logo on the left, the text 'touchCUE-V /i CS0190.R04.123456' in the center, and 'V /i' on the right. A left sidebar contains a menu with items: Configuration, Date and time, Applications, File storage, Settings, System, Password, Backup, Reset, and License. The main content area is titled 'System' and has two tabs: 'Firmware' and 'Information'. The 'Information' tab is active, displaying a table of hardware information:

Hardware information	
CPU	Geode(TM) Integrated Processor/431 MHz
Flash	250368 kB
RAM	262144 kB

At the bottom of the page, there is a 'Help' button and the 'cue' logo.

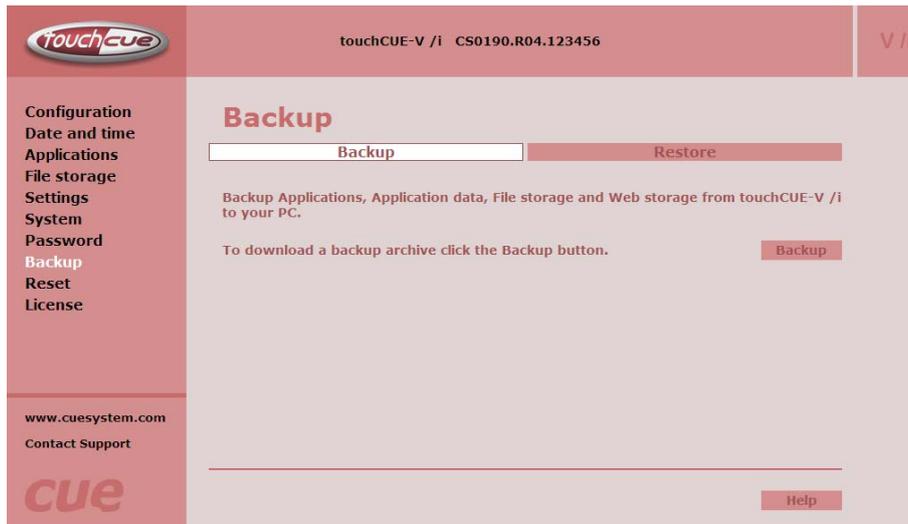
The page shows basic information about your touchCUE-V /i's hardware. The CPU type, CPU frequency, and the Flash and RAM memory sizes, are shown.

Password page

The screenshot shows the 'Password' page of the touchCUE-V /i web interface. The page has a red header with the touchCUE logo on the left, the text 'touchCUE-V /i CS0190.R04.123456' in the center, and 'V /i' on the right. A left sidebar contains a menu with items: Configuration, Date and time, Applications, File storage, Settings, System, Password, Backup, Reset, and License. The main content area is titled 'Password' and contains two input fields: 'New password:' and 'Confirm new password:'. At the bottom of the page, there are 'Apply' and 'Help' buttons and the 'cue' logo.

The page enables to change your login password. A case sensitive password is necessary to login to the web pages. Set a new password via the **New password** box. You must reenter the password in the **Confirm new password** box (an error message will generate if the confirmation does not match, in which case you should reenter your password again in both boxes). Finally, the new password is implemented by clicking the Apply button.

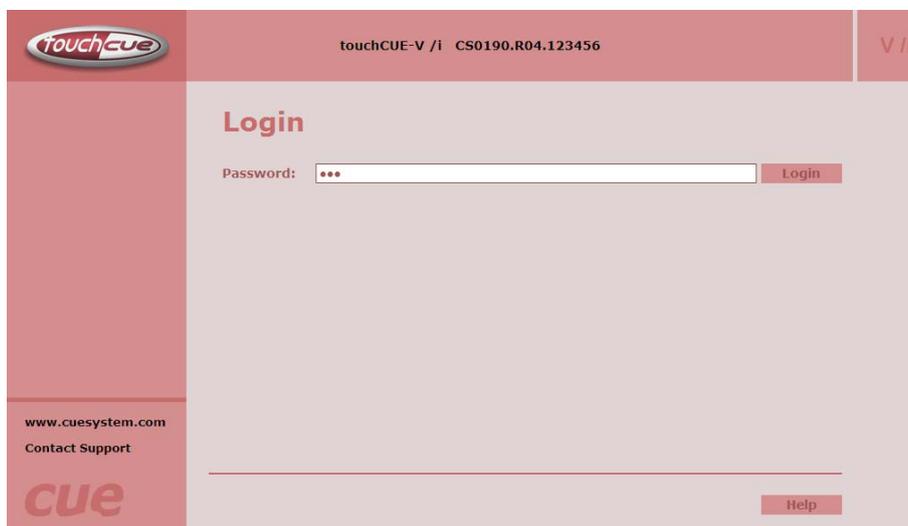
Backup page



The page is used for the backup applications, files and folders. The Backup copies all Applications, Application data and File storage to the one archive. This archive is saved to the PC. To start the backup process, click the Backup button.

Note: To see the backed-up/restored applications, click the Applications menu. To see backed-up/restored files and folders, click the File Storage menu. The page is used for the backup all applications, files and folders.

Login page



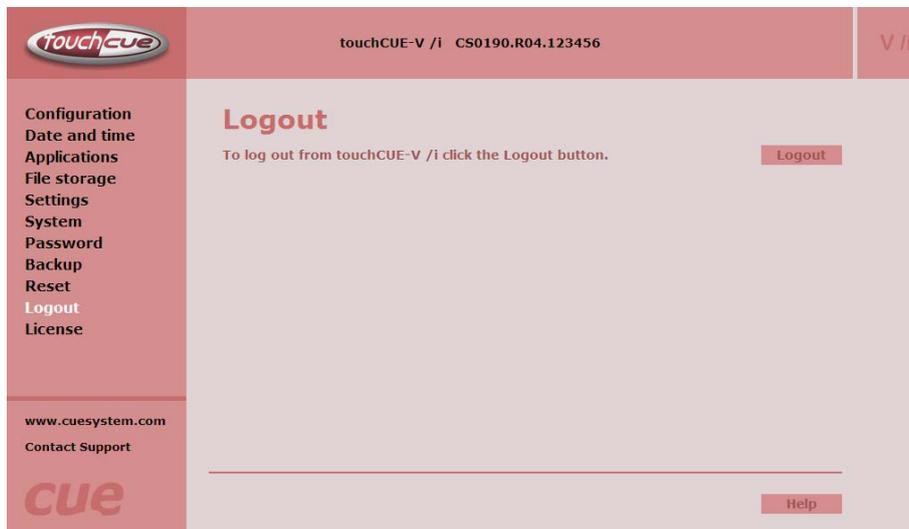
You have to login at first for operating with your touchCUE via these web pages. Default password is empty string.

Attention: This page is not shown, if password is empty string.

Enter your password into the Password box and click the Login button to enter the touchCUE web pages. Remember that the password is case sensitive.

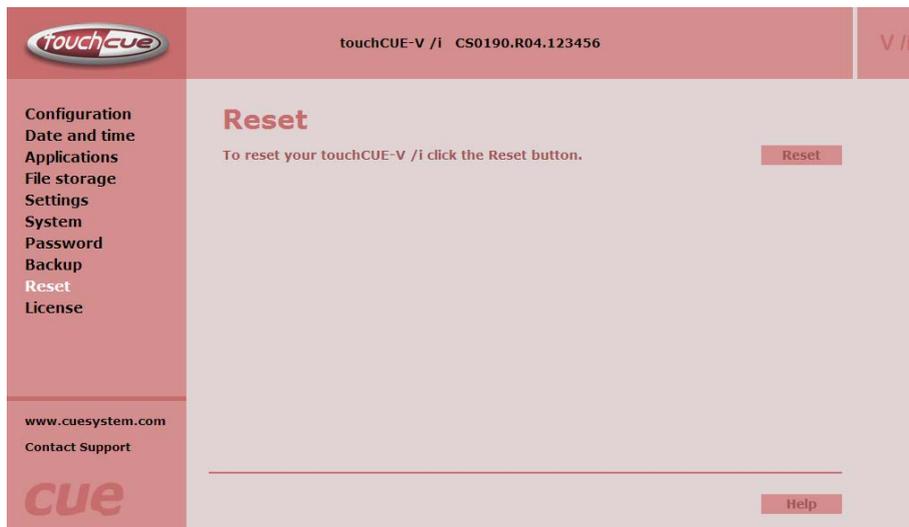
Note: For changing your password use the Password menu after you are logged in.

Logout page



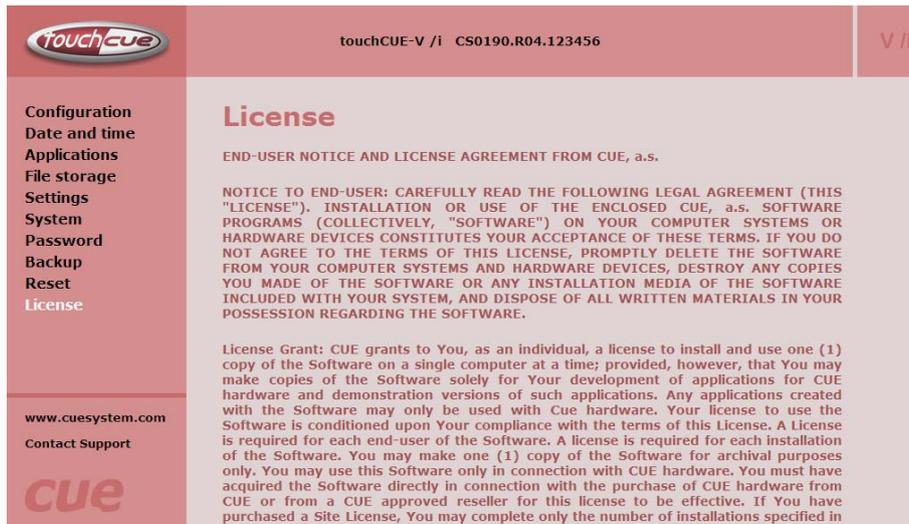
When you are finished working with the touchCUE's Admin Web, click Logout to exit.

Reset page



The page enables to restart the touchCUE-V /i by clicking the Reset button.

License page



touchCUE-V /i CS0190.R04.123456 V /i

Configuration
Date and time
Applications
File storage
Settings
System
Password
Backup
Reset
License

www.cuesystem.com
Contact Support

cue

License

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The page shows a software and firmware license.

6. Factory Default Setting

Identification

Name Empty

Internet Clock..... Empty

Date and Time

Time zone GMT + 0

Date and time Unchanged

IP Connection

Host name Empty

IP address..... 192.168.1.128

Subnet mask..... 255.255.255.0

Default gateway Empty

DNS Empty

Applications Stopped

Firmware..... The newest

Password..... Set to empty

Other settings are cleared (see Admin Web).

Saved applications and files are not deleted.

7. Specifications and Mechanical Drawings

Display output

Resolution 1024 x 768 or 800 x 600 pixels – **firmware dependent**
65 536 colors (High Color)
DB-15-female connector VGA

Memory

128 MB RAM
CompactFlash Card min. 512 MB (upgradeable)

Software technologies

Admin Web

Video inputs

2x Composite video, BNC connector
1x S-video, 2x BNC connector

Other connection

1x RS-232, DB -9-male connector
1x Keyboard PS/2, Mini-DIN-6-female connector

System communication

10/100 BaseT LAN, RJ-45 connector
CUEwire ,RJ-45 connector

Button

reset button

LED indicator

Power
Activity
100M/10M LAN selection

Power supply

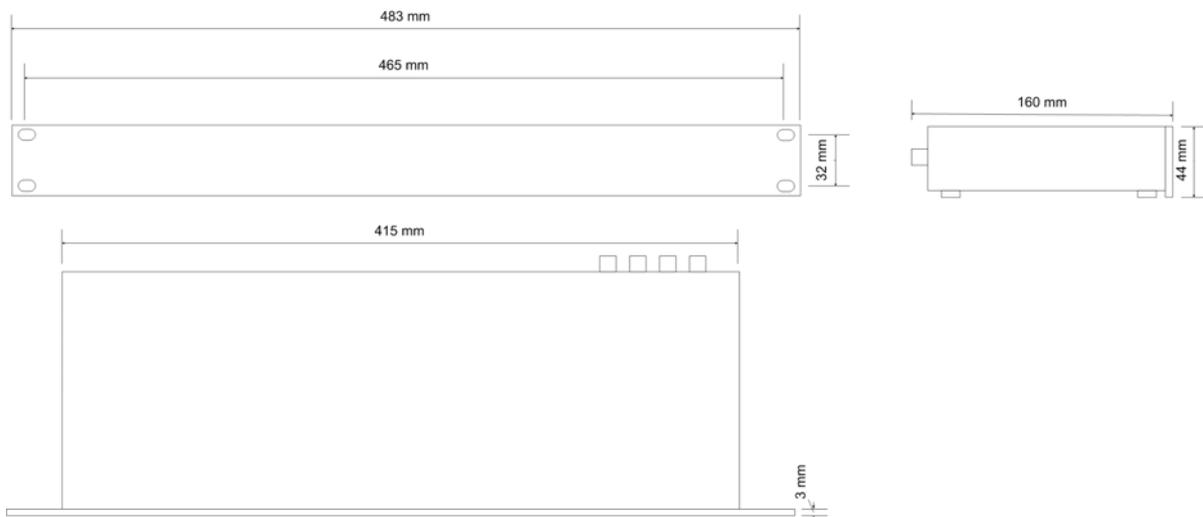
24 VDC (+/- 20%), 15 W, 2-pin 5.08 connector

Physical

Stainless steel enclosure
Dimensions Rack 19", 1 U, depth 160 mm (6.3")
Weight 2.1 kg / 4.6 lb

Operating environment

Temperature 10° to 40° C
Humidity 10% to 90% non-condensing



8. Software and Firmware License

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