Non-Wifi Touch Screen

# FT10TM

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## WARRANTY:

faytech touch displays are produced following the most modern production and test processes. Carefully selected components and accurate production ensure reliable operation and long life. faytech warrants to the original purchaser that each faytech touch display delivered shall be free from defects in material or workmanship at time of shipment, and that each such module delivered will meet the published specifications for a period of 24 months as measured from the date of original shipment. faytech's obligation under the Warranty contained herein is limited to the repair or replacement of any faytech touch monitor that does not meet the specifications, provided that said product is returned to faytech, transportation charges pre-paid, and provided that upon faytech's examination, the product, when tested within the specified ratings and in accordance with good engineering practice, does not meet the specifications as defined. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION THE WARRANTY OF MERCHANTABILITY AND THE WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

All claims under warranty must be made promptly after occurrence of circumstances giving rise thereto and must be received within the applicable warranty period by faytech or its authorized representative. Such claims should include the Product type and serial numbers and a full description of the circumstances giving rise to the claim. Before any Products are returned for repair and/or adjustment, written authorization from faytech or its authorized representative for the return and instructions as to how and where these Products should be shipped must be obtained. Any product returned to faytech for examination shall be sent prepaid via the means of transportation indicated as acceptable by faytech. faytech reserves the right to reject any warranty claim not promptly reported and any warranty claim on any item that has been altered or has been shipped by non-acceptable means of transportation. When any Product is returned for examination and inspection, or for any other reason, Customer will be responsible for all damage resulting from improper packing or handling and for loss in transit, notwithstanding any defect or nonconformity in the Product. In all cases faytech has sole responsibility for determining the cause and nature of failure, and faytech's determination with regard thereto shall be final. If it is found that faytech's Product has been returned without cause and is still serviceable, Customer will be notified and the Product returned at Customer's expense. In addition, a charge for testing and examination may, in faytech's sole discretion, be made on Products so returned.

SELLER'S LIABILITY FOR DAMAGES SHALL NOT EXCEED THE PAYMENT, IF ANY, RECEIVED BY SELLER FOR THE UNIT OF PRODUCT OR SERVICE FURNISHED OR TO BE FURNISHED AS THE CASE MAY BE WHICH IS THE SUBJECT OF CLAIM OR DISPUTE. IN NO EVENT SHALL SELLER BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES. LIABILITY TO THIRD PARTIES, FOR BODILY INJURY INCLUDING DEATH, RESULTING FROM SELLER'S PERFORMANCE SHALL BE DETERMINED IN ACCORDANCE WITH APPLICABLE LAW AND THE TOTAL LIABILITY LIMITATION STATED ABOVE SHALL NOT BE CONSTRUED AS A LIMITATION ON SELLER FOR DAMAGES FOR ANY SUCH BODILY INJURY, INCLUDING DEATH.

WARRANTY FOR ITEMS REPLACED UNDER WARRANTY Whenever a failed module is replaced under Warranty, the greater of the balance of the original Warranty Period or 90 days will constitute the remaining warranty period. The replaced unit does not carry a new Warranty.

LIFE SUPPORT POLICY "WARNING: DO NOT USE IN LIFE SUPPORT" SELLER'S PRODUCTS ARE NOT AUTHORIZED FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES OR SYSTEMS WITHOUT THE EXPRESS PRIOR WRITTEN APPROVAL OF THE PRESIDENT OF FAYTECH. As used herein, “Life Support Devices or Systems” are devices which support or sustain life and whose failure to perform when properly used in accordance with instructions for use provided in the labeling can be reasonably expected to result in a significant injury to the user. A “Critical Component” is any component in a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system or to affect its safety or effectiveness.

If your device does have a defect within the warranty period, please contact faytech directly. The warranty period is 24 months from the date of purchase under the following conditions:

- All warranties are void if the unit has been opened or disassembled without faytech's prior approval.
- Damage caused by improper handling or operation, by incorrect installation or storage, through improper connections, as well as due to force majeure or other external influences are not covered by the warranty.
- For warranty claim, we reserve the right to replace the defective components or to exchange the device.
- Exchanged components or devices become the property of faytech.
- Claims for damages are excluded in so far as they are not based on intent or gross negligence of the manufacturer.
- After expiration of the warranty period, warranty claims can no longer be pursued.
- Any warranty claim must be accompanied by proof of purchase (receipt or invoice).

## GENERAL WARNING:

Avoid all contact with dirt, oil, dust or water. Never open the unit. Do not drop the unit. If you notice a burning smell or hear the device making unusual sounds, please disconnect it from the power source immediately. To clean the unit, please turn off the device first, then clean it very gently with a dry, soft cloth. For your own safety, please do not use the device during driving.

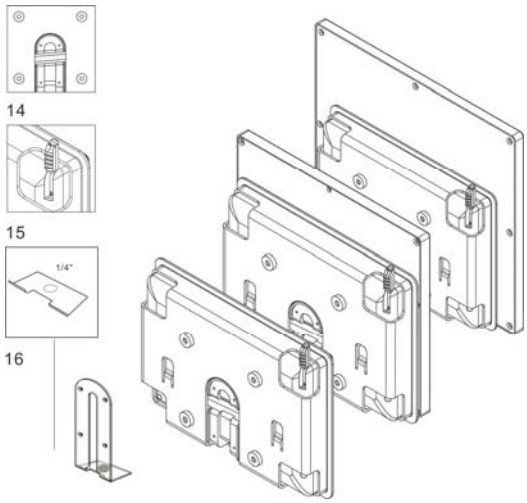
## TROUBLE-SHOOTING:

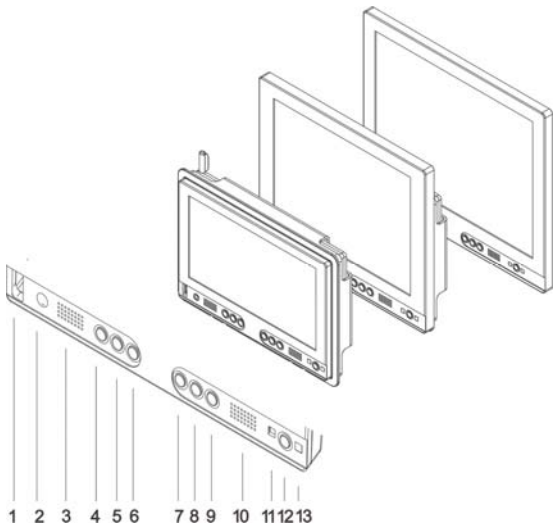
Please follow all instructions carefully. At the end of this guide there is an overview of possible connection or other types of operation errors.

## ONGOING CHANGES:

faytech produces its displays in China with German know-how and quality management. Your feedback is the most valuable information for the improvement of our products. Continuous production and product improvement is our primary goal. For this reason, there may be improvements in our products which are not yet included in this user's guide. Differences between your product and this user's guide are generally related to specification changes and product improvements. If you have any questions or suggestions, please contact our support team or visit our website at www.faytech.com.

## COMPONENTS:




**1.** USB-Port

**2.** Ear-out

**3.** Loudspeaker

**4.** (+): flips picture horizontally, once OSD opened increases volume or values, navigates through OSD menu to the RIGHT.

**5.** (-): opens volume-menu, decreases volume and marked values in OSD menu, navigates through OSD menu to the LEFT.

**6.** (c): VGA: Auto calibration to the VGA signal, in OSD menu navigates DOWN

**7.** (S): opens Menu to choose the right Input Source, in OSD menu navigation SELECT values/menus

**8.** (M): opens OSD menu, selects Source in Input Source menu, STEP BACK in OSD menu navigation

**9.** (B): changes backlight LED brightness, in OSD menu navigates UP

**10.** Loudspeaker

**11.** Status-LED: red LED: standby/go off after 30s no signal; green LED: On with signal; no LED: no power

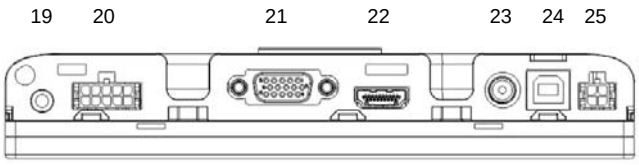
**12.** POWER: Display On/Off

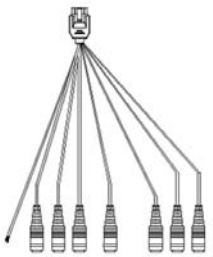
**13.** Infrared receiver

**14.** VESA-75 M4 fixation holes, metal mounting rail for fixation

**15.** Touch Pen

**16.** Fixation hole



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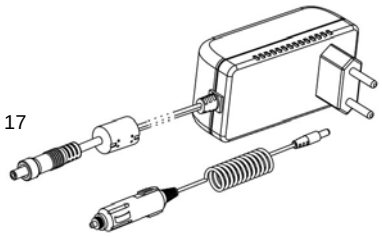


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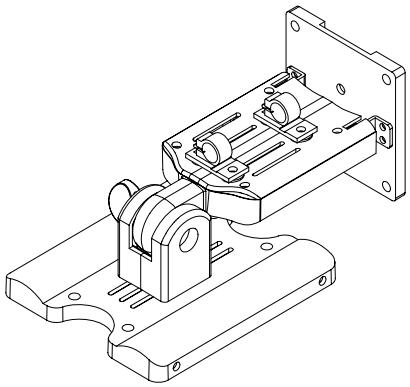

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**17.** Power Supply

**18.** 12 V Adaptor

**19.** VGA-Audio-In

**20.** Video- and Audio-In adaptor

**21.** VGA-In

**22.** HDMI-In

**23.** 8-36V DC-I, 5.5mm/2.5mm (+)

**24.** USB-B In for Touch- and USB HUB Function

**25.** Serial-In for Serial Touch function

**26.** USB cable for Touch- and USB HUB function

**27.** VGA cable

**28.** Video cable: YPbPr (green, blue, red cable); Yellow: Video1, Black: Video2/rear view camera; white: Video-Audio-Left, red: Video-Audio-right; blank white cable switches at 5-12V signal to Video2 (carcontrol), black blank cable must be grounded for this function

**29.** Pedestal

**30.** Remote Control

Revision history:

V1.0: produced from 2011 to July 2013

v1.1: produced since August 2013, change: VGA-connector, product name (add V1.1)

V2: produced since July 2014, changes: new backcase with mounting frame for all sizes, standardized connectors, new more powerful chipset for Audio- and Video-playback, improved panels

## DISPLAY CONNECTION

Each cable is labeled for easy connection. To operate your faytech display properly, there must be at least one **signal source** and a **power source** connected. To use the touch function please connect the **USB** cable to your PC.

### TO CONNECT THE SIGNAL SOURCE,

you have the following options:

- On a PC: Connect the VGA cable from the faytech monitor to the VGA output of your PC graphics card. Please select SOURCE VGA, so you have an image on the display.
- On a PC: If you have a DisplayPort/HDMI/DVI output on your PC please use the HDMI-port of the faytech touch-monitor, with DVI/DisplayPort you need a DVI respectively DisplayPort to HDMI connector. Please change SOURCE to HDMI.
- To DVD-Player/camera/Video source: Connect one, two or three video inputs (labeled Video1, Video2, YPbPr) to a corresponding video source. Please be sure to switch off the video source before you connect the cables. Switch SOURCE to the respective channel input. *ATTENTION – Video2 is not reachable via Menu, faytech´s display switches automatically to Video2 when there is a voltage on the SignalPIN (carcontrol).*

In addition, the display has two analogue stereo audio inputs, one for the PC (3.5mm Audio-In) and one for the three video inputs (sound is carried on all video channels), a white and red RCA connector, white AUDIO-Left and red AUDIO-Right. Additionally, via HDMI is another digital Audio-In. Audio comes through the speakers only if there is an image signal. Audio is also available from the earphone output on the front side of the display. If earphones are connected, the built-in speakers will not be active.

Tip: You can use the display simultaneously with all five video signal sources. Use the SOURCE button on the display or remote control to switch between the various signal inputs.

## CONNECT TO POWER

You can connect the faytech display with the included 100V/240V plug or the 12V power adapter. Insert one of these power sources into the 12V DC-IN.

Another alternative is to connect another 12V source to the DC-IN. Please pay attention not to mix the polarity (+ is inside)! Please make secure that the power source has enough current, at 12V it is max. 2A.

## USING THE TOUCH FUNCTION

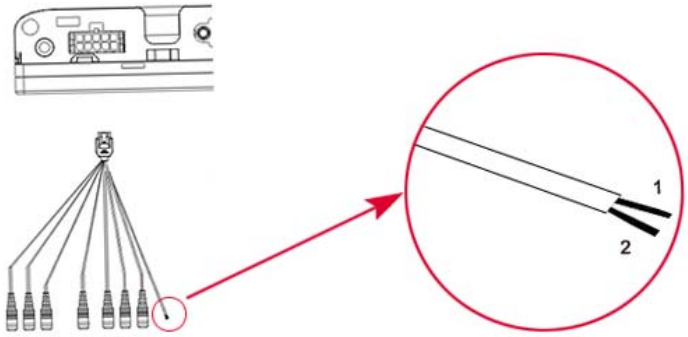
Connect the USB cable to the USB port on your PC (after you have been asked within the software installation process). With actual operation systems (Win7, Win8) there is no more need to do a driver installation.

The touch-screen series also supports the use of touch through the serial port. Please order the faytech special cable or connect the serial port according the connection definition in the connections chapter.

## USING BACKVIEW CAMERA / VIDEO CAMERA.

The touch monitor automatically switches to Video 2 when there is a 5 to 12V signal on the white blank cable of the Video-All-In-One-cable.

The black blank cable must be grounded at the same time.




**VIDEO:**
1:GND
2: CarControl

## USB PORT

On the front of the touch monitor is a USB port. For usage the USB cable must be connected to the PC. You can use the USB port as any other PC-USB port.

# DISPLAY OPERATION

## THE REMOTE CONTROL

The remote control functions are similar to the buttons on the display. Before using the remote for the first time, please remove the thin plastic on the back side to make the batteries connect and supply the remote control with power.

## OSD-MENU-OPERATION

The Menu operation of the faytech display is simple and logical. You have six control buttons. MENU, +/right, -/left, down(c), up(b), confirm(S).

Pressing MENU brings up the OSD menu and closes it again with another press, in sub menus you go back one step by pressing MENU.

You navigate with right, left, up, down through the menu. The sub menu is reached by using the confirm button (S). A value is changed by using +/-.

When a menu option is grey that means it is not available for the actual chosen signal source. The HDMI, VGA and AV-menu have slightly different picture setting options.

The OSD menu consists of four main menus. You can switch between the main menus with +/-. In the sub menus (selected by S) you can switch between further sub menus and changing values by using right(+), left(-) and up(b) and down(c). The menus in the following:

**PICTURE**: set up the picture (not all sub menus are available in each signal source)

- **Picture Mode** (three preset modes, one user modus) changes Contrast, Brightness, Color and Sharpness values
- **Color Temperature** (three preset modes, one user modus) changes RGB-values red, green, blue
- **Aspect Ratio** changes the aspect ratio of the screen (4:3, 16:9, Auto, Zoom, Scan, Panorma, PixeltoPixel)
- **Noise Reduction** offers filters to improve the subjective quality of the picture when signal source is of bad quality
- **Screen** allows positioning, zoom In- and Out (position, size, phase)
- **Backlight** changes the backlight LED brightness from low to max. value
- **Color Range** allows changes in the 0 to 255 color range of the display

**SOUND**

- **Sound Mode** changes Treble and Bass settings
- **Balance** balances left/right audio channel
- **Auto Volume** On Off: reduces volume jumps in the Audio-In when activated
- **Surround Sound**: emulates two different surround modes when activated
- **EQ**: further loudspeaker adjustments

**TIME**

- Set first up the **Clock** including date when you want to use the functions of this menu
- **Off Time**: programs the shut off time of the display
- **On Time**: programs the time and date when the display is put on including channel and volume
- **Sleep Timer**: several preset times to choose from after which the display is automatically shut off
- **Auto Sleep** On/off: Set up if the monitor goes automatically Off after 30s when no signal is available

**OPTION**

- **OSD Language**: set up the preferred language of the OSD
- **Blending** sets up the transparency of the OSD menu
- **OSD Duration** sets up, how long the OSD menu is showed before automatically closed

## INSTALLATION OF THE TOUCH-DRIVER UNDER WINDOWS

faytech´s own 4/5-wire USB/serial TouchController series based on EETIs MER4485 chipset supports the gesture control of Win7 and Win8 as well as the use of the touch already within the LogIn window without further driver installation. We suggest to not install any additional drivers under Win7 or Win8 operation system.

With first connection of the USB-cable Win7/Win8 installs automatically the right drivers. With successful installation you see the following Windows information window. This first time installation may take a little bit time. Afterwards, the touch function is usable.

Please use Win7/Win8 own settings for the touch panel to set it up to your system. The Windows menus are under System, Hardware and Sound, Tablet PC-settings. More settings

are available under Pen- and Handsetting-menu, also located in the Hardware and Sound menu.

For calibration purpose we suggest to install the calibration tool „Win7,Win8_calibration_TOOL“ which is available on faytech´s Driver DVD or at www.faytech.com, Service, Driver.

For Win7, Win8 please just install the available drivers when you want to use Touch without the gestures support as sole mouse alternative.

In the following, a **Windows XP** installation is described.

1. Put the DVD into your DVD- ROM.

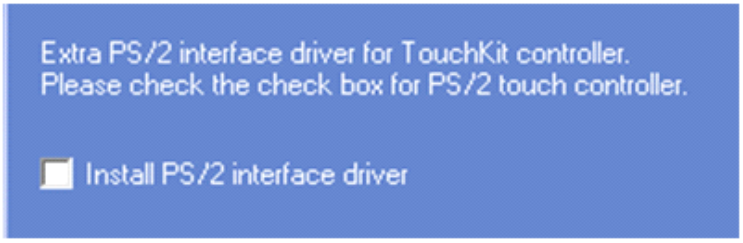
2. Use the Explorer on the DVD and select the appropriate subdirectory (Touch Driver, then the right operation system) to open the installation file setup.exe directly. Now you will see the following window:

Select the Windows driver 2000/XP/Vista/Windows7 in the upper right. If a security warning pops up, click “Run”, “Continue” or "Execute". Under Vista you must confirm the UserAccount Control with "Continue". Some further warnings may be given depending on installed security programs. Always click the button to continue the operation.

To complete the installation with all default options, click “Next” on each of the following dialog boxes. You can cancel at any time. To switch back to a previous step, click the “<back” button. Please note! The installation process is in English. Later on you can choose the language for the OSD.

3."Welcome to the InstallShield Wizard for TouchKit":Press "Next" if you to continue the installation.It's advisable to close all other programs before beginning this installation.

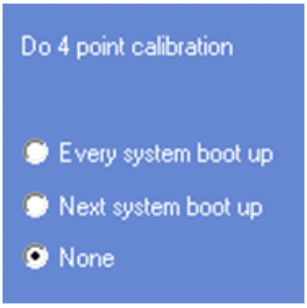
4."Setup Type"：




Check the box (see the picture on the next page upper left) only if you want to install the PS/2-Driver. Usually for a USB-touch display, you should NOT select this option. The

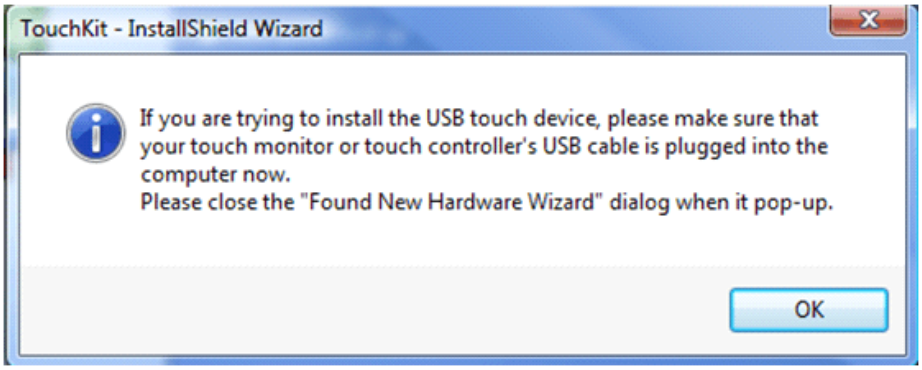
PS/2-Driver works smoothly with a PS / 2 mouse but if you do not have a PS / 2 mouse you should leave this box unchecked to avoid compatibility problems.

5."Setup Type"



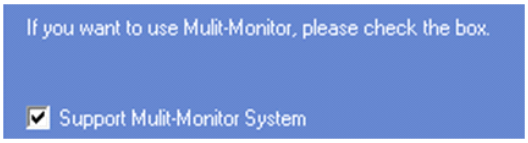

We recommend "None" (see the picture upper right) for the calibration setting. A calibration will be performed every time your PC starts up if you choose "Every system boot up". If you choose “Next system boot up” a calibration will be performed on the next system reboot. You can carry out a calibration at any time after the TouchKit program is installed. (See “Setting up the faytech Touch software”.) After making your selection on this screen, click “Next”.

6."TouchKit - InstallShield Wizard":




Connect the USB cable now and press "OK". If the "New Hardware Found" dialog of Windows opens, please cancel it.

7. "Setup Type":

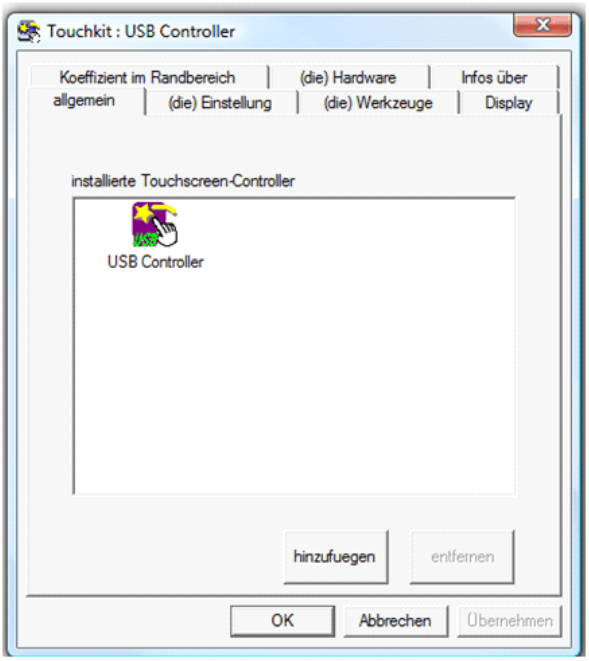



If you plan to use multiple monitors, please choose this box. (See “Setting up the faytech Touch software”.)

8."Choose Destination Location": Accept the default destination or choose your own then press "Next".

9. "Select Program Folder": Give the program a name or use the default setting and press "Next".

10."Setup Status":




The installation will be started automatically with the selected settings.

11.The installation is successfully completed when the above window appears.

If the USB controller icon is not showing, please disconnect the USB cable from your PC and connect it again. For more help, Please go to the “**Troubleshooting**” section.

## SETTING UP THE FAYTECH TOUCH SOFTWARE

Start the administration program by going to “Start - Programs -TouchKit – Configure Utility”. (If you accepted all the defaults the program may be at “Start – Programs – Accessories – Touchkit – Configure Utility”.) Or you can find this program in the system tray section of your task bar.

1. General tab

Gives information on whether one or more touch controllers are found and installed.

After the initial installation, if no touch controller shows up on this tab, please pull out the USB connector on your PC and connect the device again.

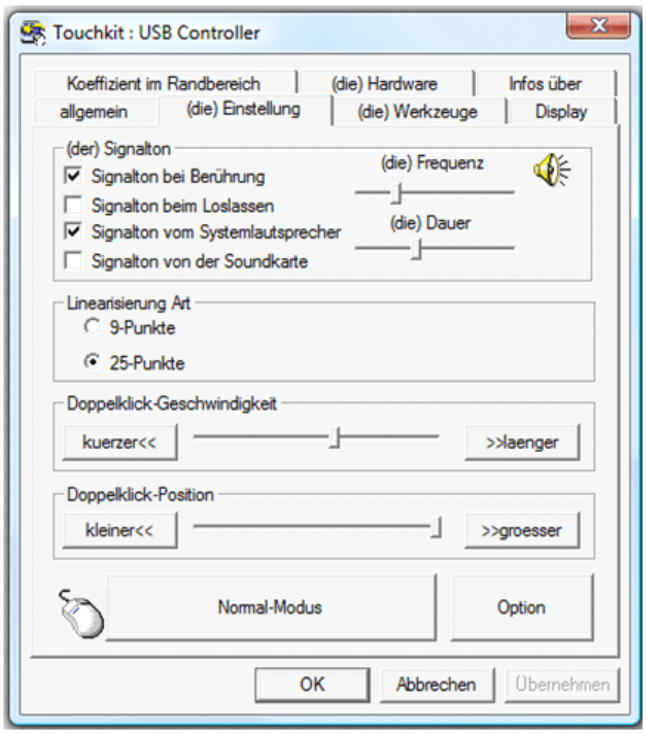
2. Setting tab

When you touch the touch panel you should hear a beep if you select the first checkbox. You can change the frequency and duration of the beep. The changes will be saved after you click on "OK".

Under **linearization**, you can choose the number of linearization points under the **Tools - linearization setting**. On a 25-point linearization the deviation of a touched point will be less than on a 9-point linearization. In general, the faytech displays have been set correctly and should not be linearized.

**Double Click Time**. You can set how fast you need to click on the same object to make a double click. If you choose **Shorter <<**, then you need to tap faster. If you choose **>> Longer**, then you can tap the screen more slowly.

The same applies to **Double Click Area**. If you choose **Smaller <<**, your taps must be in a relatively small area in order for a double click to be recognized. **>> Larger** enables you to make a successful double- click within a larger area.




To the right of the mouse icon are options to set different mouse-like modes. Normal mode offers the most intuitive touch-operation.

Normal-Mode: Allows the user to select an object or drag an object with the touch pen or a finger. This is the best mode to use for most applications.

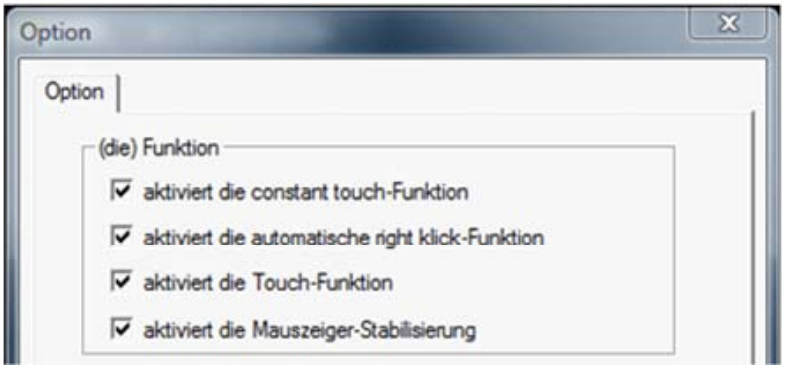
Click on touch: The “click” is recognized when the screen is touched. To initiate a new mouse-click, the display must be released and re-pressed.

Click on release: Contrary to the click **function in touch**, it is generated a click when the display is released.

Click on touch without moving cursor: The first touch point generates a click. The cursor follows the finger / pen movement. For a better understanding of this setting, try it with the Draw Test application under the Tools tab.

Click on release without moving cursor: The cursor does not move to the touch position except at the lift-off point. For a better understanding of this setting, try it with the **Draw Test** application under the Tools tab.

On the far right of the mouse icon, there is an **Option** button. The following options are available for the faytech display in this submenu:




Enable Constant Touch: is the function to check to enable the driver to determine if the most recent touched position is the same as the previously touched point. If the difference is smaller than the defined area, the driver does not generate any mouse movement which helps reduce system load.

Enable Auto Right Click: If the touch screen is touched for a specified time, the driver will generate a mouse right button click if this function is enabled.

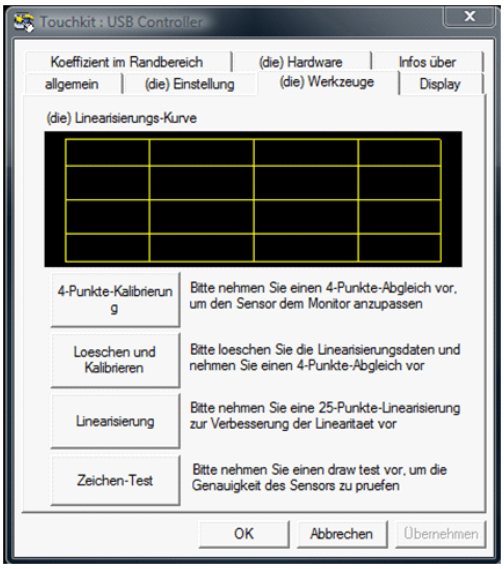
Enable Touch: Be careful! If you don't check this box, the touch function will not work!

Enable Cursor Stabilization: A software filter exists inside the driver to filter some noise to stabilize and smooth the touch points. When activated, the user will experience a more stable cursor.

You can adjust the parameter for the Constant Touch Area function. This is a criterion to judge if the most recent touched point is the same as the previously touched point. If the difference between the two points is within this area, it will be recognized as the same touch point and the driver does not generate a new mouse event for this touch point.

You can adjust the **Auto Right Click** Time function. If the touch screen is touched and held for this period of time, the driver generates a right mouse click.

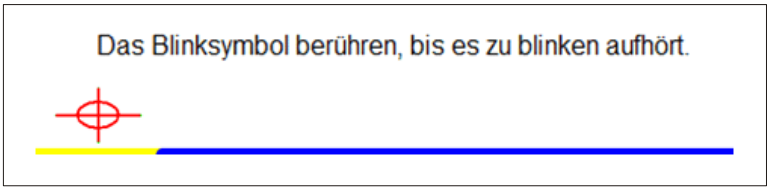
3. Tools tab:




You can adjust the faytech touch panel calibration with the functions called **4 Points Calibration, Clear and Calibrate, Linearization and Draw Test.** Start by performing the 4 points calibration. By using the application drawing test, you can test the touch panel to determine if further setting changes are desirable.

When you press the 4 Points Calibration button, the surface of the monitor shows the following image:

Press blinking X symbol until stop blinking Touch and hold each of the blinking X symbols in the calibration window until it stops blinking to make sure that the utility can gather enough data for computation. In addition, a progress bar is shown at the bottom of the window to indicate time elapsed. If the touch screen is not touched before the progress bar gets to the far right, the calibration task will be terminated automatically.




Translation: „Touch the blinking symbol until it stops blinking“

The Clear and Calibrate button will clear all calibration and linearization settings. It will then automatically take you through a 4 Point Calibration.

The Linearization (25 or 9 point calibration ) function is used to compensate the touch screen linearity. It will require you to press and hold on 9 or 25 targets on the screen so it can

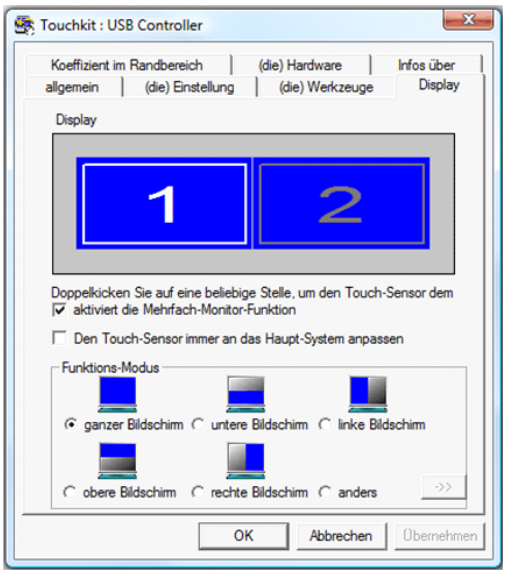
compensate for the curvature (if any) of the display. After linearization is completed, the linearity of the touch screen will be shown in the Linearity curve window.

The Draw Test function is used for accuracy and performance checking. Press this button and a new pop up window will be popped up on the monitor (see below). Touch or drag your touch pen or finger on this grid to gauge the effectiveness of the settings and calibrations that you have made. If you are using your finger, you may have to press firmly to draw continuous lines. Press the Clear button to clear the window. Press the Quit button to terminate this draw test.


4. Display-Multi-Monitor **Setting** tab:

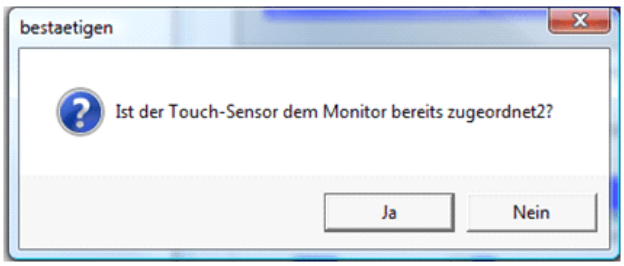
If you selected “Support Multi-Monitor System” when you installed the Touch driver, you will see a Display tab when you run the Touchkit Configure utility. If you did not select this option, you will not see a Display tab.

You can have up to four faytech touch-screens connected simultaneously. You can also use a (non-touch) display and a touch screen. In the example below, the touch-screen is display "1", while the second display "2" is a normal monitor. Both have the same resolution, but the touch screen is the primary monitor.



Enable multiple-monitors: When this function is disabled, the touch screen will be mapped to the primary monitor automatically. When this function is enabled, you can double click on the monitor area in the monitor geometry window to assign the monitor area where the touch screen will be mapped. Double-tap on the desired monitor and answer the question in the pop-up window with **Yes**.

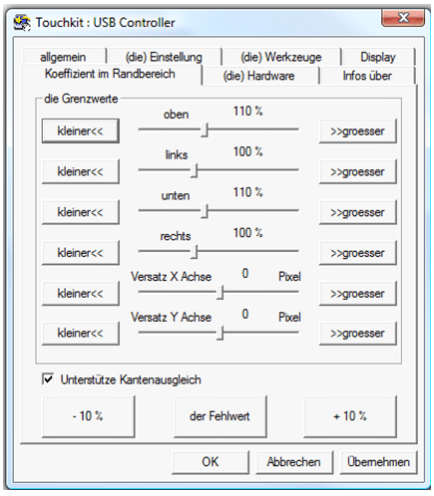
After confirmation, your touches on the selected touch monitor will be simulated as mouse clicks.




If the function "**The touch sensor is automatically connected to the main system"** is activated, the program automatically puts the touch function on the primary monitor, if only one monitor is connected.

The **Operation mode** settings allow you to set the size of the touch area on your faytech touch-screen. E.g. if you select the "right screen“, after a new calibration only the right side of the monitor will work as a touch area. If you select "other" and then click on the ->> button, you can set more modes or set an individually touch-defined area.

5. Edge Compensation tab: fine adjustment of the touch area




On this tab you can finely adjust the touch area. This is very useful when you have problems touching at the edges of the touch screen. In the following image you can see that the limits for

all edges of the screen were corrected (to 110%). E.g. if you have problems in the upper right area, just increase the upper and right limit (**>> Bigger** ). Confirm the change and try the new settings with the **Draw Test**. You can also use the X-axis and Y-axis displacement options to compensate if your touch always seems to be off the same amount in the X and/or Y directions.

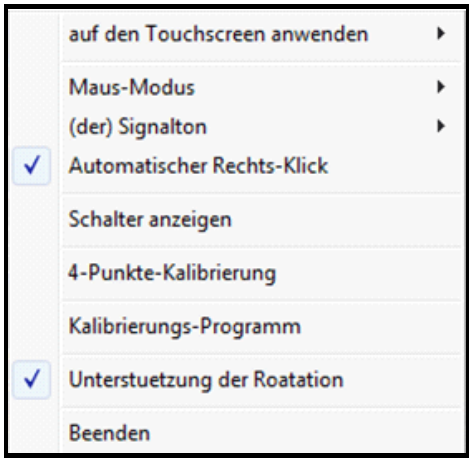
The "**Support Edge Compensation**" option optimizes the touch detection in the corners of your faytech touch panels. This option should always be enabled.

6. Hardware and About tabs:

The last two tabs are for information only - there are no options to select on these tabs.

The **Hardware** tab gives information about the design of the faytech touch display and the firmware used.

The **About** tab gives information about the touch driver version as well as information about the developer of the software.




7. Touchkit program in the taskbar

With the Touch Kit icon in the taskbar, you can use a right mouse click to make quick changes in many of the Touch Kit settings. The individual functions have already been described in this chapter.

On the context menu, if you select the option Display Button, you will see a mouse animation displayed in the lower right half of the screen. The red mark indicates which mouse button will be simulated the next time you touch the screen. By clicking on the left or right pointer of the animation you change the behavior of the touch panel accordingly.

# TROUBLESHOOTING

If you are having trouble getting your touch monitor to work correctly, please look through this list of common problems:

## PHYSICAL SETUP:

- Cable connections. Care should be taken when connecting the cables. Make sure the cables are connected to the right connectors at each end and make sure the cables are attached firmly to their respective connectors. Lack of an image or poor quality images are often caused by the wrong connection. Turn off the display and check each pin of the cable separately. If you think you have a defective cable, we are happy to exchange it for you - you do not have to send the display back.
- Avoid short circuits! Please be careful before connecting power to the display that there are no cables that have not yet been connected at both ends. If the monitor does not power up, try another outlet or another power source.
- Provide the display with a 8-36V DC power supply only. Higher or lower voltage and wrong polarity/doing a short circuit permanently damages the display and is not covered under warranty.

## STARTUP:

Please note: After you switch the display on, you may have to change the input mode (HDMI/AV/YPbPr/VGA) in order to receive a signal. If there is no signal source connected, the display will show "no signal" and go off after 30s.

**Display remains black**

- Black LED: no power, please check power supply. When the power supply is ok (e.g. has green LED) then open a RMA case
- Green LED: wrong source or wrong signal source (see resolution/activation errors)
- Connection error:

Please check again to make sure that all cables are properly connected.

- Resolution / activation errors:

Using the right resolution and activating the display is a common problem that is often not the fault of the display itself. The monitor supports the resolutions given in the technical data.

Sometimes during simultaneous operation of two displays on a PC or the connection of an additional display to a notebook complications can arise. Usually these problems need to be resolved in the hardware and software of the PC. It is always best to use the display initially as a single display with a resolution of 1024x768 at 60Hz. Try to start with this resolution then experiment with other resolutions and other combinations of displays to see which work best for you.
Please note that extended desktops often are black in the beginning. In this situation your display may be black at first if you configure it as an extended desktop.

Tip: It is often best to use the display at the following resolutions: 7” 1024x600, 8” and 10“ 10” 1024x768, all at 60Hz. If the display is used as a second display with a PC, which is already connected to a display with a much higher resolution, configure resolution profiles. With an ATI graphic card, you can set up profiles in the advanced catalyst control center under profiles. Activate a hotkey, so that you can change the profiles of each display (one is the touch display, the other is the higher resolution display). Also you can configure the profiles using a software tool such as powerstrip.

- Power supply error:

If the display has no signal input, there might be an error with the power supply. First please check the connection with another power supply before you return the display. We're happy to exchange the defective power supply if necessary.

- Panel shows “unsupported format”: That means that the monitor receives a signal source which cannot be displayed. This e.g. may happen when frequencies are set up over 75Hz. When you think the signal should be possible to be displayed please contact the faytech service with detailed signal information.

**Stripes / errors in the image**

- Pixel error: Each faytech display has been thoroughly tested and sold with no pixel defects. If there is a pixel error at your display, please contact us for Support.
- Text is hard to read, picture looks fuzzy: The display image is in the original resolution (see specifications) clear. At higher resolutions the display interpolates. This leads to inaccuracies and picture distortions.
- Stripes / errors in the image: when connecting the display using power from a PC's power supply, the power supply can cause a light flickering. This is because of the interference created by the PC's power supply. In order to improve the picture, please try an alternative power supply.

- Image is upside down: Press (when there is a signal) the + button. This switches through the two different modes (the original, top / bottom mirrored)

# TECHNICAL DATA

Changes in the sense of technical progress reserved.

## TIMING-PARAMETER AND SUPPORTED VGA-RESOLUTION

Timing-Parameter:

7" : Dot Clock：105MHZ
Analog / Digital Scanning Frequency (H, V) 30~83KHZ, 56~76HZ

8": Dot Clock：105MHZ
Analog / Digital Scanning Frequency (H, V) 30~83KHZ, 56~76HZ

10": Dot Clock：105MHZ
Analog / Digital Scanning Frequency (H, V) 30~83KHZ, 56~76HZ

12”: Dot Clock: 105MHZ
Analog / Digital Scanning Frequency (H, V) 30~83KHZ, 56~76HZ

## 10 INCH TOUCH MONITOR V2

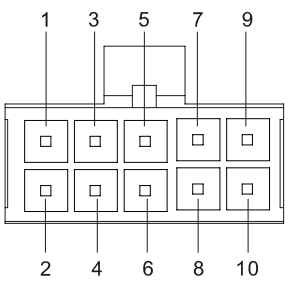
| | |
|---|---|
| Display case (cm): | 23.50 x 20.20 x 3.10 |
| Screen diagonal (Inch/cm): | 9.7/24.64 |
| Display active screen size (cm): | 20.28 x 15.20 |
| Mounting (cm): | mounting rail, additional VESA-75 on the back |
| Gross weight (inclusive cartonage, kg): | 2.20 |
| Net weight (kg): | 0.75 |
| Aspect ratio: | 4:3 |
| Physical resolution: | 1024 x 768 |
| Maximum showable resolution: | 1920 x 1200 |
| Colours displayed: | 262K |

| | |
|---|---|
| Brightness (cd/m2): | 250 |
| Contrast: | 600:1 |
| Typical reaction time Tr/ Tf (ms): | 2;6 |
| Visual Angle horizontal; vertical (° ): | 150;130 |
| Working power (V): | 8~36 |
| Power consumption (W): | 7 |
| Stand-By-Consumption (W): | <0,5 |
| Operating temperature (° C): | -25~+75 |
| Touch Panel: | 4-wire resistive |
| Touch Connectors: | 1 x USB port, 1 x serial port |
| Touch Panel-driver: | Windows, Linux, Mac |
| Touch life (contacts): | 1 million touch in 1 location without failure |
| Response time Touch Panel (ms): | <10 |
| Surface hardness: | 3H |
| Input force (g) / vandalism secure: | 20~150 |
| Connectors, Video-In: | 2 x Video(1 x back cam view), 1 x YPbPr, 1 x VGA, 1 x HDMI 1.1 (incl. HDCP) |
| Connectors, audio: | 3 x Audio-In, 1 x Earphone-Out |
| Connectors: USB-Port / DC-IN | USB Port / 8-36V DC-IN |
| Additional features | OSD-Menu, speaker, remote controller, touch pen, car adapter, driverDVD, short installation manual |

## PIN ASSIGNMENT

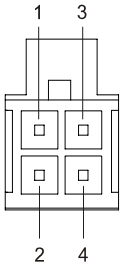
Preface: Please observe the correct pin assignment. PIN1, PIN2, ..., according following graphs. Please keep in mind: this is the side of the mainboard, NOT the cable PIN assignment

POWER:
8-36V DC-IN (5.5mm/2.5mm) INSIDE POLARIZATION +
Outer Dimension Screwable Lock:



VIDEO:

| | | | | |
|---|---|---|---|---|
| 1: AUDIO_IN_L | 3: AV1 | 5: AV2 | 7: Pr+ | 9: Y+ |
| 2: AUDIO_IN_R | 4:GND | 6: CarControl | 8: GND | 10: Pb+ |




SERIAL:

| | |
|---|---|
| 1: +5V | 3: RX |
| 2: GND | 4: XT |

VGA, HDMI, USB-B, EAR-In: Standard connectors

## KONTAKT / CONTACT

**Kontaktdaten, RMA-Bearbeitung**

Support Europa: +49 551 503 1276 5

Global-Support: +86 755 89580612

Support North America: +1 720 251 4158

Support-E-Mail: support@faytech.de

Hersteller-Internetseite: www.faytech.com  Internetseite RMA: http://rma.faytech.de

**RMA-Bearbeitung**

Wenden Sie sich bei einem mutmaßlichen Defekt bitte immer zunächst an uns. Unsere ausgebildeten Fachkräfte helfen Ihnen gerne weiter. Liegt tatsächlich ein Defekt vor erhalten Sie über support@faytech.de eine RMA-Nr. (Return Merchandise Authorization). Senden Sie das defekte Teil mit deutlicher Anbringung der RMA-Nr. an obige Adresse ein. Zubehörteile wie Kabel, Adapter oder Netzteile tauschen wir in der Regel unkompliziert vorab aus.

Bitte senden Sie die Ware immer frei an uns. Unfreie Ware (Kosten zahlt der Empfänger) nehmen wir nicht an. In den ersten 30 Tagen nach Erstkauf übernehmen wir sämtliche Transportkosten für Sie. Dafür senden wir ihnen per E-Mail mit der RMA- Nr. Einen Rücksendeschein zu. In der restlichen Garantiezeit tragen wir die Rücksendegebühren.

Für die Service-Fall-Bearbeitung außerhalb Chinas arbeiten wir mit lokalen Bevollmächtigten/ lokalen Servicepartnern zusammen die je nach Vertragsgestaltung in unserem Namen auftreten.  Weitere Informationen diesbezüglich erhalten Sie auf Anfrage unter den genannten Kontaktdaten.

**Contact, RMA service (in English):**

Support Europe: +49 551 503 1276 5

Global Support: +86 755 89580612

Support North America: +1 720 251 4158

Support E-Mail: support@faytech.com

Homepage: www.faytech.com  Webpage of RMA: http://rma.faytech.com

**RMA service:**

If you think your faytech product has a defect please always contact us directly. Our trained after sales service specialists can help you resolve your problems. Please check the manual and our frequently asked questions before contacting us – you will usually find an answer to your question. If there is a defect you can request an RMA number (Return Merchandise Authorization) at support@faytech.com or via fax at +86-755- 89580613 (Chinese fax-number). Please attach in the contact e-mail/fax your invoice and what problems you are experiencing. In reply, you will receive an e-mail/fax with your RMA number and additional information. For accessories like cables, adapters or power supplies which are not working, we can usually send you a replacement before receiving the damaged goods. For a defective product, we try to check and solve the problem within 3 days after receipt. Make sure that shipping has been paid before sending goods back to us.  We do not accept postage due packages at our service centers. Anything received with postage due will be returned to you without any testing or resolution. Within the first 30 days after you buy a new faytech product, we will refund your shipping costs for returned products. For the rest of the warranty period, we will pay the shipping costs for any repaired or replaced items that we ship back to you.

For support outside of China, we work with local representatives / local service partners together who may work on our behalf in our name. On request, more information can be obtained at the above contact information.

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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.