Origen æ
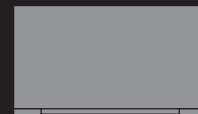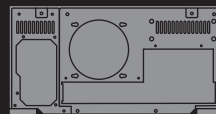
S21T
user guide

Thank you for purchasing this Origenæ htpc enclosure. We recommend that you read this user guide thoroughly before installation.

Revision   S21T.V2/02.08

index

External dimensions (WxHXD) . . . . 435 x 224 x 390mm

Construction materials . . . . all aluminium chassis

Motherboard support . . . . ATX, micro ATX, mini-ITX

PSU support . . . . ATX PSU

PCI card support . . . . full size

Drive bays . . . . 10 x 3.5" internal drive bays
1 x 5.25" external drive bay

Fan support . . . . 1 x 120mm low dB exhaust fan
2 x 92mm low dB intake fans

Expansion slots 7

Front I/O ports . . . . 2 x USB 2.0 ports
1 x 1394 port
1 x headphone (HD & AC97)
1 x microphone (HD & AC97)
1 x multi format card reader

IR support . . . . iMON IR controller (IR310)

Net weight 9.8kg

Available colours . . . . black, silver

TFT specification . . . . 12.1" screen size (16:10)
1280 x 800 native resolution
1920 x 1080 max resolution
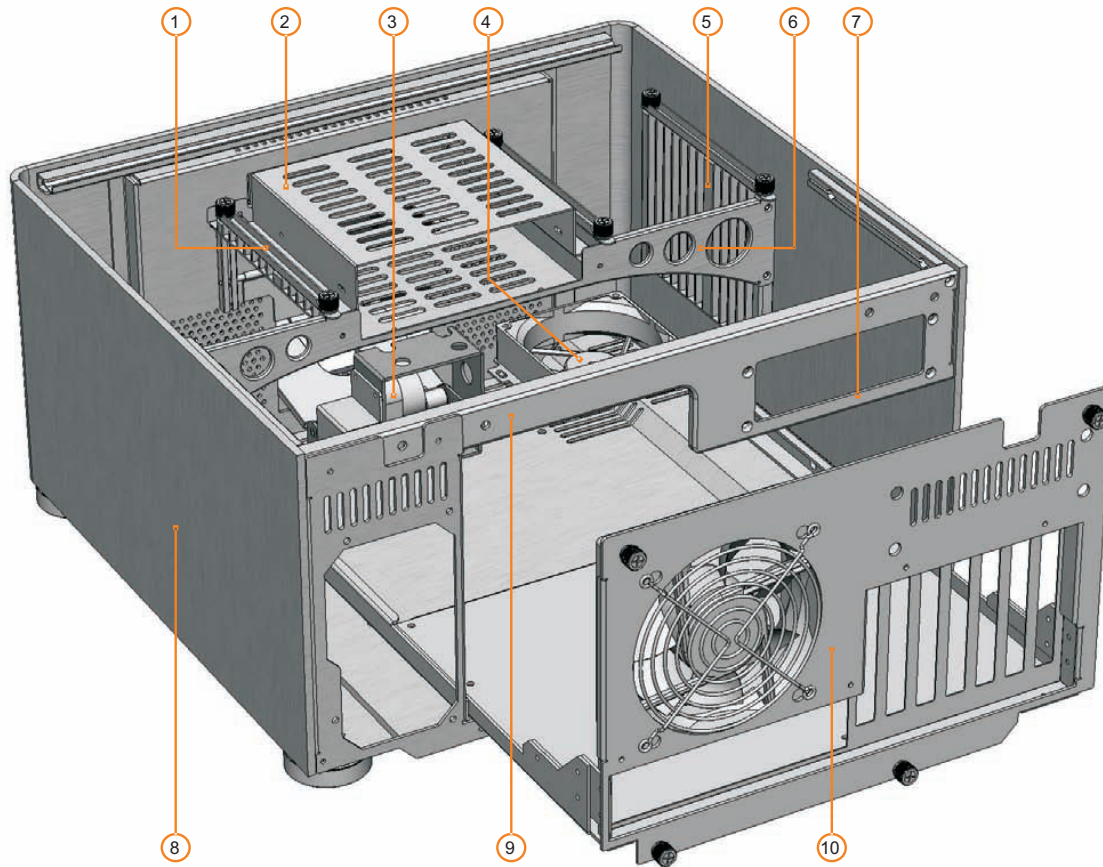1 x SVGA input
12V dc input
9w power consumption

S21T overview

The following diagrams (below and overleaf) highlight the main features and controls of the S21T htpc enclosure. Further information can be found throughout this user guide.
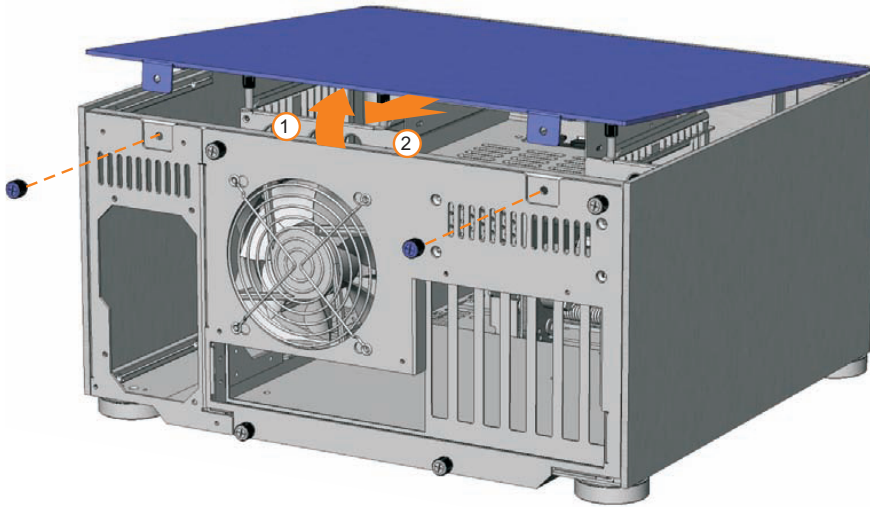
1 - Power button
2 - Power LED ring
3 - TFT power ON/OFF button*
4 - IR receiver windows
5 - TFT stylus
6 - Optical disk drive [bezel]
7 - Optical disk drive eject button
8 - 12.1" touch screen TFT
9 - I/O ports and card reader (p.17)
10 - TFT contols (p.14)
11 - TFT open/close button
12 - One piece aluminum chassis
13 - PSU bracket
14 - Top panel fixing screw
15 - Motherboard tray fixing screw
16 - Removable motherboard tray
17 - 120mm low dB fan
18 - Top panel
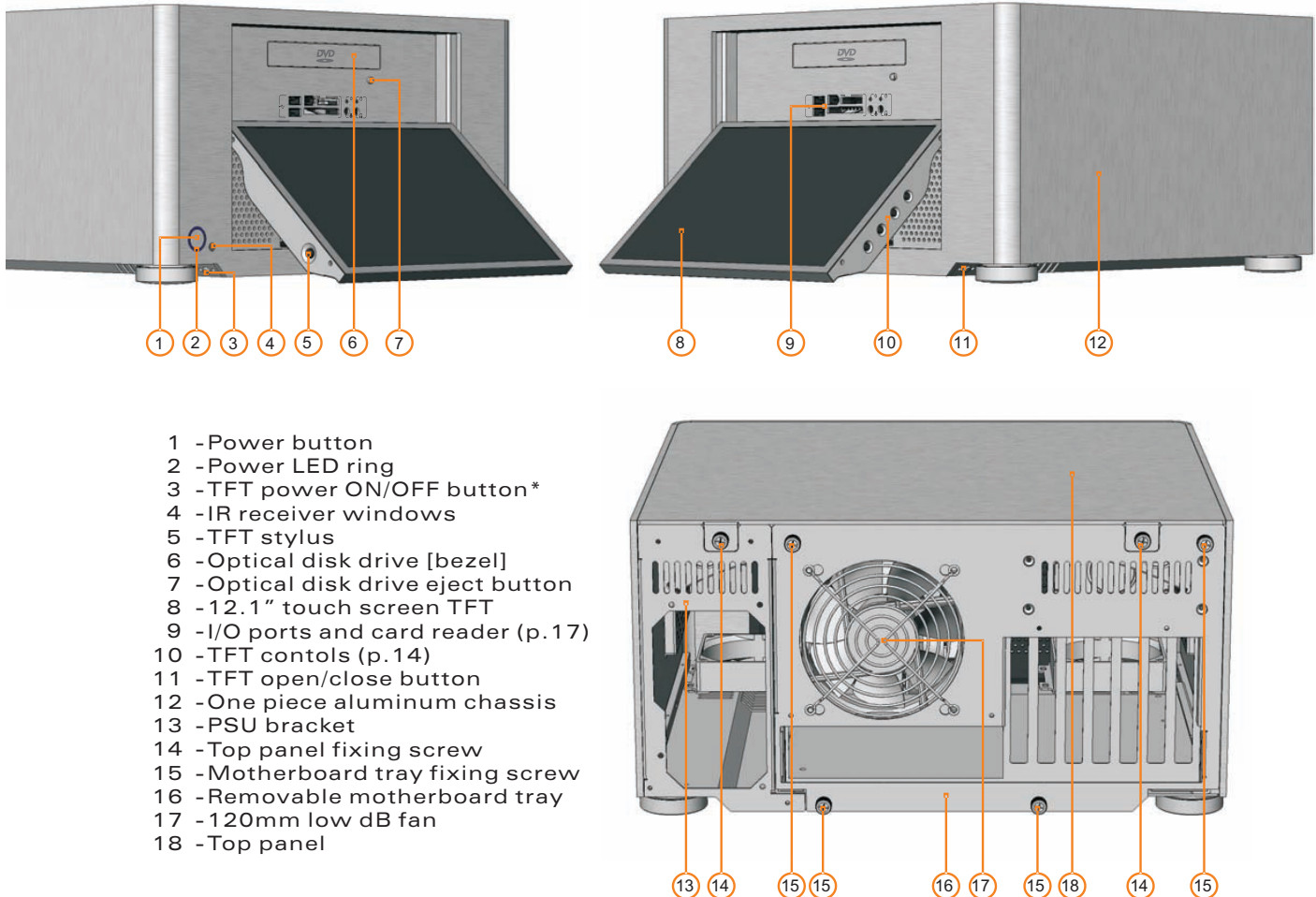
*see page 16 for auto-poweron feature

1 - Hard drive (HD) stop-rail
2 - Optical disk drive (ODD) cage
3 - Motor assembly
4 - 92mm low dB fan
5 - HD mounting bracket
6 - ODD/HD support strut
7 - Extractor module mount
8 - One piece aluminum chassis
9 - Moulded back panel frame
10 - Removable motherboard tray

Opening the case
To remove the lid of the case, undo the 2 thumb screws as indicated. Carefully lift the lid from the back but not too far - DO NOT FORCE, and then pull backwards. Reverse procedure to replace lid.

Removing the motherboard tray.
Undo the 4 thumb screws as indicated below. Pull the tray backwards to remove. Reverse this procedure when replacing the tray, ensuring it is located in the tray guides correctly.
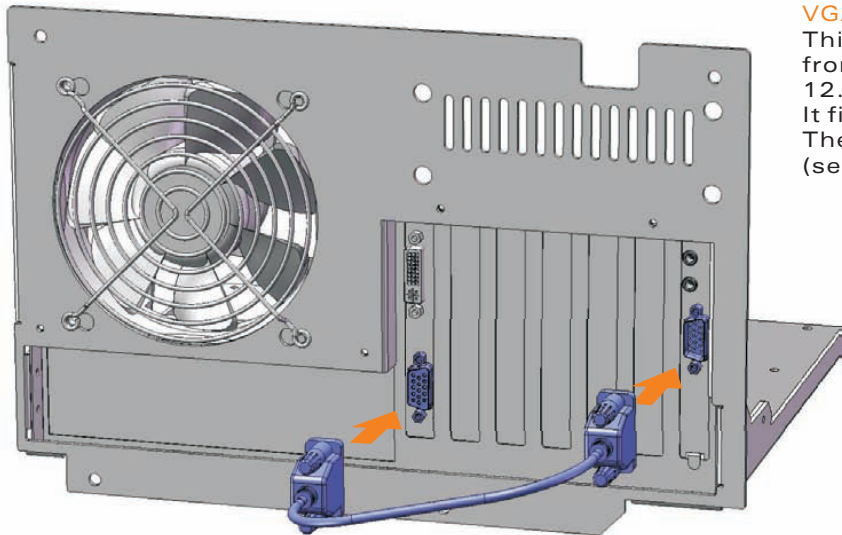

7
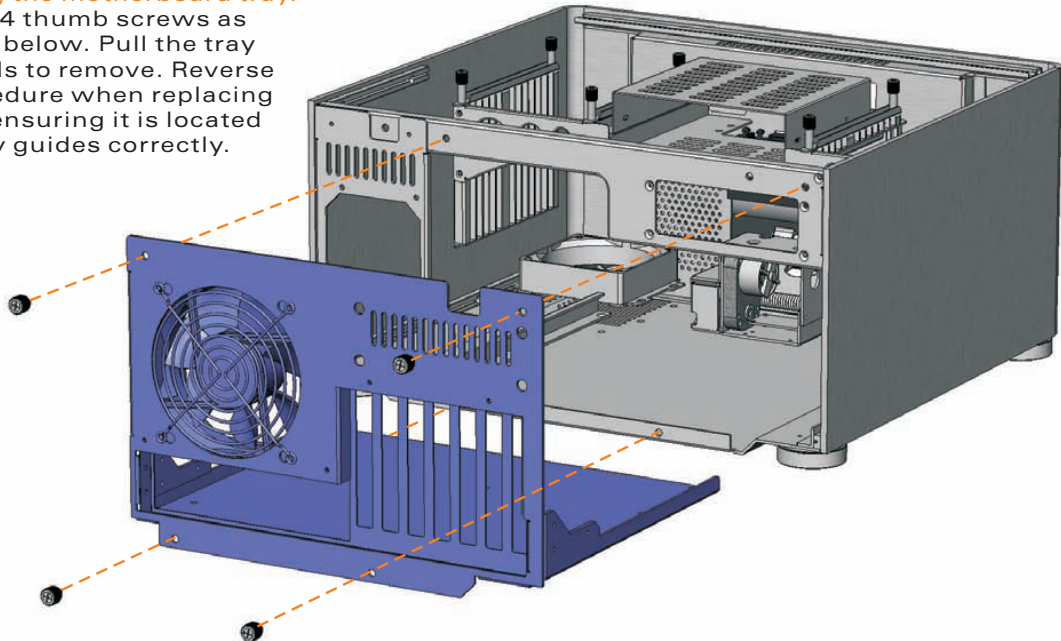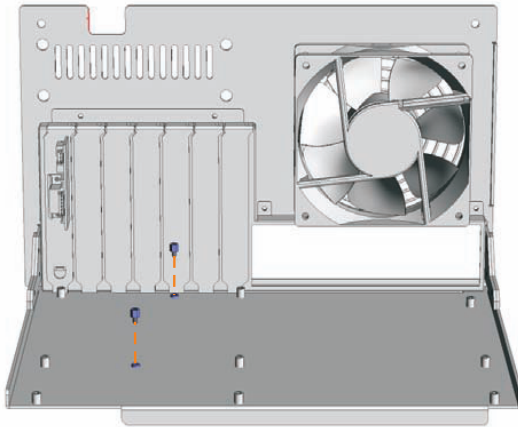
Micro ATX standoff installation
When installing a micro ATX motherboard, screw the 2 standoffs provided in the locations illustrated above. These are for micro ATX only and MUST NOT be installed if using a full ATX motherboard.
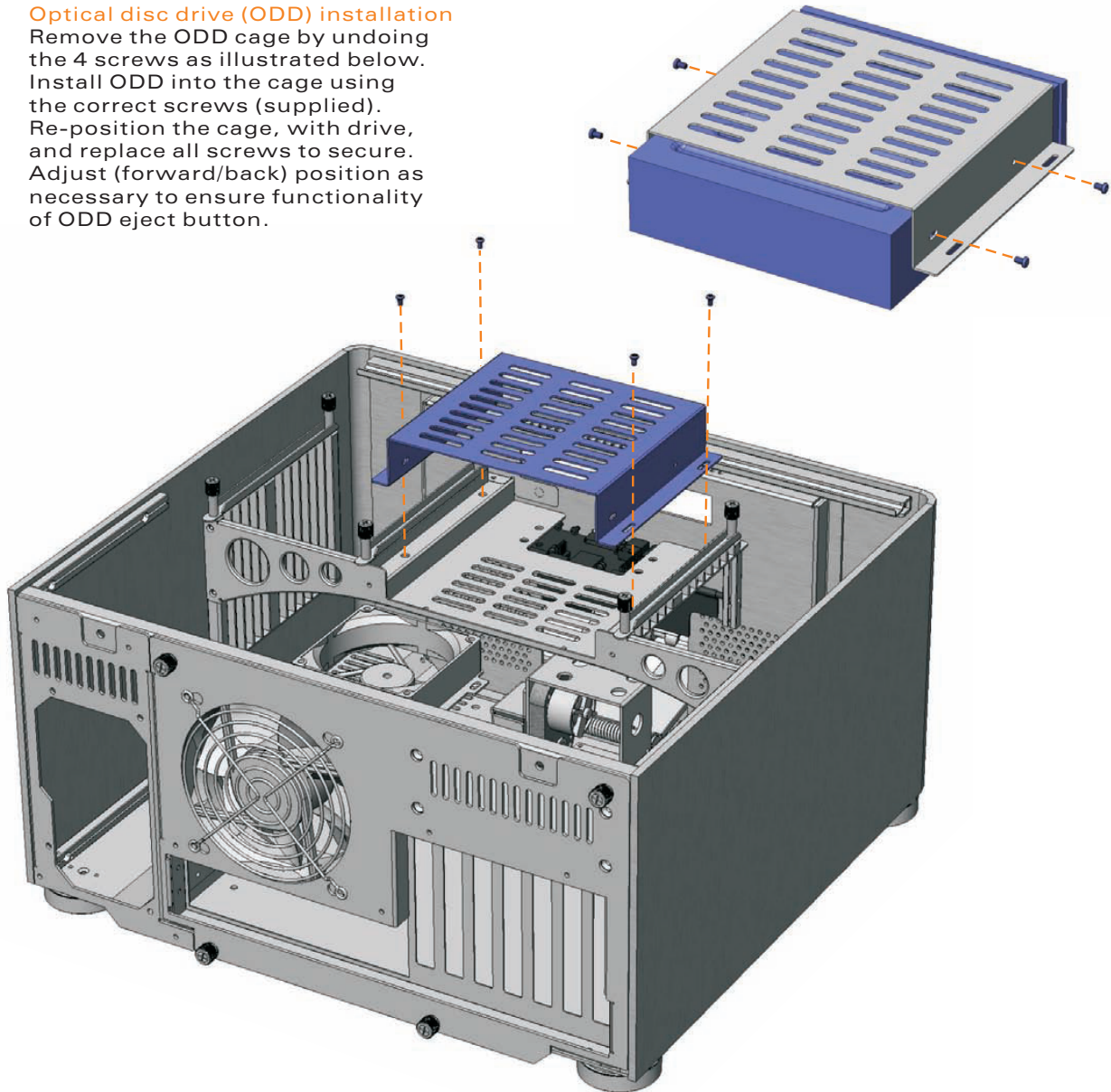

VGA loop cable
This cable loops the VGA signal from the graphics card to the 12.1" TFT via the VGA bracket. It fits to the connectors as shown. The VGA is then connected internally (see page 13 for PCB / cable reference).
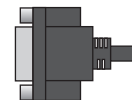
VGA input (connector hub PCB)

### Optical disc drive (ODD) installation

Remove the ODD cage by undoing the 4 screws as illustrated below. Install ODD into the cage using the correct screws (supplied). Re-position the cage, with drive, and replace all screws to secure. Adjust (forward/back) position as necessary to ensure functionality of ODD eject button.

Optical disk drive (ODD) bezel installation.

The aluminum ODD bezel matches the finish of the case. The installation procedure requires that the plastic drive bezel that comes fitted to your drive, be removed prior to installation. The drive format icon should also be fitted to the bezel before installation. The metal sticker sheet supplied has Blu-ray, HD-DVD or DVD icons, depending on the format being used.

Alignment spacer
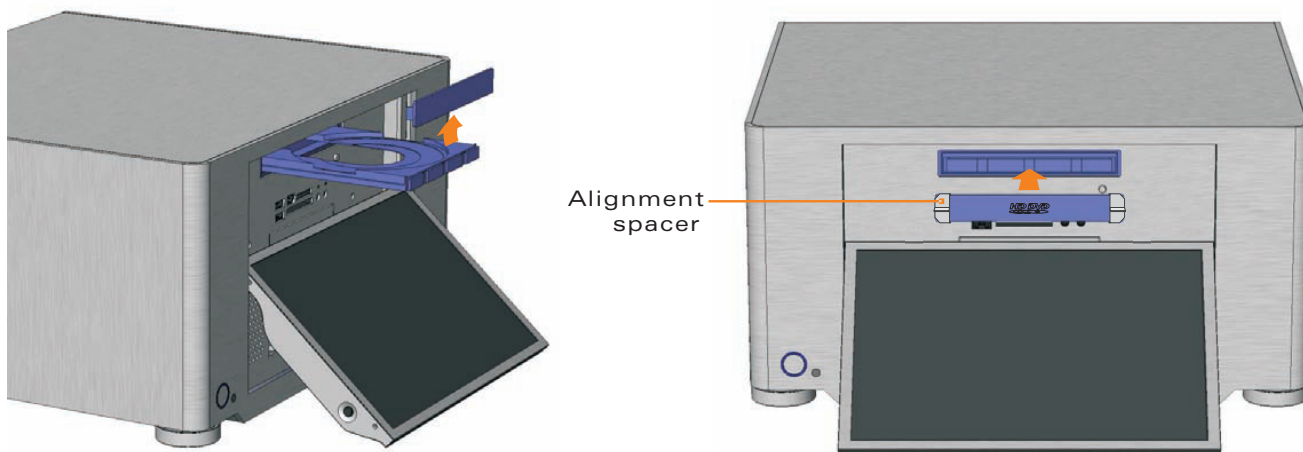
Remove the existing plastic dirve bezel from your ODD. This is usually done by uncliping it and sliding it upwards. The disc tray should be ejected when doing this to gain access to the bezel.

With the tray closed, peel the back off the adhesive foam strip on the back of the bezel. Using the cardboard spacers, position the bezel as shown and press firmly to ensure good adhesion. Eject the tray to remove the spacers (a gentle tug may be required).

## Metal sticker fitting instructions.

Ensure the bezel is free from dirt of grease. Peel and fold back the yellow backing sheet, revealing only the icon you intend to use. Carefully position the icon as central as possible, then apply even pressure over the entire area. Peel off the plastic film (and unused icons) to reveal you handy work!

TOP   TOP

foam tape
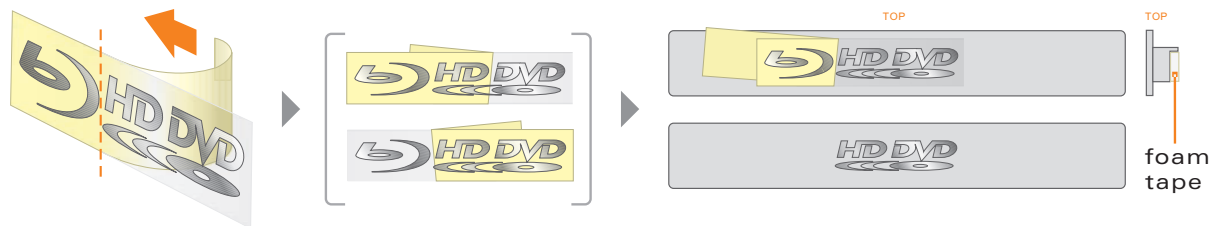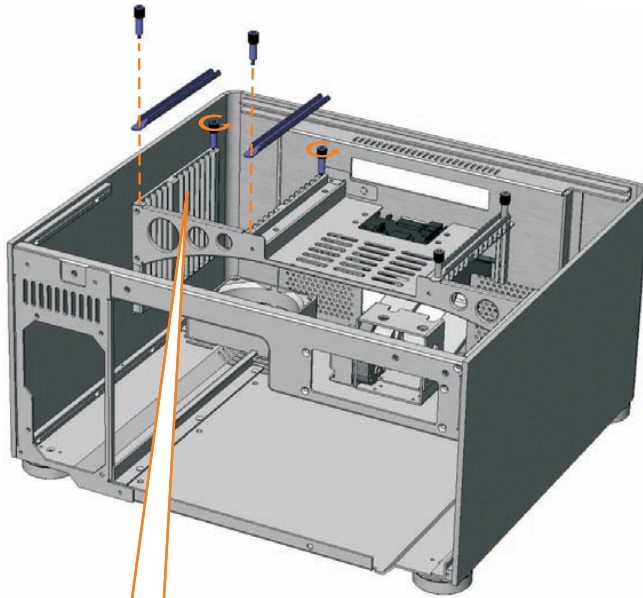
Hard drive installation.

To begin installation, remove the stop-rails as shown. You may need to loosen the screws first with a screwdriver. Drives must always be installed with the label facing toward the front of case. Screw three rubber mounting screws into the drive as shown below (the screw arrangement is mirrored for drives installed on the opposite side). Use the chart on page 12 to determine location, then lower the drive into place, carefully guiding the bottom rubber mount straight down the outer mount guide until the upper mounts are sitting snugly at the top of opposing guides. Once all drives have been installed, secure the stop-rails.
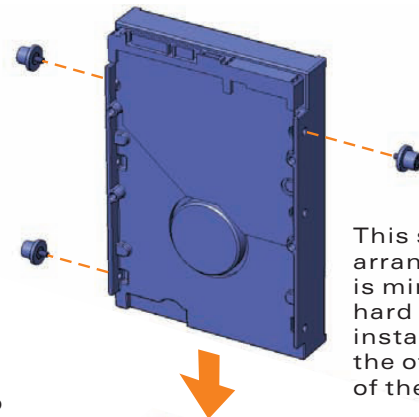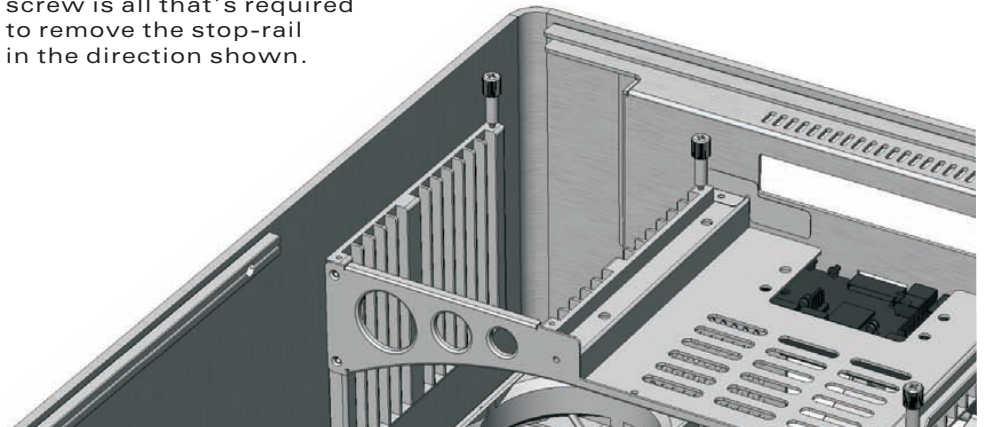
This screw arrangement is mirrored for hard drives installed on the other side of the case.
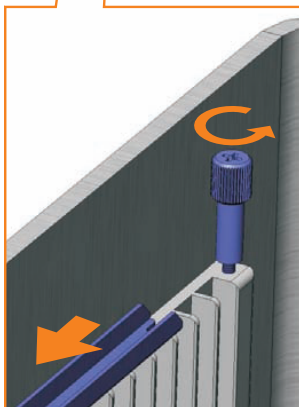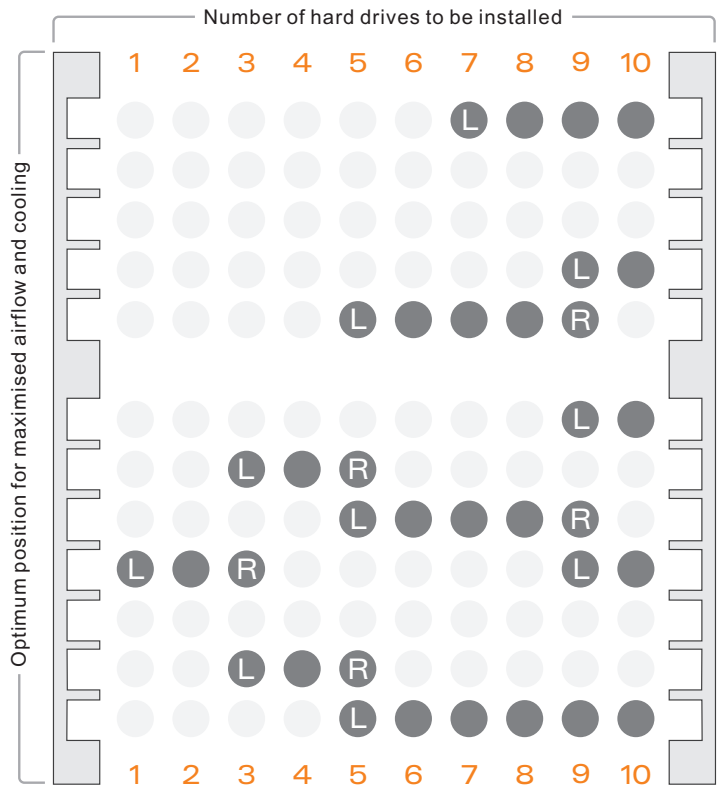
HD stop-rails.

When removing the stop-rails, only the back screw need be fully unscrewed-loosening the front thumb screw is all that's required to remove the stop-rail in the direction shown.

Number of hard drives to be installed

Optimum position for maximised airflow and cooling

1 2 3 4 5 6 7 8 9 10

Hard drive configuration.

In order to maximise airfow and cooling of the hard drives, use the chart on the left to determine the optimum install configuration for the number of drives to be installed. When more that 6 drives are required, careful motherboard and PCI card selection is recommended, as in some cases M/B connector pin position or and oversized graphics card may inhibit some drive configurations. If this occurs, the drive positions can be reversed (left to right) or the drive spacing decreased as needed. Always try to maximise the airflow wherever possible.
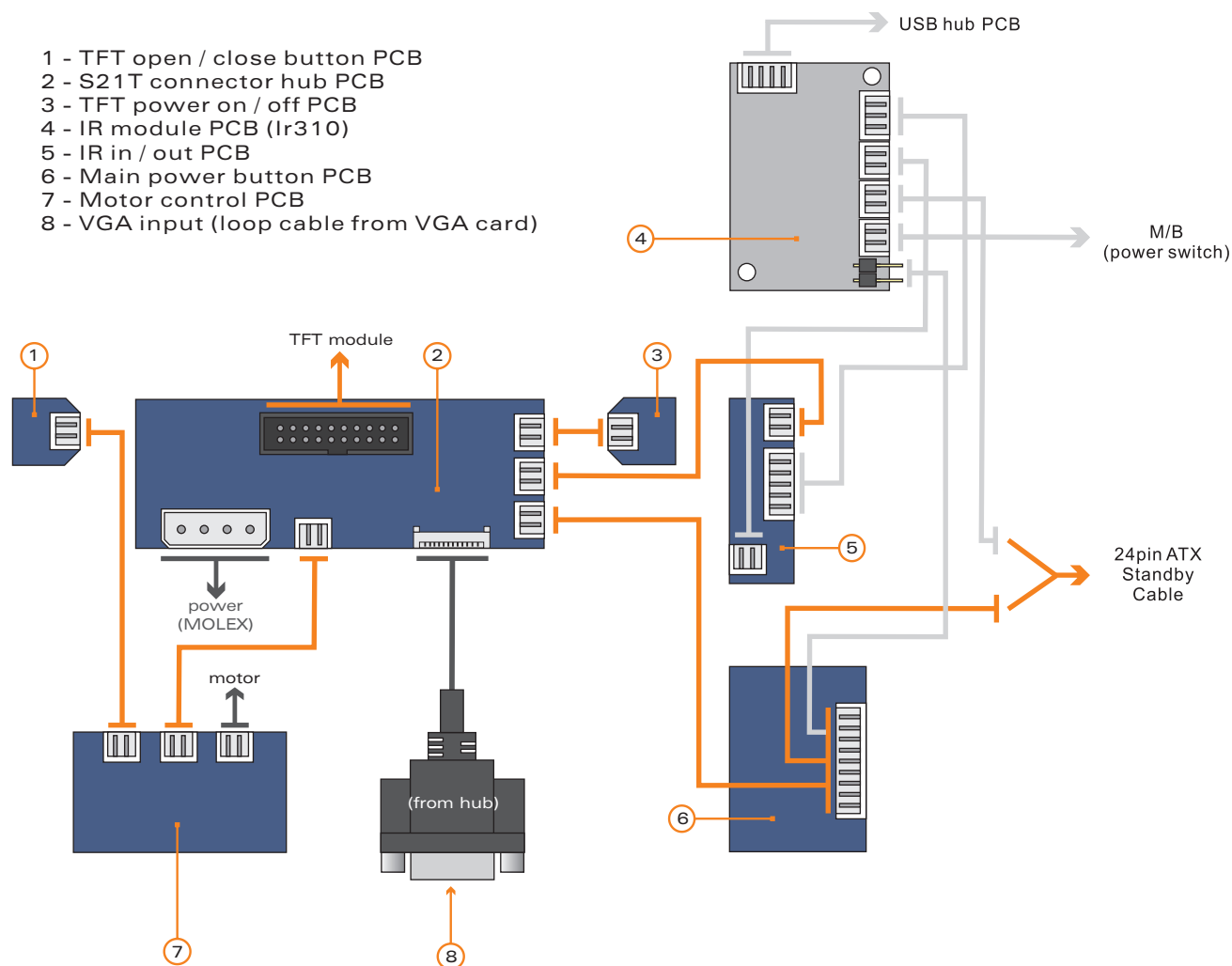
L drive on the left side only

R drive on the right side only

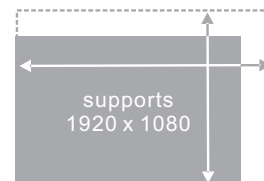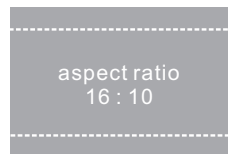● drive on both sides

LEFT

RIGHT
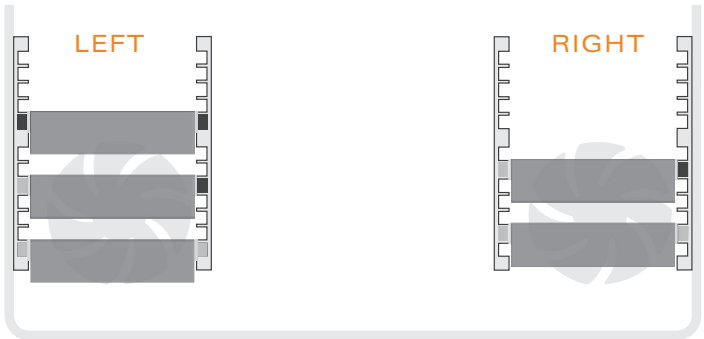
This diagram illustrates a five HD configuration using the chart above.

12

PCB/cable reference diagram.

This is a general overview illustrating how the S21T PCBs interconnect. PCBs / Cables dimmed in grey, come as part of an IR kit (sold separately). Please refer to your motherboard manual for the location of the correct ports and header pins.

1 - TFT open / close button PCB
2 - S21T connector hub PCB
3 - TFT power on / off PCB
4 - IR module PCB (Ir310)
5 - IR in / out PCB
6 - Main power button PCB
7 - Motor control PCB
8 - VGA input (loop cable from VGA card)

USB hub PCB

M/B
(power switch)

TFT module

power
(MOLEX)

motor

(from hub)

24pin ATX
Standby
Cable

13

12.1 inch TFT (261 x 163mm)	aspect ratio 16 : 10	resolution 1280 x 800	supports 1920 x 1080

TFT controls / menu operation

Begin by pressing the ▤ (menu/set) button to bring up the on screen display (OSD). Use the ▲ and ▼ buttons to navigate through the 10 menu categories. Press the ▤ button to select a category, then (where appropriate) use to ▲ and ▼ to increase or decrease the value as desired. Press the ▤ button again to confirm the setting and repeat the process until you have made all the required adjustments. To exit the OSD, simply locate the EXIT category (10/10) and press ▤ (it will also exit automatically after approximately 10 seconds of inactivity). The menu gudie on the next page shows the route [in grey] and the adjustment sequence [in orange] for each menu category (each assumes you are not already in the menu, with the exception of Exit).
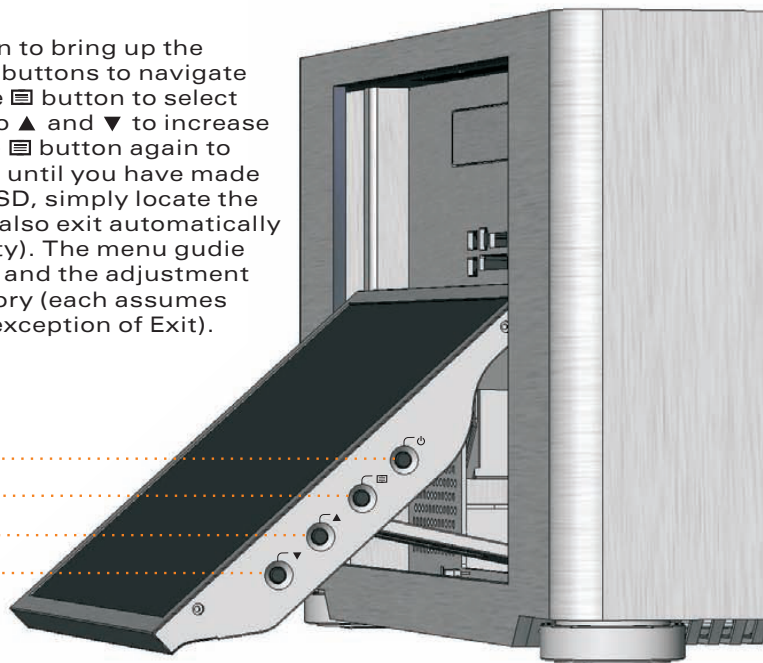
⏻ TFT power on / off * ....

▤ Menu / set ....

▲ Value up ....

▼ Value down ....

*see page 16 for auto - power on feature

1 ☼ BRIGHTNESS - adjusts the picture brightness.
2 ◑ CONTRAST - adjusts the picture contrast.
3 ▦ PHASE - adjusts the noise of the image.
4 ↔ CLOCK - adjusts video sampling clock.
5 ▢ H POSITION - adjust the image horizontally.
6 ▢ V POSITION - adjust the image vertically.
7 ◉ LANGUAGE - language selection (default English).
8 ⚹ AUTO - auto image adjust wizard.
9 ↻ RESET - resets to factory setting.
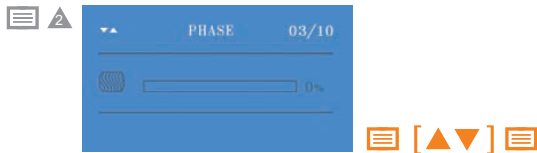10 ▦ EXIT - exits the TFT menu.
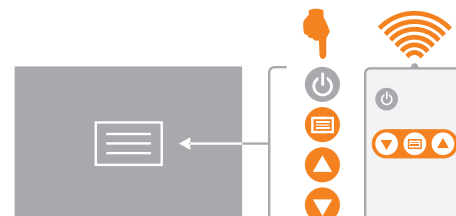
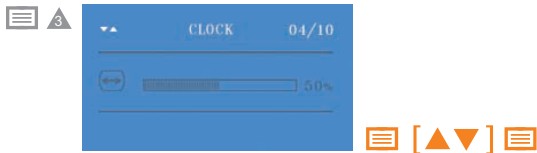## Brightness.
follow the steps below to adjust brightness.

▤   BRIGHTNESS 01/10
      ☼ ▬▬▬▬▬ 50%

▤ [▲▼] ▤

Contrast.
follow the steps below to adjust contrast.

▤ ⚠   CONTRAST 02/10
      ◑ ▬▬▬▬▬ 50%

▤ [▲▼] ▤

Phase.
follow the steps below to adjust phase.

▤ 2   PHASE 03/10
      ▬▬▬▬▬ 0%

▤ [▲▼] ▤

Clock.
follow the steps below to adjust clock speed.

▤ 3   CLOCK 04/10
      ↔ ▬▬▬▬▬ 50%

▤ [▲▼] ▤

H positions.
follow the steps below to adjust H position.

▤ 4   H POSITION 05/10
      ▬▬▬▬▬ 50%

▤ [▲▼] ▤
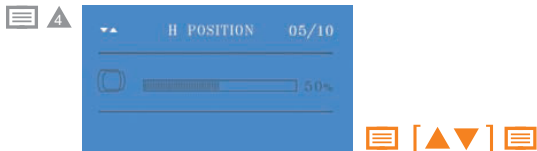
V positions.
follow the steps below to adjust V position.

▤ 5   V POSITION 06/10
      ▬▬▬▬▬ 50%

▤ [▲▼] ▤
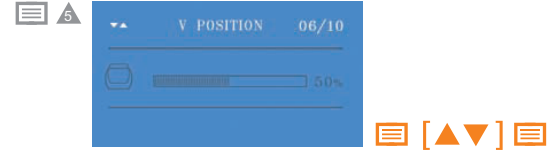
Language (default is English).
follow the steps below to change language.

▤ 4   LANGUAGE 07/10
      ENGLISH

▤ [▲▼] ▤
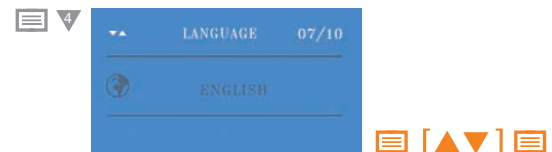
Auto-adjust wizard.
follow the steps below to auto-adjust image.

▤ 3   AUTO 08/10
      A

▤
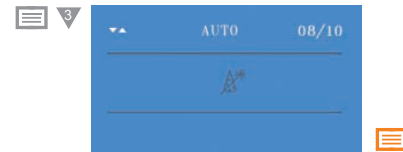
Reset to factory settings.
follow the steps below to reset settings.

▤ 2   RESET 09/10
      ↻

▤
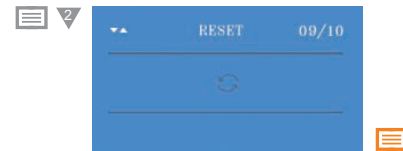
Exit.
follow the steps below to exit OSD.

▲▼   EXIT 10/10

▤

### Hidden controls / features ·

A few of the S21T's controls and features have been discreetly located in order to retain the clean styling of the enclosure. These are as follows:

TFT power on/off - Quick access button located near main power button with same functionality as the power button on the TFT

TFT stylus location - Press to release lock, pull out to remove. Slide stylus into the opening (tip first) and press to lock and stow

Auto-power on feature - Located on the back of the TFT, between the ▲ and ▼ button. Switched ON the TFT auto-powers up on boot, switched OFF the TFT remains off on boot.

TFT open/close - Opens and closes the TFT panel, to provide access to the ODD drive, multi-format card reader and front I/O ports.

>auto

OFF ON

(switched ON)
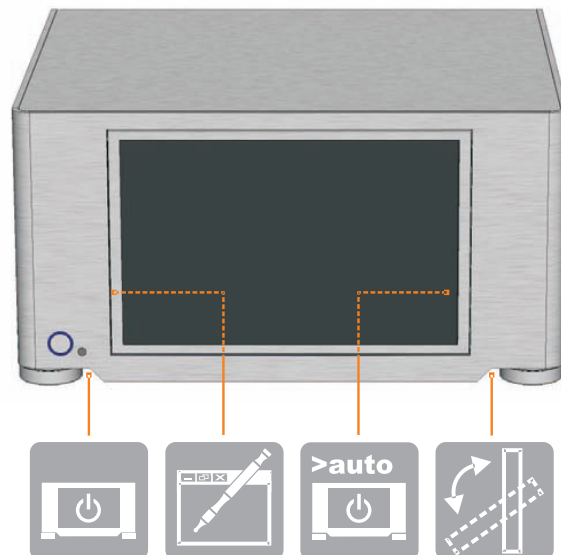
Multi-format card reader & I/O ports

The S21T comes fitted with a multi-format card reader as well as front audio, USB and 1394 ports. The [internal] USB hub feeds the 2 front USB ports as well as the IR control and TFT touch panel, freeing up USB connectors on the motherboard. The front audio ports support both AC97 and HD audio standards, while the card reader supports all the card formats.

1 - USB port
2 - 1394 port
3 - Compact flash reader
4 - Multi format reader
5 - Card reader power LED
6 - Activity indicator LED
7 - Audio socket
8 - Audio socket
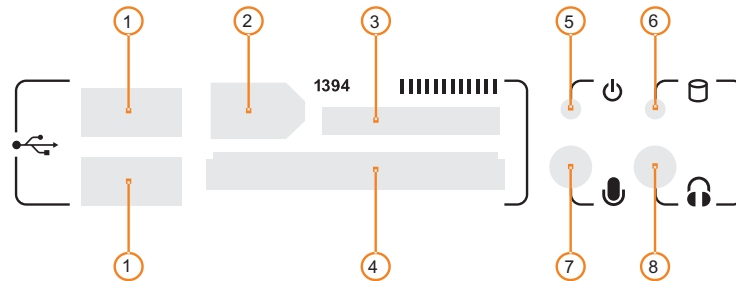
1 Compact Flash Card TYPE I	20 Secure Digital Ultra II Plus Card	39 Memory Stick (Magic Gate / High
2 Compact Flash Card TYPE II	21 Secure Digital Card 45X	Speed data transfer compatible)
3 Compact Flash Ultra Card TYPE I 45 X	22 Secure Digital PRO Card 66X	40 Memory Stick
4 Compact Flash Ultra Card TYPE I 80 X	23 Secure Digital Card 80X	(Magic Gate / High Speed data transfer
5 Compact Flash Ultra Card TYPE I 120 X	24 Secure Digital Card 133X	compatible with memory select function)
6 Compact Flash Ultra II Card TYPE I	25 Secure Digital Card 150X	41 Memory Stick Pro
7 Compact Flash Extreme Card	26 Mini Secure Digital Card	42 Magic Gate Memory Stick
8 Compact Flash Extreme III Card	27 Mini Secure Digital Ultra II Card	43 Magic Gate Memory Stick
9 Compact Flash ELITE PRO Card	28 Mini Secure Digital Card 80X	44 Memory Stick Pro HS
10 Compact Flash Ultimate Card 100X	29 Mini Secure Digital PRO Card	45 Memory Stick Pro Ultra II
11 Compact Flash Ultra-X Card 140X	30 Micro Secure Digital Card	46 Memory Stick Pro Extreme
12 IBM Micro Drive Card	31 Micro Secure Digital Ultra II Card	47 Memory Stick Pro Extreme III
13 Sony Micro Drive Card		48 Memory Stick Pro
	32 Multi Media Card	49 Memory Stick Pro Duo
14 Smart Media Card	33 Multi Media PRO Card	50 Memory Stick Pro Duo HS
	34 Multi Media Plus Card	51 Memory Stick Pro Duo
15 XD-Picture Card	35 Reduced Sized Multi Media Card	52 Memory Stick Duo (Magic Gate / High
	36 Reduced Sized Multi Media Mobile Card	Speed data transfer compatible)
16 Secure Digital Card		53 Memory Stick Pro Duo
17 Secure Digital Ultra II Card	37 Memory Stick	54 Magic Gate Memory Stick Duo
18 Secure Digital Extreme Card	38 Memory Stick	55 Magic Gate Memory Stick Duo
19 Secure Digital Extreme III Card	(With memory select function)	56 Memory Stick ROM

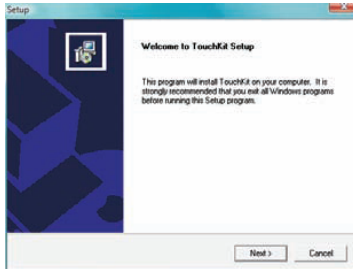NOTE: Card adapter required for some formats

Touch panel software installation.

In order to use the touch panel, you must first install the TouchKit software from our website. To start the software installation, double click on the setup.exe file located in the TouchKit folder.

1 After opening the setup.exe file, the install will begin with the above prompt. Click 'Next' to continue.
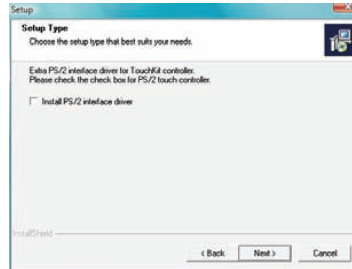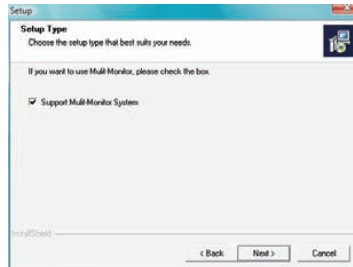

2 Ensure that 'install PS/2 interface driver' is not selected and click 'Next'.
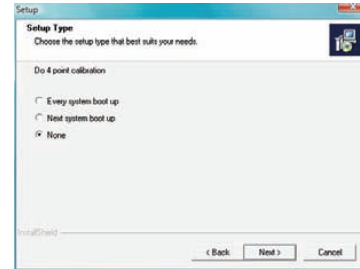
3 Select 'None' and click 'Next' After completing the install, the TouchKit software will perform a 4 point calibration.

4 The touchscreen controller should already be connected if you have correctly connected all cables inside your chassis. Click 'OK'.
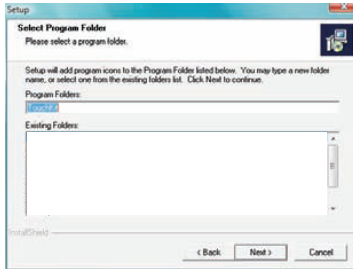

5 If you intend to use spaning mode with multiple monitors, please select 'Support Multi-Monitor Systems'. Click 'Next' to continue.
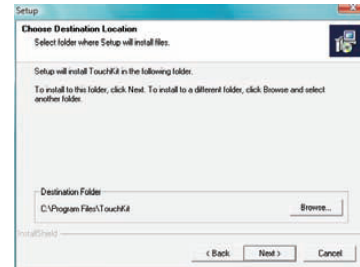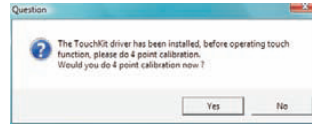

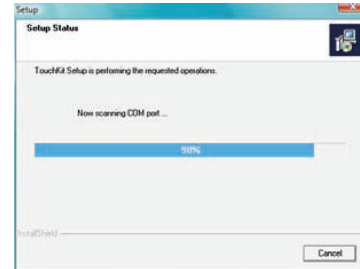6 Change the TouchKit software install folder if required and click 'Next' to continue.
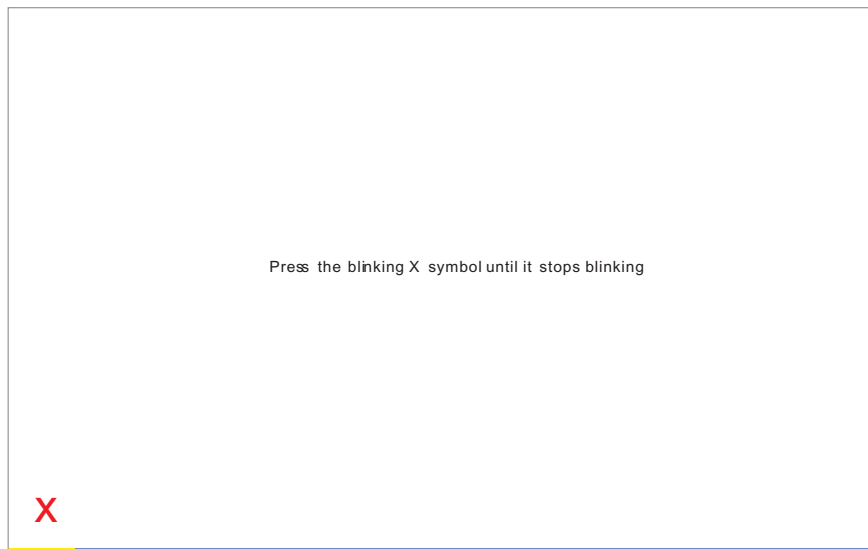
18

7 Change the Program Folder name if required and click 'Next' to continue.

8 Click 'Yes' to perform a 4 point calibration. This is required for proper touch screen operation.

9 The software will now scan and install the touch screen device. The TouchKit calibration procedure will follow.

Press the blinking X symbol until it stops blinking

X

10 To perform the calibration, press and hold down the X that blinks in the corner of the screen, until it disappears. Repeat this procedure with each of the 4 X's that appear. On completion of this, the touch screen will be calibrated and ready for use.

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