

1. General Overview

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2. Fader Bay 1.949.020.81 (Vista 7) 1.949.021.00 (Vista 6) 1.949.022.00 (Vista 8)



	Vista 6	Vista 7	Vista 8
TFT Interface	1.949.085.00	1.949.085.00	1.949.070.82
Control Board Fader Bay	1.949.120.21	1.949.120.21	1.949.122.20
Fader Driver	1.949.130.81	1.949.130.81	1.949.130.81
Fader Front Board Vista	1.949.134.00	1.949.135.00	1.949.139.00
I/O Front Board Vista	1.949.137.00	1.949.138.00	1.949.137.00
Bargraph Fader Bay	1.949.140.00	1.949.140.00	1.949.040.00

Fader Calibration







Replacement of Motor Faders

Vista Motor Faders are available with Studer Spare Part No 1.950.044.00-V.



1. Switch Off Desk Supply and remove the 6 fastening screws.



2. Swing the bay up into service position and lock it with the support leg.



3. Take care not to touch the potentiometers in the uppermost position !



4. Remove the connector at the fader driver board



- 5. Remove fader knob the 2 attachment screws. The fader is now ready to be replaced
- 6. Insert a new fader and proceed in reverse order.

Note !

Always perform a fader calibration after a fader replacement





Replacement of Fader Bay

Replacing a fader bay is easy and straight forward. There are 3 single cables which provide power supply and USB control signal (RJ45 connector), video signal for the TFT display (D-Type video connector) and control signals to the meter panel (flat ribbon cable).

The bay can be locked in a service position, after removing the cables it can be completely removed.



Open the Bay and lock the support leg

See step 1-3 above

4. Disconnect supply, video and meter cable .



5. Mount the leg to the bay lock again and remove the bay carefully to the front.

Note !

Always store the bay to a flat ESD safe place. Always ship the bay in the original transport box.

6. Install the bay in reverse order from step 5 to 1.

Replacement of Bargraph Meter

The bargraph module is connected to the corresponding bay with a single flat ribbon cable. A replacement is possible from the top of the desk :



1. Switch Off Desk Supply and remove the screws on the top of the meter frame



2. Lift of the cover profile



3. Carefully lift up the meter module and unplug the flat ribbon cable to the bay.



3. Control Bay 1.949.030.81 (Vista 7) 1.949.031.00 (Vista 6) 1.949.032.00 (Vista 8)



Vista 6	Vista 7	Vista 8
1.949.121.21	1.949.121.21	1.949.122.20
1.949.125.00	1.949.125.00	1.949.136.00
1.949.129.00	1.949.128.81	1.949.127.00
1.949.075.82	1.949.075.82	1.949.070.82
89.20.1134	89.20.1134	1.949.130.81 1.949.131.00 1.949.133.00 89.20.1134
1.949.143.00	1.949.143.00	1.949.142.00
	Vista 6 1.949.121.21 1.949.125.00 1.949.129.00 1.949.075.82 89.20.1134 1.949.143.00	Vista 6 Vista 7 1.949.121.21 1.949.121.21 1.949.125.00 1.949.125.00 1.949.129.00 1.949.128.81 1.949.075.82 1.949.075.82 89.20.1134 89.20.1134 1.949.143.00 1.949.143.00

Joystick Calibration



Select control bay to calibrate, and choose 'Joystick' category.

- 1. Start process with 'Clear Calibration' from "Joystick >>" menu.
- 2. Place the left joystick at the LEFT border and confirm with any key. The UP/DOWN key will start blinking.
- 3. Place the left joystick at the LOWER border and confirm with any key. The first calibration process starts, wait until the LEFT/RIGHT key is blinking.
- 4. Place the left joystick at the RIGHT border and confirm with any key. The UP/DOWN key will start blinking.
- 5. Place the left joystick at the UPPER border and confirm with any key. The second calibration process starts.
- 6. Wait until the UP/DOWN key of the right Joystick is blinking and proceed as described in step 2-5
- 7. When finished, both joysticks are placed in the lower left position again.

Please note : on a Vista 8 Control Bay, fader and joystick calibration are always combined - when performing a fader calibration the joysticks need to by adjusted as well as a second step.

If a calibration process gets stuck it can be interrupted anytime by pressing 5 keys on the corresponding bay simultaneously.



Replacement of Control Bay

Replacing the Control Bay is as easy as described for the fader bay. Switch off the desk, remove fastening screws, put bay into service position, remove cables, pull the bay out carefully and place it on a flat ESD safe surface.

Replacement of Control Bay TFT Module 1.949.075.82 (Vista 6 and 7)



3. Remote Fader Bay 1.949.700.00 (1.949.705.00 for Vista 6)



4. Desk & PC

	Vista 6	Vista 7	Vista 8	Red. PC
Power Distribution Board	1.949.150.81	1.949.150.81	1.949.150.81	1.949.152.00
TC Reader Module	1.949.010.21	1.949.010.21	1.949.010.21	
Power Supply 24V/20A		89.20.2014		
Power Supply 24V/12A	89.20.2017	89.20.2017	89.20.2017	89.20.2017
Mainboard (without CPU/RAM)	89.20.1122	89.20.1122	89.20.1122	89.20.1122
Harddisk	89.20.1130	89.20.1130	89.20.1130	89.20.1130
Video Graphic Board	89.20.1131	89.20.1131	89.20.1131	89.20.1131
Serial Interface Board	89.20.1132	89.20.1132	89.20.1132	89.20.1132
CD-Rewriter	89.20.1140*	89.20.1140*	89.20.1140*	89.20.1140*
Trackball	89.20.1144**	89.20.1144**	89.20.1144**	
IDE RAID Card FastTrak	89.20.1136	89.20.1136	89.20.1136	
PCI Memnet Card	1.950.450.20	1.950.450.20	1.950.450.20	1.950.450.20

- * the following models have been used before in Vista Desks: Philips PCRW 1208K (89.20.1134), Philips PCRW 5224 (89.20.1139), LiteOn LTR 52327 (89.20.1140). The current software (DirectCD 5.3.4) supports all models, when upgrading from the 1208 to the newer writers, an upgrade of the DirectCD software is required (See Vista Service Note 12/2003)
- ** The trackball 89.20.1134 has been used in Vista 6 and 7 desks. It is mechanically not compatible with the current 89.20.1144 (optical trackball) which is now installed in all desk. Please note that there were different versions of the optical trackball : a dark one for Vista 6/7/8, which was replaced by a first bright one, and finally a second bright one for all desks (incl the redundant Vista 8)

Software Installation

- Burn the installation .zip file onto a CD-R and insert the CD-R into Vista console
- Go to menu Start->Programs->Startup and click on the program "VistaMouseLoader". This program makes sure that the windows cursor doesn't reach the area of Vistonics screens.
- If you have a folder called "C:\Vista_old", delete this folder. Rename your existing folder "C:\Vista" into "C:\Vista_old"
- Extract the installation zip archive (Vista7_Vxxx.zip) on your CD-R to the internal C:\ drive. It will generate a new folder "C:\Vista" containing the subfolders "C:\Vista\bin_release", "C:\Vista\system" and "C:\Vista\XML"
- Registration is only required for upgrades before V3.3 skip this step for V3.3 installation (or later) : Launch the program file "RegVista.Bat" in the folder " C:\Vista ".Confirm that each message ends with the word "successfully".
- Go to menu Start->Programs->Startup and click on the program "VistaMouseLoader". This
 will make this program active again and you won't be able to move your mouse cursor
 outside the GC area of the console.

Firmware Installation

Name 🔺	
🖻 bardec 20.ttf	
🖻 kakadu 20.ttf	
🗄 VBackup.exe	
🖸 VCal.exe	
🛄 Vfwupd.exe	
🖬 VTest.exe	
🖻 xDos20.H86	
🖻 xDos21.H86	
🖻 xDos22.H86	

The VistaAdminTools menu includes all maintenance utilities as well as the firmware program files. For upgrading close the Vista application and start the Vista Firmware Upgrade Utility (Vfwupd.exe).

You will be guided through the firmware upgrade process step by step. Take care NOT to interrupt the sequence until the firmware upgrade is completed ! Switching off the desk's mains supply during the upgrade could leave the Vista desk in a non-working state.



2. Search for attached Vista Bay Bay 1: Faderbay, diman Bay 2: Faderbay, diman Bay 3: Faderbay, diman Bay 4: Controbay, dima	s and report firmware versions ager: 12, bardec: 20, kakadur. 20, xD05: 22 ager: 12, bardec: 20, kakadur. 20, xD05: 22 ager: 12, bardec: 20, kakadur. 20, xD05: 22 ager: 12, bardec: 20, kakadur. 20, xD05: 22	1. 2.	First the status of the available firmware is indicated. The second step searches for the installed firmware versions in the desk.
Bay 5: Faderbay, diman Bay 6: Faderbay, diman Bay 7: not found or not Bay 8: not found or not 3: Download the firmware to all B	ager: 12, bardec: 20, kakadu: 20, xDOS: 22 ager: 12, bardec: 20, kakadu: 20, xDOS: 22 nstalled in this acks configuration nstalled in this desk configuration	At rec file wit	this step it is possible to verify if a firmware upgrade is quired (installed version is older than the current program s) or not. Exit the utility if no upgrade is necessary, proceed h 'Next' for the upgrade.
4. Power off the Desk 5. Power on the Desk		3. 4.	The program files are downloaded to the bays. Switch of the desk hardware (single botttom power switch) and wait until the utility asks to
6. Exit this application		5. 6.	switch the desk on again. Exit the application. The desk is now upgraded.
	Cancel / Exit Next >>	1	

TFT Settings

Production Vista Desks are fitted with DVI controlled TFT monitors. The brightness my be adjusted in the Vista settings (introduced with V3.5, refer to the manual for details)

In the Display properties, the following settings are used as default values :



Open Display Properties, e.g. with right-clicking desktop .. choose the 'Settings' tab and select 'Advanced ..'

Go to the Color Tab. Link the 3 colors, press Reset, and increment the setting 4 steps (with UP key) Check for 60 Hz frequency in the Monitor tab.

Since index-81 version of the control bay provides a second video input of the TFT, the F8 key allows to switch between internal (DVI, control bay) and external use (VGA, any 3rd party external device). If an adjustment of the analog VGA interface is required, please refer to the on-screen interface manual of the board manufacturer. The on-screen control keys are accessible in the enhanced Vtest utility (needs to be started in expert mode)



Power Supply 89.20.2014

The Vista 7 Power Supplies provide 24V / 20A for bays and internal components (see Distribution Board for details). No voltage adjustment is required.

The supplies are locked to mounting rails and can be replaced as follows :



Power Supply 89.20.2017

The 89.20.2014 Supply has been replaced with the 2017 version.





2017 supplies are unmounted by removing 2 screws (A) and lifting the supply from the mounting rail (B).

disconnect primary



..... and secondary cable for replacing a power supply.

Spares are either available as single supply modules (89.20.2017) or with the mounting frame (89.20.2017-V) which is comptible to the previous 2014 model (to be mounted on rail mechanism)



Hard Disk / CD Writer

The 2 redundant hard disks are installed in separate SilentDrive enclosures and mounted in a common frame below one of the fader bays. There are 2 versions of the frame, the newer one has an additional suspension for improved noise suppression.

The CD writer is located below the hard disks and attached to the frontpanel.



Frame A is locked to the bottom frame with a mounting lug (1) and attached to the front panel with 4 screws (2)



Frame B with additional suspension (3) is secured to the bottom frame with a mounting screw (4) and attached to the front panel with 4 screws (5)



For deinstalling the hard disk frame type B, the CD writer needs to be removed first.

Replacing the CD Writer

The CD Writer is located below the hard drives and attached to the frontpanel with 2 screws (3, see below). It can be replaced by removing these, disconnecting IDE and power cable at the writer's rear side (it might be necessary to remove HD frame for that purpose) and pulling it out to the front.

Replacing a Hard Disk

For replacing a disk proceed as decribed below in steps 1-4.



1. Switch off desk and unscrew the 4 front screw. You can then shift the frame back and lift it up

3 Refer to the SilentDrive Instructions for detailed information about hard disk replacement.



In case of frame type B, remove the CD writer first for loosening the bottom screw which holds the frame in place.

4. Re-install frame with disks and reattach IDE and supply cables.



2. Disconnect IDE cables at mother-board and supply cable at distribution board. Carefully take cables back and remove frame with disk enclosures.

Connection	
Board	
Distribution	
Vista	

S





1.949.152 Vista 8 Redundant Distribution Board Connections 11/2005 GR/KS







Only with redundant Power Option



5. Redundant PC (Vista 8)

A second redundant PC System is available as option.



11. 1. 05 ML

Wiring Diagram red. Control System Vista

Emergency switching is done with the corresponding key on the desk surface (near to power switches). A "soft switching" (only keyboard / trackball / video) for control purposes is achieved with the key combination "SHFT -" and "SHFT +".



6. Core

1.950.605.26	PEAES Board
1.950.606.22	PE21 Board
1.950.610.26	PE Board
1.950.616.20	MADI Board
1.950.621.20	Memnet Board

7. Monitoring

1.917.410.24	Monitor Group Selector
1.917.420.22	Talkback Selector
1.917.425.22	Signal Input Board
1.917.426.22	Signal Output Board
1.917.431.20	Headphone Amplifier Board
1.949.688.00	DA Board Monitoring



8. Vista File Structure

In here you will find a short description of the Vista file structure. Besides others, you will find the following files and folders on your harrdisk C:





Configurations

	Adi_DSP:	No user access. Contains files in order to generate
Adi DSP		new configurations
	D950Cfg:	Contains configuration editor and all its files. Includes
D950Cfa		a logfile.
	D950SystemDB:	Contains all configurations.
D950SvstemDB	Config1	This directory represents a configuration (named e.g.
		"Config1"), using a number of DSP cards to make a
		predefined console working. I wo of the included files
Config1		are needed in order to run the configuration on a real
		console: ^.vmc and ^.cor
old	Config1.vmc	I his file describes the structure of the console and all
Config1 ymc	Operfied oper	Its parameters
Config1.cor	Conlig L.cor	This life contains the DSP code for the core.
Config.ckf	Coniig L.CKI	This is a text file, which can be opened e.g. with the
Config1 ymc		information which parts of the concelle are actually
Config1 cor		running on which DSP cord
Config1.cef		This is a propert file, which stores the same
	Anyname.pre	information as a snapshot file. The difference is that
		this file is only accessible for reading for the normal
		user and that it exists per configuration (therefore is
astknownsession.ini		available across all titles belonging to one
		configuration) The system administrator has the
		access rights for creating, deleting or modiving a
		preset file.
	DeviceLabels.pre	This is preset file with a reserved name. It has the
	I	format of a standard preset file and contains basically
		the same information. If the option "Use Device
		Labels" is switched on, this file gets read – with its
		patch USER labels interpreted as DEVICE LABELS.
		This happens whenever a title is opened. This
		means: When opening a title with the device label
		option activated the USER label of this file will
		overwrite the INHERITED labels (device labels) of
		the opened title.
	Lastknownsession.ini	Stores information about last used configuration and
		title when closing the application software.

Vista





WinNT

WinNT System32 atl70.dll msvci70.dll msvcr70.dll psapi.dll D950System.ini D950CfgTool.ini	D950System.ini	 main .ini file. Stores: hardware configuratin (which components are present and which RS422 port is used for what) system administrator password maximum mix file size 9Pin settings: Whether ADR commands should be done by the machine controller internally or whether the console does it (risk of not being too accurate) Whether the machine should stop looping after recording with autorecord once. Whether to send no record commands at all, Edit on/off or "crash record" Whether it is allowed to cross time 0:00:00:00 when locating and working with offsets.
	Debucigroui.ini	

Vista Admin Tools

	Rare! For bays w	ith VGA interfaces only!!! :
Vista Admin		This directory contains two versions of Vcal.exe file, which are
Tools		necessary, if the console is equipped with analog VGA screens.
		(Very early consoles and some remote bays.)
Rare!	Bardecxx.ttf	Downloadable firmware file (reserved name, xx specifies version number)
bardecxx.ttf	Kakaduxx.ttf	Downloadable firmware file (reserved name, xx specifies version
kakaduxx ttf		number)
xDosxx.H86	xDosxx.H86	Downloadable firmware file (reserved name, xx specifies version number)
VBackup.exe VCal.exe	Vbackup.exe	Backup script in order to make an image of the whole harddisk
Vfwupd.exe	Vcalexe	Tool to adjust LED and TET brightness
VTest.exe	Vfwupd.exe	Tool downloading firmware into Vista desk. Checks for newest version of Bardecxx.ttf, Kakaduxx.ttf, xDosxx.H86 in the same directory, verifies currently loaded firmware and manages download.
	VTest.exe	Tool to check functionality of Vista desk hardware as well as calibrate faders and/or joysticks.



D950System		
D950System	USERS:	Contains various subdirectories. Each directory represents one user and his option files and maybe his individual clipboard
USERS MyClipboardLib	MyClipboardLib	Contains multiple sets of clipboard settings for copying into channels. This directory may also be located within the directory of an individual user, depending on where the operator
MyClipboard1.cpy MyClipboard2.cpy John MyOptions1.mop	MyClipboard1.cpy	decided to store the library. clipboard file storing clipboard data. The following data or combinations of them may be contained within one file: EQ, Filters,
MyOptions2.mop	lohn.	channel
MyOptions1.mop MyOptions2.mop d19devicesTemplate.ini d19devices.ini	MyOptions1.mop D19devicesTemplate.ini D19devices.ini	contains validas mix option nice and our disc contain clipboard libraries. Mix option file, containing a set of mix options. template file for D19devices.ini file contains definitions of studer microphone proamplifiers connected to a specific
D950Ofla.mop D950MonResources.ini SigVistaTemplate.ini	D950OflaResources.ini D950Ofla.mop	installation No User Access! Contains current mix options. If deleted,
SigVista.ini MonVistaTemplate.ini Mon <i>Anyname1</i> .ini shutdown.pfc shutdown.mon	D950MonResources.ini SigVistaTemplaet.ini SigVista.ini	No User Access! template file for SigVista.ini file signalling file, contains definitions of GPI/O, DIM logic and remote controllable TALK and
shutdown.tst d950system.log vista.log vista.ini staticautomation.ini	MonVistaTemplate.ini MonAnyname1.ini	template file for MonAnyname1.ini monitoring file, defining CR monitoring format, Studio A/B, Digital Insert, software popup extension for source selectors as well as the definition of the source selectors and their sources. DIM level is also specified in this file. There can be various versions of this file. Each title remembers which file was leaded when it
	Shutdown.pfc	 was closed last. stores last preferences such as positions of windows, position of toolbar etc. This file also stores the names (!) of interface subclasses! Included are also: TC offsets and reader settings, setting of "Auto Select" in General Patch targets, device label option settings and (on D950 only) setting of GC multidesk group if present. This file may exist multiple times with user names and the ending .pfc. Since Shutdown.pfc gets overwritten everytime the application is quit, it is wise to keep a version of it with user preferences under a special
	Shutdown.mon	name. stores the last settings of the monitoring when shutting down application software.
	Shutdown.tst	stores last timecode related settings when shutting down application software
	D950system.log	stores a log file with various information for studer service & support.
	Vista.log	stores a log filewith various Vista related



information for studer service & support
hold information, which are specific to that
desk, independent of titles etc. This file must
not be edited manually. All information is
stored by the application software (setup
menus).
Stored information:
 Duration for detection of momentary key activation
- Timeout for operations with multiple steps
(e.g. copy/paste)

- -
- Jog and shuttle sensitivity Headroom of meters. (Where does the headroom indication start.)
- Peak hold state with threshold setting
- Overload hold state -
- State of use of monitoring keys as -PEC/DIR switching

stores global static automation options. Stored information:

- Crossfade switch position (beginning, during, afer crossfade)
- Default snapshot mask -
- Trim mode active _

Vista.ini

StaticAutomation.ini



	mdesk1:	directory contains all snapshots of a specific
D950Projects	MyChanabatt ann	ulle. stores all sudio asttings of a deale
	MySnapshot I.snp	stores all audio settings of a desk
	MySnapshot1.snp.msk	stores a mask, dedicated to the snapshot,
Project1		making the snapshot a "partial" snapshot. It also
110jeet1		contains snapshot crossfade time of the
		corresponding snapshot.
	MyMix2:	a mix directory contains one file with the ending
	2	".mt", which stored the structure of the mix tree.
		and many mix pass files. Each mix pass file
mdosk1		contains ALL mix data up to that specific pass. It
		is therefore possible to use one mix file and
MySnapshot1.snp		nlavback a whole mix
MySnapshot1.msk	My/Title1 app	playback a whole mix.
MySnapshot2 msk	My Hue LShp	stores a snapshot when leaving the title upon
		shudown or title change
	Mylitle1.stp	nistorical file, no function
	My litle1.cue	stores all cue points (timecode markers) which
		are generated in that tile
	MyTitle1.mon	stores last monitoring settings when leaving this
MvMix2.mt		title upon title change or shutdown of system.
<i>MyMix2-001</i> .mix	MyTitle1.sig	stores specific GPIO settings such as faderstart
<i>MyMix</i> 2-002.mix		and redlight definition of that specific title.
MyMix2-003.mix		(Definitions are done the the GC application.)
MyTitle1 spp	MvTitle1.tit	Stores title memo text and which monitoring file
MuTitle 4 str	, ,	will be loaded when opening this title.
	MvTitle1 trk	no function (historical file)
MyTitle1.cue	StandardStrinSetup xml	stores strip setup. Standard name if no other is
MyTitle1.mon	olandardolinpoolap.xiii	aiven
MvTitle1.sig	MyStripSotup yml	stores strip setup with user defined name. The
	MyStripSetup.xim	reference, which strip actup file was used with
		thet exectly title is stored in the title in file
		that specific title is stored in the title. In the
StandardStripSetup.xml	MyProtectionSet1.pck	Object picker file. When doing any set of objects
MyStripSetup.xml		with the object picker (e.g. for protecting certain
MvProtectionSet1.pck		objects from being dynamically automated), this
		set can be stored under any name with the
		ending ".pck".
Staticautomation.perr	MyTitle1.ini	stores all kind of information regarding this title:
		 last active mix tree
		 last active strip setup
		- monitor meter assignments
		- whether red LED should indicate clipping or
		"entering headroom"
		- whether strip setup window shows interited
		labels
		- definition of channels which are save from
		muting when hitting "solo in place"
		maning when many solo in place

Staticautomation.perf

- selected label type on second line of desk label display when leaving this title.
- label display when leaving this title.
 Selected mode PFL/SOLO/SIP when leaving this title.

stores current performance mask and protected patch points