

Installation Manual

RADIOVIDEOGRAPHY SENSOR



Managing Editor: Francesco Combe

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CSN Industrie S.r.I – Via Aquileja, 43/B, 20092 Cinisello Balsamo – MI Tel. +39 02 6186111 – Fax +39 02 6129 0676 – e-mail: <u>export@csn-industrie.it</u>



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1. CSN OS INSTALLATION WITH WINDOWS XP

First insert the CD, provided with the radio video X-Ray system, in your computer CD Unit, wait for a moment and the installation menu will automatically start. This menu allows installing the CSN OS^{\circledast} Software.



pic. 1

Select **"Program Installation"** from this menu. Then click on **"Next"** to proceed with the installation.





Select	Create a	a desktop	icon and	click	on Next

1	Setup - CSN 05
	Select Additional Tasks Which additional tasks should be performed?
	Select the additional tasks you would like Setup to perform while installing CSN OS, then click Next.
	Additional icons:
	✓ Create a desktop icon
	< Back Next > Cancel

pic. 3

During the software loading, a band of increments appears, indicating the installation state.

COLOR DE COL	
Please wait while Se	up installs CSN OS on your computer.
Extracting files	
C:\Windows\SysWC	W64\SentinelKeyW.DLL

pic. 4

Once the installation has been completed, a new window confirms the end of the software installation. Click on "**Finish**".





pic. 5

2. CSN OS INSTALLATION WITH WINDOWS VISTA

To install the software with Windows Vista, first of all disable the User account system control.

From "Start" menu (vista logo is positioned in the left lower part of the toll bar) select "Control Panel".



Now from Control Panel window, select "User Accounts".





pic. 7

Now select your user account, then click on "Turn User Account Control on or off".





pic. 8

Unselect "Use User account Control (UAC) to help protect your computer", then click on OK".



pic. 9

Now restart your Operative system, and proceed with the CSN OS[®] software installation, following the instructions in previous chapter (1).



3. CSN OS INSTALLATION WITH WINDOWS 7 - 32 o 64 bit

To install the software with Windows 7 first of all disable the User account system control.

From Start menu (logo of 7 is positioned in the left lower part of the bar select "Control Panel".



Then choose "Small icones " category on right top, in order to see all the icons on control panel





- • • 📓 🕨 Control Panel 🕨 🕶 🍫 Search Ω . Name Category Control Panel Home Classic View iSCSI Initiator Network and **Offline Files** Keyboard Mouse Parental Internet Options Sharing Ce... Controls -6 Power Pen and People Near Performance Personaliz. Phone and Printers Input Devices Me Informatio... Modem ... Options 9) 0 01 Programs Regional and Scanners and Problem Security Sound and Features Language ... Reports a ... Cameras Center Sync Center Taskbar and System Tablet PC Text to User Welcome Settings Start Menu Speech Accounts Center -Windows Windows Windows Windows Windows Windows CardSpace Defender Firewall Sidebar .. SideShow Update

Now from Control Panel window, select "User Accounts".

pic. 12

Now select the new user account you created and click on the left bar "Change User Account Control Settings".







Now move the cursor down to the end where you see "Never notify" and then press Ok.

Choose when to be notified about changes to your computer

User Account Control helps prevent potentially harmful programs from making changes to your computer. Tell me more about User Account Control settings





pic. 14

Now restart your Operative system, and proceed with the CSN OS[®] software installation, following the instructions in previous chapter (1).



4. RX4 HARDWARE INSTALLATION

RX4 radiovideography system consists of one part only, where one side ends with the sensor and the other ends with USB connection.





5. RX4 HARDWARE INSTALLATION WITH WINDOWS XP

(Some windows may be different if you use a PC or a laptop)

If CSN OS cd is still inside the pc, you should start the **Setup** otherwise please put it into the pc and wait for the installation window, then click on "**Drivers Installation**" (pic.16).



pic. 16

Then click on "RX4 for 32 bits O.S."



pic. 17

In this way you start the sensor drivers installation. You will see first a loading procedure window (pic.18), then you have to click on **OK** (pic.19)



After having clicked on **OK** the real driver installation procedure will start, in this case click on "Next >"

amamatsu driver for 511684	DEMO - InstallShield Wizard	
	Welcome to the InstallShield Wizard for Hamamatsu driver for S11684DEMO	
	The InstallShield Wizard will install Hamamatsu driver for S11684DEMO on your computer. To continue, click Nex	t
	< Back Next > Cancel	

Then choose "Yes" (pic. 21) and in the following window click on "Next >" (pic. 22)









Wait for the end of installation (pic. 23) and then click on "Finish" (pic. 24)



Now you can connect the sensor to the USB port of your PC (pic. 25)



As you are working on Windoxs XP, once the sensor is connected it will be not automatically recognized by the system, so a windows informing about a new peripheric connection will appear.



The window "Found new hardware Wizard" will then appear (pic. 26).



pic. 26

On this window select the third voice "No, not this time" and Click on "Next".



pic. 27

Now select the first voice "Install the software automatically" and now click on "Next".



Wait for the end of installation.

Attendere. Installazione del software in	COI\$O		EX.
Intra-oral X-ray image sensor			
WinUSBCoInstaller2.dll		D	
	< Indietro	Avantis	áppulla

pic. 28

At the installation end, a window confirming the correct loading will appear. Click on "Finish" to definitely finish the procedure.



pic. 29

Once the sensor drivers are loaded, it is necessary to proceed with the configuration of the operating system to ensure efficient performances of RX4 sensor.



From Start button open the function : **Control Panel** (pic. 30), then select **System** *If the item doesn't appear click on* **Switch to Category View** (pic. 31).



Now select Hardware (pic. 32) and then Device Manager.

System Properties	×
System Restore Automatic Updates Remote	ļ
General Computer Name Hardware Advanced	4
Device Manager The Device Manager lists all the hardware devices installed on your computer. Use the Device Manager to change the properties of any device. Device Manager	
Drivers Driver Signing lets you make sure that installed drivers are compatible with Windows. Windows Update lets you set up how Windows connects to Windows Update for drivers.	
Driver Signing <u>W</u> indows Update	
Hardware Profiles Hardware profiles provide a way for you to set up and store different hardware configurations. Hardware <u>Profiles</u>	
OK Cancel Apply	
pic. 32	

A new window will now appear.



In the bottom part of the peripheric list you will see a category named **USB Imaging device**; inside it will have the name with which you installed the sensor **Intra-oral X-ray image sensor** (pic. 33). (if the item is put in evidence by a yellow question mark, the driver is not correctly loaded, install it again, following the "Sensor Installation Manual").





From the same menu, select the "+" to the left of the item **Universal Serial Bus controller and a** new item will appear (pic. 34).



pic. 34



Now the Hub USB and the trademark of the USB ports are displayed.

With reference to the trademarks of the USB ports, the certified ones for a proper operation of the sensor are the Intel and Via Tech; if they are Alì, Open or Sys maybe the sensor must be used with supplied HUB USB.

Among the items, the item **USB Root Hub** will appear several times, double click on that item and select power saving.

Now deselect Allow the computer to turn off this device to save power, then click on OK (pic. 35). This operation must be repeated for all the USB Root Hub items.



pic. 35

Now close all the opened windows and go back to the "**Control Panel**" described in the first page of this manual. Now select "**Power Options**" (pic. 36).



pic. 36



In the following window, in all the fields select Never, then click on OK (this window may be different if you use a PC or a laptop).

Power Options Propertie	s				? ×
Power Schemes Advance	ed Hibernat	e UPS			
Select the pow this computer. I the selected so	er scheme wit Note that chai cheme.	h the m nging th	ost appropri e settings b	ate settir elow will	igs for modify
Power schemes					
Home/Office Desk					•
		<u>S</u> av	e As	<u>D</u> ele	te
Settings for Home/Offic	e Desk powe	r schem	e		
I urn off <u>m</u> onitor:	Never				
Turn off hard disks:	Never				•
System s <u>t</u> andby:	Never				•
L	OK		Cancel		Apply
	pic.	37			

The operative system configuration for the correct sensor operation now is completed.



6. RX4 HARDWARE INSTALLATION WITH WINDOWS VISTA 32 o 64 Bit

(Some windows may be different if you use a PC or a laptop)

If CSN OS cd is still inside the pc, you should start the **Setup** otherwise please put it into the pc and wait for the installation window, then click on "**Drivers Installation**" (pic.38).



pic. 38

Then select the driver according to the operating system, if 32 bit or 64 bit.



pic. 39



In this way you start the sensor drivers installation.

You will see first a loading procedure window (pic. 40), then you have to click on OK (pic.41)



pic. 40

pic. 41

After having clicked on OK the real driver installation procedure will start, in this case click on "Next >"

Intra-oral X-ray image sensor -	InstallShield Wizard	23
E.	Welcome to the InstallShield Wizard for Intra-oral X-ray image sensor	
	The InstallShield Wizard will install Intra-oral X-ray image sensor on your computer. To continue, click Next.	
	≪Back Next > Canc	el

pic. 42

Then choose "Yes" (pic. 43) and in the following window click on "Next >" (pic. 44)





Wait for the end of installation (pic. 45) and then click on "Finish" (pic. 46)



pic. 45

pic. 46

Now it is possible to connect the sensor to the USB port of the PC (pic. 47)





Wait until the system automatically recognizes the device inserted (pic.48). At the end of the process the name of the peripheric will appear (pic.49).



Once the sensor drivers are installed, it is necessary to proceed with the configuration of the operating system to ensure efficient performances of RX4 sensor.



From **Start** button open the function : **Control Panel** (pic. 50), then select **System** (pic. 50a) *If the item doesn't appear click on Switch to Category View* (pic. 50b).

Control Panel	Sync Center	System	Tablet PC Settings	
Default Programs	3			Control Panel >
Help and Support	Windows	Windows	Windows	Control Panel Home Classic View
	CardSpace	Defender	Firewall	
Pic. 50		Pic	.50a	pic. 50b

Now select Device Manager.



A new window will now appear.



In the bottom part of the peripheric list you will see a category named **USB Imaging device**; inside it will have the name with which you installed the sensor **Intra-oral X-ray image sensor** (pic. 52). (if the item is put in evidence by a yellow question mark, the driver is not correctly loaded, install it again, following the "Sensor Installation Manual").

Disk drives		
👂 🔩 Display ada	pters	
DVD/CD-RC	OM drives	
Floppy disk	: drives	
Floppy driv	e controllers	
👂 🕼 Human Inte	erface Devices	
DE ATA/AT	TAPI controllers	
Keyboards		
Mice and o	ther pointing devices	
Monitors		
Network ad	lapters	
Ports (COM	1 & LPT)	
Processors		
Sound, vide	eo and game controllers	
Storage cor	ntrollers	
👂 📳 System dev	rices	
a 🏺 Universal Se	erial Bus controllers	
🛛 🖣 Generic	USB Hub	
🏺 Intel(R)	82371AB/EB PCI to USB Universal Host Controller	
- 🖉 Standar	d Enhanced PCI to USB Host Controller	
USB Co	mposite Device	
USB Roo	ot Hub	_
USB Roo	ot Hub	
a 📲 USB imagin	ng device	
Intra-or	al X-ray image sensor	
	mia EQ	

pic. 52

Now the Hub USB and the trademark of the USB ports are displayed.

With reference to the trademarks of the USB ports, the certified ones for a proper operation of the sensor are the Intel and Via Tech; if they are Alì, Open or Sys maybe the sensor must be used with supplied HUB USB.

Now close all the open windows and go back to the function Control Panel described in the first page of this manual.Select Power Options.





In the following window select "Change plan settings".

Control Panel +	Power Options	✓ ★ Search
Require a password on wakeup Choose what the power button does Create a power plan	Select a power plan Power plans can help you maximize your active by selecting it, or choose a plan an <u>about power plans</u>	computer's performance or conserve energy, d customize it by changing its power settings,
Choose when to turn off the display Change when the computer sleeps	Preferred plans	Energy savings: 000 Performance: 000
	Power saver Change plan settings	Energy savings: 000000 Performance: 00
- te	High performance Change plan settings	Energy savings: •• Performance: ••••••

Now select **Never** where marked and then click on **Save changes**.

Change settings for the	e plan: High per	formance		
Choose the sleep and display	settings that you wa	nt your computer	to use.	
T				
I urn off the display:	Never	•		
Put the computer to sleep	Never	•		
<u>C</u> hange advanced power setti	ngs			
Restore default settings for thi	is plan			

The configuration of the operating system for the correct sensor functioning is now concluded.



7. RX4 HARDWARE INSTALLATION WITH WINDOWS 7 - 32 or 64 bit

(Some windows may be different if you use a PC or a laptop)

If CSN OS cd is still inside the pc, you should start the **Setup** otherwise please put it into the pc and wait for the installation window, then click on "**Drivers Installation**" (pic. 56).



pic. 56

Then select the driver according to the operating system, if 32 bit or 64 bit.(pic. 57).



pic. 57



In this way you start the sensor drivers installation. You will see first a loading procedure window (pic. 58), then you have to click on **OK** (pic. 59)



pic. 58

pic. 59

After having clicked on **OK** the real driver installation procedure will start, in this case click on "**Next** >"

Intra-oral X-ray image sensor -	InstallShield Wizard	23
E.	Welcome to the InstallShield Wizard for Intra-oral X-ray image sensor	
	The InstallShield Wizard will install Intra-oral X-ray ima sensor on your computer. To continue, click Next.	je
	< Back Next> Ca	ncel

pic. 60

Then click on "**Yes**" (pic. 61) and "**Next** >" in the following window (pic. 62).



Wait for the end of installation (pic. 63) and then click on "Finish" (pic. 64)





pic. 63

pic. 64

Now it is possible to connect the sensor to the USB port of the PC (pic. 65)



pic.65

Wait until the system automatically recognizes the device inserted (pic. 66). At the end of the process the name of the peripheric will appear (pic. 67).



Once the sensor drivers are installed, it is necessary to proceed with the configuration of the operating system to ensure efficient performances of RX4 sensor.



From **Start** button open the function : **Control Panel** (pic. 68), then select **System.** If the item doesn't appear click on right top on category **View by: small icons** (pic. 69).



Now select **Device Manager** in the left top part.



A new window will now appear.



In the bottom part of the peripheric list you will see a category named **USB Imaging device**; inside it will have the name with which you installed the sensor **Intra-oral X-ray image sensor** (pic. 71). (if the item is put in evidence by a yellow question mark, the driver is not correctly loaded, install it again, following the "Sensor Installation Manual").







From the same menu, select the arrow the left of the item **Universal Serial Bus controller** and a new item will appear (pic. 72).



pic.72

Now the Hub USB and the trademark of the USB ports are displayed.

With reference to the trademarks of the USB ports, the certified ones for a proper operation of the sensor are the Intel and Via Tech; if they are Alì, Open or Sys maybe the sensor must be used with supplied HUB USB.

Among the items, the item **USB Root Hub** will appear several times, double click on that item and select power saving.



Now deselect **Allow the computer to turn off this device to save power**, then click on **OK** (pic. 73).

This operation must be repeated for all the **USB Root Hub** items.



pic. 73

Now close all the opened windows and go back to the "Control Panel" described in the first page of this manual. Now select "Power Options" (pic. 74).





In the following window select **Change Plan Settings**, in order to view the combination High Performance.

Power plans can help you maximize your computer's perfor selecting it, or choose a plan and customize it by changing i plans	mance or conserve energy. Make a plan active by its power settings. <u>Tell me more about power</u>
Preferred plans	
Balanced (recommended)	Change plan settings
Automatically balances performance with energy con-	sumption on capable hardware.
High performance	Change plan settings
Favors performance, but may use more energy.	
Hide additional plans	•
Power saver	Change plan settings
Saves energy by reducing your computer's performan	ice where possible.
pic. 75	5
-	
ct High Performance and go to Change P	lan Settings.
ct High Performance and go to Change Pl Select a power plan	lan Settings.
ct High Performance and go to Change P Select a power plan Power plans can help you maximize your computer's perfor selecting it, or choose a plan and customize it by changing i plans	Ian Settings. mance or conserve energy. Make a plan active by its power settings. <u>Tell me more about power</u>
ct High Performance and go to Change P Select a power plan Power plans can help you maximize your computer's perfor selecting it, or choose a plan and customize it by changing i plans Preferred plans	lan Settings. mance or conserve energy. Make a plan active by its power settings. <u>Tell me more about power</u>
ct High Performance and go to Change Pl Select a power plan Power plans can help you maximize your computer's perfor selecting it, or choose a plan and customize it by changing i plans Preferred plans	lan Settings. mance or conserve energy. Make a plan active by its power settings. <u>Tell me more about power</u> Change plan settings
ct High Performance and go to Change Pl Select a power plan Power plans can help you maximize your computer's perfor selecting it, or choose a plan and customize it by changing i plans Preferred plans	Ian Settings. mance or conserve energy. Make a plan active by its power settings. <u>Tell me more about power</u> Change plan settings sumption on capable hardware.
ect High Performance and go to Change Pl Select a power plan Power plans can help you maximize your computer's perfor selecting it, or choose a plan and customize it by changing i plans Preferred plans © Balanced (recommended) Automatically balances performance with energy cons © High performance	Ian Settings. mance or conserve energy. Make a plan active by its power settings. <u>Tell me more about power</u> Change plan settings sumption on capable hardware. Change plan settings

Hide additional plans

Power saver

Saves energy by reducing your computer's performance where possible.

pic.76

•

Change plan settings



Now select **Never** where marked and then click on **Save changes**.

 Control Panel Power Option 	ns 🕨 Edit Plan Settings	✓ ⁴ → Search	٩
Change settings for the p Choose the sleep and display set	lan: High performance tings that you want your computer to us	se.	
🕑 Turn off the display:	Never		
Put the computer to sleep:	Never 🔹		
<u>Change</u> advanced power setting: <u>R</u> estore default settings for this p	s Ian		
		Save changes	Cancel

pic.77

The operative system configuration for the correct sensor operation now is completed.



8. PROGRAM CONFIGURATION AND USE OF RX4

Click on "Start", then "Programs", "CSN OS" and then "CSN OS" again to run the program (or click twice on "CSN OS" icon on the desktop).



At the first run the program will show a window of first installation regarding the destination disk for the archives; click on "**OK**" and wait.



Now the software will ask you to select your language for the software start (not all the languages indicated are available; in case of a language not available, the software will automatically start in English). Click on "OK" to go with the installation.

WARM	NING! You haven	't selected th	e language to	be used.	
	Selezionare	e la lingua / Please	select your langua	ige:	
	ENGLISH			•	
			r		
				ОК	Ca

pic. 80



Immediately afterwards another window will appear, regarding the finally directory of the patient and images archives; click on "**Yes**" and wait.

Ŵ	Confirm				
The folder C:\Ar now?	chiMED\Databas	se doesn't conta	in the datat	oase. Do you v	want to create it
	Yes Yes		No	*	Cancel

pic. 81

After this operation, an access verification window appears. Select "Admin" user and insert the default password **12345678**. Now click on **Access**

R	Access authentication	G
in database	C:\ArchiMED\Database	Access
User nar	me: (Admin	Forgotten
Passwo	rtd:	Change
		A Reset
	The initial password is: 12345678	Maintenance
		Cancel

pic. 82



Now, a new window asks you to edit a new password and then click on "OK".

	ambio della password	
cor password is expired.	Please insert a new one password.	
Old password	*****	Confirm



Edit again the new password and click on "**Ok**" and then click on **Access**. After the password editing, the software informs it is necessary to follow the software registration procedure. Click on **OK** in the demo reminder window.

Informations	
The application will work 37 times. Remember to activate it before expiration The application will work for 60 minutes.	
ēr	ок

pic. 84



IMPORTANT: NOTICE FOR REGISTRATION OF THE PROGRAM

When you have finished the installation of the program, you need to activate the software. For the activation of the software you need to connect the sensor to the computer, and charge the driver of the sensor (previous chapter)

When you have click on the **OK** button appears a new windows where you must write the name of the doctor (in the first row) and the address of the dental cabinet (second row) will appear.

	Passa all'attivazione tranite il codice della licenza d'uso	
Insert the licence You can't change anymore t	name and address he licence name after the software activation.	
User:	CSN Industrie	
Address: Cinisello B.mo - Italy		
Connect the RVG If you didn't install the device	device to this computer. I yet please cancel the activation procedure now and install the RVG device.	
Insert the installation CD in your	CD ROM reader and stop the installation procedure from the CD.	
Connect the RVG device to the	USB as indicated in the reference book.	
install all drivers for the RUS de	use form the metal state (1) Mease don't stop the metal state on other in	
Instal all drivers for the RVG de When Windows will show that t	vice from the installation CU. Hease don't stop the installation procedure. he new hardware is properly installed, you can start with the software activation.	

pic. 85

If the sensor is connected to the computer, and the driver is charged click on the RX4 button to activate the license.

If the activation process is done a new window, with the successfully activation appears. Click \mathbf{OK} and the software is unlocked.





From the Main menu, select the **Patient List** function on the lower side.



pic. 87

In this new window, select "**ADD NEW PATIENT**" in the left side; edit the patient name and surname, then click on **Save**.





After the patient registration, please select it from the function **SHOW LIST** and then click on **Open The images**.



Now we're ready to configure the RX4 sensor in the program.

From the new window please select the "Setting" function on the right lower part of this screen view.





Then select **RX4** from **Intraoral RVG1** in the left partDo not change the default data.Threshold (incident):450Threshold (end):0Integration:100

🚳 - Vroconazioni generati	RVG shararale 1
NivQ intracrale 1 NivQ intracrale 1 NivQ intracrale 2 Panimameo dentale Cone Bisan (TA/C Niedologia generale Niedologia generale Videocamena Videocamena Impostazione per 8D Salvari cambiamenti	Image: Image of the second

pic. 91

Click on **Save changes** to save everything. Now you are ready to acquire images, click on lower button **RAY X 1**.



In the lower left part of the screen, the sensor mode window appears. A red light indicates that the sensor isn't connected or the drivers aren't correctly installed. A green light indicates the system is ready to acquire the X-Ray.



Now you are ready to use radiovideografy sensor RX4.

For the different program functions, please refer to the "User Manual" enclosed in the installation CD-ROM packaging.