SeeSV-S205W User's Manual





1 Contents

1	Contents	1
2	Introduction of System	3
	2.1 Components of System	3
3	Hardware Installation	4
	3.1 Hardware Installation	4
	3.2 Status of Sound Camera Lamp	7
4	Software Installation	8
	4.1 Sound Camera Software Installation	8
	4.2 Sound Camera Software Activation	
	4.3 IP Config	
5	Software Functions	
	5.1 Software Mode	
	5.2 Control Buttons	
	5.3 Sound Camera Image	
	5.4 Image Threshold	
	5.5 Image Range	
	5.6 Image Average	
	5.7 Signal Graphs	
	5.7.1 Time Signal of Microphone	
	5.7.2 Power Spectrum of Microphone	
	5.7.3 Level Trend of Beampower	
	5.7.4 1/3 Octave Level of Microphone	
	5.8 Band Pass Filter	
	5.9 Graph Selector	
	5.10 Device Status Lamp	
	5.11 Setup	
	5.11.1 Data Folder	
	5.11.2 Open Data Folder	
	5.11.3 Prefix of Filename	
	5.11.4 Record Type	23
	5.11.5 Trigger Level	24
	5.11.6 Duration	24
	5.11.7 Product Type	25

SM Instruments Inc.	SeeSV-S205 User's Manual	Rev: 1.4.0
---------------------	--------------------------	------------

	5.11.8	Mic Gain	25
	5.11.9	Mic Channel	25
	5.11.10	Max/Min Level	25
	5.11.11	Overlay Mode	
	5.11.12	Transparency	
	5.11.13	Mirror Mode	
	5.11.14	Image Calibration	29
	5.11.15	Recording Advanced Setup	29
6	Software sho	ortcut keys	
7	Maintenance	and Troubleshooting	
	7.1 Sound	Camera Firmware Update	
	7.1.1 H	How to update Sound Camera Firmware	
	7.2 Modify	the focus of sound camera	32
	7.2.1 ⊦	low to modify the focus of sound camera	32
	7.3 Modify	the position of overlay image	33
	7.3.1	How to modify the position of overlay image	33
8	Specification	S	
9	Caution		35

2 Introduction of System

2.1 Components of System

Item	Description
	Portable sound camera.
	AC/DC Power Adaptor
	LEMO to LEMO Cable.(10m)
	RJ45 LAN Cable.(1m)

3 Hardware Installation

3.1 Hardware Installation





Take out the sound camera.
Main components of the system are shown here.



Parte Part Bits	Power switch.
parte Part	The power is turned on, press the button for 3 seconds.

3.2 Status of Sound Camera Lamp

Status	Description
	Not powered.
	Initializing (orange).
	Sound camera is ready to use (green).

4 Software Installation

4.1 Sound Camera Software Installation

Item	Description
OI를 ibin icense isupportfiles nidist.id isetup isetup isetup	Run "Setup.exe".
SeesV-S20x Destination Directory Select the primary installation directory. All software will be installed in the following locations. To install software into a different locations, click the Browse button and select another directory. Directory for SeeSV-S20x C:\\Program Files\\SecSV-S20x Browse Directory for National Instruments products C:\\Program Files\\National Instruments\\Products C:\Program Files\\National Instruments\\Products C:\Product Products C:\Product Products C:\Product Products C:\Product Products C:\Product Products C:\Product Product Products C:\Product Product Produc	Confirm destination directory and click "Next>>".
SeeSV-S20X Product Notifications Please read the following information about the configuration you have selected. Insteller Pro 1000 Network Interface Devices Instelling the NI-MAQk High-Performance Gig Usion Driver associates all Intel Pro 1000 network interface devices with the High-Performance Gig Usion Driver. If you do not want to use the High- Performance Gig Usion Driver installation option. IMAQdo>High-Performance 32-bit GigE Vision Driver installation option. Save File << Back Next.>> Cancel	Read Product Notifications and click "Next>>".



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NI M	
NATIONAL INSTRUMENTS SOFTWARE LICENSE AGREEMENT	
INSTALLATION NOTICE: THIS IS A CONTRACT. BEFORE YOU DOWNLOAD THE SOFTWARE AND/OR COMPLETE THE INSTALLATION PROCESS, CAREFULLY READ THIS AGREEMENT. BY DOWNLOADING THE SOFTWARE AND/OR CLICKING THE APPLICABLE BUTTON TO COMPLETE THE INSTALLATION PROCESS, YOU CONSENT TO THE TERMS OF THIS AGREEMENT AND YOU AGREE TO BE BOUND BY THIS AGREEMENT. IF YOU DO NOT WISH TO BECOME A PARTY TO THIS AGREEMENT AND BE BOUND BY ALL OF ITS TERMS AND CONDITIONS, CLICK THE APPROPRIATE BUTTON TO CANCEL THE INSTALLATION PROCESS, DO NOT INSTALL OR USE THE SOFTWARE, AND RETURN THE SOFTWARE WITHIN THIRTY (30) DAYS OF RECEIPT OF THE SOFTWARE (WITH ALL ACCOMPANYING WRITTEN MATERIALS, ALONG WITH THEIR CONTAINERS) TO THE PLACE YOU OBTAINED Y The software to which this National Instruments license ancline is SREVY-305	
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 I accept the above 2 License Agreement(s). 	
I do not accept all these License Agreements.	
<< Back Next>> Lancel	
🦉 SeeSV-S205 – 🗆 🗙	Confirm items for installing and click "Next>>".
Start Installation Review the following summary before continuing.	
Adding or Changing • NI Vision Run Time Engine 2013 SP1 .NET Languages Support Active's Support • NI-Intel3254; • NI /Intel3254;	
Save File << Back Next >> Cancel	

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Overall Progress: 2% Complete Overall Progress: 2% Complete </th <th>Installation is proceeding.</th>	Installation is proceeding.
Installation Complete	
The installer has finished updating your system. Some of the installed products require activation. Activate these products C Back Next >> Emish	
NI Activation Wizard	The NI vision run-time engine should be activated.
Welcome to the National Instruments Activation Wizard Complete the Activation Wizard to activate your product. Activation is the process of acquiring and applying an activation code. Image: Automatically activate through a secure Internet connection Image: Use a Web browser, email client, telephone, or fax machine to acquire an activation code Image: Apply one or more 20-character activation godes previously acquired for this computer	Connect PC to the internet and select " <u>Automatic-ally activate through a secure Internet connection</u> ". Click "Next>>".
Understanding the National Instruments Software License Agreement How can I move an activated product to a different computer? Help << <back next="">> Cancel</back>	

c m ⁰	
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NI Activation Wizard	Input the serial number of NI Vision Run-Time
	Engine in both boxes.
Enter serial numbers for the products you want to activate. You can find serial numbers on your product's Certificate of Ownership or packaging.	
Vision Acquisition Software August 2012 Vision Development Module 2011 Vision Run-Time	
Help <<< Back Next >> Cancel	
NI Activation Wizard	For members of "www.ni.com", select "User Profile
	Login". In this, "Continue without a User Profile" is
A National Instruments User Profile is required to activate your product. When you activate NI software using your User Profile, NI can better deliver benefits associated with software maintenance and support programs. Log in to your User Profile Email Password Forgot your password? Create a new User Profile Create a new User Profile Continue without a User Profile National Instruments Software Activation Privacy Statement Help	screenshot shown.
NI Activation Wizard	Input end user information.
Enter the following information to activate your products. If you provide an email address, you will receive confirmation of activation. First Name Last Name Organization Email (optional) INational Instruments Software Activation Privacy Statement	
Help << Back Next >> Cancel	

SWS	SM Instruments Inc.
ZIUL	SM Instruments Inc.

NI Activation Wizard	Activation is in process.		
Please wait while the Activation Wizard contacts National Instruments.			
Note: This process may take a few minutes. If the Activation Wizard cannot connect to ni.com, you will be able to select an alternate activation method.			
Help Cancel			
NI Activation Wizard	The NI vision run-time engine is successfully		
	activated. Click "Finish".		
Products Successfully Activated! The following products have been successfully activated. You may need to restart the associated products to use any need for Software August 2012 Vision Acquisition Software August 2012 Vision Development Module 2011 Vision Run-Time If you experience any problems, have any questions, or have feedback regarding product activation, visit the following website: niccom/activate Place Help <<8act Finish Cancel			
SeeSV-S20x Image: Computer to complete this operation, If you need to install hardware now, shut down the computer, if you choose to restart later, restart your computer before running any of this software, Restart Shut Down Restart Later	If this is the first time to install the software, you will be requested to restart the PC. Click "Restart". Software installation is complete.		

4.2 Sound Camera Software Activation

Item	Description
SeeSV	If the software is being installed for the first time,
See SV See SV Purchase See SV Online	the software license confirmation window will appear.
Open my browser to the online ordering page Activate SeeSV I have already purchased and would like to activate the product Evaluate SeeSV You have 30 days left in your evaluation period	Click the Activate seesy .
🗱 Exit	
SeeSV Activation SeeSV SeeSV Activating SeeSV is simple and quick. Please select an activation option: Activate SeeSV Online Linave a valid License D Activate Manually I will contact a support representative Activate From Another Computer I don't have an internet connection on this computer Me Back Me Back Me Kek	Click the "Activate SeeSV Online".
License ID and Password See SV Please enter your License ID and Password found on the CD Label or received through your email. Please enter your License ID: Where is my License ID? Please enter your Password:	Input to License ID & password in text box.
🗢 Back 💥 Exit Continue 📾	

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SeeSV Activation	×	Software is successfully activated and click the
c c.9	See SV Activation	"Continue".
Seesu	The activation was successful.	The sound camera is ready for use.
1	Product Activation Successful.	
	Continue 📫	



4.3 **IP Config**

Item	Description
Mocouth Lead 200 Pictures SectV Device Manager Macic Windows Virtual PC Games Mocouth Lead 200 Games Mocouth Lead 200 Games Mocouth Lead 200 Games Mack House Priorit 200 Games Prior Devices and Printers Mack House Prior Devices and Printers Mack House Prior Devices and Printers Mack Programs Halp and Support Mack Programs Mack Programs Mack Programs and Files Mack Programs Mack Programs Mack Programs Mack Programs Mack Programs Mack Programs Mack Programs Mack Programs Mack Programs	1. Open Network Connections by clicking the Start button, and then clicking Control Panel .
Adjust your computer's settings View by: Large cone * Adjust your computer's settings View by: Large cone * Mouse Second Other Mouse Network and Sharing Center Notification Area Icons Manager Notification Area Icons Manager NUTDIA 3E(01P) Marentic Controls.	2. Click the Network and sharing Center.
Control Panel Home View your basic network information Manage wireless networks SGHWANG-PC Change adapter settings SGHWANG-PC Stetings Stetings	3. Click "Change adapter settings".
(Vifi Connection · 4) Vetwork Connections · 4) Sear Organize · Disable this network device Diagnose this connection · · Disable this network device Diagnose this connection · · Not connected Not connected Network cable unplugged Intel(R) 62579LM Gigabit Network. Sear Vifi Connection Acoustics 2 Intel(R) Centrino(R) Advanced-1 P선 네트워크 연결 Net connected Network cable unplugged Intel(R) 82579LM Gigabit Network. Vifi Connect Virtual WiFi Miniport	4. Double Click "Wire connection".



Connect using: Intel(R) 82579LM Gigabit Network Connection Configure This connection uses the following items: Cient for Microsoft Networks Cient fo	5. Click the "Internet Protocol Version 4(TCP/IPv4)", and then click "Properties".
Transmission Control Protocol/Internet Protocol. The default uide area network ontocol that provides communication Internet Protocol Version 4 (TCP/IPv4) Properties @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @	 6. Click the "Use the following DNS server addresses", and then, write in the boxes. "IP address: 192. 168. 0. 102" "Subnet mask: 255. 255. 255. 0" "Default gateway: 192. 168. 0. 1" Click "OK". Tip: Except IP address last number 6, 10, and 90 % Can't use more than 2 devices at the same time.
OK Cancel OK Cancel Seessy >> Seessy >> Camera O DAQ O O	 7. Check connection to main body and pc. Turn on power. Wait until lamp of the main body turns green. 8. Run SeeSV software. Check lamp to DAQ and Camera.



5 Software Functions

Run the software and following screen will appear.



5.1 Software Mode

Select software mode using this button (Record or Replay). Selected mode can be confirmed by the color and icon of the button..

Button status	Description
	Record mode.
	Replay mode.

5.2 Control Buttons

Functions of each button are as follows.

Button	Function
	Play recorded data.
0	Stop (Record/Replay).
REC	Record data.
	Restore data file.
Ø	Convert data to movie file and save.
B	Save image as PNG (graphic) format.
0	Open the documents such as Application Guide, User's Manual, and
	Quick start Manual.

5.3 Sound Camera Image

Display the camera, beam power overlaid image and measurement information.



5.4 **Image Threshold**

Adjust the threshold level of the beam power which is displayed on the display window. Beam power below the threshold level will not be shown. If the current beam power is less than the threshold level, it will not be shown. When the threshold level is higher than minimum value of the image range, contour image will only include the values between maximum values of the image range and the threshold level.





5.5 Image Range

Adjust displayed range of the beam power level. ["Max beam power" - "Image Range"] will be presented.



Value	Meaning
Manual Scale	Manually select Max/Min level. Max/Min level is located in Advanced
	Setting.
0.01~10	Display beam power level between Max and (Max - adjusted value). If
	select 3, displayed level will be ["Max"~ "Max-3"].
Auto Scale	Adjust displayed level of beam power automatically.

5.6 Image Average

Adjust averaging of the beam power image.



Adjust	Description
None	No averaging.
Exp.1~Exp.49	Exponential average of adjusted number of images.
Linear	Linear image average.
9	Refresh image average.

5.7 Signal Graphs

Display time signal of the microphone, power spectrum, 1/3 octave and trend of beam power level. Use the Graph Selector control outlined in red to select the type of graph.



5.7.1 Time Signal of Microphone

Displays time history signal of the microphone selected.



5.7.2 Power Spectrum of Microphone

Displays power spectrum of the microphone selected. Adjust band pass filter using the two cursors. Adjusted range will be highlighted. Frequency range of the filter can be adjusted using the "Band Pass Filter" controls.





5.7.3 Level Trend of Beampower

Displays of the beam power level trend for 10 sec. The red-dotted line is the threshold, and orange-dotted line is the trigger level when the record mode is "trigger".



5.7.4 1/3 Octave Level of Microphone

Displays of the 1/3 octave band level of the microphone signal.



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5.8 Band Pass Filter

Adjusts the band pass filter of the beampower.

Band Pass Filter (Hz)		
Low Cutoff High Cutoff		
1475 🚽 2925		

5.9 Graph Selector

Selects graph to display.

	Power Spectrum
1	Time Signal
	Power Spectrum
	Level Trend
	1/3 Octave

5.10 **Device Status Lamp**



Displays the status of the connection of the sound camera.

Color	Description
0	Not connected.
	Connected.

5.11 Setup

Displays or hides items for settings.

Status	Description	
0	Threshold, Image Range & average, Band Pass Filter, Graphs, & Basic	
	Display Icons	
6	Path, Record, Sound Camera, Display Configuration, and Firmware	
6	Update setting	
0	Image Calibration, Replay & Record Advanced setting, and DAQ status	
9	setting	





5.11.1 Data Folder

Defines path of the data file. This path will be the default setting for the following:

- Save data
- Open data file
- Save screenshot
- Convert/save movie

5.11.2 Open Data Folder

Opens the data folder.

5.11.3 Prefix of Filename

Sets prefix of filename to be saved. If the prefix is "SeeSV-S20x", the filename will be as following. "SeeSV-S20x_[yyyymmdd][HHMMSS].tdms"



5.11.4 Record Type

Sets record type.

- Normal: Continuously saves data when the "Record" and "Stop" buttons are pressed.
- Trigger: After the "Record" button is pressed, records data when it exceeds the trigger level of the beam power





5.11.5 Trigger Level

Sets trigger level.

5.11.6 Duration

Sets the recording time in seconds when the trigger is activated.



5.11.7 Mic. Channels

Sets number of Microphone channels

- One
- All





5.11.7 Product Type

Select model of sound camera being used.

- SeeSV-S205
- SeeSV-S200
- -

5.11.8 Mic Gain

Set the gain of the microphone. The range of gain is -10dB/0dB/+10dB/+20dB/+30dB.

5.11.9 Mic Channel

Select the microphone to be measured and displayed.

5.11.10 Distance (m)

Sets distance between a sound camera and noise source.

Display Configuration		
Overlay Mode	Transparency	
Rainbo	0.60	
Mirror	Text Color	
Overlay Text		

5.11.11 Max/Min Level

When the Display Range is set to User Scale, adjust Max Level and Min Level to be displayed.

5.11.12 Overlay Mode

Select color set of beam power.

Mode		Description
Gray	Rainbow	
Binary	Temperature	
Gradient		

5.11.13 Transparency

Set transparency of displayed beam power. 0 (opaque) \rightarrow 1 (transparent)

Value	Description
0.1	
0.9	

5.11.14 Mirror Mode

Show mirror image.

Status	Description
ON	
OFF	





5.11.14 Image Calibration

Show automatic image calibration.





5.11. 15 Replay Advanced Setup

Selects replay advanced setup.

- Audio Filter: Amplifying the volume from noise source when a user coverts t $\stackrel{\circ}{\leftarrow}$ file to avi file.
- Delete text Avi.: Removing text data on an avi file.





5.11.15 Recording Advanced Setup

Sets Recording Time up to 180 seconds.

DAQ Status
v1.3.1, S205, 04/08/15, 10:49:29, restart:0, OfI:0, con:1, Tre:20, Ttr: 40, cpu:17.1, mem:209.3,FFw:0, FFb:0, fh:7525, fl:2550, mg:100, ch0, ds:1.0, fifo_ovf:9

5.11.16 DAQ Status

Shows a sound camera device information.

6 Software shortcut keys

Shortcut	Function	
Ctrl+1	Display time history signal of the microphone.	
Ctrl+2	Display power spectrum of the microphone.	
Ctrl+3	Display trend graph of beam power level.	
Ctrl+4	Display 1/3 octave band graph of the microphone.	
Left Cursor	Move first cursor to left at time signal graph of review mode	
Right Cursor	Move first cursor to right at time signal graph of review mode	
Up Cursor	Increase image threshold.	
Down Cursor	Decrease image threshold.	

7 Maintenance and Troubleshooting

7.1 Sound Camera Firmware Update

7.1.1 How to update Sound Camera Firmware

Item	Description
Firmware Update	Run SeeSV software and then click the button.
SeeSV Firmware Update Program SeeSV Device Manager System Firmware Sound Camera Type Search SeeSV-S205 IP Address Pass Set IP 192.168.0.6 Close	Click the button "Firmware".
SeeSV Firmware Update Program	Click the button "Open".

Select a File to Open ▲ 정는 위치(0): 14 문시 ●	Select the firmware file which is distributed with the installation file. (*.scfw file)
SeeSV Firmware Update Program SeeSV Device Manager System Firmware Firmware Path Open F:\07.SeeSV Install\SeeSV-5205 Installer 1.5.1(Full)\SeeSV-5205 I.3.1 140825.scfw Update Close Close This Utility will update the sound camera system firmware. During the update procedure, sound camera device will restart. Before you continue, close SeeSV- S20x software. Do not interrupt this procedure once it begins. Do not disconnect the AC power source of sound camera. Update would takes few minutes. Interruption of the firmware update procedure will likely render your sound camera system Kernel Kernel	Click "Update" to start. Before proceeding and during the update. - Confirm the connection of sound camera. - Keep power on. - Keep connection of sound camera connected.
SeeSV Firmware Update Program SeeSV Device Manager System Firmware Firmware Firmware Path Open F:\07.SeeSV Install\SeeSV-S205 Installer 1.5.1(Full)\SeeSV-S205 1.3.1 140825.scfw Update Close	Update can take several minutes. Wait for notification popup before proceeding.





7.2 Modify the focus of sound camera

7.2.1 How to modify the focus of sound camera







.

7.3 Modify the position of overlay image

7.3.1 How to modify the position of overlay image



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Nervonsketij 0.00 second Display Kanjice O 2 db Threshold: 00 db Position (zw. 61.3 db) Position (zw. 61.3 db)	After image improvement: Normal focus image.
Timage Average: None Exercise: Stories	(After using Image Calibration)
- Image Calibraion	Developer's menu is displayed by click the "ctrl +]"
× (m)	key. And Click "x(m) or y(m)" button manually. Or you can control image calibration by "Auto Cal".
-1 -0.5 0 0.5 1	
y (m) × (m)	
0.5− y(m) 0−	
-0.5 - Auto Cal	
-1-	
	Overlay image control method:
Konzelez (1. p. 7. k. d) La new Jene (1. k. f. k. d) La new Jene (1. k. f. k. d) La new Jene (1. k. f. k. d) Provide (1. k. d) Provid	 Click the Display control icon Auto Cal. Click center to overlay image. Drag and
C ↓ m) C ↓ m C ↓ m	drop position to noise source.
Rasker, Advanced Setue Advanced Setue Advanced Setue Advanced Setue Advanced Setue Advanced Setue Advanced Setue Advanced Setue	
Eccole Advanced Sciant	
Integration of Tools	
30. 10. 10. 10. 10. 10. 10. 10. 1	

8 Specifications

Microphone Array	
Microphone Type	Digital MEMS Microphone
Number of Microphones	30
Microphone Sensitivity	70 mV/Pa
Array Diameter	350 mm
Frequency Range (Full)	350 to 12000 Hz
Frequency Range (Recommended)	2000 to 10000 Hz
Measurement Distance	0.2 to 5.0 m (Recommended)
Weight	2.4kg
Data Acquisition and Processing	
Sampling Rate	25.6k S/s/ch
Image Update Rate	25 FPS
Imaging Algorithm	Beamforming (delay and sum)
Image Ranging	Automatic/Manual
Environmental Condition	
Operation Temperature	-20 to 50°C
Humidity	10 to 85 % RH

9 <CAUTION>

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.

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

This appliance and its antenna must not be co-located or operation in conjunction with any other antenna or transmitter.

A minimum separation distance of 20 cm must be maintained between the antenna and the person for this appliance to satisfy the RF exposure requirements.

CAUTION RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.

DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

- The product can be damaged by external shock.
- Please do not disassemble the product.
- Please check rated voltage when you charge the product. (for wireless camera model only)
- Please keep away from fire and liquid.

Insuring Indoor Use in 5.15-5.25 GHz Band (15.407 (ii))

FCC 15.407(ii) states: "For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi."