





Most Popular Topics

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Language Support



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	Arabic	Table of Contents	Internet connection required, results not guaranteed
	Chinese	Table of Contents	Internet connection required, results not guaranteed
	Deutsch	Table of Contents	Internet-Verbindung erforderlich, ergebnisse nicht garantiert
	English	Table of Contents	
	Espanol	Tabla de contenidos	Requiere conexion a Internet, los resultados no garantizados
	Francaise	Table des matieres	Connexion Internet requise, resultats non garantis
	Italiano	Indice dei contenuti	Richiesta una connessione Internet, I risultati non garantiti
	Japanese	Table of Contents	Internet connection required, results not guaranteed
	Korean	Table of Contents	Internet connection required, results not guaranteed
	Nederlands	Inhoudsopgave	Internetverbinding nodig, resultaten niet gegarandeerd
	Norske	Innholdsfortegnelse	Internett-tilkobling kreves, resultater Ikke Garantert
	Russian	Table of Contents	Internet connection required, results not guaranteed
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About this Document

Document Navigation

You can navigate through the documentation to specific topics using the menu, or step through sequentially using the Next and Previous arrowhead buttons. The Next button will step you from the current topic to the next topic at the same level unless the current topic has a sub-topic. If the current topic has a sub-topic, the Next button will step you into the first sub-topic. The Previous button works similarly, but in reverse sequence. Your current location within the document is shown as a "breadcrumb" trail at the top of each page under the document title. You can click on any level of the breadcrumb hierarchy to go that location. You can also use the following keyboard shortcuts:

ACTION	KEYSTROKE or BUTTON
Previous Page	Alt-p or 
Next Page	Alt-n or 
Up one level of the breadcrumb hierarchy	Alt-u












Links are shown in brown font.

Finding Information


This document includes a [Table of Contents](#), [Glossary / Index](#) and Google search on each page. You must be connected to the Internet in order to be able to use the Google search, and you can select whether to search VideoRay's online document library only (the default) or the Internet.

Document Conventions

Several symbols are used throughout this documentation to add emphasis and to assist in relocating important information. The following table describes these symbols and their uses.

SYMBOL	DESCRIPTION
	The Danger icon is used to indicate there is a potential risk of personal injury or death. Extra care should be taken to understand the risks, and all personnel should exercise caution. It may also be appropriate to warn others in the immediate vicinity.
	The Caution icon is used to indicate there is a potential risk of damage to the equipment or surrounding property. Personnel should receive training in the appropriate procedures before attempting to operate or maintain the equipment.
	The Do Not icon is used to indicate that an action or activity should NOT be performed.
	The Note icon is used to highlight a specific detail or point of information.
	The Tip icon is used to highlight a suggestion or recommendation.
	The Manual Cross Reference icon is used to link to reference material elsewhere in this document or in an external resource. To view the reference, click on the Manual Cross Reference icon.
	The Play Video icon is used to link to a video about the topic. To view the video, click on the Play Video icon.
	The Highlight icon is used to indicate that a section of text can be highlighted. Clicking on the icon will reload the page with the text highlighted. This may be useful for printing a page with highlights or to send someone a link to a page with specific text highlighted when they open the page. Try it here - click on this highlight icon. 
	The Hand icon is used to indicate an interactive element of the page. When you hover your mouse over the Hand icon, an image on the page will change to reflect the information in the text immediately prior to the hand icon. Try it here - hover your mouse over the following text and Hand icon to turn the Hand icon to the left blue: Interactive Text 

Document Customization - My_Notes

 This document has been developed to allow local online versions to be customized using the My_Notes feature. Users can add their own notes to each page. See the [Customizing this Document](#) page for more information about how to customize this document.

Beyond this Document

There is no substitute for experience and/or training, especially with respect to the real purpose for which you plan to use this equipment. We encourage you to explore options beyond the scope of these materials to expand your knowledge and skills necessary to support your applications. In addition to this documentation, VideoRay offers training and technical support and hosts a general user discussion forum and user image gallery.

We also realize that collectively, users of our products spend considerably more time operating our systems than we do ourselves. Users also encounter more diverse operating environments across an extremely broad range of applications. We highly value this vast experience base, and invite and encourage you to share your experiences and suggestions with us. Please feel free to contact us by any of the methods listed below.

Quality Commitment

VideoRay strives to design, manufacture, deliver and support the highest quality products and services, including this documentation. We have made every effort to ensure that this documentation is accurate and provides you with the most up-to-date information.

If you find any errors in this documentation or have suggestions for improvements, each page contains a "Help us improve this document" feedback link in the left margin (you must be connected to the Internet to use this link).

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Disclaimer

This document is deemed accurate at the time of its writing, however it is not a legal contract and the information contained herein should not be construed to represent any form of commitment. This document as well as the associated products and services are subject to change without notice.

Alternate Formats

Single HTML Page Format

This document is available as a [single HTML page](#) that can be viewed and/or printed by the viewer.

Portable / Printable Format

An abbreviated print version of this document is also available in [HTML](#) and PDF formats in [Letter](#) and [A4](#) sizes for viewing and/or printing. A free [PDF Reader](#) is available from Adobe. Printed versions of this document are available from VideoRay.

HTML File Set

This document set is also available for download as a [self extracting zip archive](#) for installation on your local device.

Customize this Documentation - My_Notes

My_Notes are easy to incorporate directly into the pages of this manual. They can be used to clarify content, add additional information, or document your custom settings, operational tactics or procedures. My_Notes are page specific and display at the bottom of the desired page under the "My_Notes" heading. No programming is required - it is as simple as saving a file with your notes.


Creating My_Notes


My_Notes can be written in HTML or plain text. HTML allows for more flexible formatting and inclusion of images or links to other web pages.

To add a My_Note, create an HTML or text file containing the note and save it in the VideoRay\My_Notes\ folder, which can be found in the computer account user's documents folder (Documents\ for Windows 7, or My Documents\ for Windows XP).

The file should be named the same as the page in which you want the note to appear, with a "my_" prefix (without the quotes). For example, if you want a My_Note to appear at the bottom of this page, the name of the file to create is: my_custom_my_notes.html. The name of the page being viewed can be found in the address bar of the browser being used to display this documentation.

 Even if you are using a text file, the file name must end with the ".html" extension.

 All My_Notes files are processed as HTML, so if you are using a plain text file, you will need to add "<pre>" (without the quotes) at the beginning of the file and "</pre>" (without the quotes) at the end of the file if you want to preserve the layout. The "<pre>" and "</pre>" will not show up in the display.

 When using HTML, the My_Notes folder serves as the root for relative links. An images folder is included for you to store images. You may add other folders or files as desired.

Viewing My_Notes

When you reload the page, your My_Note will appear - there is nothing else to install or configure. A sample My_Note file has been included to display the My_Note below. You can use this file as a model for creating your own My_Notes.

Updating My_Notes

To update a My_Note, simply edit and re-save the My_Note file.

Removing My_Notes

My_Notes can be removed by deleting or renaming the My_Note file.


Sizing My_Notes Display (Optional)

The default vertical size for My_Notes is set to 200 pixels, which is used for the sample My_Note below. Due to browser limitations, My-Notes do not size dynamically. This means that a long My_Note may display a scroll bar in order to view the whole My-Note. You can adjust the size to eliminate the need for the scroll bar. To set the size of a My_Note, you need to edit the file named "my_notes_size_table.js" in the My_Notes\ folder (location defined above). The file contains one line for each page of this document using the following format:

```
window.page_name = size_in_pixels;
```

Find the line for the page that includes the My_Note you want to resize and replace the value of *size_in_pixels* with the desired size in pixels. The page names are listed alphabetically. Example line from the "my_notes_size_table.js" file for this page:

```
window.custom_my_notes = 200;
```

 Note that ".html" is not included in the page name, and the line must end with a ";" Also, the optimum size required is dependent upon the size and aspect ratio of the browser window.

How to Get Help

Help for your Mission Specialist is available through several channels.

All Hours Self-Service / Crowd-Source Tools

Operator's Manuals and Standard Operating Procedures	www.videoray.com/support/manuals.html
Software Downloads	www.videoray.com/support/downloads.html
Frequently Asked Questions	www.rovfaq.com
ROV User Forum	www.rovinfo.com

Global Support

Email	support@videoray.com
Phone	+1 610-458-3000 (<i>select option 1</i>)
Skype	videoray.support (<i>by appointment</i>)
Remote Sessions	www.videoray.com/support/remote-support.html (<i>by appointment</i>)

Regional Support

VideoRay Authorized Dealers and Service Centers	www.videoray.com/dealer.html
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Training

Operator Training	www.videoray.com/learn-more/training.html
Advanced Maintenance Training	http://www.videoray.com/learn-more/training/advanced-maintenance-training.html

Operational Strategies and Tactics Support

If you need help understanding how to apply your system to a specific project, contact VideoRay or your local VideoRay dealer. We can provide guidance or help you find a certified consultant.

Before Contacting Support

Please make sure to consider the following information before contacting VideoRay's Technical Support to report a problem. The following information should be available:

- User name and contact information
- Name of the owner if not the same as the user
- System model
- Serial Number of the affected component(s)
- Accessories in use
- Detailed information about the issue:
 - Symptoms
 - Operating conditions that create the symptoms
 - Anything new or unusually about the system or operations

In addition, please review VideoRay's [Support website](#) for additional information about:

- Principles of Customer Interactions
- Customer Care Philosophy
- Technical Support Policy
- Accessory Support Statement

Defender Manuals

- [Defender Quick Reference Guide](#)
- [Defender Operator's Manual](#)

Pro 5 Manuals

- [Defender Operator's Manual](#)

Greensea Software

Greensea offers two reference documents:

- [Operator's Manual](#)
- [Greensea KnowledgeBase \(Internet connection required\)](#)



Supplemental Guides

Diagnostic Interfaces

- [Blueprint Oculus Sonar](#)
- [Blueprint Seatrac USBL](#)
- [Nortek DVL](#)
- [Video](#)

CAUTION Diagnostic interfaces also allow changes to the settings. Modifying the settings may result in unintended results including failure to operate.



Contact VideoRay for more information and support if you are interested in using these diagnostic interfaces.

Blueprint Oculus Sonar Settings

The Blueprint Oculus Sonar settings can be modified by using the BluePrint ViewPoint software. However, ViewPoint is only available on Microsoft Windows, so a separate computer is required.

Requirements

- Windows Computer
- Ethernet Cable

Procedures

See the Oculus Sonar documentation for more information.

1. Connect the Ethernet cable from the Mission Specialist Operator Control Console to the Windows computer.
2. Change the IP address of the computer to 192.168.1.3.
3. Start the Mission Specialist system, but do not start the Greensea software.
4. Start the ViewPoint software on the Windows computer.
5. Click on the Connect button in the ViewPoint software.
6. Click on the wrench icon to access the settings.

CAUTION Diagnostic interfaces also allow changes to the device's settings. Modifying the settings may result in unintended results including failure to operate.

Blueprint Seatrac USBL Settings

The Blueprint Seatrac USBL settings can be modified by using the BluePrint Seatrac software. However, Seatrac is only available on Microsoft Windows, so a separate computer is required.

Requirements

- Windows Computer

Procedures

See the Oculus Sonar documentation for more information.

1. Connect the deck cable from the Seatrac system to the Windows computer and the included power supply.
2. Start the Seatrac or Seatrac tools software on the Windows computer.

CAUTION Diagnostic interfaces also allow changes to the device's settings. Modifying the settings may result in unintended results including failure to operate.

Nortek DVL Settings

The Nortek DVL settings can be accessed using a web browser.

The address for the Nortek DVL settings is 192.168.1.50.

CAUTION Diagnostic interfaces also allow changes to the device's settings. Modifying the settings may result in unintended results including failure to operate.

Video Settings

The video settings can be accessed using a web browser.

The address for the primary video settings is 192.168.1.11.

CAUTION Diagnostic interfaces also allow changes to the device's settings. Modifying the settings may result in unintended results including failure to operate.