Oceanus Mini / Pro ROV system

Topside control case - baseplate overview

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Topside Anatomy

A. Topside Tether Connector

B. Bender Isometer

C. AC Power GFCI/Breaker

D. ROV Power Switch

E. PC Power Button

F. Topside Vent Port (x4)

G. AC Power In Connection Port (x1)

H. HDMI Out Port (x1)

I. USB Port (x2)

J. LAN Port (x1)

K. Oceanus Multi Port (x1)

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Oceanus Mini / Pro ROV system

Topside control case - baseplate overview

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A. Topside Tether Connector

Connect male end of ROV tether to the female connection receptacle of the Topside Tether Connector.

B. Bender Isometer

The Bender Isometer is an insulation monitoring device for DC systems. It will monitor the 400VDC going down the tether to the ROV.

C. AC Power GFCI/Breaker

The GFCI / Circuit Breaker protects the operator from shock from the AC circuit of the power source and protects the equipment from current overload.

D. ROV Power Switch

A gray colour two state switch responsible for powering up the ROV submersible.

E. PC Power Button

The PC Power Button can be a Red, or an illuminated Blue coloured button, that is responsible for powering up the PC within the topside control case.

F. Topside Vent Port

Strategically positioned vent ports ensuring the topside control unit works within an acceptable temperature range.

G. AC Power In Connection Port

receptacle port connecting AC power source to topside control case.

H. HDMI Out Port

The HDMI video out port allows users to view captured ROV video and image media on a screen or monitor via an HDMI connecting cable.

I. USB Port (x2)

One USB port is dedicated to connecting to the Oceanus ROV Hand Controller. An additional USB ports allow for accessories such as a USB wired keyboard, thumb drive, or other USB configured device.

J. LAN Port

Some accessories require the use of Ethernet to send data to the topside. The Topside has an integrated RJ45 Ethernet port which is linked to the Ethernet port on the ROV. The Ethernet data from your accessory is sent from the ROV to the topside and you can connect a computer or laptop using a standard network cable into the RJ45 port so that you can access the data being sent from your accessory. Different accessories have different IP address's so please refer to your accessories manual for full details and what software is required on your External PC.

K. Oceanus Multi Port

The Oceanus Multi Port (OMP) is an expansion port which allows the user to connect an external computer or processing unit to the Topside Control Case for direct interface with an accessory connected to the submersible.

Oceanus Mini / Pro Topside Control Case Specifications:

Panel Dimensions:	18.5" primary / and 10" secondary
Panel Weight:	~ 20.65 kg (45.53 lb) (*depending on options)
Power Input:	100 - 240 V AC
Computer:	Integrated, with Intel i7 CPU
Topside Data Storage:	1 TB solid state drive topside
Video Recording:	.MKV or MP4 video formats to PC hard drive
Video Out:	HDMI

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Oceanus Mini / Pro ROV system

Topside control case - video plate overview

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Topside Anatomy

L. Function Button (FN icon)

M. Left Arrow Button (◄ icon)

N. Up Arrow Button (▲ icon)

O. Down Arrow Button (▼ icon)

P. Right Arrow Button (► icon)

Q. Menu Button

R. Video Panel On/Off Button

S. OSD Switch (Top or Bottom)

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Oceanus Mini / Pro ROV system

Topside control case - video plate overview

L. FN Button

The FN button with the OSD Top/Bottom switches access functions within either topside display panel.

- FN Button + OSD Top to switch the 18.5" TFT display panel to red monochrome mode. Selecting the FN button + OSD Top combination a second time changes the 18.5" TFT display panel to daylight readable view.
- FN Button + OSD Bottom resets the 10" touch-sensitive TFT display panel to the original default settings.

M. Left Arrow Button

Directional arrows navigate through sub-menu options available when the Menu and OSD Top/ Bottom switch combination is selected to access either of the TFT display panels. The Left Arrow button navigates a cursor to the left.

N. Up Arrow Button

Directional arrows navigate through sub-menu options available when the Menu and OSD Top/Bottom switch combination is selected to access either of the TFT display panels. The Up Arrow button navigates a cursor up to the next sub-menu item.

O. Down Arrow Button

Directional arrows navigate through sub-menu options available when the Menu and OSD Top/ Bottom switch combination is selected to access either of the TFT display panels. The Down Arrow button navigates a cursor down to the next sub-menu item.

P. Right Arrow Button

Directional arrows navigate through sub-menu options available when the Menu and OSD Top/Bottom switch combination is selected to access either of the TFT display panels. The Right Arrow button navigates a cursor to the right.

Q. Menu Button

Select the Menu button in combination with the OSD Top/ Bottom switch to access user settings within the selected TFT panel display.

- Menu Button + OSD Up combination allows users to access the menu options specific to the 18.5" TFT display panel. Navigate through the menu choices using the arrow keys.
- Menu Button + OSD Down combination allows users to access the menu options specific to the 10" touch-sensitive TFT display panel. Navigate through the menu choices using the arrow keys.

R. Video Panel On/Off Button

The Video Panel On/Off button and OSD Top/ Bottom switch combination power the selected display panel on or off.

- Video Panel On/Off button + OSD Top combination controls the 18.5" TFT display On/ Off function.
- Video Panel On/Off button + OSD Bottom combination controls the 10" touch-sensitive TFT display On/Off function.

S. OSD Switch (Top or Bottom)

The OSD Top/Bottom switch is used with other buttons to access functions within either selected TFT display panel. OSD Top selection accesses features specific to the topside 18.5" TFT display panel. The OSD Bottom selection accesses features on the topside 10" TFT touch-sensitive panel display.

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3000 Series ROV system

Topside control case - baseplate overview

The 3000 Series topside component is part of the Oceanus P8 Pro and Ultimate ROV systems

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Topside Anatomy

A. Topside Tether Connector

B. Bender Isometer

C. AC Power GFCI/Breaker

D. ROV Power Switch

E. PC Power Button

F. Topside Vent Port (x4)

G. AC Power In Connection Port (x1)

H. HDMI Out Port (x1)

I. USB Port (x3)

J. LAN Port (x1)

K. Oceanus Multi Port (x1)

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3000 Series ROV system

Topside control case - baseplate overview

The 3000 Series topside component is part of the Oceanus P8 Pro and Ultimate ROV systems

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A. Topside Tether Connector

Connect male end of ROV tether to the female connection receptacle of the Topside Tether Connector.

B. Bender Isometer

The Bender Isometer is an insulation monitoring device for DC systems. It will monitor the 400VDC going down the tether to the ROV.

C. AC Power GFCI/Breaker

The GFCI / Circuit Breaker protects the operator from shock from the AC circuit of the power source and protects the equipment from current overload.

D. ROV Power Switch

A gray colour two state switch responsible for powering up the ROV submersible.

E. PC Power Button

The PC Power Button can be a Red, or an illuminated Blue coloured button, that is responsible for powering up the PC within the topside control case.

F. Topside Vent Port

Strategically positioned vent ports ensuring the topside control unit works within an acceptable temperature range.

G. AC Power In Connection Port

receptacle port connecting AC power source to topside control case.

H. HDMI Out Port

The HDMI video out port allows users to view captured ROV video and image media on a screen or monitor via an HDMI connecting cable.

I. USB Port (x3)

One USB port is dedicated to connecting to the Oceanus ROV Hand Controller. Two additional USB ports allow for accessories such as a USB wired keyboard, thumb drive, or other USB configured device.

J. LAN Port

Some accessories require the use of Ethernet to send data to the topside. The Topside has an integrated RJ45 Ethernet port which is linked to the Ethernet port on the ROV. The Ethernet data from your accessory is sent from the ROV to the topside and you can connect a computer or laptop using a standard network cable into the RJ45 port so that you can access the data being sent from your accessory. Different accessories have different IP address's so please refer to your accessories manual for full details and what software is required on your External PC.

K. Oceanus Multi Port

The Oceanus Multi Port (OMP) is an expansion port which allows the user to connect an external computer or processing unit to the Topside Control Case for direct interface with an accessory connected to the submersible.

Oceanus Ultimate Topside Control Case Specifications:

Panel Dimensions:	18.5" primary / and 10" secondary
Panel Weight:	~ 20.65 kg (45.53 lb) (*depending on options)
Power Input:	220 - 240 V AC
Computers:	Primary computer: Integrated, with Intel i7 CPU. Secondary computer: Elk Lake CPU running Windows 11
Topside Data Storage:	Primary computer: 2 Terabyte solid state drive Secondary computer: 256 GB SSD
Video Recording:	.MKV or MP4 video formats to PC hard drive
Video Out:	HDMI

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3000 Series ROV system

Topside control case - baseplate overview

The 3000 Series topside component is part of the Oceanus P8 Pro and Ultimate ROV systems

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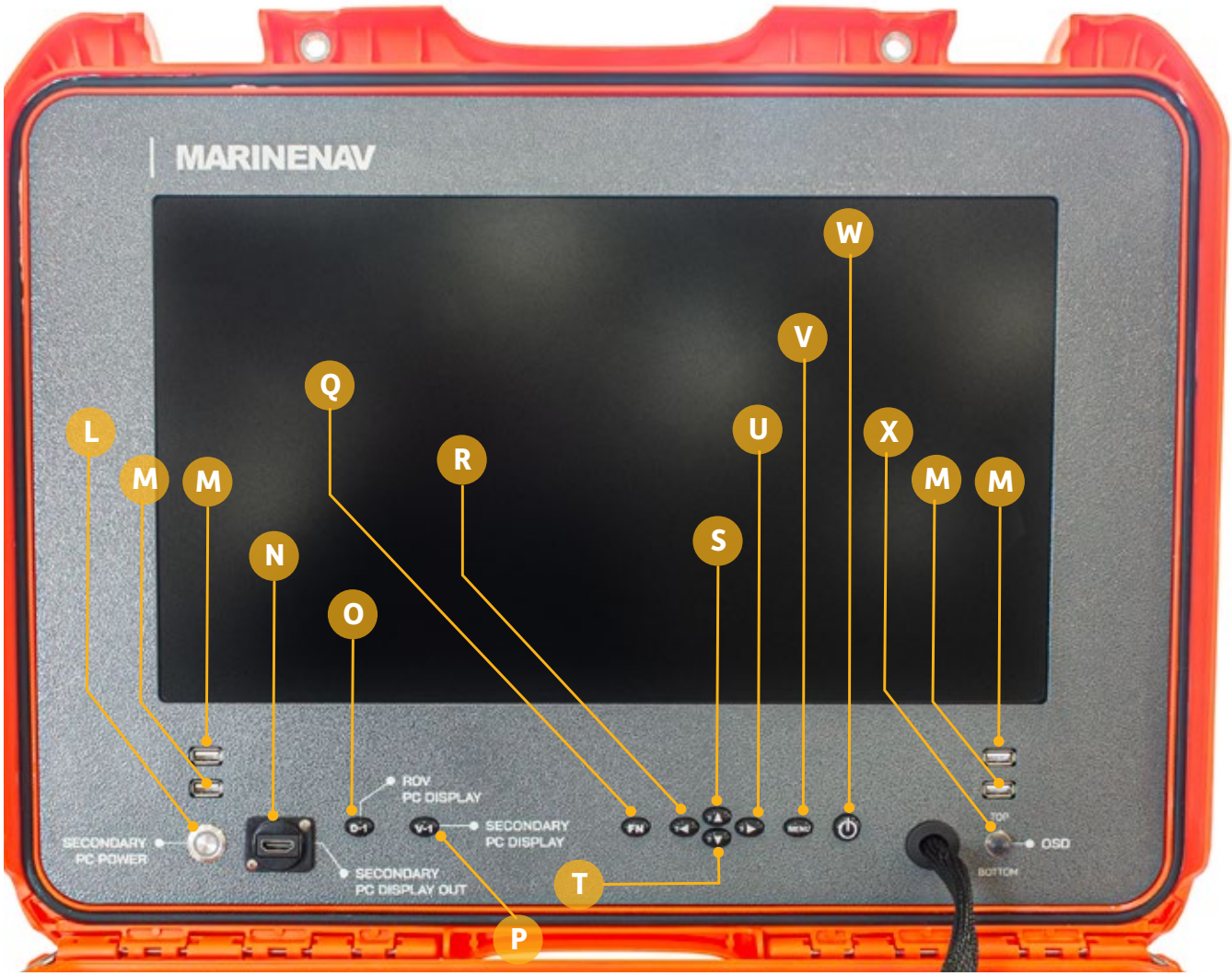

Topside Anatomy

L. Secondary PC Power Button

M. Secondary PC USB C Ports (x4)

N. Secondary PC Display Out

O. ROV PC Display Button (D-1)

P. Secondary PC Display Button (V-1)

Q. Function Button (FN icon)

R. Left Arrow Button (◂ icon)

S. Up Arrow Button (▴ icon)

T. Down Arrow Button (▾ icon)

U. Right Arrow Button (▸ icon)

V. Menu Button

W. Video Panel On/Off Button

X. OSD Switch (Top or Bottom)

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L. Secondary PC Power Button

A silver coloured button responsible for powering up the secondary PC within the topside control case. Part of the topside power up process.

M. Secondary PC USB C Ports

Four USB C ports that allow user to connect peripheral devices such as a computer mouse or keyboard or any ROV accessory requiring an USB connection (such as a GPS or USBL).

N. Secondary PC Display Out

A HDMI video output that connects an additional monitor to the windows 11 PC. Designate a main viewing monitor or spread desktop view from the secondary PC over two monitors.

O. ROV PC Display Button (D-1)

Selecting this button will display the ROV video feed to the topside's built-in primary video panel.

P. Secondary PC Display Button (V-1)

Selecting this button will display the Windows 11 PC desktop to the topside's built-in primary video panel.

Q. Secondary PC FN Button

When a secondary display is connected to the PC Display Out port a continuous selection of the PC FN button enables the user to toggle between monitor view options. Select either "Picture-in-Picture", "Side-by-Side" picture or "Full Screen" modes. If user selects "ROV Video feed" as the main display it will show the secondary Windows PC as Picture-in-Picture/Side-by-Side Picture when powered. If the Secondary PC is not powered on, you will see a blank Picture-in-Picture/Side-by-Side Picture box. Size and opacity of the PIP can be adjusted via the main menu button under PIP settings.

R. Left Arrow Button

Directional arrows navigate through sub-menu options available when the Menu and OSD Top/ Bottom switch combination is selected to access either of the TFT display panels. The Left Arrow button navigates a cursor to the left.

S. Up Arrow Button

Directional arrows navigate through sub-menu options available when the Menu and OSD Top/Bottom switch combination is selected to access either of the TFT display panels. The Up Arrow button navigates a cursor up to the next sub-menu item.

T. Down Arrow Button

Directional arrows navigate through sub-menu options available when the Menu and OSD Top/ Bottom switch combination is selected to access either of the TFT display panels. The Down Arrow button navigates a cursor down to the next sub-menu item.

U. Right Arrow Button

Directional arrows navigate through sub-menu options available when the Menu and OSD Top/Bottom switch combination is selected to access either of the TFT display panels. The Right Arrow button navigates a cursor to the right.

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V. Menu Button

Select the Menu button in combination with the OSD Top/ Bottom switch to access user settings within the selected TFT panel display.

- Menu Button + OSD Up combination allows users to access the menu options specific to the 18.5” TFT display panel. Navigate through the menu choices using the arrow keys.
- Menu Button + OSD Down combination allows users to access the menu options specific to the 10” touch-sensitive TFT display panel. Navigate through the menu choices using the arrow keys.

W. Video Panel On/Off Button

The Video Panel On/Off button and OSD Top/ Bottom switch combination power the selected display panel on or off.

- Video Panel On/Off button + OSD Top combination controls the 18.5” TFT display On/ Off function.
- Video Panel On/Off button + OSD Bottom combination controls the 10” touch-sensitive TFT display On/Off function.

X. OSD Switch (Top or Bottom)

The OSD Top/Bottom switch is used with other buttons to access functions within either selected TFT display panel. OSD Top selection accesses features specific to the topside 18.5” TFT display panel. The OSD Bottom selection accesses features on the topside 10” TFT touch-sensitive panel display.

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