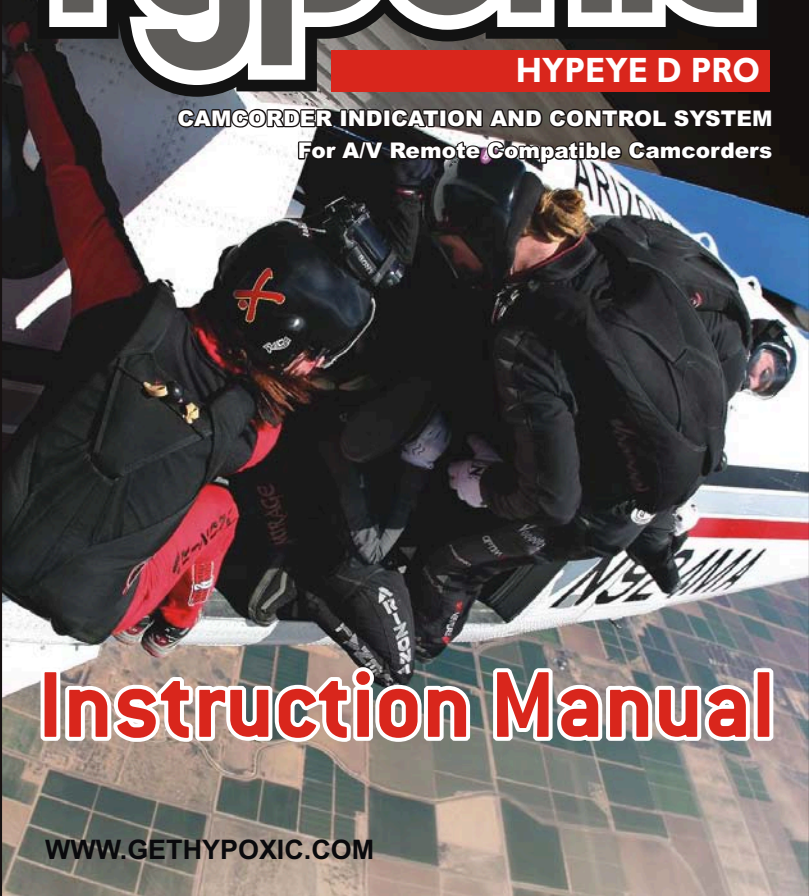


hypoxic

HYPEYE D PRO

CAMCORDER INDICATION AND CONTROL SYSTEM
For A/V Remote Compatible Camcorders



Instruction Manual

WWW.GETHYPOXIC.COM

Rev 1/English

Compliance

The HYPEYE D PRO is fully compliant with ROHS and WEEE regulations. Do not throw away the HYPEYE D PRO in the waste. Contact GET HYPOXIC LLC at service@gethypoxic.com for proper product disposal.

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EXTREME ELECTRONICS

GET HYPOXIC LLC
602.770.0480
support@gethypoxic.com
WWW.GETHYPOXIC.COM



Designed in USA Manufactured in China
Lead Free
Sony is a registered trademark of Sony Corporation

WARNING!

FAILURE TO FOLLOW ALL WARNINGS, INSTRUCTIONS AND REQUIRED PROCEDURES MAY RESULT IN SERIOUS INJURY AND DEATH.

The HYPEYE D PRO indicators are extremely bright. Do not stare directly into the indicators since it may cause damage to the retina even after short exposure. Follow the instructions to adjust the brightness for the particular environment.

Mount the HYPEYE D PRO indicator outside of the user's field of view.

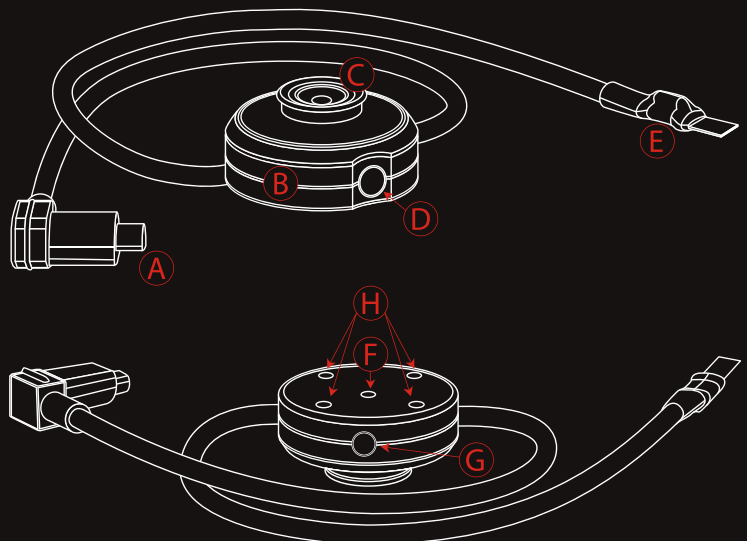
Skydivers: The HYPEYE D PRO can be connected to an audible altimeter. Follow the audible altimeter's safety warnings prior to use. By using this feature, the user acknowledges that this product has the chance of failing and should not be used as the primary altitude indicator.

Drilling, gluing, or in anyway modifying a helmet will change the protection it provides. Please follow all manufacturer guidelines before affixing the HYPEYE D PRO.

The HYPEYE D PRO is resistant against typical weather a skydiver may encounter. It does not protect against complete submersion in water or other liquids.

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The HYPEYE D PRO is the most comprehensive extreme sports camcorder controller and indication system on the market. The HYPEYE D PRO and its accessories are only for those individuals classified as "advance" participants in the sports they capture. New users should seek expert advice in his or her respective sport. With that said, let's **Get Hypoxic!**

Please read all instructions prior to using.



Please contact Get Hypoxic LLC with any questions, comments, or concerns at:

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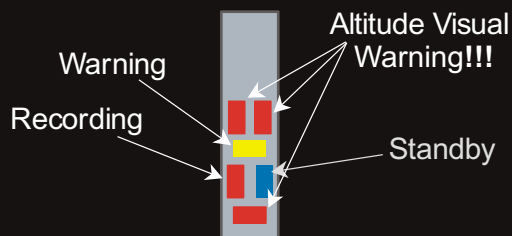
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Email: support@gethypoxic.com

Please visit www.gethypoxic.com
for the most up-to-date instructions and instructional videos.

- A. Sony A/V D, (A/V Remote), "Half Moon" connector
- B. HYPEYE D Control unit
- C. Sealed push button
- D. A/V Debrief Port
- E. Super Bright Indication Display
- F. M3 threaded nylon mounting hole
- G. Expansion Kit Port Cover – DO NOT REMOVE
- H. Expansion Kit Access Screws x 4

Display Overview



Note: The above tags are the typical use of the indicators.
Note: The altitude visual warning requires an audible altimeter.

Learning the HYPEYE D PRO's basic features

Get acquainted with the HYPEYE D PRO before permanently affixing the product to the mounting surface. For this trial setup, please have the camcorder charged, recording media available, and if tape based, the tape in a recordable position.

General Operation Notes

The A/V Remote is a completely redesigned interface over its predecessors. The users of old controlling methods will realize a few key differences with this new interface. For starters, the "mode" selection/power knob will be disabled the moment the controller communicates with the camcorder. Therefore, when the HYPEYE D PRO is connected to the camcorder, the HYPEYE D PRO must be used to change modes and power off the camcorder.

NOTE: Once installed, the HYPEYE D PRO must be used to change modes and power off the camcorder!

Switching between Standby and Record

The HYPEYE D PRO display (E) will now glow blue indicating that the camcorder is ready to record.



By clicking the push button, the camcorder will start recording. The display will glow red. Click the push button to return to standby.

NOTE: Some newer camcorders may take a few moments to switch between record and standby

Warnings

On supported camcorders, when the camcorder is running low on recording media or the battery is dying, the HYPEYE D PRO will start flashing the yellow indicator. However, some newer solid-state camcorders do not provide this information via the A/V Remote interface. This means on those non-warning communicating camcorders, no warning status will be displayed. Take some time to get accustomed to the camcorder at the limits of the camcorder's media (less than 5 minutes remaining) and battery low.

NOTE: Test the HYPEYE D PRO's low battery and low-media warnings for the camcorder in use

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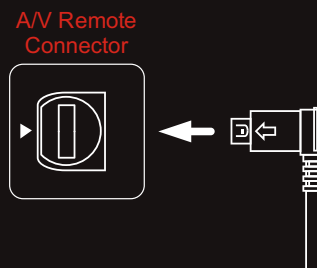
Normal operation through the camcorder's touch screen, as well as operation via the camcorder's record switch, will continue to work as normal. The camcorder disables mode selection via the touch screen.

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Get Hypoxic has done its best to accommodate all current Sony Camcorder models available. With that said, new Sony Camcorders get released constantly and not all the features may work with each and every model. Please check Get Hypoxic's webpage for the most up-to-date product and contact information.

Installation

With the camcorder turned off, plug the HYPEYE D PRO AV/D connector (A) into the camcorder's A/V Remote Connector.



Power On

Keep the display open to help learn the camcorder's response. Without touching any controls on the camcorder, single click the push button (C) on the HYPEYE D PRO. This click will power on the camcorder; there is no longer a need to physically turn the camcorder on via the mode-select switch.

NOTE: Newer camcorders can take up to 6 seconds to fully power on. If the HYPEYE D PRO is restoring zoom, it can take up to 20 seconds to fully power on.

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Switching between Modes

The HYPEYE D PRO supports both camcorders with photo capabilities and those without. To switch modes, quickly double click the push button. See the below diagrams for the mode switching order.



Camcorders with Photo Mode



Camcorders without Photo Mode

NOTE: Yellow means Warning!

Photo Mode

A single click in Photo Mode captures a still picture. For camcorders without Photo Mode, the camcorder will "record" a still picture.

Powering off

To power down the HYPEYE D PRO, hold down the push button until all three LEDs flash. At this point, release the switch. The camcorder will shutdown.

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A/V Debrief Port

The HYPEYE D PRO enables the user to review video without detaching the unit from the A/V Remote Connector. A rubber protector seals the HYPEYE D PRO's A/V Debrief Port (D). Remove and store this protector to expose the A/V Debrief Port. Plug the HYPEYE D PRO DEBRIEF CABLE (optional) into an available RCA port on a television. The standard connection method applies:

RED – Right Audio
WHITE – Left Audio
YELLOW – Video

Now plug in the DEBRIEF CABLE into (D). To review video, switch the camcorder to VCR mode and press PLAY on the camcorder's touch screen.



This feature can help sight the mounted camcorder. Insert the HYPEYE D PRO DEBRIEF CABLE and connect to the television. Switch to Video Mode. Now the TV displays how the camcorder is sighted. Adjust accordingly.

HYPEYE D PRO EXPANSION KIT (optional)

Please see the instructions included with the expansion kit for installation and usage. The HYPEYE D PRO EXPANSION KIT replaces the rubber stopper marked (G).

Visual Altitude Indication Warnings

The HYPEYE D PRO in combination with the HYPEYE D PRO EXPANSION KIT and an applicable audible altimeter such as L&B's Optima will display visual altitude warning indications.

External Bite Switch Input

With an external bite or tongue switch, a Photo Mode capable camcorder can be converted into a still camera. By installing the HYPEYE D PRO EXPANSION KIT and a bite or tongue switch, the camcorder will now take unlimited higher resolution still pictures in Photo Mode. On some newer camcorders, the user can capture a set number of still pictures while recording.

Custom Push-Button Interface

With the kit, the internal push button can be disabled and an external push button can be added to create a truly custom installation. This interface also allows the user to control the camcorder if it's mounted far away.

Advanced Control

The HYPEYE D PRO is very powerful controller with only a single push-button interface. There are several settings that can be adjusted on the controller.

Settings

Brightness Setting – The HYPEYE D PRO allows the user to adjust and store the brightness of the display. There are seven levels of adjustment from night jump dim (level 1) to extreme bright (level 7). The controller comes standard at level 5.

NOTE: This display is extremely bright and can damage the eye at full brightness. **Do not stare directly into the display at full brightness.**

Zoom Setting – The HYPEYE D PRO has the ability to retrieve a zoom preset upon startup. This function is disabled by default. Since many operators use wide-angle lenses, the zoom control works only towards the wide "zoomed out" range.

Audio Select – The HYPEYE D PRO allows the user to select the audio source. The two options are 1) from the internal camcorder microphone or 2) from an external line-level input. By default, this feature always uses the internal microphone. However, with this feature enabled, audio is sourced from this input instead of the camcorder's microphone. This only occurs if the cable is installed.

For some installations, a user may wish to have their HYPEYE D PRO DEBRIEF CABLE plugged in while recording but still source off of the internal microphone. The default setting allows for this setup.

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ENTERING CONFIGURATION MODE

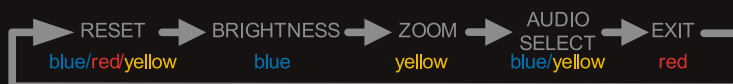
Please read this list before attempting since it is a time sensitive operation. There is a training video at <http://www.gethypoxic.com> that may be easier to follow.

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1. The HYPEYE D PRO must be turned on and in VIDEO standby mode (blue indicator). It is recommend all the configuration operations are complete within the 5 minute "auto-standby" feature of the camcorder.
2. Hold down the push button and observe all three indicators flashing.
3. All indicators will then turn off. The red indicator will turn on. Release the push button while the red indicator is on.
4. All indicators will now be turned on. This signifies configuration mode.
5. If only the blue indicator is on, the system is back in standby mode. Retry steps 2 thru 4.

Navigation Configuration

There are 5 configuration positions when in configuration mode. The below chart shows the various positions:



Reset – Resets to factory defaults
Brightness – Adjusts the brightness preset
Zoom – Adjusts the zoom preset
Audio Select – Toggles the audio selection feature
Exit – Exits back to normal running mode

Selecting a Configuration Mode

To scan between the various configurations, single click the push button. To select a configuration, hold the push button for one second and then release.

Changing the Setting

Single click the push button to adjust the current setting. Once the setting has been determined, press and hold the button for one second, then release to store the setting.

Reset

By selecting reset, the brightness, zoom and audio-select features will return to the factory default. The unit returns to configuration mode once it's complete.

Exit

Selecting exit, the unit will return back to the normal operation mode.

Brightness

Upon entering the brightness configuration, all three indicators will turn on and the controller will reset back to full brightness. Click the push button to cycle through the seven brightness settings. Once the appropriate brightness setting is found, press and hold the push button for one second then release. This will store the brightness setting.

Zoom

Upon entering into the zoom configuration, all the indicators will light signifying the unit is zooming out. Once this is completed, all of the indicators will turn off. With every single click, the zoom will increase.

Color	Setting
Off	(Default) No zoom Control. Stays at camcorder's current state.
Blue	Zoomed all the way out.
Yellow	Zoomed in more than above.
Blue/Yellow	Zoomed in more than above.
Red	Zoomed in more than above.
Red/Blue	Zoomed in more than above.
Red/Yellow	Zoomed in more than above.
Red/Yellow/Blue	Zoomed in the max the HYPEYE D PRO will store

When there are no indicators lit, the zoom feature is turned off and the camcorder will not override the current setting.

Hold the push button for one second then release to store the zoom setting.

NOTE: Zoom control will delay the startup time of the camcorder. Please attempt this before using in a critical situation. Some camcorders will take up to 20 seconds to startup if this feature is turned on. The long lag is designed to accommodate the startup functionality of most Sony Camcorders.

Audio-Source Select

Upon entering the Audio-Source Select configuration option, the blue indicator will be lit. This indicator signifies that the audio always gets sourced out of the internal camcorder microphone. A click toggles the mode and will allow the unit to source audio from the A/V Debrief Port. This setting is distinguished by the Yellow Indicator. In this mode, the HYPEYE D PRO will source external audio only when a physical cable is plugged in.

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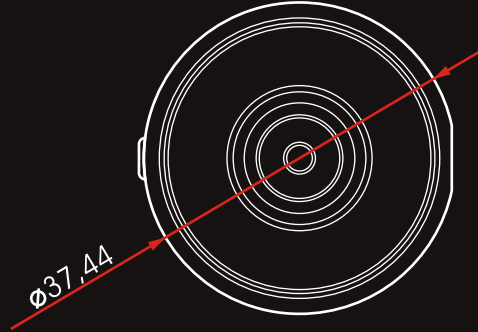
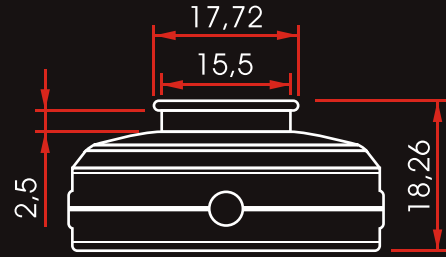
If an external microphone is desired, it must be a line-level microphone or amplified to "line-level."

To store the Audio-Source Select configuration option, hold down the push button for a second and release.

Specifications

(For reference only: Subject to change without notice)

Dimensions



"D" Cable:
Length: 400mm
Width: 4mm

Display Cable:
Length: 300mm
Width: 4mm

Temperature Range:
-30 to 85°C

Mounting

Drilling, gluing upon or in any way modifying a helmet will change the protection it provides. Please follow all manufacturer guidelines before affixing the HYPEYE D PRO.

Note: Carbon Fiber can be conductive, protect all electronics from this harmful dust. More so, helmet material is hazardous to lungs, skin, and eyes. Use a breathing mask and protective clothing, and wear eye protection while working.

The control unit can be mounted either on top or below the mounting surface. First determine where the unit should be mounted and ensure all the cables reach properly. Skydivers should mount the HYPEYE D PRO away from a place that may experience riser strikes or accidental taps from door ways.

On Top

The supplied screw is a M3 Screw. Drill a 4mm or 5/32 inch hole. Insert the screw through the mounting surface into the hole labeled (F). Do not over-tighten. For skydivers, this mechanism is meant to "break-away" if a line gets entangled; do not rely on this mechanism for protection and always use a proper cutaway device. If it does "break-away", be forewarned that this is for the user's protection.

On Bottom

Create a 16mm or 5/8th inch whole. Cleanup any burs that may have been created. Press the HYPEYE D Pro push button through the mount. Using a small amount of soapy water around the edges may make this smoother. See the below dimensions for reference.

Indicators

Color	Material	Luminosity (mcd)	Wavelength (nm)	Viewing Angle (degrees)
Blue	InGaN	140	473	140°
Yellow	AlInGaP	130	585	140°
Red	AlInGaP	150	625	140°

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