MōVI PRO

v1.1 Release

CONTENTS
Release Notes  3
Gamepad Mode  6
FIZ via MIMIC  7

MARCH 2017
SOFTWARE VERSIONS

Please verify that all Freefly Products are up to date, v1.0 is not fully compatible with v1.1. Reference the chart below.

<table>
<thead>
<tr>
<th>SOFTWARE COMPONENTS</th>
<th>V1.1 BUNDLE (NEW)</th>
<th>V1.0 BUNDLE</th>
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</thead>
<tbody>
<tr>
<td><strong>MōVI Pro</strong></td>
<td></td>
<td></td>
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<td>GCU</td>
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<td>1.0.2</td>
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<tr>
<td>TSU</td>
<td>1.1.1</td>
<td>1.0.3</td>
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<td>ESCs</td>
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<td><strong>MIMIC</strong></td>
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<tr>
<td><strong>MōVI Controller</strong></td>
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<td>3.0.1</td>
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<tr>
<td></td>
<td>No new update</td>
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<tr>
<td>iOS</td>
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</table>

» To Update - Connect to your MōVI Pro or MIMIC through the Mobile Apps. Navigate to Monitor>Updates, and check if you have the latest firmware.

» Version History - MōVI Pro subcomponent versions can also be on MōVI Pro screen under Monitor>Details>Versions.
RELEASE NOTES

MIMIC

» **New Feature**: Gamepad Mode.

» **New Feature**: FIZ Control.

» **New Feature**: Charging indicator via LED when MIMIC is off and via battery icon Monitor screen when MIMIC is on.

» **New Feature**: Display will now dim after 30 seconds, which will improve runtime significantly. This won’t affect any functionality and pressing any button will take it back to full brightness.

» **New Feature**: Logging without GPS.

» **New Feature**: Travel/shipping mode. Activate by pressing and holding all four user buttons while powering off MIMIC. Deactivate by plugging MIMIC into charger.

» **New Feature**: Generalized ability to start stop record. Previously it was only compatible with RED RCP.

» **Bugfix**: Channel 0 is now indicated as “OFF”.

» **Bugfix**: MIMIC orientation setting is fixed. MIMIC can be mounted vertical or horizontal on tilt axis and this setting can be set via iOS or Android help. This helps for applications such as mounting MIMIC flat on a fluid head.

GCU (GIMBAL CONTROL UNIT)

» **New Feature**: Sleep Mode - Press the power button twice to enable sleep mode. This will put motors into a paused state and will turn off the screen. It won’t cut power on any ports.

» **New Feature**: Transitioning between Dual Op/Mimic to Majestic is now seamless. When MōVI Controller or MIMIC take control of MōVI Pro, they will use the MōVI’s last orientation as it’s starting point.
» **New Feature**: RED Controls added to GCU screen.

» **New Feature**: Signal strength indicator for MIMIC. Additionally Radio will report “GOOD” even when MIMIC is in ‘off mode’ but still powers on and is transmitting.

» **New Feature**: HACC added to Monitor>Details screen.

» **New Feature**: Soft-start capability for GCU D-Tap - improves compatibility with some 12v accessories.

» **New Feature**: Allow for Majestic Tilt when MōVI Controller is on and mode switch is set to Majestic.

» **New Feature**: Support for FIZ and Gamepad controls via MIMIC.

» **New Feature**: Larger battery indicators on MōVI Pro screen to make it easier to observe levels from distance.

» **New Feature**: Critical battery warning on screen to get attention to hot swap batteries.

» **New Feature**: Default configuration stiffness values are set to 10.

» **New Feature**: Support for kill functionality via MIMIC Beta.

» **New Feature**: Removed requirement for GPS to initiate logging. If GPS date is not available when starting, logs are stored to an “undated” folder on a rolling basis.

» **Bugfix**: Dual MōVI Controller combination, where MōVI Controller on COM1 would lose FIZ control as soon as COM2 is active.

» **Bugfix**: Hand-held and airborne mode flips axis.

» **Bugfix**: Channel 0 is now indicated as “OFF”.

» **Bugfix**: Run/Stop command from MōVI Controller was causing momentary loss of input.

» **Bugfix**: Manual Tuning Screen wasn’t updating until a tuning value is selected.

» **Bugfix**: Max current limits are increased to provide more torque.

» **Bugfix**: Target mode tracking is fixed.

» **Bugfix**: CPU utilization estimate.
**TSU (TILT STAGE UNIT)**

- **New Feature:** Support for FIZ Controls via MIMIC.
- **Bugfix:** Starting auto calibration of FIZ through the MōVI Controller would previously not complete and prevent users from controlling the axis.
- **Bugfix:** RS485 fixes. Improved communication between GCU and TSU.

**IOS & ANDROID APP**

- **New Feature:** Monitor section now includes ‘Updates’ screen. Connect to your MōVI Pro or MIMIC and tap ‘Update’ to get all the latest features, improvements and bug fixes.
- **New Feature:** RSSI indicators are shown in connection screen.**
- **New Feature:** Code-base is updated to support iOS 10.**
- Various bug fixes.

**iOS only**
GAMEPAD MODE

Introduced with Firmware v1.1, MIMIC’s new Gamepad interface allows the user to control the MōVI Pro via Sony DualShock 4 controller. To enable the feature, connect DualShock to MIMIC via USB [C to micro B] cable. Then navigate to Gamepad screen on the MIMIC and press TURN ON.

MIMIC’s Gamepad screen will display key variables such as axis assigned to L2, R2 buttons and current tilt speed adjustment value.

**NOTE**

When Gamepad mode is ON, DualShock controller will charge itself from MIMIC’s internal battery. It is recommended to turn the mode OFF when not in use to save power.

CONTROL ASSIGNMENTS

- **L2 R2 will control one of the assigned inputs (Focus, Iris, Zoom, Roll). Current assignment can be viewed on the MIMIC Gamepad Screen.**
- **Vertical movement will control one of the assigned inputs (Focus, Iris, Zoom, Roll). Press to toggle the assignment. Current assignment can be viewed on the MIMIC Gamepad Screen.**
- **Increase/decrease pan and tilt speed adjustment. Negative values represent flipped control direction.**
- **Start/Stop Record**
- **Pan / Tilt Control**
- **Toggles the assigned axis for L2 R2.**
- **Toggle between Dual Op mode where MIMIC controls both Pan and Tilt, and Majestic mode where MIMIC defers control of Pan.**
- **Toggling also resets the roll angle back to zero.**
- **Puts MōVI motors in Kill state**
FIZ CONTROL THROUGH MIMIC

Introduced with Firmware v1.1, MIMIC’s new FIZ interface allows users to control FIZ motors connected on MōVI Pro’s TSU or lenses that have internal motors via RED RCP.

FIZ on MIMIC can be manipulated by gestures, or by DualShock 4 with Gamepad mode enabled.

**Standalone:**

- **Toggle Axis** - Press bottom left button on MIMIC while in the FIZ screen.
- **MIMIC Gesture Control** - While pressing and holding the bottom right button, the current FIZ axis will be adjusted through gestural movements. Pan, Tilt or Roll are valid gestural inputs. Release bottom right button to stop making adjustments.
- **Auto Calibration** - Press and hold the bottom left button to initiate FIZ auto calibration.

**Via Gamepad:** (When Gamepad mode is enabled)

- Once appointed, Focus Iris or Zoom can be controlled by the gamepad.
- Setup left joystick and/or L2 R2 assignments to any of the FIZ axis. Refer to “Control Assignments” visual.
- Start auto calibration by pressing the ‘Calibrate’ button in FIZ screen.

**Multi Controller:** (New FIZ feature supports multi controller network.)

- For instance, MōVI Controller can be setup to control Focus, Zoom and Orientation, while MIMIC controls Iris.
- Behavior: MIMIC gets priority over MōVI Controller, so any axis active on MIMIC will be controlling MōVI orientation and FIZ. Any axis not controlled by MIMIC will instead be controlled by MōVI Controller.
Fig. Example Multi Controller Setup