



Murideo  
Fresco SIX-G

HDMI 2.0 Test Pattern Generator  
HDCP 2.2 Tester



#### 1.79 Firmware Update Guide (HDR)

## Important Safety Information

- Follow all instructions
- Use only a dry cloth to clean
- Use caution not to block side vents on unit
- Indoor use only: To reduce the risk of electric shock, do not use near water or expose to rain or moisture. Keep away from excess moisture
- Do not use near heat sources such as room heaters, hot A/V equipment
- Read all warnings
- Use only accessories provided by Murideo
- Unplug the device during lightning storms or when unused for long periods of time
- Keep away from open flames
- Protect all connected cords including power cords from being pinched, compressed, and stepped on
- Do not open the case. All servicing should be done only by qualified and approved service personnel and will void the warranty.
- Electrical Input Rating: Power over 5Vdc 700mA. Caution: Use only the supplied AC/DC Adapter
- Operating temperature range: e.g. 0 to 40C.
- For charging use the provided 5Vdc 3A supply only
- To disconnect power sources, remove the AC/DC adapters from the wall outlets.

## Overview

This guide will demonstrate updating firmware in the Murideo Fresco SIX-G. Please follow these instructions exactly.

### Key Features:

- Adds 6 additional HDR Metadata Memories Support
- Adds 6 preloaded HDR Infoframes
- Adds BT 2020 Support
- Adds Horizontal Multiburst
- Adds Still Greyscale Pattern
- Adds Dolby Vision Pattern Support
- Adds RGB Triplets Even/Odd Pixel for future Dolby Vision Support
- Adds 4096x2160 (Up to 60P) Support
- Adds 10Bit+ Support in 4K

### To Begin:

Connect the Murideo Fresco SIX-G to your computer using either the micro USB cord, or RS-232 cord supplied with the unit. We recommend having a full charged battery or plugging in.

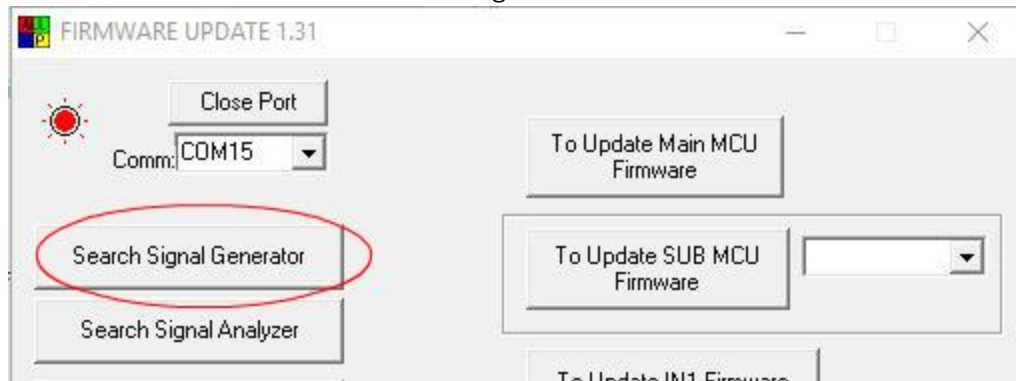
Be sure you have all of the required files:

- Management Software: ISP V1.40
- FlyMcu Folder
- Firmware Files:
  - PART1: FPGA Update
  - PART2: MCU Update
  - PART3: SG Data Flash

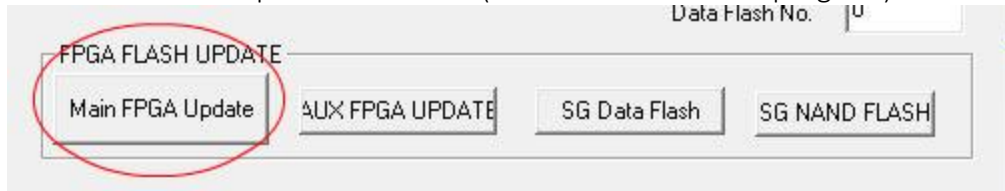
### To Update (PART 1 of 3):

1. Open the ISP V1.40 Software
2. Press the “Search Signal Generator” Button

- a. If successful connection is made the light will be **RED** as shown



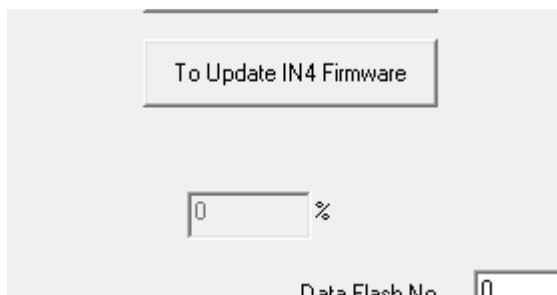
3. Click “Main FPGA Update” As shown (On the bottom of the program)



4. Choose the FPGA Firmware (In the folder marked **(PART1) FPGA Update**)

Name	Date modified	Type	Size
SG01H-H22-004-FPGA-V110(A611).bin	5/23/2016 8:30 AM	BIN File	1,452 KB

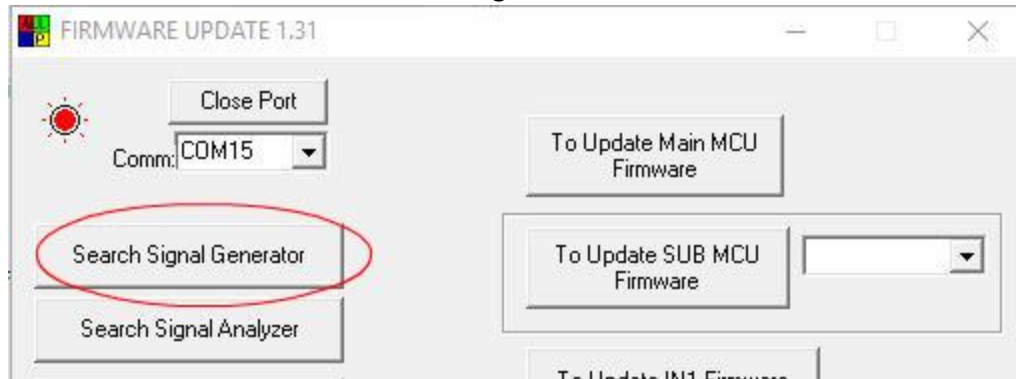
5. This box here shows progress



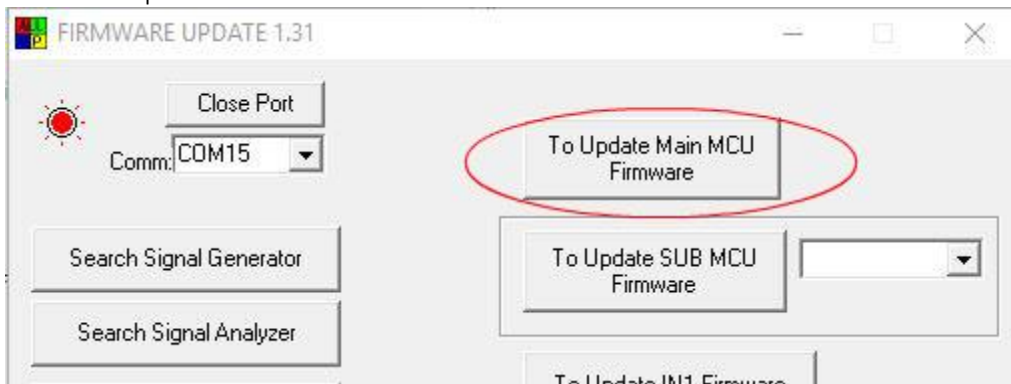
6. Once it reaches 100% wait 10 more seconds and reboot the device
7. Close the Firmware update software before continuing to **PART 2 (You will reopen for PART 2)**

To Update (PART 2 of 3):

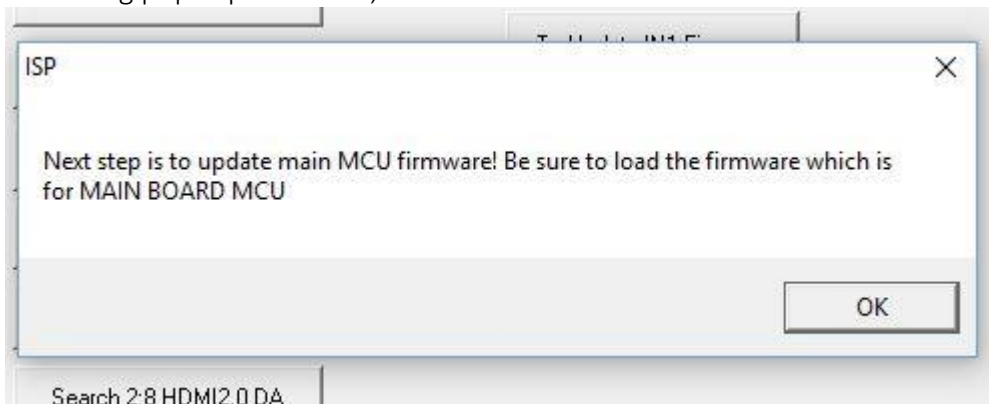
1. Open the ISP V1.40 Software
2. Press the “Search Signal Generator” Button
  - a. If successful connection is made the light will be RED as shown



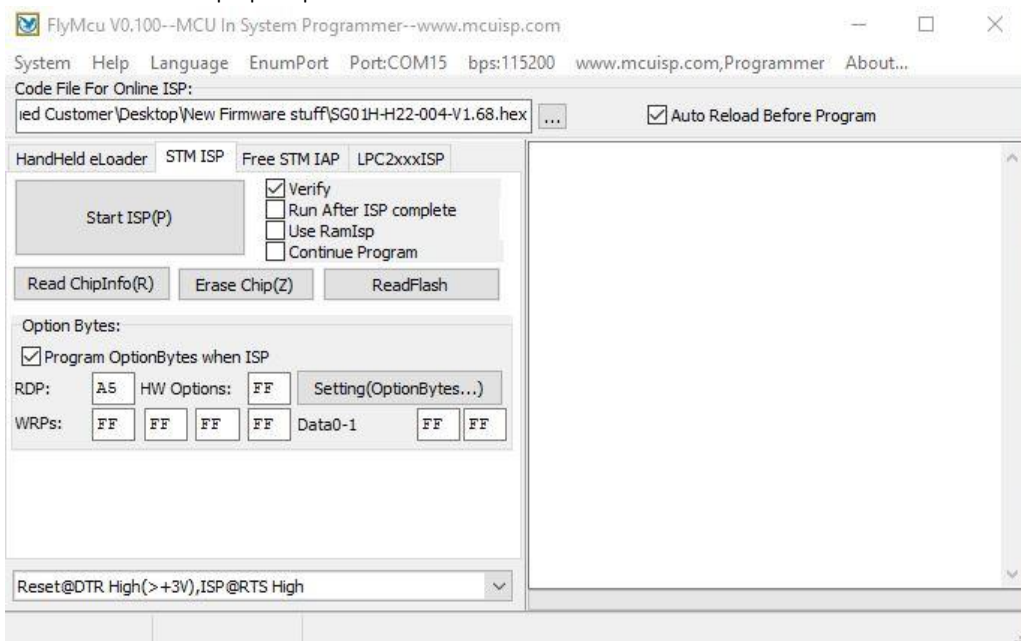
3. Click “To Update Main MCU Firmware” As shown



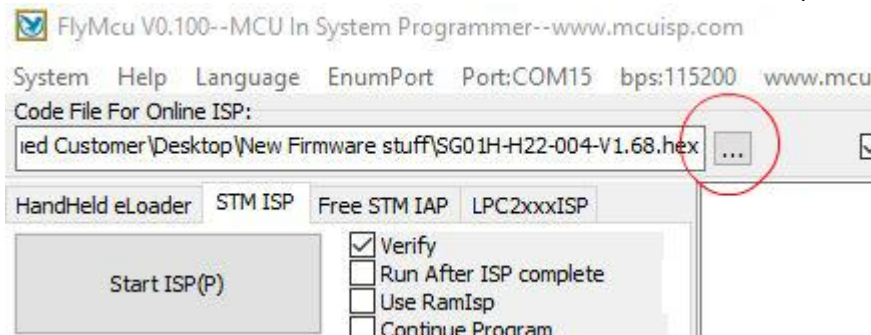
4. A warning pops up as shown, Click OK



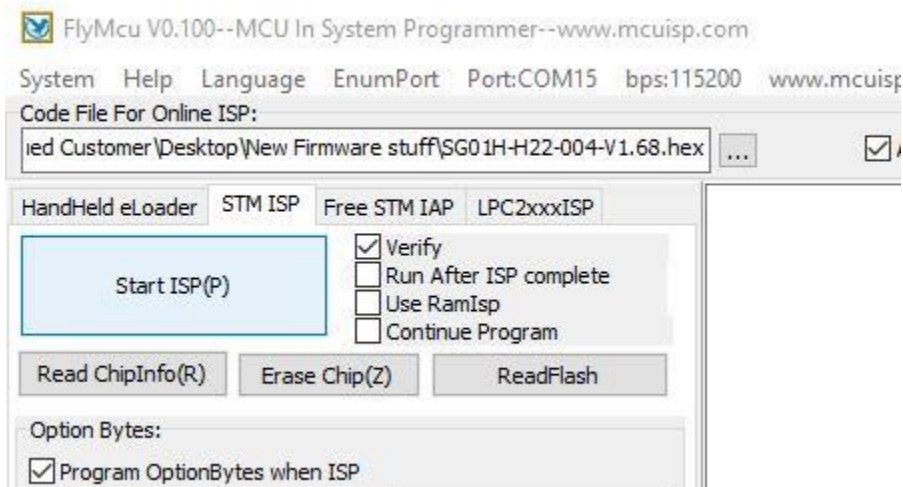
5. The ISP Console pops up as shown



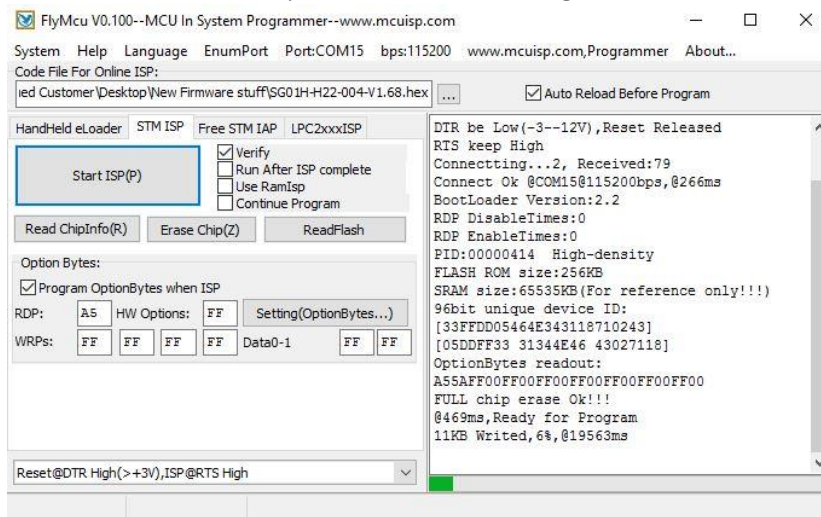
6. Click the “...” to browse for the Firmware File in **PART2 MCU Update** (Version 1.75)



7. Once located click “Start ISP”



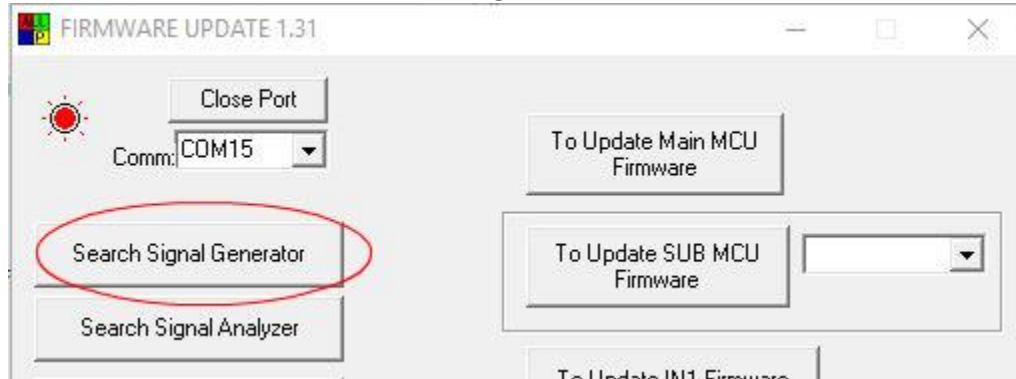
8. You should see activity in the field on the right



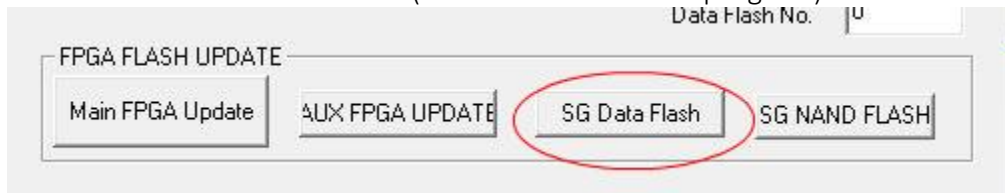
9. A message "Anything OK" appears once complete
10. You may now disconnect the SIX-G and power cycle the unit. **PART 2 of the Update is complete. Power cycle the unit.**
11. Close all programs before continuing to PART 3 (You will reopen for PART 3)

**To Update (PART 3 of 3):**

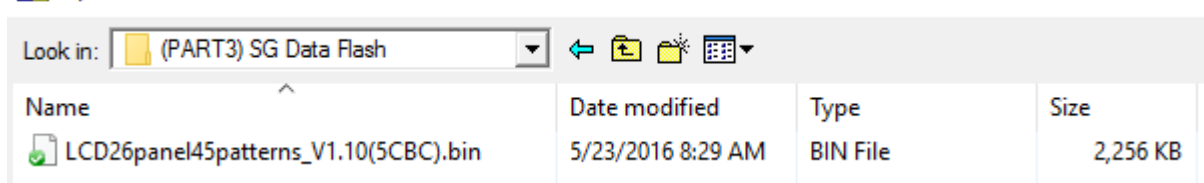
1. Open the ISP V1.40 Software
2. Press the “Search Signal Generator” Button
  - a. If successful connection is made the light will be **RED** as shown



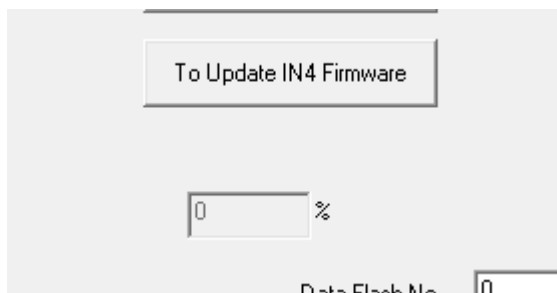
3. Click “SG Data Flash” As shown (On the bottom of the program)



4. Choose the SG Firmware (In the folder marked **(PART3) SG Data Flash**)



5. This box here shows progress



6. Once it reaches 100% wait 10 more seconds and reboot the device
7. You may now disconnect the SIX-G and power cycle the unit. **PART 3 of 3 of the Update is complete.**



## **Murideo Fresco SIX-G API**

A comprehensive API document is available upon request for software developers.

## **Updating Firmware**

Field firmware updates are available via USB port. Firmware updates, when available will be posted on the Murideo.com web site, along with instructions.

## **FCC Interference and Compliance Statement**

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.

## **FCC WARNING**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## **Caution**

To comply with the limits for an FCC Class B computing device, always use the shielded signal cord supplied with this unit. The Federal Communications Commission warns that changes or modifications of the unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CE mark for Class B ITE (Following European standard EN55022/1998; EN61000-3-2/1995; EN61000-3-3/1995, EN55024/1998, EN60950-1/2001)

Radio Frequency Interference Statement Warning: This is a Class B product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

## **Warranty and Getting Help**

### **General Warranty Terms**

AVPro Global Holdings (DBA MURIDEO) offers a limited warranty for its MURIDEO products. Any product first sold to you is guaranteed to be free from defects in both components and workmanship under regular uses. The warranty period commences on the date the item ships. Attention: Your invoice with the date of purchase, model number and serial number of the product is your proof of the date of purchase. The International Limited Warranty is applicable and shall be honored in every country where MURIDEO or its Authorized Service Providers offer warranty service subject to the terms and conditions provided in this International Limited Warranty Statement.

### **MURIDEO Products Warranty Period**

The warranty terms for MURIDEO products are: Domestic & Asia EU & UK

MURIDEO – Fresco Six-G HDMI 2.0 4K Test Pattern Generator & 1 Year & 2 Year  
MURIDEO – Prisma Networked Video Processor 1 Year & 2 Year

### **System Warranty**

During the warranty period, the defective hardware of MURIDEO products will be either repaired or replaced, with new or like new products, at the discretion of MURIDEO except in the cases listed in the Limitation of Liability Clause of this document. This International Limited Warranty covers the costs of service parts and labor required to restore your product to fully functional condition. MURIDEO will, at its discretion, repair or replace any defective products or parts thereof covered by this International Limited warranty with refurbished parts of the product that are equivalent to new or like new products in both functionality and performance. A product or part that is repaired or replaced under this International Limited Warranty shall be covered for the remainder of the original warranty period applying to the product or part, or for 90-days, whichever expires last. All exchanged parts and products under this International Limited Warranty will become the property of MURIDEO.

### **Obtaining the Warranty Service**

Warranty service or Returned Merchandise Authorization (RMA) under this International Limited Warranty will be honored only if claims are made within the warranty period. For notifications to MURIDEO or products outside the warranty period, the process will be the same, but charges may apply. Contact details may be obtained on MURIDEO website [http:// <http://avpro.rnmaportal.com/>](http://http://avpro.rnmaportal.com/) Customers are requested to perform the following actions before claiming MURIDEO product as defective:

- (a) Owner must notify MURIDEO, during the warranty period, in writing of alleged defect, and allow MURIDEO a reasonable opportunity to inspect the allegedly defective product;
  - (b) No Product may be returned without MURIDEO's consent, The MURIDEO RMA# must accompany all returns, and all returns must be delivered to MURIDEO within the warranty period;
  - (c) Owner may, then at its own expense, return the allegedly defective Product, freight pre-paid and in the original packaging, accompanied by a brief statement explaining the alleged defect to MURIDEO;
  - (d) If MURIDEO determines that any returned Product is not defective, or if MURIDEO determines that the defect is not covered by the warranty, MURIDEO will return the Product to the Owner at Owner's expense, freight collect, and Owner agrees to pay MURIDEO's reasonable cost of handling and testing;
  - (e) Upon determining that a returned product is defective, to receive warranty service Owner will need to present the invoice showing the original purchase transaction. If shipping the product, Owner will need to package it carefully and send it, transportation prepaid by a traceable, insured method, to the MURIDEO Service Center. Package the product using adequate padding material to prevent damage in transit. The original container is ideal for this purpose. Include the RMA#, your name, return shipping address, email address and telephone number where you may be reached during business hours, inside the shipping package with the unit. Any replacement unit will be warranted under these Terms and Conditions for the remainder of the original warranty period or ninety (90) days whichever is longer.
- Refer to user manual enclosed within the product package and/or information on <http://www.murideo.com/generators.html> for important tips on how to operate and troubleshoot the product.

### **International Warranty**

Warranty may be valid when a MURIDEO product is purchased in one country and transferred to another country, without voiding the warranty. Please be advised that service availability and response time may vary from country to country. Warranty is transferrable within the warranty period.

MURIDEO is not responsible for any export and import control issues, handling fees, tariffs, import duties, and all other related fees where owner is responsible for shipping its products. This International Limited warranty does not affect your statutory rights.

### **Limitation of Liability**

MURIDEO reserves the right to refuse warranty service of products under disputable conditions. MURIDEO also holds the rights to declare final decision whether products are within warranty conditions. The following actions and damages will result in voiding the limited warranty:

- Damage caused by act of nature, such as fire, flood, wind, earthquake, lightning, etc.
- Damage or incompatibility caused by failure to perform a proper installation or to provide an appropriate operational environment for the product, including but not limited to unstable wired/ wireless network connection and phone lines, bad grounding, external electro-magnetic fields, direct sunlight, high humidity and vibration.
- Damage caused by impact with other objects, dropping, falls, spilled liquids, or submersion in liquids.
- Damage caused by unauthorized repair or disassembling of the product.
- Damage caused by any other abuse, misuse, mishandling, or misapplication.
- Damage caused by third party peripherals (including but not limited to visible damages on motherboard or other electronic parts of the product such as burn spots after electric discharge, melting, fusing, splitting, etc.)
- Any unauthorized software or modification of built-in software not approved by MURIDEO.
- The serial number of the product (or serial number stickers of its parts) has been modified, removed, blurred or damaged.
- Defects caused by transportation, handling or customer abuse.

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THIS WARRANTY IS EXPRESSED IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND OF ALL OTHER OBLIGATIONS OR LIABILITIES ON MURIDEO'S PART, AND IT NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PARTY TO ASSUME FOR MURIDEO ANY OTHER LIABILITIES. THE FOREGOING CONSTITUTES THE BUYER'S SOLE AND EXCLUSIVE REMEDY FOR THE FURNISHING OF DEFECTIVE OR NONCONFORMING PRODUCTS AND MURIDEO WILL NOT IN ANY EVENT BE LIABLE FOR COST OF SUBSTITUTE OR REPLACEMENT, COST OF FACILITIES OR SERVICE, DOWNTIME COSTS, LOSS OF PROFITS, REVENUES OR GOODWILL, RELIANCE DAMAGES, LOSS OF DATA, LOSS OF USE IF OR DAMAGE TO ANY ASSOCIATED EQUIPMENT, OR ANY OTHER INDIRECT, INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES BY REASON OF THE FACT THAT SUCH PRODUCTS WILL HAVE BEEN DETERMINED TO BE DEFECTIVE OR NONCONFORMING. THE RIGHTS AND OBLIGATIONS OF THE PARTIES UNDER THIS AGREEMENT SHALL NOT BE GOVERNED BY THE PROVISIONS OF THE 1980 U.S. CONVENTION ON CONTRACTS FOR THE INTERNATIONAL SALE OF GOODS OR THE UNITED NATIONS CONVENTION ON THE LIMITATION PERIOD IN THE INTERNATIONAL SALE OF GOODS, AS AMENDED (COLLECTIVELY, THE "CONVENTIONS"); RATHER, THE RIGHTS AND OBLIGATIONS OF THE PARTIES SHALL BE GOVERNED BY THE LAWS OF THE STATE OF SOUTH DAKOTA, INCLUDING ITS PROVISIONS OF THE UNIFORM COMMERCIAL CODE, AS APPLICABLE. FOR THE AVOIDANCE OF DOUBT, THE CONVENTIONS ARE HEREBY EXCLUDED.

This Limited Warranty gives you specific legal rights. You may also have other rights that may vary from state to state or from country to country. You are advised to consult applicable state

or country laws for full determination of your rights. Some jurisdictions do not allow the exclusion or limitation of special, incidental or consequential damages, or limitations on how long a warranty lasts, so the above exclusion and limitations may not apply to everyone.

### **Getting Help**

For service and support, contact your local dealer.

To find your dealer or to contact MURIDEO support, go to:

[www.Murideo.com](http://www.Murideo.com)

or call

+1-605-782-2462 for worldwide technical support

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Sioux Falls, SD 57104

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