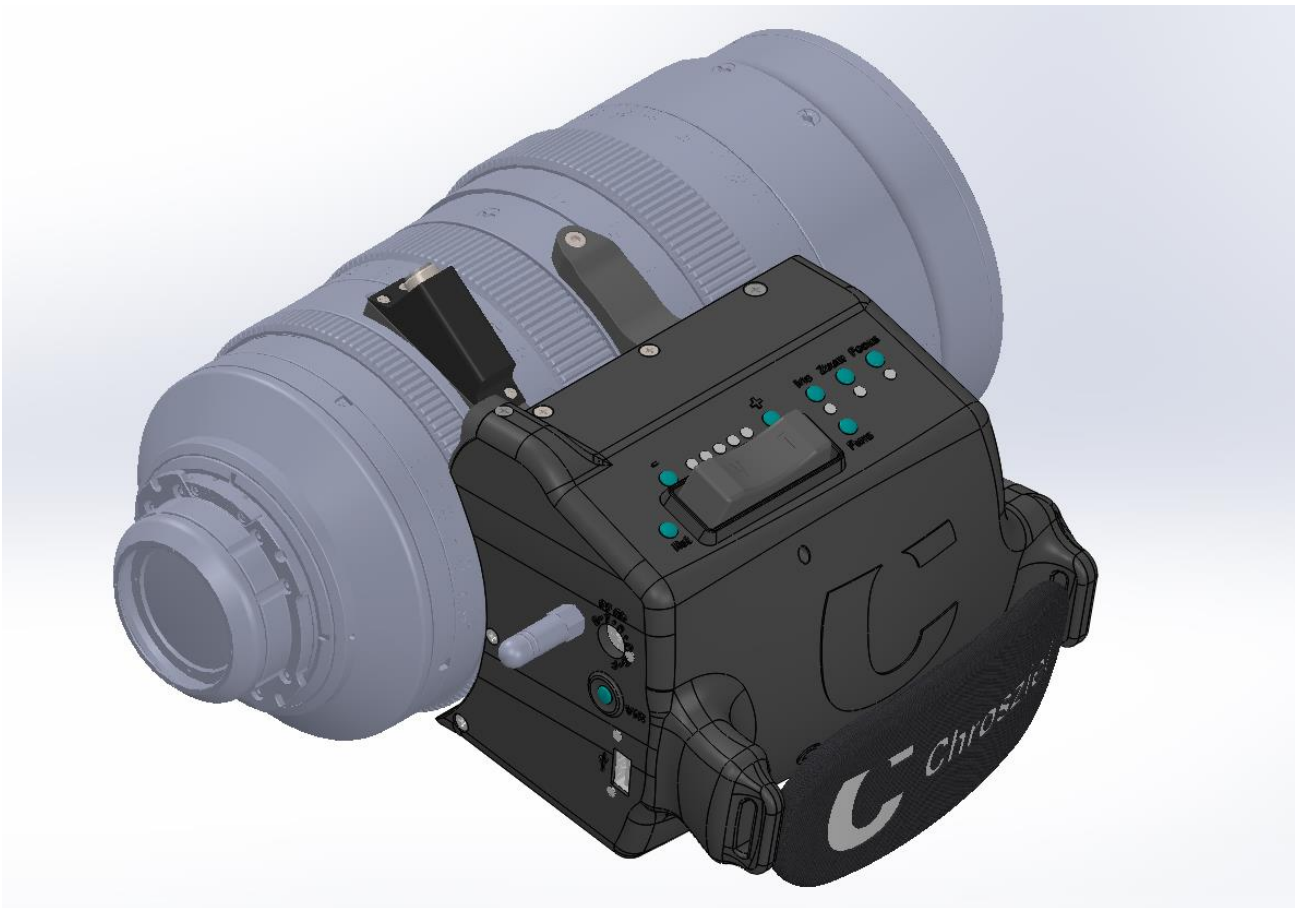


# ***Operating Manual***

## Premista Servo Drive



Version 1.1



Dear Customer,

Thank you for purchasing a quality product from Chrosziel. We appreciate the trust you placed in us.

This manual provides valuable information and instructions to ensure that you will get the most out of your Chrosziel Premista Servo Drive. Before using the device for the first time please read this manual carefully. We kindly ask you to keep the manual handy for quick reference, and keep all documents supplied with the device in a safe place.

We hope you will enjoy your new Premista Servo Drive!

Sincerely yours,  
Chrosziel GmbH

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## 2. Key to symbols

### Important!



This symbol highlights important instructions that must be followed for smooth, trouble-free operation of the device. Please observe these instructions to avoid malfunctions.

### Notice!



This Symbol highlights information which should be noted for perfect usage.

## 3. Product Description

### 3.1 General

The Chrosziel CDM-PREM-FIZ Servo Drive Unit was developed exclusively for all the lens derivatives of the Fujinon Premista Lens series and is field installable. This compact and ergonomic design allows you to integrate the all-manual "cine-style" Fujinon Premista zoom lens into your broadcast, multi-camera, or remote head workflows in a straightforward way. As on typical TV style broadcast lenses, all motors and connectors are brought together in one housing with common interface connections like demand sockets, a lens port interface, and a remote-control socket.

Three perfectly positioned drive gears engage the Fujinon Premista lens with a high degree of precision employing three powerful digital motors. The Chrosziel CDM-PREM-FIZ is particularly useful for cinematic Multi Camera, ENG and OB work where zoom and focus can be controlled from standard Fujinon TV style tripod demands or the onboard zoom rocker. It supports remote head and robotics applications via the Hirose 20pin Fujinon remote interface including encoder outputs for focus and zoom motor. It allows to directly control the drive's focus, zoom and iris by the Chrosziel Magnum wireless FIZ hand unit via radio and all other compatible FIZ- systems via a wired connection.

Key- features:

- User installable drive unit
- Compatible with Premista 19-45, 28-100, 80-250
- /i-data pass thru
- Encoder pulse output of Focus and Zoom motor for VR applications
- Fujinon Digi-Power Control Protocol supported
- USB Port for software updates (USB 2.0 compatible)
- Wide range of power input (10V-30V DC)
- Built-in zoom rocker with adjustable speed

### 3.2 Nameplate

The nameplate located on the inner side of the Premista Servo Drive includes all compliance relevant details as well as the serial number.

### 3.3 Applications / Intended Use

The Premista Servo Drive is designed to reflect the state of the art and comply with recognized technical safety rules. However, improper use of the device or use of the device for other than the intended purpose may cause damage to the device itself and/or other objects or persons.

The Premista Servo Drive can be used with a Fujinon Premista 19-45, 28-100 and 80-250 or compatible. Other use, or use beyond this scope, is deemed to be used for other than the intended purpose and is entirely at the user's risk. Intended use also comprises observation of the instructions for use and installation and compliance with maintenance conditions.

### 3.4 Product Safety, Operating voltage and temperature

Short circuit protection is performed by a protective fuse which insulates the device from power supply in case of over-current events caused by unexpected internal failures. In addition, power input is polarity protected. The nominal input voltage of the Premista Servo Drives is 10–30V. At temperatures below -10° Celsius or above 50° Celsius, optimum functioning of the product can no longer be guaranteed. A constant operating temperature of approx. 20° Celsius is recommended. The device can be used in moderate outdoor conditions.



Improper use of the Premista Servo Drive may result in serious and extensive damage to health or can cause enormous damage to property. Please ensure you read the following instructions carefully and familiarize yourself with the device before operating it. By doing so, you will ensure safe and smooth operation of your Premista Servo Drive.

**NEVER** use the mounted Premista Servo Drive to **wear or support** the lens and/or camera.

**Avoid sun exposure** to the Premista servo drive.

**Avoid driving the motors forward/backward** continuously for a longer time. This may result in damage to lens and/or the drives motors.

**Observe general safety and accident prevention regulations.** In addition to the instructions given in this operating manual, ensure that general safety and accident prevention regulations are observed.

**Provide this operating manual to third parties.** Please ensure that any third parties using the Premista Servo Drive only do so after reading and understanding the instructions.

**Keep away from children and protect against unauthorized use.** Keep away from children. Children must not be permitted to operate the Premista Servo Drive. Protect it from unauthorized access or use. The Premista Servo Drive is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless a person supervises them responsible for their safety or have received instruction concerning use of the Premista Servo Drive from that person.

**Never leave in operation unattended.** Never leave the Premista Servo Drive unattended in operational condition or in operation.



**Take care and always concentrate** when using the device. Do not work with the Premista Servo Drive while having difficulties in concentrating or under the influence of drugs, alcohol, or medication. A single moment of inattention while using the Premista Servo Drive may result in accident and injury.

**Ensure the unit is firmly affixed to the lens.** When affixing the Premista Servo Drive to your Premista lens, ensure the unit is mounted securely and properly.

**Watch out for damage.** Check your Premista Servo Drive for damage before operating, and do not use the unit if there are any signs of damage.

**Use for the intended purpose.** Ensure you use the Premista Servo Drive for the intended purpose described in this operating manual, only.

**Inspect regularly.** Use of the Premista Servo Drive may result in wear and tear to parts of the housing or gears. Inspect the device regularly for damage or faults.

**Only use original parts.** For your own safety, only use accessories and add-ons that are specified in this operating manual or recommended by the manufacturer.

### **3.4.1 Specific Safety Instructions**



Make sure you comply with the following installation and operation instructions:

- Install the Premista Servo Drive in accordance with the applicable regulations.
- Observe the regulations that apply in your country.
- Observe the specified minimum safety distances from flammable materials (e.g., fabrics, paper).

## 4. Set-Up Premista Servo Drive

### 4.1 In the Box

After opening the package, immediately check if all accessories and parts listed in section 5.3 "Included accessories" below are complete and in a good condition. If anything is missing, faulty, or damaged, contact your retailer.

Do not operate the device if it is or appears to be faulty.

### 4.2 Preparation

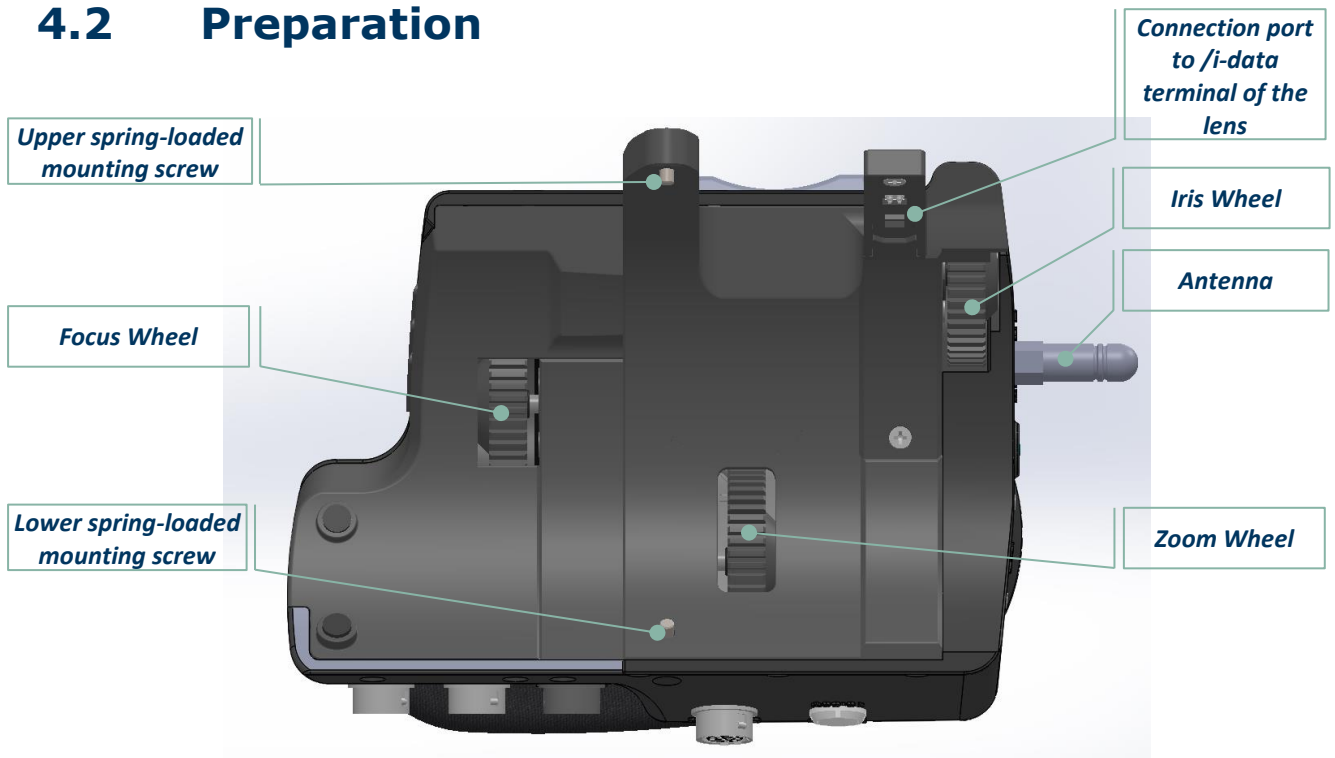


Figure 1

#### 4.2.1 Mounting the drive to the lens

Follow these steps to mount the Premista Servo Drive to the Premista lens:

1. Make sure, that no cable is connected to the Premista Servo Drive
2. Remove /i-data port holder (4 pin 00 size LEMO) from lens, take care not to drop/lose the screws
3. Make sure the threads are clean and free from damage.
4. Mount the Premista Servo Drive onto the lens. The three gears from the Premista Servo Drive must interlock with the respective gears of the lens. The bar of the /i-data port must fit perfectly to the corresponding notch of the lens.
5. With the additional included 2,5 mm Allen Key, screw the lower spring-loaded mounting screw (see Figure 1 above) in the lower thread of the lens. Do the same with the upper spring-loaded mounting screw. Do not fully tighten the lower screw until the upper one is screwed in. Finally fix both screws carefully not overturning the threads. Ensure that all gears are attached to the standard 0.8mm pitch gears of the lens.
6. Rotate the lenses gears (F/I/Z rings) by hand. The gears should move freely without blocking from one to the other hard end stop.

7. If needed, mount the i/-data port removed from the lens in step #2 with the additional included crosshead screwdriver on top of the interface bar. Note the flipped orientation (see Figure 2 ).
8. Mount the antenna to the Premista Servo drive (see Figure 4) if the Magnum hand unit shall be used for wireless operation and select a radio channel from "5" to F, otherwise set the code wheel to "4" or less.
9. The drive is now installed, and the lens can be used as an ENG style broadcast lens.

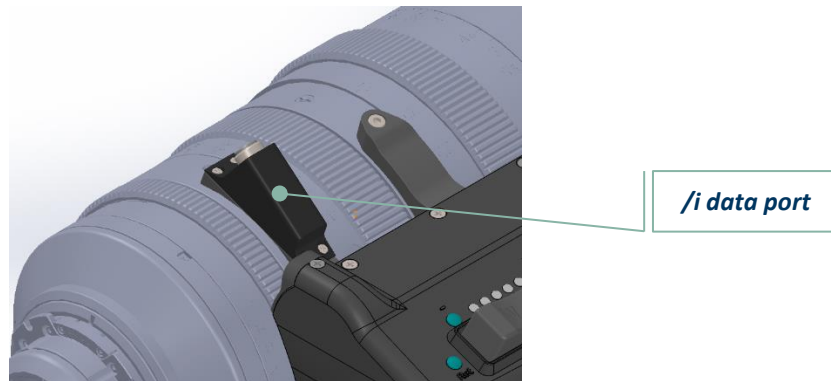


Figure 2

### **4.2.2 Installing and using the Premista Zoom Lens as a broadcast lens**

Once the drive is installed the lens can be mounted to any PL- mount camera. As the drive features all the typical connectors of a broadcast lens, it will integrate flawlessly to broadcast workflow.

After installing the lens to the camera, connect the Zoom and Focus demands as well as the Lensport cable to the cameras body. Power the drive via the power cable (MN-AB-A) from a stronger 12-15V power source (i.e., from D-tap outlet of a battery). Alternatively power the drive from the RS 3pin Fischer socket on the camera if available. The needed cable for this is RS-A2-P/CAM. Right after the drive is powered it will calibrate the lenses end stops for every axis at same time as there are Focus, Iris and Zoom.



Note: lens is calibrated after each power cycle.

### **4.2.3 Auto calibration in detail**

The calibration of the Premista Servo Drive is an essential part of the setup to guarantee precise, reliable operation of the device. Calibration is a procedure where the precise torque resistance and the mechanical hard end stops of the lens is recorded for every axis. The procedure ensures optimal reliability in use. Please ensure there are no obstructions between the gears of the lenses and the Premista Servo Drive. Do not touch the ring of the lenses during calibration as this will cause false torque resistance readings.

As soon as the Premista Servo Drive is connected to the power source the auto calibration starts. While the yellow status LED ´s near the Zoom/Focus/Iris buttons blinking, auto calibration is in progress and the device identifies end stops of the lenses. Do not touch any moving parts during auto calibration. Calibration is complete when both end stops on every axis have been identified and the LED ´s are either OFF or static ON. The Premista Servo Drive is now ready to shoot.

## 5. Operation

### 5.1 Controls and signaling LEDs

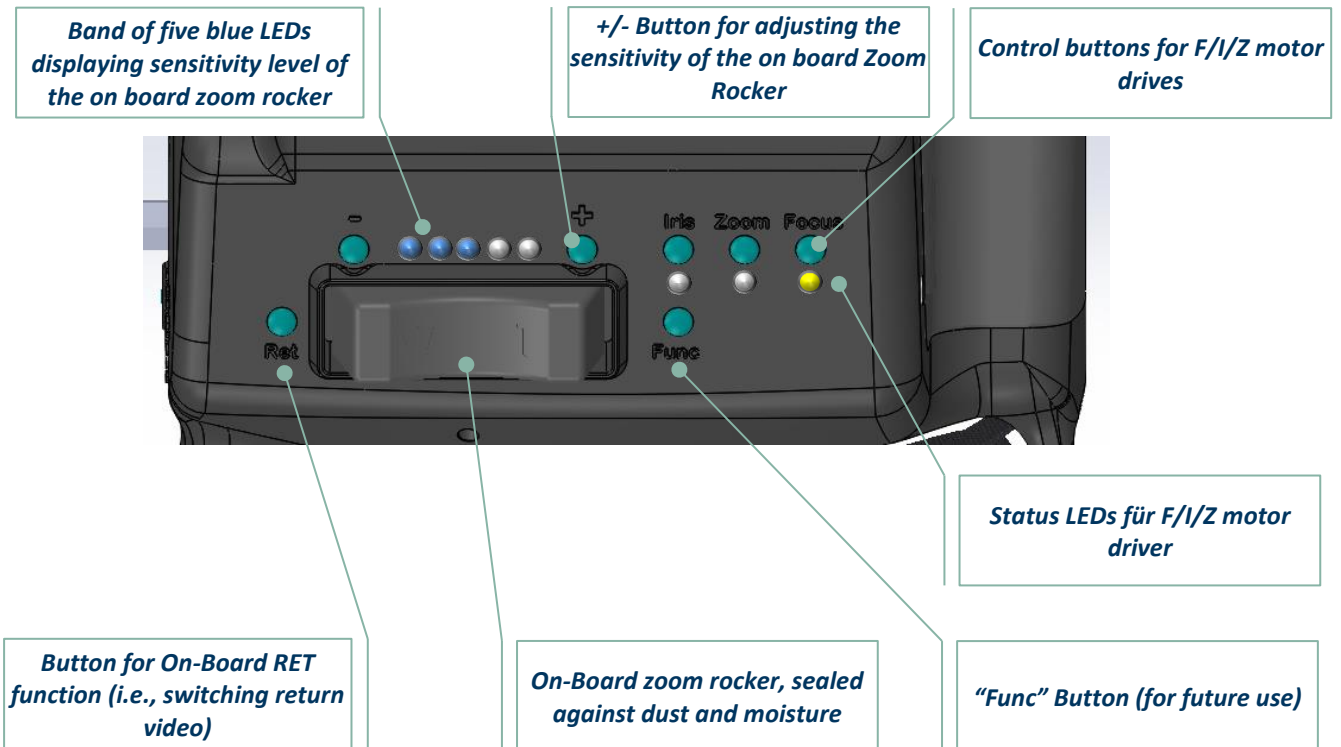


Figure 3

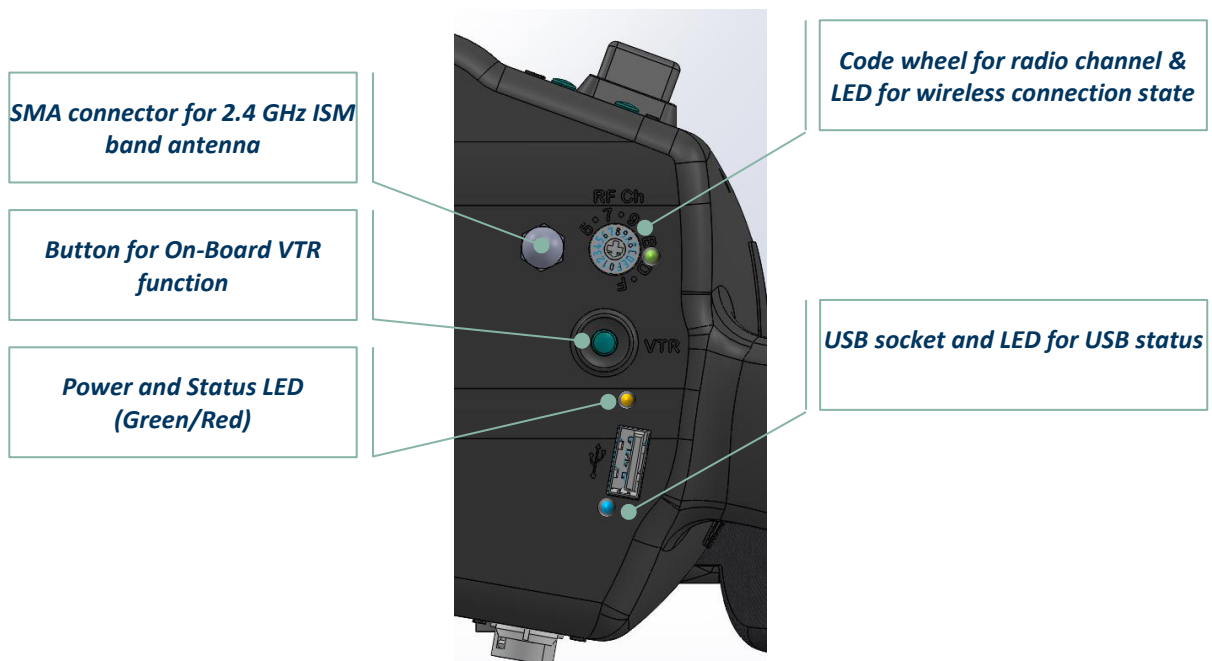


Figure 4

### **Band of five blue LEDs:**

displays sensitivity level 1-5 of the on board zoom rocker. If no LED is lit (sensitivity = 0), the On-Board Zoom Rocker is disabled. The selected setting is stored in nonvolatile memory and restores after the next power cycle.

### **Control buttons for F/I/Z motor drives:**

Functions are:

- Single operation toggles between motor activated  $\leftrightarrow$  deactivated (freely to move by hand or external motor)
- Continuous operation for more than 3 seconds starts the automatic lens calibration for the related axis

### **Status LEDs für F/I/Z motor driver:**

<b>LED State</b>	<b>Meaning</b>
Constantly Off	The related motor is controlled by the Servo Drive or no power
Constantly On	The related motor is released from the Servo Drive and can be moved freely
Blinking	The related motor is calibrating the lens end stops
Flashing (short on / long Off)	The related motor is in fault condition

### **RET Button/VTR-Button:**

implement the related functionality for external RETURN & VTR video switching as on typical broadcast lenses in multi-Camera set-ups.

### **Code wheel for radio channel:**

Select the radio channel for communicating with an external Magnum hand unit. Only the channels "5"-F can be used. Channel numbers lower than "5" will switch off the radio module. When the green **Channel LED** is on, the connection between the Hand unit and the Premista Servo Drive is established.

### **Power and Status LED (Green/Red/Orange):**

<b>LED State</b>	<b>Meaning</b>
green	power on, status OK
Constantly Off	No Power
Orange blinking	Internal fault detected or no communication to /i-data port of the lens

### **USB socket and LED for USB status:**

Available in software update mode only (refer to topic 6.2 "Software update via USB" below).

### **On-Board Zoom Rocker:**

For changing the direction of the Zoomer Rocker:

1. Turn off the power
2. press and hold the "+ Sensibility" button
3. turn on the power and wait a second
4. release the "+ Sensibility" button
5. The On-Board Zoom Rocker changes operational direction. All external Zoom demands are not affected!



## 5.2 Connectors

For pin-outs refer to section 11.1 "Connector pin assignment" below.

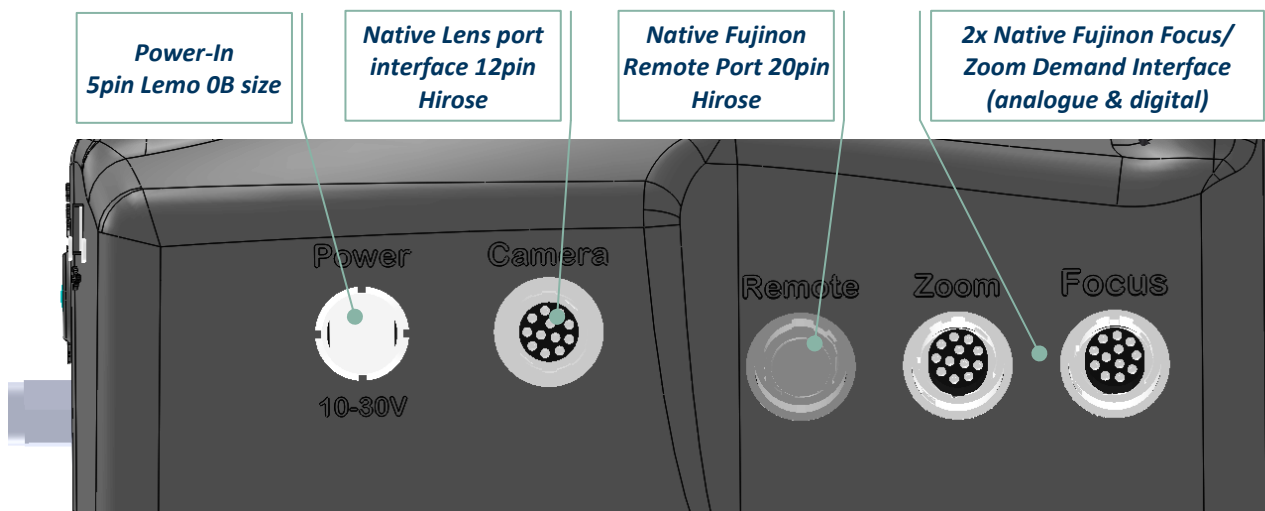


Figure 5

### **Power-In 5pin Lemo 0B size:**

Due to the stiffness of gears on a Premista Cine Zoom the needed power is higher than on other typical TV- Lens Servo drives. Make sure to use a strong power supply like 13.5V / 4A (~50 Watts).

### **Native Lens port interface 12pin Hirose**



TV- Lensport compatible interface (analogue & digital) for applications with i.e., Sony Venice or ARRI LCUBE



If communicating to the control lines, the corresponding pins on the 20pin remote port socket should not be connected!

### **Native Fujinon Focus/ Zoom Demand Interface (analogue & digital):**



Both sockets implement the original Fujinon Demand Socket base functionality. If both demands (Focus Wheel and Zoom Rocker) are digital versions, the order of connection does not matter. So, in this case the digital Focus Demand can be connected to the Socket labeled "ZOOM" and vice versa.

### **Native Fujinon Remote Port 20pin Hirose:**



In addition to the analogue & serial interfaces the remote socket features encoder pulses of the Focus and Zoom motor for i.e., VR applications.



If communicating to some of the control lines mainly the lens port related ones, the corresponding pins on the 12pin lens port socket should not be connected!

## 5.3 Included accessories

<b>Item</b>	<b>Chrosziel Part Number</b>
Power Cable D-Tap with angled Lemo plug 5pin	MN-AB-A
Lensport Interface Cable 12pin Hirose	AL2-INTF-LP
Angled Allen Key 2.5 mm	E2794009
Phillips Screwdriver PH0	E3683190

## 5.4 Optional accessories

<b>Item</b>	<b>Chrosziel Part Number</b>
Magnum Wireless Hand Unit 3 Axis (Focus/Iris/Zoom) Zoom Rocker Battery Charger	MN-200T MN-ZR MN-BAT MN-CH
Magnum Wireless Hand Unit 2 Axis (Focus/Iris) Battery Charger	MN-200T MN-BAT MN-CH
Magnum Wireless Hand Unit 1 Axis (Focus) Battery Charger	MN-150T or MN-100T MN-BAT MN-CH
3pin Fischer RS Port cable (Power/Start-Stop)	RS-A2-P/CAM

## 6. Maintenance

The Premista Servo Drive is usually maintenance-free. In the case of wear and tear to specific parts, please send the device to an authorized service department. There are no special maintenance tasks to be done by the user/owner with one exception regarding the cleaning of the housing if needed.

- Only, clean the device when it is disconnected from power.
- Use a soft, dry cloth or compressed air to clean the Premista servo motor.
- Never use harsh or abrasive cleaning agents.
- Be careful at the sockets not to blow or wipe in dust and detergents into the electric contacts

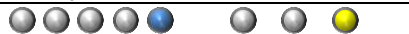




Only, Chrosziel Customer Service operatives may perform any further maintenance or repair tasks. All warranty claims are voided if maintenance tasks are performed during the warranty period by persons or companies without Chrosziel Customer Service authorization. Wear parts are not included in the warranty.

### 6.1 Checking for current software version

On start-up after powering, the software version is displayed for about 3 seconds by a combination of the two top-side LED bars (5x blue ones from zoom speed indicator and three yellow ones of the servo switch states of F/I/Z motor). Both bars form a binary encoded value where the blue LEDs stand for the most significant and the three yellow ones for the least significant part of the number separated by an imaginary dot.

Examples:

Led pattern	Binary Expression	Version Number
	00001.001	1.1
	00001.110	1.6
	00001.111	1.7

### 6.2 Software update via USB

Chrosziel is continuously improving the software of the system based on the demands of the industry including customer-requested improvements. The user can easily install an update to the latest software. The only requested items are the software files supplied by Chrosziel and a standard USB- Stick. Contact your dealer or Chrosziel directly to obtain new files or get registered for the respective newsletter. To register for update notifications, please draft an e-mail to [sales@chrosziel.com](mailto:sales@chrosziel.com) . Include product serial number, name, company, and email address. We comply with all statutory data protection laws.



Copy the two provided software files into the root of an USB stick (FAT/FAT32 formatted). Make sure to copy both files ("*pmimg\_m.hex*" and "*pmimg\_s.hex*")!

Update procedure:



- Power drive down
- Remove dust cover from USB socket and plug USB stick with software files into it
- Press and hold down button "Iris Servo" and "Focus Servo" on top side of the drive and repower it. Unit will perform the update indicating the progress by different LED flashing patterns. After update, the unit restarts automatically displaying the current software version with the top-side LED stripes for 3 seconds and performs the automated lens calibration.

## 7. Warranty

### 7.1 Scope

Chrosziel GmbH grants the owner of the product a standard warranty of **12 months** from the date of invoice. During this period, material or production defects identified on the Premista Servo Drive will be remedied free of charge by the Chrosziel customer service.

The terms of the warranty exclude faults or defects from causes other than material or production defects, like

- Transport damage of any kind
- Faults caused by improper installation
- Faults caused by use for other than the intended purpose
- Faults caused by improper treatment
- Faults caused by unprofessionally performed repairs or attempts at repair by persons or companies without authorization from Chrosziel GmbH
- Normal wear and tear
- Cleaning of components
- Alignment to nationally diverging technical or safety-relevant requirements if the device is not used in the country for which it was designed and manufactured.

We do not accept liability for devices with serial numbers that are falsified, changed, or removed. All warranty claims are voided if the device is opened.

Warranty claims beyond free repair of faults, e.g., compensation claims, do not fall within the scope of the warranty.

## 7.2 Customer Service

In case there are operating issues with the Premista Servo Drive occurring, proceed as follows:

**a) Contact Customer Service**

Mail: [info@chrosziel.com](mailto:info@chrosziel.com) / phone: +49 (0) 89 / 901 091 0 (Mon. – Fri.: 9 am – 5 pm CET)

Please give a detailed description of the issue, include a picture or video, and the invoice.

**b) Pack the device carefully**

Pack up your device, making sure the packaging is well padded and protected from impact. N.B.: Warranty does not cover transport damage!

**c) Ship the device**

**After** response from the Chrosziel Customer Service Center, proceed as instructed.

## 8. Troubleshooting

### One of the Iris/Zoom/Focus LED's is flashing

Probable reason	Suggested solution
Electronic motor fuse has fired	Press the corresponding button a couple of seconds to re-calibrate the affected axis, check for mechanical issues between the gears of lens and the drive
internal trouble	Restart the Premista Servo Drive

### Power LED is blinking orange

Probable reason	Suggested solution
internal trouble	Restart the Premista Servo Drive
No /i-data communication to lens	Restart the Premista Servo Drive, remount the drive to lens, check contact pins to lens, swap out lens

### The Premista Servo Drive does not power up

Probable reason	Suggested solution
No or incorrect power voltage	Replace spent batteries with fully charged batteries, the Premista Servo Drive operates from 10 to 30 V
Incorrect polarity	Check the polarity and correct if necessary
No power	Check for cable faults, damage, or short circuits

### The Premista Servo Drive does not calibrate

Probable reason	Suggested solution
Stiff lens	Check the lens
Obstruction between the lens gearing and the Premista servo motor gear	Check the gearing and the Premista Servo Drive gear and remove any obstructions
No or incorrect power voltage and /or wattage	Ensure the power supply is 10 to 30 V (min 50 Watt)

### The firmware update does not install

Probable reason	Suggested solution
Incorrectly formatted USB flash drive	format USB flash drive to FAT16 or FAT32
Hex-file is not saved in the root of the USB flash drive	Ensure the file is saved in the root of USB flash drive, not in a sub-folder
USB flash drive is not supported	Try a different USB flash drive
Too many files in the root	Use a clean USB stick without any additional files & folders

### The Premista Servo Drive does not power up

Probable reason	Suggested solution
Camera is not powered (if powered from RS- port)	Power camera Check cables and connectors
Premista Servo Drive receives no power	Check status LED and power cables

## 9. Disposal



The packaging and all packaging materials used are from environmentally friendly recyclable materials. At the end of its useful life, the Premista Servo Drive must be taken to a recycling center for appropriate environmentally friendly disposal. Do not discard the Premista Servo Drive with household waste. Find your nearest recycling center by searching the Internet or contacting your city hall.

## 10. Additional Information

Premista product landing page:

<https://www.chrosziel.com/Servo-Drive-fuer-Fujinon-Premista-Zoom/CDM-PREM-FIZ>

Subscribe to the newsletter:

<https://go.chrosziel.com/newsletter-registration>

Enjoy the Chrosziel blog with user stories:

<https://www.chrosziel.com/userstores>

Chrosziel in the social web:

Instagram: <https://www.instagram.com/chrosziel>

LinkedIn: <https://www.linkedin.com/company/chrosziel-gmbh>

Facebook: <https://www.facebook.com/chrosziel>

Twitter: <https://twitter.com/Chrosziel>

Share your excitement:

@chrosziel | #chrosziel | #hackthelens

# 11. Technical Data

## 11.1 Connector pin assignment

### 11.1.1 Power In

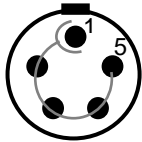


Figure 6

Type: Lemo compatible 0B 305 (female on Servo Drive)

Pin 1: + Power in  
 Pin 2 & 3: Relay closure contacts 100mA max.  
 Pin 4: - Power /GND

### 11.1.2 Camera

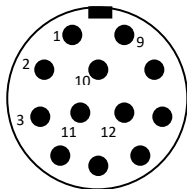


Figure 7

Type: Hirose HR10A-10R-12P (male on Servo Drive)

Pin 1 RET  
 Pin 2 VTR  
 Pin 3 GND  
 Pin 4 IRIS A/M (A: 5v, M: 0V)  
 Pin 5 IRIS CONT (F16: 3.4V, F2.8: 6.2V)  
 Pin 6 Power (10 – 30V)  
 Pin 7 IRIS FOLLOW (F16: 3.4V, F2.8: 6.2V)  
 Pin 8 IRIS A/R (A: 0V, R: 5V)  
 Pin 9 n.c.  
 Pin 10 ZOOM FOLLOW (T: 7V, W: 2V)  
 Pin 11 Serial Data Lens → Camera  
 Pin 12 Serial Data Camera → Lens

### 11.1.3 Zoom

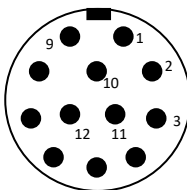


Figure 8

Type: Type: Hirose HR10-10R-12S

Pin 1 +12V out/ 100mA  
 Pin 2 GND  
 Pin 3 Uref 7.5V  
 Pin 4 Uref 5V  
 Pin 5 Uref 2.5V  
 Pin 6 ZD detect  
 Pin 7 Z control sig. / (D+)  
 Pin 8 Z follow sig. / (D-)  
 Pin 9 VTR  
 Pin 10 GND  
 Pin 11 RET  
 Pin 12 GND

### 11.1.4 Focus

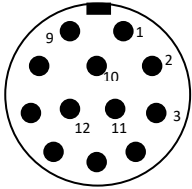


Figure 9

Type: Hirose HR10-10R-12S

- Pin 1 +12V out/ 100mA
- Pin 2 GND
- Pin 3 Uref 7.5V
- Pin 4 Uref 5V
- Pin 5 Uref 2.5V
- Pin 6 FD detect
- Pin 7 F control sig. / (D+)
- Pin 8 F follow sig. / (D-)

### 11.1.5 Remote

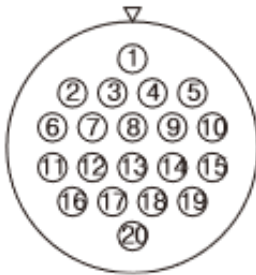


Figure 10

Type: Hirose HR25A-9R-20-S

- Pin 1 +10 - +30V (not for Motors)
- Pin 2 GND
- Pin 3 TxD (to Host)
- Pin 4 +5V (1kOhm)
- Pin 5 DTR
- Pin 6 DSR
- Pin 7 RxD
- Pin 8 IRIS control
- Pin 9 VTR
- Pin 10 RET
- Pin 11 Iris Follow
- Pin 12 Iris Auto/Remote
- Pin 13 Zoom Follow
- Pin 14 Iris Servo
- Pin 15 Serial Data Lens → Camera
- Pin 16 Zoom Encoder A
- Pin 17 Zoom Encoder B
- Pin 18 Focus Encoder A
- Pin 19 Focus Encoder B
- Pin 20 Serial Data Camera → Lens

## 11.2 Specifications

Specification	Value
Chrosziel Part Number	CDM-PREM-FIZ
Weight (Premista Servo Drive)	approx. 1,0 kg (2.2 lbs.)
Max Zoom Speed (min to max or max to min)	1,5 Sec
Size (see Figure 11 and 12)	l=155 (without antenna) w=115mm h=124mm
Operating Temperature	-10 °C -40 °C (20 °C is recommended)
Gear Module	0.8
Power supply	10-30V (Lemo compatible 0B 5-pin)
Power consumption max. approx.	300mAh @ 12V, no motor moving Up to 4A @ 12V, all motors moving @ full speed and torque
Demand Input Focus	analog/digital 16-bit
Demand Input Zoom	analog/digital 16-bit

## 11.3 Mounted Premista Servo Drive sizes

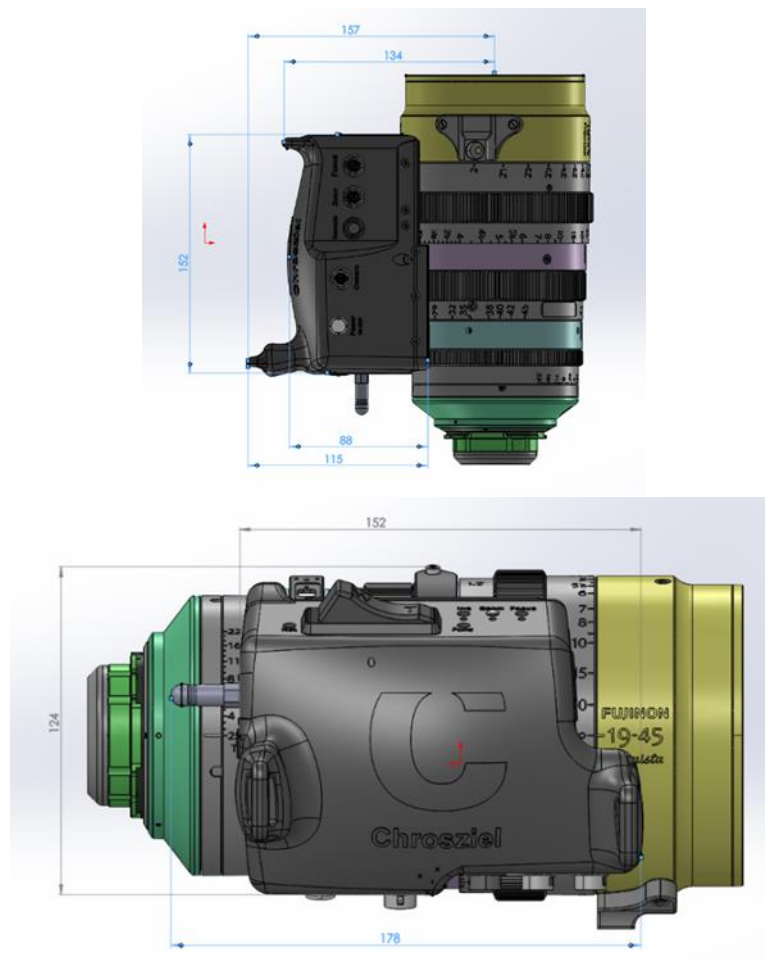


Figure 11

(N.B.: Pictures show Premista Servo Drive mounted on an example Premista 19-45 lens.)

## Declaration of Conformity



Manufacturer:  
Chrosziel GmbH  
Klausnerring 6  
85551 Kirchheim  
Germany

Product:  
Servo drive for Fujinon Premista Lens series CDM-PREM-FIZ operating in frequency band:  
GHz: 2400,75 - 2481,75  
Standard Frequencies: RADIO LICENCE FOR EUROPE CE Radio modules

Herewith we certify that our product mentioned above comply with CE conformity regulations.  
And is in conformity with the essential requirements and other relevant provisions of the  
following EC directive including all applicable amendments:

99/5/EC of 9 March 1999  
2011/65/EU of 1 July 2011  
EN 300 220-2 V2.4.1 (2012-05)  
EN 300 328 V1.7.1 (2006-10)  
EN 300 440-2 V1.4.1 (2010-08)  
EN 301 489-1 V1.9.2 (2011-09)  
EN 301 489-3 V1.4.1 (2002-08)  
EN 60950 (2006)  
EN 62368-1 (2016)  
IEC/UL 62368

CDM-PREM-FIZ has been assessed to the RoHS2 & RoHS3 Directive using the following  
harmonized standard:  
RoHS 2 – (2011/65/EU) + Extension RoHS 3 (EN 50581).

Kirchheim, July 2022

Chrosziel GmbH  
Timm Stemmann  
CEO Chrosziel GmbH  
85551 Kirchheim b. München





