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INTRODUCTION

Easyfocus is the very first active focus system and distance measurement tool combining an extremely precise reader with a touchscreen. Invented by Fritz Gabriel Bauer AAC, famous for designing MOVIECAM and ARRICAM lines of cameras, Easyfocus revolutionizes the art of focus pulling. Never has it been easier and more precise to focus in delicate setups with cranes, rigs, remote heads etc. As images get sharper it’s comforting to know that for the perfect focus you’ll need one take only...

To measure the distance between the camera focus plane (film or sensor) and an object visible on the video assist screen, the EASYFOCUS Reader is directed by a mouse, pen and finger (limited operation) on the touch screen. The measured distance appears on a little flag next to the target as well as on top of the user interface window. The measurement can be shown using metric or imperial units.

The effective measuring range of the EASYFOCUS – depending on the target’s surface – is from about 3 ft (1m) to 400 ft (122 m). By using the FOCUS BAR, the working range is extended from CLOSE FOCUS to INFINITY. Although the EASYFOCUS is primarily intended for focus pullers, the MAP SCAN delivers 3D data for further use for CGI, prints, etc...
Compatibility of the EASYFOCUS with cameras, lenses and lens control devices

To obtain the best possible results using the EASYFOCUS, the system has to be calibrated with cameras and lenses.

The EZ2 is compatible with most cameras fulfilling the following two requirements:
1. Groundglass or Sensor in Super-35 format
2. 8V to 24V power supply

A set of mounting accessories enables using the EZ2 with cameras like (depending on the camera setup):

- ARRI ALEXA, M, PLUS, Studio, 65, Mini
- SONY F35
- SONY F55
- SONY F65
- PHANTOM Flex, Gold
- RED EPIC

The relevant parameters of the most popular lenses have been saved in the EZ2 database, enabling a fast set up when a lens has to be changed. EZ2 works with Lens Control devices by Cmotion, Preston, ARRI and Chrosziel.
FIVE WORKING Modes

FOCUS Mode
The FOCUS Mode offers the simplest way of using the EASYFOCUS system. No need for tape measure, place the cursor on a target and click the left mouse button. Immediately, the measured distance will appear in a little flag next to the target and in the Reader field on top of the Users' Interface window. While the FOCUS Mode has been selected, the lens motor will automatically shift the focus to the measured distance in the shortest possible time.
When another target is selected on the PC-screen, the EASYFOCUS will immediately tell the motor to shift focus to the new distance.
Instead of using the mouse, selecting the target on the touchscreen will trigger the same action.

RAMPING Mode
When the RAMPING Mode is activated, the lens motor will shift the focus from the actual set distance (e.g. Reading A) to a new one (e.g. Reading B) in a predetermined duration. This option of presetting the focus ramp time (from 0.1 to 9.9 sec.), can provide a more sensitive control.

TRACKING Mode
When the TRACKING Mode is activated and the cursor follows the movement of a target, the EASYFOCUS Reader will permanently measure and display the actual distances as long as the left mouse button (or hold function) is pressed, or target is pressed on the touchscreen. The Focus Lens Motor will shift focus accordingly.

MANUAL Mode
In the MANUAL Mode, the EASYFOCUS Reader provides measuring distances, but only the Cmotion or Preston Lens Control Units (e.g. Coperate or Cvolution Hand Unit) have control of all connected lens motors. Another way to pull focus manually is provided by the FOCUS BAR – see page 45.

MAP Scan
The MAP Scan allows to measure a set in order to create a topographic map. Little flags located next to the targets on the video image show the distances to the camera including 3D data. Save, view and export distance and 3D data for further use for CGI, prints, etc…
THE EZ2 SYSTEM COMPONENTS

The EZ2 System is split into two units:

1. The EZ2 Reader and its mounting hardware, cables
2. The EASYFOCUS tablet and its power supply

The tablet features an internal battery, lasting about 4h (depending on outside temperatures and operation). A set of power connections (car connector, XLR connector, AC/DC) is included.

PACKAGING

The complete system fits one case:

1. Support Arm (19mm or 15mm rods)
2. USB Mouse
3. Set of cables
4. Allen Key #3
5. Long Allen Key #5
6. Brackets
7. Spacer Bar
8. Extra Brackets Space (e.g. ALEXA, EPIC,..)
9. EZ2 Reader
10. EZ2 Antennas - Tablet, Reader (optional)
11. Set of Brackets for several cameras
SYSTEM CONFIGURATIONS

The Reader has to be attached to the camera-system using the Support Arm.
A set of mounting brackets and the Spacer Bar (including 3 different rods with standard length marking) ensure exact and secure positioning of the Reader.

Independent of the mounting, the Reader has to be connected either via cables or wirelessly to the EZ2 tablet. To connect wireless hit the „wireless connection“ button in the SETTING home options.
Mounting the Brackets

Easyfocus is offering a variety of mounting brackets for different cameras. Mount the bracket onto the camera using an Allen key #5. Tighten firmly!

Mount the Spacer Bar on the Bracket and choose your rod. Three different rods are available. Each rod has a red marker ring indicating the preset length of horizontal interspace.

Then push the Support Arm towards the bracket or red marker and make sure that all clamps (on the Support Arm as well as on the Bracket) are tightened.

If the notch of the Support Arm is flush with the Bracket and no rod (space) is visible between the Bracket and the Spacer Bar (the red marker ring), then select the corresponding preset interspace length at the setting page "READER".

In case the preset length of the rod/spacer does not fit your lens, enter the distance between the Bracket and the Reader enter the distance manually. (See green indicated space in drawing).
IMPORTANT
One of the most important preliminary steps is to position the Reader accurately. Like every other optical system, only when the distance between the focus plane of the camera and the Reader is set correctly, the results of EZ2 measurements are accurate.

ATTENTION: Standard, preprogrammed length valid only when hitting the red market with the support Arm.

Spacer with "small" rod.

Rod with red market ring. 2 standard, preprogrammed lengths (medium, long).
SUPPORT ARM

Depending on the system used, use either a Support Arm module for 15 or for 19mm diameter rods.
On the Support Arm, an optional adapter for easy mattebox mounting is available (ARRI standard).

Place the Reader onto the holder, making sure the alignment pins fits perfectly and tighten the wingnut closure.

ATTENTION
choose between STUDIO or COMPACT

STUDIO (as in picture)
COMPACT (lower position of the Reader - closer to the lens)
The EZ2 Reader contains all the mechanical and electronical components, IR Distance Meter device enabling the performance of the EZ2 System.

On the front side, a colored mirror/transparent sheet (1) protects the sensitive optical parts.

**CAUTION:** This sheet has to be handled with extreme care: any scratch, fingerprint or dirt will affect the precision of measurements.

On the right side of the unit, three plugs enable connections to the EZ2 tablet, power source and Lens Control Systems.

- RS power plug (3pin)
- wired connection to EZ2 Tablet (4pin)
- LCS connection (8pin)
- USB update port

The bottom of the Reader perfectly slides into the ring of the Support Arm. An alignment pin secures correct positioning.
The EZ2 Tablet and its chassis feature all important interfaces. All connectors can be found at the rear left side; power connection is located on the rear left side.

The EZ2 System Base Station has to be powered by its own power supply, e.g., internal battery, car charger, eternal battery. Make sure internal battery is always charged before using the system.

**CAUTION:**
Use 12V-32V dc batteries only! You may plug the EZ2 tablet into any regular 100V-240V power grid. In case of power shutdown, simply press the POWER button and system reboots and APP starts.

The battery end of the power cable uses a 3-pin XLR plug wired Pin 1 (−) and Pin 2 (+). Please be aware that there are other systems in the industry that use this connector, but reversed polarity. Make sure you do not mix the systems.

When turning on the tablet (the button is located at the right side of the tablet the EZ2 application will automatically start.

To turn OFF the system use the Microsoft routine.

Fasteners are provided on both sides of the tablet to flip down the screen protection and table. Use the table as mousepad. The touchscreen pen is provided. For high precision operation we recommend using pen or mouse on the touchscreen.
Tablet chassis back side features:
- tripod/ camera head stand fitting a standard dovetail plate
- standard vesa-mount interface
OPERATING THE EASYFOCUS

PREPARATION OF THE CAMERA

- Make sure that camera, Ground Glass/Sensor and lenses are compatible with the EASYFOCUS APP.
- Check alignment of the Lens Mount

**CAUTION:** The EASYFOCUS only works with cameras and lenses set for 35mm Hardware geometrics. The rental house assures that the Lens Mount is accurately installed and that the gate or sensor center is well aligned with the optical axis.

EASYFOCUS HARDWARE SETUP

- Mount the correct Rods on the Bridge Plate - (15 or 19mm supplied by the rental house).
- Install lens.
- Mount the appropriate Bracket on the Camera.
- Mount the Spacer Bar and select the spacer rod and its fitting length.
- Mount the Focus Motor on the rods (and in case additional motors for Iris and Zoom).
- Slide the Support Arm onto the rod - (15 or 19mm) till Spacer and Support Arm fit tightly.
- Make sure that the Spacer Bar rod doesn’t gap on the front side of the Support Arm to use the preprogrammed length. Otherwise choose MANUAL and type in custom length of interspace.
- Mount the Reader.
- Set up the EZ2 tablet on a tripod, in a vehicle, on your lab or any other special setup.
- Connect all cables – going hardwired via cable or wireless.
- Power tablet first and then power Reader (by connecting Camin, or Preston/ARRI Motor Box, LCS to Reader)
CONNECTING THE SYSTEM COMPONENTS
wired / wireless operation

IMPORTANT:
Select the connecting mode first (wired or wireless) checking
HOME settings of the Easyfocus application!

REMARK:
Cables depend on Lens Control System – be sure to have the
correct ones.
1. Connect the EZ2 Tablet to Reader. Use provided 4pin to
4pin cable.
2. Power tablet.
3. Alternatively choose wireless connection.
4. Connect EZ2 Tablet to HD/SDI out camera via BNC
5. Connect Reader to LCS (choose correct cable for
different Lens Control Systems. If necessary connect to
RS power. Reader starts once powered.
6. Connect the EZ2 tablet to power supply
(power grid, 24V / XLR 3 pins batteries, car charger).
7. Wireless connection will automatically run if activated in
HOME Settings.
CONNECTING THE SYSTEM COMPONENTS
– wired operation

**IMPORTANT:** Check for correct Lens Control System cables.
CONNECTING THE SYSTEM COMPONENTS
– wireless operation

IMPORTANT: Make sure to select correct channels for hand-units.
EASYFOCUS APPLICATION

Turn on EASYFOCUS tablet, the EASYFOCUS application will start automatically. Run through the SETTINGS to prepare for operation. While shooting, only the lens motors will have to be calibrated when lenses are changed.

MAIN SCREEN
Make sure camera, the lens control system and the EZ2 tablet are powered. Turn on tablet, Easy and hit SETTINGS button.
On top of the settings popup window index tabs are aligned in a task bar.

After entering data or making adjustments, click OK to save all entries. This menu page will fade out and the MAIN SCREEN (EASYFOCUS User Interface) will appear. Instead of clicking OK, click another tab on top, e.g. LENS, to continue the initial setup.
All entries are automatically saved when SETTING window closed by hitting OK.
STEP 1: HOME SETTINGS

Click SETTINGS button to open and change system’s settings. A popup window opens.

Adjust IMPORTANT BASIC INFORMATION:

1. DATE and TIME
   If the displayed date and time are not correct, click the EDIT DATE BUTTON for adjusting time and/or date.

2. UNITS OF MEASUREMENT
   Change meter or feet. You can change any units time during operation.

3. TYPE OF CONNECTION
   Enter the type of connection between the Reader and the Base Station: CABLE or WIRELESS.

4. SETUP CHECK
   Check system settings after setup is completed. Red laser will be turned on to visually check correctness of setup.

5. MAINTENANCE
   Enter for system maintenance. Only for service staff.
STEP 2: LENS SELECTION

To change lens pick the correct manufacturer and lens (serial number) from the dropdown menu:

1. Click the SETTINGS button.
2. Open lens tab.
3. Select correct lens from Manufacturer and lens dropdown menu.
4. Click CALIBRATE MOTOR button, the computer will initiate calibration of all connected motors (Focus, Iris, Zoom).
5. To assure that the remote adjustments are correctly performed, test the system by assigning the motors to set desired values. In case the correct focus does not appear in the F (focus) and/or Z (zoom) field, invert the rotation direction of the Lens Motor(s). Check FOCUS and/or ZOOM box. Using Preston LCS make sure the focus motor direction is in “right” position.
6. Click the little box when using a 2x extender.

7. Click OK to save the selected lens and other settings. Reopen SETTINGS to change data or if needed.
The System includes a library of various lenses. Click IMPORT LENS to add any lens to the system library.

1. Create full camera/EZ2 setup and assure correct horizontal levels. Point camera at a neutral (white) wall (distance to wall is about 3m/6 ft).
2. Use a small headlight (e.g. Pinza, Ianiro 500) on tripod with closed flaps to create an even vertical defined ray of light.
3. Run CCalibration App located on the desktop (close Easyfocus Program and restart after CCalibration is completed).
4. To acquire lens angle data, close focus position is automatically set by focus motor. Invert the lens scale if necessary.
5. Align right frame line with a well visible high contrasting target in 3m distance. Close Iris to achieve maximum depth of field.
6. Once the target has been aligned with the frame line press next and complete step 1 to 6 by adjusting the green bar to your chosen target as it shifts with focal change.
7. To check accuracy of angle calibration use Verify Mode. Most lenses will need a correctional factor.
8. If using short lenses (17mm - 25mm) use the Angle % interface to narrow the FoV. Narrowing the angle to 75% will make it more accurate and easy to set correctional factor. If necessary move the red laser dot into the center of the green crosshair.
9. Using a Zoom Optic, set Zoom to min focal length.
10. Turn off LCS handunit so the Easyfocus the system drives to the next marking on the zoom automatically.
11. Click OK to save adopted lens. Your new lens can now be selected using LENS button and scroll down menu.
STEP 3: IMPORT LENS

If the lens you want to calibrate is not in the list below please close Easy Focus and create the lens using the calibration program.

Lens
Manufacturer
\hspace{1cm} ANSENEUX

Lens
Optima 24-290 / T2.8 / 2010461

Enter Nodal
Invert Scales
\hspace{1cm} Focus
\hspace{1cm} Zoom

Calibrate Field of View
To verify calibration move the visible laser dot into the center of the green cross hair on the right side of the screen using the arrow buttons. Click check to activate visible laser. Move the laser using the arrow buttons and hit check again to refresh the position of the laser. Click save and enter to store the acquired angle data in the lens database.

Focus Motor Position
Angle
\hspace{1cm} 100%
\hspace{1cm} 75%
\hspace{1cm} 50%

Cancel Next
Exit Save and Exit

Cancel Next
The EZ2 app needs to get the precise mounting parameters of the Reader.

**NOTE:**
This operation always has to be carried out if the position of the Reader is changed.

1. Click on the SETTINGS button.
2. Open the Reader tab in the task bar.
4. Select the used Spacer length - check SHORT, MEDIUM or LONG.

Only when the “standard” length of the Spacer Bar is not used to position the Reader – e.g. its extension has to be adjusted by telescoping the rods to another length, select the „Manual“. Now enter the custom length (from the Bracket to the Support Arm.

5. Click in the MANUAL box.
   A number pad pops up, enabling to enter the measured distance.

6. Click OK to save the adjustments and closes the Reader settings window.
STEP 5: GROUND GLASS - SENSOR MARKINGS CALIBRATION

The Reader’s FOV has to be calibrated with the FOV of the camera. Align the red marking lines of the Reader with the markings of the Ground Glass (GG), sensor.

1. Click SETTINGS button.
2. Click the ALIGN tab in the task bar to open the Ground Glass (GG/Sensor) window.
3. Click SELECT in order to open a list of dimensions (mm scale!). Select the installed dimension from the database.
4. In case the installed size of Sensor/GG is not listed, or an electronic frameline is used, the dimensions of the frame can be entered manually. Check DIMENSIONS button and enter size manually through the number pad.
5. Align the four red frame lines (using the eight arrow buttons until they match the GG/sensor or EVF markings.

FIELD OF VIEW OF THE READER

The field of view of the EZ2 Reader is similar to that of a 28mm prime lens. As soon as a short focal lens is selected or using a zoom lens reaching the wider FOV, the system inserts static and dynamic limits (yellow lines) on the computer screen, indicating the area where no correct operation can be guaranteed.
STEP 6: CENTER CALIBRATION

It is important to calibrate the EZ2 Reader with the lens. To align the Reader with the optical axis of the lens, the red reference laser has to be directed to the center of the ground-glass.

Remarks:
- Pointing the camera towards a bright surface is helpful.
- Use a focal length longer than 40mm when using a zoom. If a zoom lens is used for this calibration, it is recommended to set the focal length of the middle of the zoom range.

1. Click CENTER CALIBRATION to activate the red reference laser as well as a red reticle in the center of the GG/sensor. Use the eight arrow buttons to place the red point in the center of the reticle.
2. Click OK to save the adjustments and close the ALIGN settings window.
3. When turning off the Reader, center calibration data and settings are saved. Turning on, the Reader will perform automatic calibration and return to latest „center calibration” positioned center. When using a new lens, perform new center calibration as described.
THE FOCUS BAR

A focus scale, showing INFINITY on top and 1 ft / 0.4 m at its base, is always displayed on the right side of the video image. Depending on the preset unit of measurement, the scale shows ft or m.

As soon as a lens has been selected, the lens scale is automatically conformed with the FOCUS BAR values. The focus index (yellow line) shows always the actual focus setting of the lens.

Only when a stylus, a fingertip or an activated mouse is placed on the scale, does it take over the focusing function. Moving a cursor along the FOCUS BAR enables pulling focus "manually".

CAUTION:
The FOCUS BAR always has priority over other ways to pull focus, except when MANUAL Mode or MAP SCAN Mode has been selected.

Since the range of the System is between 3 ft and 450 ft, the FOCUS BAR enables manual focusing from close focus (cf) to INF. This can be the case if an object moves farther away from the camera or an object is moving closer to the lens.

Therefore, when an object is leaving the range of the Reader and moves towards infinity, the appropriate focus shift can be performed manually by sliding the index accordingly on the distance scale.

The same appears if an object in closing in nearer than the Reader’s range (app. 3 ft) the adequate focus shift can be performed manually in sliding the index accordingly on the distance scale.

If an object has to appear from outside the frame into the picture, the known distance can be set on the FOCUS BAR. The object appearing will be in focus and can be tracked from then on.
OPERATING THE EZ2 SYSTEM

As soon as all settings have been set and saved (click OK button in the bottom right corner), the User Interface Screen will appear.
It shows the latest configuration as it has been left at the end of the previous job.

STRUCTURE OF USER INTERFACE MAIN SCREEN

1. 
2. 3,51 m
3. 
4. 3,51 m
5. 
6. 
7. 
8. 
9. 
10. 
11. 
12. 
When activated by clicking the RANGE button at the bottom left corner of the screen, only measurements between predetermined near and far limits will be displayed.

As soon as this button lights green, both fields NEAR and FAR are activated, and distances between 6 ft (1.80m) and 400 ft (122m) can be entered. Clicking one of the fields opens a number pad for entering the distance. Clicking OK in this pad will save the figure and close the pop up window.

When disabling the RANGE option – the button and the fields fade to gray – both figures in the fields remain visible, but have no function.

The actual setting of the focus barrel is displayed here.

The five mode buttons are located under the video screen. By fading to green, the buttons show that the selected working mode has been activated. To change a working mode, just click one of the four grey toggle switches.

A warning and three buttons are grouped in the bottom left corner of the main screen.

A  The warning field shows the actual voltage supplied to the Reader

B  Clicking the settings button opens the settings windows. It alternates red/white as long as all necessary parameters have not been entered in the PC.

C  Clicking range enables or disables this function

D  Clicking clear screen erases all focus flags generated in the mapping mode.

Two additional buttons appear as soon as the TRACKING Mode has been selected.

E  Infinity Start

F  Center tracking

This bar shows technical parameter about actual settings.

The cursor enables precise tracking, moving, navigation, control of the Reader.

While the MCEF has the capacity of focusing between about 6 ft and about 400 ft, the Focus Bar enables pulling focus from infinity throughout the full range to the MOD (CF).

The cursor on the Focus Bar can be moved by a mouse, a stylus or a fingertip. Moving this cursor will overrule the other MCEF mode except the MANUAL and MAPPING ones.

Clicking this run/stop button will trigger the camera. It fades to green when the camera reaches its preset FPS and starts blinking red when the camera is running up or down.

All messages generated by the MCEF computer will show up in this message window. Information is dedicated to maintenance staff.
WORKING MODES

A. FOCUS MODE

Placing the cursor or the pin on the target the measured distance will appear in a little flag next to the cursor and the Focus Lens Motor will pull focus accordingly onto the chosen target in the shortest possible time.

While the FOCUS Mode has been selected, the RANGE and CLOSE UP option can be activated.

Benefits of this option are:
- While activated, the RANGE option will prevent the Reader from measuring targets that are beyond this active range. Objects passing between the camera and the near set distance will not affect the focus on the target.
- Using the RANGE option applies faster measurement and accelerates focus shift.
B. FOCUS RAMPING MODE

The RAMPING Mode lets you preset – between 0.1 sec and 9.9 sec – the duration of a focus shift.

1. Click the FOCUS RAMPING button to start this working mode. A pop up button appears below the FOCUS SETTING display.
2. Click into the green field to open a number pad.
3. Enter the desired ramp duration (e.g. 2.5 sec) and hit OK.

Now choose your starting target - focus is shifted accordingly. Once touching the new target, focus will be shifted within one even pull to the newly selected target.

C. MANUAL MODE

MANUAL Mode button enables the manual use of Lens Control System.

While this mode is selected, the Reader remains operational and may help to measure and display distances. Your hand-unit now has full control.

ATTENTION: Switching from EZ2 to Manual Mode the focus will drive to your handunits focus setting - vice verse.
INFINITY START
Activating the INFINITY START option immediately sets the lens on infinity. While moving the cursor on the approaching target the system will start pulling focus accordingly once the target is in range.

MOTOR RESPONSE
Change the speed of focus motor response for artistic reasons.
0 = maximum motor speed (fast targets)
4 = minimum motor speed
E. MAP SCAN

The MAP SCAN allows to measure a set in order to create a topographic map. Little flags located next to the targets on the video image show the distances to the camera including 3D data. Save, view and export distance and 3D data for further use for CGI, prints, etc...

1. Determine the framing and lock the camera head.
2. Click MAP SCAN to select Mode.
3. Place the cursor on the first target and click the left mouse button (or hit target with pin). A flag with the measured distance will appear next to the target.
4. Place the cursor to next relevant target and repeat the measurement procedure.
5. The MAP SCAN button is now labeled SAVE MAP. Click to save all measurements including the frame in a file. To download the file, connect an USB stick. The files are located on a desktop folder (close EASYFCUS app to access; all settings will be saved automatically)
6. Start the integrated Viewer App (located on desktop) to load, view and export Map data.
TROUBLESHOOTING

In case the system is not working correctly, each Parameter (mechanical setup of the Reader, lens calibration, center alignment) has to be checked.

Click the SETUP CHECK button; the following message will show up:

To check the system click OK. Now the red reference beam is activated. Click OK to save and close message window.

Now a red dot is visible on the (reference) wall. Move the cursor to a few spots and check if the red dot always remains on the target and the cursor. If the red dot is constantly aligned on the allocated target, the system is working accurately.

By selecting any mode, the reference beam will be deactivated.

In case the system was shut off due to low battery just plug into a power source and restart the system. The app opens in the exact same status as shut down.

You may save your setting in the USER tab - click „Reload Previous Settings“. The system always saves the latest settings and actions. Simply restart the system to continue work.
LIST OF RELEVANT MESSAGES GENERATED BY EASYFOCUS COMPUTER

<table>
<thead>
<tr>
<th>Shown in the DISTANCE WINDOW</th>
<th>Shown in the MESSAGE BAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>too close!</td>
<td>ERROR SERIAL PORT COULD NOT BE OPENED</td>
</tr>
<tr>
<td>too far!</td>
<td>ERROR VIDEO CARD COULD NOT BE INITIALLYSED</td>
</tr>
<tr>
<td>bad obj!</td>
<td>NO CONNECTION TO READER</td>
</tr>
<tr>
<td>no echo!</td>
<td>NO PAL VIDEO SOURCE</td>
</tr>
<tr>
<td>no scan!</td>
<td>NO NTSC VIDEO SOURCE</td>
</tr>
<tr>
<td>---</td>
<td>NO CDISPLAY CONNECTED, OR NO LENS LOADED</td>
</tr>
<tr>
<td>Ready</td>
<td>NO LDS LENS CONNECTED</td>
</tr>
<tr>
<td></td>
<td>NO LENS CHOSEN</td>
</tr>
<tr>
<td></td>
<td>NO CENTER CALIBRATION DONE</td>
</tr>
<tr>
<td></td>
<td>LENS MOTOR NEEDS TO BE CALIBRATED</td>
</tr>
<tr>
<td></td>
<td>LENS MOTOR CALIBRATING</td>
</tr>
<tr>
<td></td>
<td>SCANNING</td>
</tr>
<tr>
<td></td>
<td>WARNING: Visible laser will be turned on after closing settings dialog.</td>
</tr>
</tbody>
</table>
Certificates

Class A Statement:
Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

EASYFOCUS PC (Tablet):
Contains Modules
FCC ID: PVH0946
FCC ID: EJEWB0093
IC: 5325A-0946
MIC ID: 204-210003

EZ2 Reader (optional - for wireless connection)
Contains Module
FCC ID: PVH0946
IC: 5325A-0946
MIC ID: 204-210003
Certificates

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. To avoid electrical shock, do not open the housings. Refer servicing to qualified personnel only.

Caution! Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. Do not open the outer caseings and disassemble or otherwise modify.

All products are intended for use in a locale where the emitted radiation is unlikely to be viewed with optical instruments. Aligning product device(s) with the lenses of CCD-cameras or infrared night vision devices may result in damage to such devices and is therefore not permitted. In accordance with BS EN 60825-1 and US standards 21CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice no. 50, dated June 24 2007, the S-15LM-0061 module is a Class 2 laser product. Laser safety eyewear is not required for such a module as it is considered to be non-hazardous - blink reaction will protect the eye from damage. Do not however view S-15LM-0061 laser modules directly with optical instruments such as binoculars, theodolites or telescopes. Do not stare into any laser radiation source(s) or shine into the eyes of others. It is safe to view a diffuse-reflected beam. Do not dismantle the unit in any way; doing so may expose laser radiation in excess of the Class 2 combined visible and invisible radiation limits.

The EZ2 Reader is classified as a CLASS 1 and CLASS 2 LASER PRODUCT.

CLASSIFICATION CERTIFICATE NUMBER:
LSC-YK-2015-03-B
BS EN 60825-1
LASER SAFETY REPORT 1509230920 GUT
FDA ANSI 21 CFR 1040
CLASS 1
Wavelength: 905nm
Max Energy per Pulse: 306nJ/pulse
CLASS 2
Wavelength: 635nm
Max Power: < 0.6mW (CW)
CONTACT
Easyfocus GmbH
Email: service@easyfocus.at
Pummergasse 20
At 3002 Purkersdorf · Austria
www.easyfocus.at