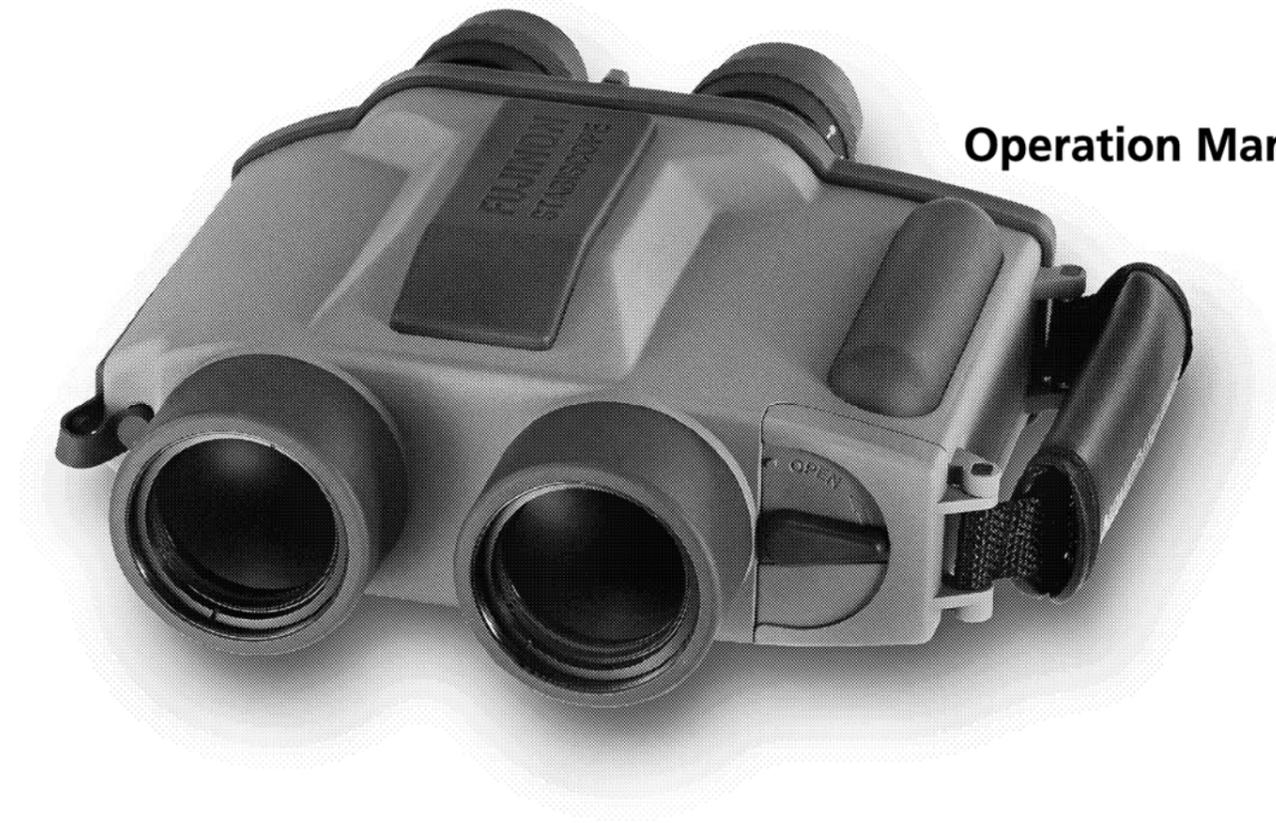


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FUJINON STABISCOPE



Operation Manual

FUJIFILM

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FUJIFILM Corporation

● Specifications

■ Optical specification

	S 1240	S 1640
1. Magnification	12x	16x
2. Objective lens diameter	40mm	40mm
3. Field of view	47°	34°
∕ at 1000m	82m	60m
4. Exit pupil Dia.	3.33mm	2.5mm
5. Relative Brightness	11.10	6.25
6. Eye Relief	17mm	12mm

■ Size

210x200x90mm (LxWxH)

■ Weight

1.8 kg (except batteries)

AA batteries 23g × 4 = 92g

Lithium battery 40g × 1 = 40g

■ Power source

Battery : AA (4 PCS) or lithium 2CR5 (1 pce)

DC Regulator : DC12~32 volt (use with DC regulator)

■ Standard accessories

neck strap	1 pce
hand strap	1
case	1
DC regulator	1
electric cable (in)	1
electric cable (out)	1
cleaning cloth	1
operation manual	1

■ Optional accessories

AA battery	4 pcs
lithium battery	1
polarizing filter	1 pair
orange filter	1 pair

(Note: Under field of view, at 1000m should be given; under Weight with batteries should be given. Missing specifications include Eye Relief, Exit Pupil, and Relative Brightness. Also, Stabiscopes housing material is not described.)

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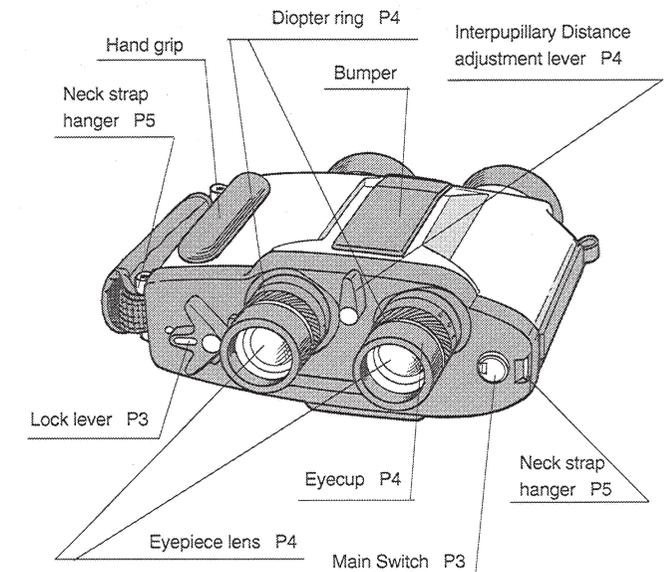
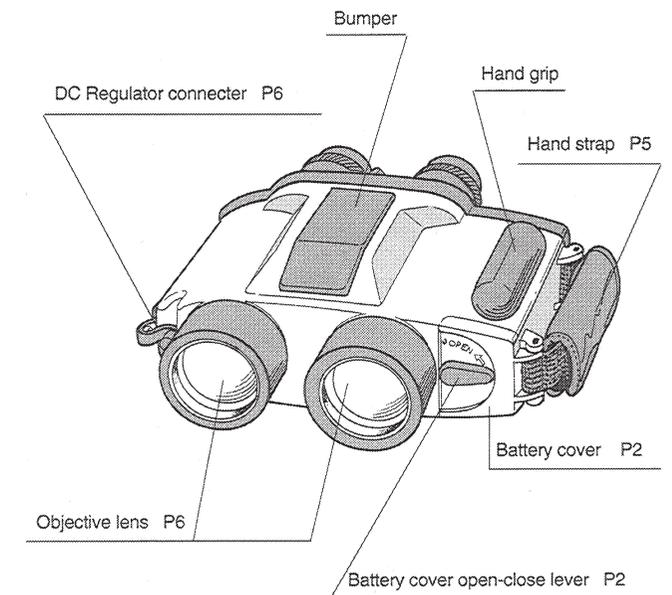
Specifications

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STABISCOPE FEATURES



● Stabiscopes Advantages

The Fujinon Stabiscopes, the world's first high powered, internally gyro-stabilized binocular has been proven on land sea, air and even in space...on NASA shuttle missions. Combining fully-coated, computer-designed optics with a patented high speed internal gyro-stabilized system, the STABISCOPE is the ultimate optical instrument for long range observation, identification, tracking and surveillance.

By stabilized only the high powered optics (not the entire device), weight is held to a minimum while the image remains steady and clear—free from the effects of normal body tremor as well the motion aboard boats, aircraft and land vehicles. The result is increased operator accuracy with less fatigue.

The new waterproof Stabiscopes S1240 and S1640 are lighter, more efficient and more flexible and easier to use. They operate on their own AA batteries or from an external 12-28 VDC source. In addition, the Stabiscopes can now be operated comfortably right-handed or left-handed. That is because it works right side up and upside down. All that's needed is simply reversing the location of the hand strap. Incidentally, when the power switch is turned off, the STABISCOPE may also be used as a conventional binocular.

● Battery Installation

1. Turn the open-close lever in the direction of the arrow mark and open the battery case cover. (Fig.2)
2. When inserting 4 AA batteries (SUM-3), be sure they are installed as shown, (Fig.3) with the positive + terminals facing the proper direction.
3. When using lithium dry battery (2CR5 type), insert them in the direction of the slot, as shown. Be sure to keep the contact side of the batteries facing towards the back. (Fig.4)
4. While pressing the battery cover, turn the open-close lever toward the "LOCK" position until you hear a clicking sound. (Fig.5)

Fig.2

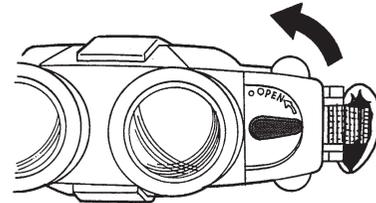


Fig.3

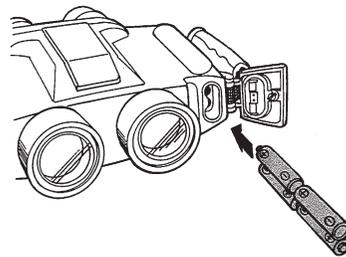


Fig.4

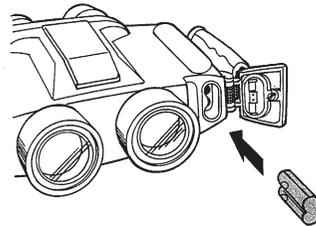
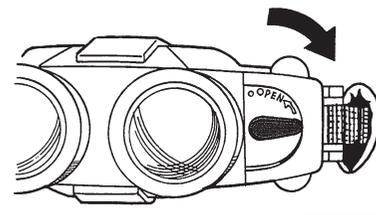


Fig.5



* Battery Life and Uses *

1. Alkaline manganese size "AA" dry batteries will permit about 2-hours of continued use; lithium dry battery will allow approximately 5-hours of continued use. Please note that lithium dry battery cost more, but they are lighter and offer greater resistance against low temperatures.
2. Do not use a different type of battery and mixture of new and used batteries.

Caution

Never mix alkaline and lithium batteries. And, for best results, do not mix new and used batteries.

● Care and Cleaning

The Stabiscopes is built to withstand heavy duty use, but it should still be treated with care. When not in use, it should be stored in a cool, dry environment in its own case. If it will be stored for prolonged periods, the batteries should be removed. Although the Stabiscopes is waterproof, it should be protected from unnecessary exposure to water and humidity. In hot weather, the Stabiscopes should not be kept inside a closed vehicle where heat could reach damaging levels.

Protect your eyes/never use the Stabiscopes to look directly at the sun. It is extremely dangerous and can cause eye damage.

Keep your Stabiscopes clean.

Lenses should be kept free of dust, salt and the oils that remain from fingerprint smudges. These oils can actually damage the Electron Beam Coating (EBC) applied to the lens surfaces.

To clean the lenses...

1. Use a soft, lint-free cloth and a good lens cleaner or alcohol.
2. Clean by rubbing the lens gently, in a circular motion, starting in the center and working your way to outer edges. If there is dust on the surface, blow it off prior to applying the cleaning cloth.

To clean the body and case...

Clean with a soft cloth, moistened if necessary. Be sure the Stabiscopes is completely dry before placing into its case. The case can be cleaned the same way.

● Symptoms and Solutions

The most frequent problems are usually the easiest to solve.

Symptom	Cause	Solution
Targeted image is unstable	Weak batteries	Replace batteries or switch to external power source
Gyro motor does not rotate	Batteries are in wrong position	Check battery polarity and replace in correct position
LCD falls to light	Weak batteries	Replace batteries or switch to external power source
Blurred image	Out of focus Stain on lens surface Haze, mist or strong glare	Adjust eyepieces Clean Use filters

If you experience any problems with your Stabiscopes not covered above, never attempt to repair it yourself, instead, return the Stabiscopes to your dealer or to Fujinon directly. You will find Fujinon locations listed on the back page.

●Filters and How To Use Them

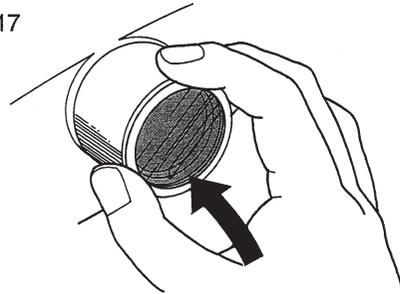
The two most common types of filters used with the Stabiscope are:

Polarizing ... effective for removing unwanted and distracting reflections from surface of water or glass. Also helpful for controlling contrast between sky and clouds.

Orange ... filters out bluish light (haze and mist) to improve contrast.

To install, simply place one filter over each objective lens. With polarizing filters, you can rotate each filter after placing it over the objective lens to control the exact degree of polarizing effect (contrast or removal of reflection) you want to achieve. (Fig.17)

Fig.17



●How to use the DC Regulator Pack

* No dry battery is required if an accessory DC regulator is used in areas where a direct current power source is available; i. e., aircraft, vehicles, etc. (Even when dry batteries are provided in this unit, if electricity is supplied through a DC regulator, the supply source of electricity will automatically be changed over to the DC Regulator.)

1. The connecting method is as illustrated in the figure. (Fig. 18)

2. The DC Regulator can be used within the range of 12-32V DC.

3. It is also possible to bend the cable as illustrated in the figure using connector cap. (Fig. 19)

Fig.18

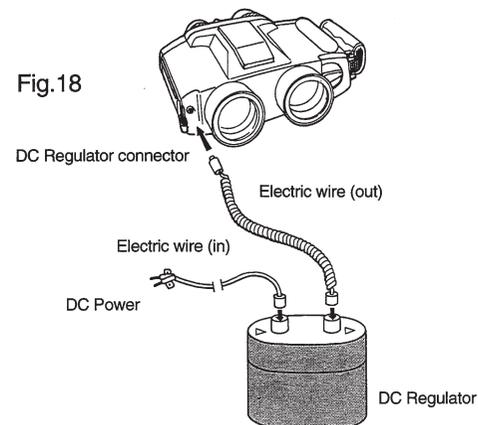
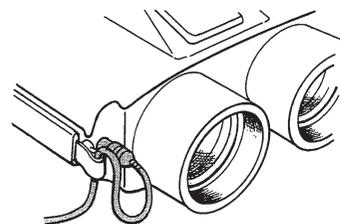


Fig.19



* CAUTION ! *

The cable of the external energizer has a +/- polarity. The white lead wire is positive and the black lead wire is negative. Please take care to make the proper connection.

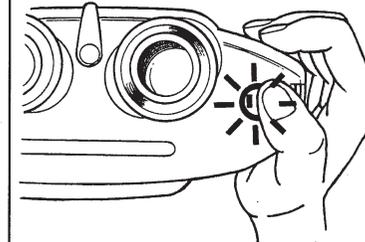
●Main Switch

1. Gently press the main switch.
A green LED will light and the gyro motor will start to rotate. (Fig.6)

2. Wait for about a minute until the gyromotor reaches operating speed.

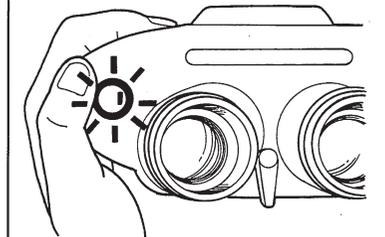
When hold a grip by left hand

Fig.6



When hold a grip by right hand

Fig.6



●Lock Lever

1. When operating the Stabiscope with your left hand, raise the lock lever in the direction of the arrow mark, as illustrated; when operating with your right hand, lower it in the direction of the arrow mark. When the lock lever is released, the

Fig.7

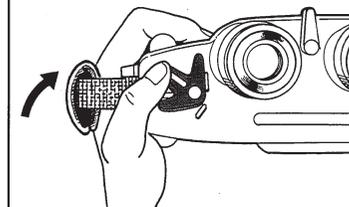
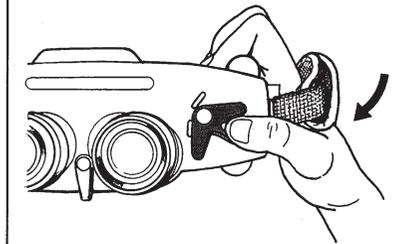


Fig.7



target can be observed without vibration or shakiness of the image. (Fig.7)

2. As described in the condition of 1 above, when the lock lever is released, a red LED positioned by the lock lever will light.
3. The red will blink on and off if the lock lever is released while the main switch is in the off position. Be careful not to let this condition continue for a long period.

* CAUTION ! *

When observation is not being performed or when the gyro motor is not rotating (when the main switch is OFF), keep the lock lever in the "LOCK" position. Please be careful not to carry the Stabiscope when the lock lever is released : such action may result in problems.

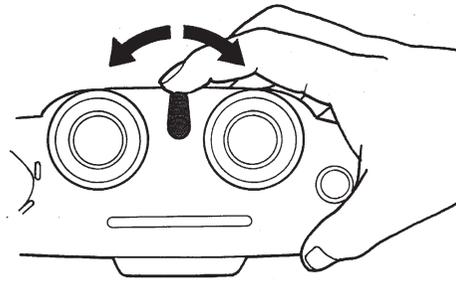
●Interpupillary Distance Adjustment

* Since the distance between the left and right eyes varies from person to person, in order to see comfortably while using the Stabiscopes, the distance in between the two eyepieces should be adjusted.

This can be done quickly and simply allowing anyone to use the Stabiscopes.

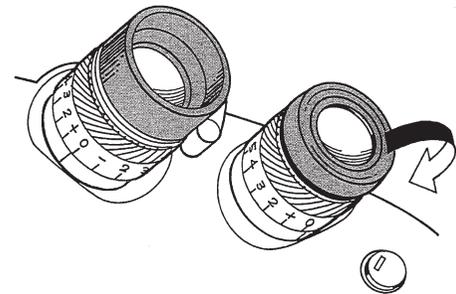
1. While looking through the Stabiscopes with both eyes, move the lever until you see a single, perfectly circular field of view. (Fig.8)

Fig.8



2. If you wear glasses, simply follow step 1 after folding the rubber eyecups back, as shown in Fig.9.

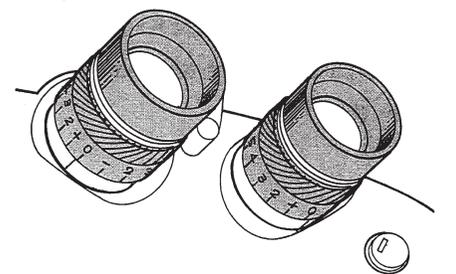
Fig.9



●Focusing

If you have good vision and free of astigmatism, each eyepiece can be set at 0 on its eyesight ring scale (Fig.10). If you wear corrective glasses, you should also be able to set both eyepieces at 0.

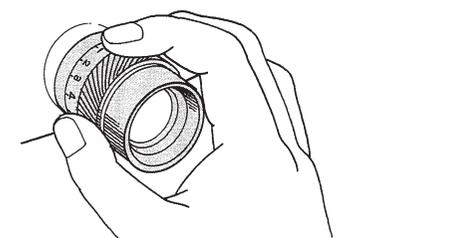
Fig.10



In general, focusing need be done only once for viewing distant subject. In some cases, where the subject is very close, it may be necessary to re-focus.

When focusing is required, adjust one eyepiece until the image is sharp; then adjust the other until both eyes see the image with equal clarity. (Fig.11)

Fig.11



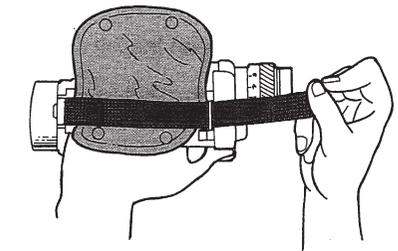
Manual focus as described above is also necessary when the target is at a short-distance.

●Hand Strap Adjust

* Adjust the length of the hand strap so that it is aligned with the grip while you hold it.

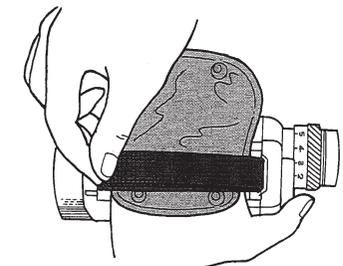
1. Unhook it. (Fig. 12)

Fig.12



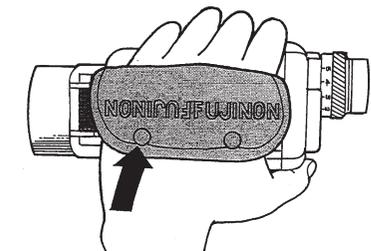
2. With your hand placed through the hand strap, pull the tip of the strap and fasten it with the Velcro so that it fits snugly around your hand. It may be necessary to repeat the process until you get the right feel. (Fig. 13)

Fig.13



3. Hook it. (Fig. 14)

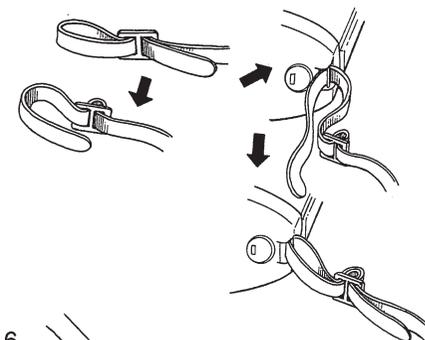
Fig.14



●How to install the neck strap

1. Remove one of the two straps passed through the clasp. Pass it through point A indicated in figure, and then pass it through the clasp again, as it was before. (Fig. 15)

Fig.15



2. Pass the strap through point B in the figure in the same manner. (Fig. 16)

Fig.16

