



## NEW PRODUCT BULLETIN

# TECHNO-STABI™ HIGH POWER BINOCULAR WITH DIRECT-DRIVE IMAGE STABILIZATION

*From the company that in vented gyro-stabilized binoculars — the new Techno-Stabi outperforms and out values the competition. Proven on space shuttle, Fujinon brings images stabilization down to earth.*

- Dual piezo-vibration sensors linked to direct drive motors help you lock on to subjects with rock steady images – even if both you and the subject are in motion
- Phase coated roof prisms for sharper, more highly defined images with greater contrast
- 100% waterproof, fog-proof, and dry nitrogen purged
- 100% multi coatings for the truest colors, brightest images and freedom from glare
- Automatic “sensing/response” stabilizing system minimizes power consumption, extends component operating life



The world's first binocular with an internal image stabilizing system was Fujinon's Stabiscopes. Introduced in 1980. The Fujinon breakthrough was based on stabilizing not the entire binocular, but just the optics. Still in production and widely used by the Army, Navy, Coast Guard, DEA, Border Patrol, FBI and others, (and standard equipment aboard shuttle flights), the costly Stabiscopes achieves a high degree of stabilization in all planes, with  $\pm 5^\circ$  of stabilization freedom. At a fraction of the price, so does the new Techno-Stabi. The 14 power Techno-Stabi virtually eliminates the jittery images caused by normal hand tremor as well as the far more profound effects of cyclical and irregular motion found when using binoculars on moving land vehicles, boats, ships, and on rotary as well as fixed-wing aircraft of high speed gyro motors, the compact, waterproof Techno-Stabi

relies on two direct drive motors, each controlled by its own piezo vibration sensor — one for horizontal control and one for vertical control. The result is instant image stabilization with minimum power consumption. You can pan to find and follow targets even when you and they are in motion and still see a sharp clear steady image. For outstanding optical performance, Techno-Stabi optics are fully coated for maximum light transmission and brightness; the roof prism are phase coated to deliver superb clarity and resolution. For use anywhere, the operating temperature range is  $-5^\circ\text{C}$  to  $50^\circ\text{C}$  ( $23^\circ\text{F}$  to  $122^\circ\text{F}$ ). The Techno-Stabi comes with a handstrap that can be attached to either side, and a color changing (green to red) battery condition LED indicator. It operates on 4 AA batteries or a 12-28 VDC external power source.

### TECHNO-STABI 14x40 SPECIFICATIONS

| Magnification | Obj. Lens Dia. (mm) | Eye Relief (mm) | Field of View Actual | Apparent Field (m) | Min. Focusing Distance (m) | Exit Pupil (mm) | Relative Brightness | Mini. Interpupillary Distance (mm) | Dimensions WxHxD (mm) | Wt. (g) |
|---------------|---------------------|-----------------|----------------------|--------------------|----------------------------|-----------------|---------------------|------------------------------------|-----------------------|---------|
| 14            | 40mm                | 13mm            | 4"                   | 87.5mm             | 5                          | 2.86            | 8.18                | 60-70                              | 186x148x86            | 1300    |



**FUJINON INC.**  
10 HIGH POINT DRIVE, WAYNE, NJ 07470 U.S.A.  
TEL: 973-633-5600 FAX: 973-694-8299

**FUJINON (EUROPE) GmbH**  
2 HALSKESTRASSE 4, 47877 WILLICH, GERMANY  
TEL: 2159-528545 FAX: 21 59-51 315

**FUJI KOKI SINGAPORE PTE. LTD.**  
221 HENDERSON ROAD #05-06, HENDERSON BUILDING  
SINGAPORE 0315  
TEL: 276-4988 FAX: 276-6911

**F.P. FOCUSING PTY. LTD.**  
UNIT F, 99 SILVERWATER ROAD, SILVERWATER  
N.S.W. 2188 AUSTRALIA  
TEL: 02-748-2744 FAX: 02-748-2428

**HONG KONG FUJI KOKI LTD.**  
UNIT 2605-2607, LEVEL 26 METROPLAZA  
TOWER 1  
223 HINGFONG ROAD KWAI FONG, N.T.  
HONG KONG, CHINA  
TEL: 2311-1228 FAX: 2724-1118

**FUJI PHOTO OPTICAL CO., LTD**  
1-324 UETAKE  
OMIYA CITY, SAITAMA 330-8624 JAPAN  
TEL: 048-668-2149 FAX: 048-651-8517

## Fujinon solves the problems of high power image stabilization...twice in 20 years

Fujinon's patented STABISCOPE, the world's first, high power image-stabilizing binocular was introduced in 1980. Unlike anything that came before, it relied on an internal high speed gyro motor to stabilize a dual gimbaled optical assembly, a concept that provides the foundation for the new TECHNO-STABI. Built to military specifications and currently available in its second generation model (at right), the



STABISCOPE has proven itself around the world and beyond. NASA made it standard equipment aboard space shuttles. It is also widely used by the U.S. Army, Navy, Coast Guard, FBI, DEA, Border Patrol, CIA, police departments and industry. The mil spec models cost more than \$5,000. The TECHNO-STABI is less than some *image stabilizing* binoculars that are not waterproof and only deal with hand tremors.



The TECHNO-STABI comes with a hand-strap that may be attached to either side of the binocular, a neckstrap with built-in floatation, lens covers and a Pelican waterproof, pressure proof carrying/storage case. And the case floats.



The TECHNO-STABI (shown upside down) operates on its own with 4 AA batteries, for up to 3 hours continuous use. With an O-ring seal and locking mechanism, the battery compartment maintains the binocular's waterproof seal.



**Optional External Power Kits** — for use with 12-28 VDC power, includes voltage regulator with built-in belt clip, battery compartment cover with connector and cables. A complete **AC-DC Converter Kit** is also available.

## Fujinon's TECHNO-STABI makes high power digital image stabilization easy, effective and economical.

- Dual piezo-vibration sensors and gyro position sensors, computer-linked to direct drive motors, help you lock on to subjects – even with both you and the subject in motion
- Phase-coated roof prisms for sharper, more highly defined images with greater contrast
- 100% waterproof, fog-proof, dry nitrogen purged
- 100% EBC coatings for the truest colors, brightest images and freedom from glare, flare and ghosting
- Automatic "sensing/response" stabilizing system minimizes power consumption, extends component operating life

## Specifications

|  |                            |
|--|----------------------------|
| Magnification                              | 14X                        |
| Compensation Angle (Stabilization Freedom) | ±5°                        |
| Objective Lens diameter                    | 40mm                       |
| Eye Relief                                 | 13mm                       |
| Diopter Adjustment                         | ±4                         |
| Apparent Field of View                     | 87.5m                      |
| Field of View at 1000m                     | 4°                         |
| Minimum Focusing Distance                  | 5m                         |
| Exit Pupil                                 | 2.86mm                     |
| Relative Brightness                        | 8.18                       |
| Interpupillary Distance                    | 60~70mm                    |
| Dimensions: WxHxD (mm)                     | 186 x148 x86               |
| Weight                                     | 1230g                      |
| Operating Temperature Range                | -10°C~50°C<br>(14°F~122°F) |

Due to a continuous process of product improvement, specifications are subject to change without notice.



FUJINON INC., 10 High Point Drive, Wayne, N.J. 07470  
973 633-5600 FAX: 973 694-8299

FUJI PHOTO OPTICAL CO., LTD. 1-324 Uetake, Omiya City, Saitama 330-8264 Japan  
Phone: 048-668-2149 FAX: 048-651-8517

©1999 Fujinon Inc. TECHNO-STABI™ and STABISCOPE™ are trademarks of Fujinon Inc. Printed in USA.