Wind Image Transfer

Device-toDevice
automated wireless
file TRANSFER

Wind Image Transfer

Picture-Based Mapping Solution for Trimble Mapping and GPS Handheld Devices

Wind Image Transfer provides seamless integration between the Ricoh 700SE or 500SE-W ruggedized digital camera and Trimble WiFi-enabled handheld GPS devices.

The Wind Image Transfer solution addresses the needs of mobile GIS professionals that require high quality images to be associated to mapping points collected with Trimble TerraSyncTM software, ESRI ArcPad, or other mapping applications compatible with Trimble Mapping and GPS equipment.

By utilizing the WiFi-enabled 700SE or 500SE in conjunction with the Trimble handhelds, users benefit from not only having a fully ruggedized system that ensure operational reliability in harsh environments but also the added benefits of a true device-to-device automated wireless file transfer and mapping images on the fly.

Example Workflows:

Public Safety
Inspections
Emergency Resources
Natural Resources
Survey Documentation
GIS Infrastructure

Wind IMAGE
GPS PHOTO MAPPING SOFTWARE

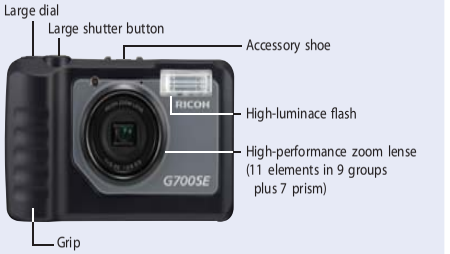
"Wind Image Transfer is a classic example of how the proper convergence of technologies can provide real-world benefits to workflows."

Wind Image Transfer

G700SE Specifications

No. of effective pixels (camera)	Approx. 12.10 million effective pixels
Image Sensor	1/2.3" CCD (Approx. 12.40 total million pixels)
Lens	Focal Length: 5.0 mm to 25 mm (equivalent to 28 mm to 140 mm on a 35-mm camera) F-aperture: F3.5 (Wide-angle) to F5.5 (Telephoto) Shooting Distance: Normal shooting: Approx. 30 cm to ∞ (Wide-angle) or 50 cm to ∞ (Telephoto) (from the front of the lens) Macro shooting: Approx. 1 cm to ∞ (Wide-angle *1), 15 cm to ∞ (Telephoto) or 1 cm to ∞ (Telephoto) (from the front of the lens)
Zoom Magnification	Optical zoom at 5.0X ,Digital zoom at 4.0X
Blur Reduction	Digital image stabilizer
ISO Sensitivity (Standard Output Sensitivity)	Auto/ISO 64/ISO 100/ISO 200/ISO 400/ISO 800/ISO 1600/ISO 3200
Flash	Flash Mode: Auto flash (fires automatically in low-light conditions and when the subject is backlit)/Anti Red-eye/Flash On/FLASH On (10M)/Slow Synchro/ Flash Off Built-in flash Range: Approx. 20 cm to 10.0 m (Wide-angle), approx. 40 cm to 6.2 m (Telephoto) (Flash ON (10M), from the front of the lens)
Picture Display	3.0" Transmissive amorphous silicon TFT LCD, approx. 920,000 dots
Shooting Mode *2	F (Fine), N (Normal)
Number of Recorded Pixels	Still Image: [4 : 3] 4000 x 3000F, 3984 x 2656F, 2592 x 1944, 2048 x 1536, 1600 x 1200, 1280 x 960, 640 x 480 [3 : 2] 3984 x 2656 Movie: 1280 x 720, 640 x 480, 320 x 240
Recording Media	SD memory card (3.3V 256MB, 512MB, 1GB, 2GB), SDHC memory card (up to 32 GB), SD WORM card *3 (128MB, 1GB), Internal Memory (approx. 103 MB)
Bar Codes Supported (when read with camera unit itself)	Linear: EAN-13/8 (JAN-13/8), UPC-A/E, UPC/EAN (with add-ons), Interleaved 2 of 5, CODEBAR (NW-7), CODE 39, CODE 93, CODE 128 TYPE C, GS1-128 (EAN-128), and RSS (GS1 DataBar) Matrix: QR Code, Micro QR Code, DataMatrix(ECC200), PDF417, Micro PDF417, MaxiCode, EAN • UCC Composite (GS1 DataBar Composite)
Power Supply	Rechargeable Battery (DB-65) x 1, AAA Alkaline Battery x 2
Battery Life *4	Based on CIPA standard, DB-65: approx. 360 shots / AAA alkaline: 40 shots *5
Dimensions (W x H x D)	118.8mm (W) x 71.0mm (H) x 41.0mm at thinnest, excluding projections
Weight	Approx. 286 g (excluding battery, SD memory card, and strap)
Water Resistance/ Dust Resistance/ Chemical Resistance	JIS/IEC waterproof grade 8, shooting to a water depth of approx. 5 m JIS/IEC dustproof grade 6 External cleaning possible with ethanol and sodium hypochlorite for disinfection
Operating Temperature	-10 ℃ to 40 ℃
Bluetooth ®	Communication Method: Bluetooth® standard Ver. 2.1+EDR
Communication Port	Output: Bluetooth® standard Power Class 2 Communication Range *6: Approximately 10 m (line of sight) Supported Bluetooth® Profile *7: BIP, OPP, SPP Frequency Band: 2.4 GHz band (2.400 GHz - 2.4835 GHz)
Wireless LAN	Compliance Standard: IEEE802.11b/g
Communication Port	Transmission Method: IEEE802.11g: OFDM IEEE802.11b: DSSS, DQPSK, DBPSK Data Transfer Speed *8: IEEE802.11g: 54M/48M/36M/24M/18M/12M/9M/6M (bps) IEEE802.11b: 11M/5.5M/2M/1M (bps) Communication Range *9: Approximately 30 m (This varies depending on the location of the devices, usage environment, and usage conditions) Security Protocol: WEP (64/128bit), WPA-PSK (TKIP/ AES), WPA2-PSK (TKIP/AES)Frequency Band: 2.4 GHz band (2.412 - 2.462 GHz)

*1 : The macro shooting wide-angle setting is f=5.9mm at a 33 mm focal length (35 mm equivalent).
*2 : The picture quality mode that can be set varies depending on the image size.
*3 : SD WORM cards can be purchased from SanDisk Corporation agents that supply corporate customers
*4 : The number of remaining shots is based on the CIPA standard and may vary depending on usage conditions. This is for reference only.
*5 : When using the AAA Alkaline batteries manufactured by Panasonic.
*6 : The communication range may vary depending on obstructions between the two devices, signal strength, software or operating system in use, and other factors.
*7 : These are specifications according to the intended use of the Bluetooth® enabled devices and are predetermined by Bluetooth® standards.
*8 : The data transfer speeds are the maximum theoretical values based on the wireless LAN standard and may differ from the actual data transfer speed.
*9 : The communication range may vary depending on obstructions between the two devices, signal strength, location of the devices, usage environment, software or operating system in use, and other factors.

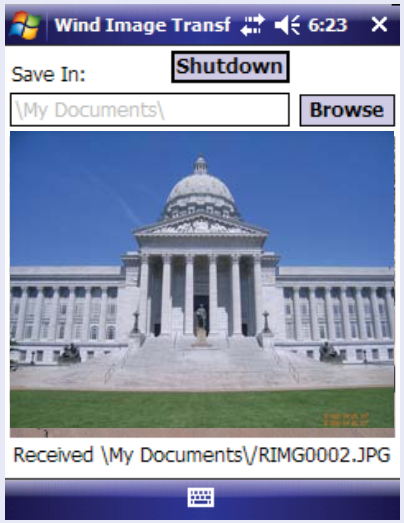


About the Wind Image Transfer Solution:

The Wind Image Transfer application enables a convergence of technologies to provide real world benefits to everyday workflows.

The Wind Image Transfer application enables delivery of high quality images captured with the Ricoh 700SE or 500SE-W camera to be transferred wirelessly to a professional grade GPS mobile device. As images are captured by the 700SE or 500 SE-W Ricoh camera, they may be sent automatically to a Trimble handheld using a wireless peer-to-peer WiFi connection. The Wind Image Transfer solution has tested and proven compatible with the following, but not liimited to, devices:

Geo XT, Geo XH, Geo XM, Ranger, Nomad, Juno, Recon, etc.



System Requirements:

Wind Image Transfer Software
-Current Version
Ricoh 700SE
or
Ricoh 500SE-W digital camera
-WiFi enabled
Trimble professional mobile device
-Windows mobile 5*, 6, 6.1 Or Better

* Windows Mobile 5 Devices require Microsoft . NET Compact Framework 2.0 Or Better.

Proven Workflows with:

ESRI ArcPad
Trimble TerraSync
Trimble Survey Controller
Most Professional Mobile Mapping Applications

Contact your Local Dealer

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