G700SE

Ricoh Dynamic Capture
The Ultimate Imaging Solution

RICOH

advanced

secure

rugged

Wind **IMAGE**
GPS PHOTO MAPPING SOFTWARE

Wi Fi

Ricoh Dynamic Capture

Expand Your Horizons

G700SE Dynamic Capture Imaging Solution provides you with a complete Data and Geo imaging solution. It allows you to streamline the integration of information with images, increase workflow efficiency and improve the accuracy of information collected in the field. G700SE offers the capability to combine barcode scanning with digital imaging, integrate quality images into mapping software and embed GPS coordinates with images using the optional GPS module. Features such as Bluetooth®, WiFi and rugged construction provide additional convenience.

- **Streamline workflow processes using the barcode-reading feature or by recording audio while you are taking a shot.**

- **Embed data with your images and transfer data seamlessly to your back-end Content Management System.**

- **Connect easily with Bluetooth® or WiFi capabilities using third-party wireless devices.**

- **Use the camera in all types of weather conditions. The camera's waterproof and drop resistant protective case gives you peace of mind when working in the field.**

Use G700SE Dynamic Capture Imaging Solution as a single unit solution with optional GPS module or in conjunction with external GPS devices via Bluetooth®

Advanced Secure Rugged

Combine Images and Data Easily

G700SE Dynamic Capture Imaging Solution provides a complete data-imaging solution by combining barcode scanning with digital imaging. It is an ideal solution for organizations that have barcode-based workflows.

- Associates images with barcodes seamlessly automating upload and integration of pictures and data. Stores scanned barcode and user-entered data in the image file.
- Streamlines workflow and increases accuracy of information. Eliminates manual processes needed to separately scan barcoded forms, download pictures from a memory device and associate the image files with the data.
- Associates additional meta-data with captured images through a user-configurable menu system on the camera (date and time are also recorded).
- Integrates the images with databases and associated documents, based on their barcode or entered data.


G700SE integrates seamlessly with most field data collection and image capture applications improving existing workflow processes.

GPS-Ready Camera Captures Location Data with Your Images

G700SE Dynamic Capturing Imaging Solution delivers a streamlined process for integrating quality images into mapping software application, offering the ideal solution for GIS professionals.

- Embeds GPS data coordinates with captured images automatically. Geo-codes images as they are captured and automatically stores GPS coordinates in the image file header.
- Transfer pictures and data to mapping software seamlessly. Sends Geo-coded images to a PC or server running ArcMap® where a plug-in tool extracts GPS data from images and generates standard ESRI* "shape" layer files.
- Associates additional meta-data with captured images through a user-configurable menu system on the camera.
- Allows images imprinting with GPS coordinates and any associated data.
- Links images and associated meta-data to mapped points based on their GPS location.
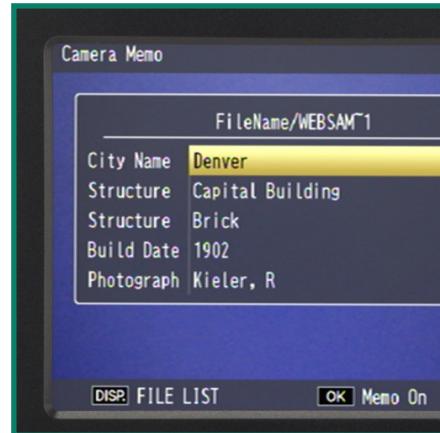
An onboard data dictionary allows you to store important information about your images.

Save Time and Increase Productivity

G700SE Dynamic Capture Imaging Solution is designed to give you a convenient and versatile imaging solution.

- Supports two Bluetooth® devices simultaneously for additional telemetry, such as laser range finders.
- Receives NMEA** data wirelessly from Bluetooth® enabled GPS devices for increased accuracy and efficiency.
- Shares images, file names or data, instantly using wireless devices with Bluetooth® and WiFi connectivity.
- Uses optional GPS module or in conjunction with external GPS devices via Bluetooth® connectivity for seamless data capture.
- Provides a rugged, field-ready, water resistant imaging solution.

You can use standard on-board Bluetooth® and/or WiFi capabilities to send and receive images remotely to any enable device (or server).

*ESRI: A popular geospatial vector data format for geographic information systems software.

**NMEA: A combined electrical and data specification for communication between marine electronic devices such as GPS receivers.

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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 °C to 40 °C
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.

Large dial
Large shutter button
Accessory shoe
High-luminace flash
High-performance zoom lense (11 elements in 9 groups plus 7 prism)
G700SE
Grip

Power button
Optical 5x zoom buttons (28-85mm, 35mm film equivalent)
Large 3.0" TFT LCD monitor

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