INTERGRAPH®

Copy Station/Readout Station

SSD

Readout Station or
FDS Copy Station

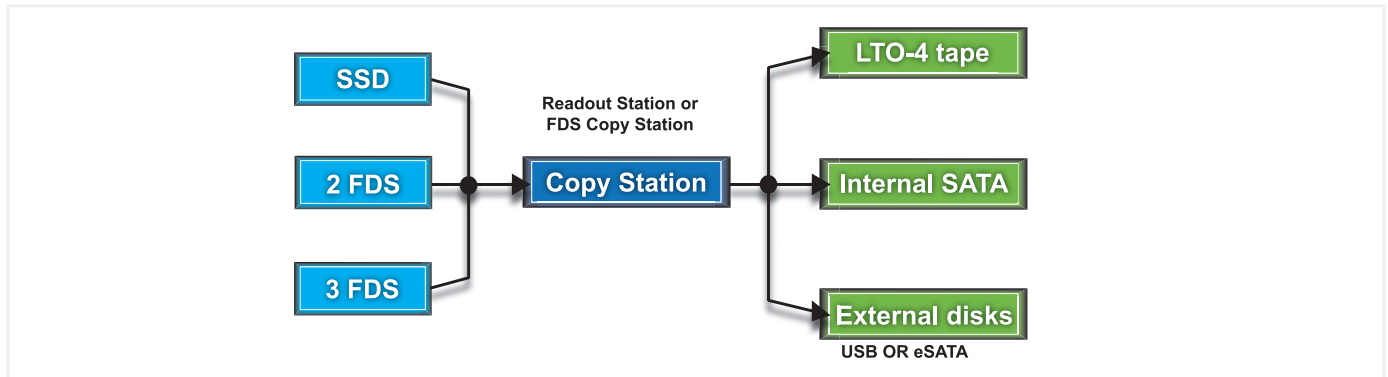LTO-4 tape

2 FDS

Copy Station

Internal SATA

3 FDS

External disks

USB OR eSATA

DMC field data copy solutions workflow diagram

Intergraph® offers the perfect solution for field data copy of raw Digital Mapping Camera (DMC®) image data, from airborne storage to removable media. You can choose from two different products – Flight Data Storage Copy Station and Solid State Disks Readout Station – optimized for flight data storage (FDS) and solid state disks (SSD) DMC configurations. This data copy functionality is an essential part of the DMC workflow. Our solution allows you to select a variety of different media, ranging from removable disk drives and external drives to the latest tape technology.

The FDS Copy Station and SSD Readout Station are more than just field copy devices. They have enough computing power and storage to start image post-processing in the field if needed.

When you and your crew complete an aerial photo flight mission, you then have to "develop" the digital film. A lot of aerial photo flight projects are on an "outbound mission," where you do not have access to a ground-based post-processing facility and must prepare for the next mission as soon as possible. This requires downloading raw image data to a removable media. Intergraph's FDS Copy Station and SSD Readout Station provide all the tools needed for mobile downloading of DMC image data. You can download raw DMC image data from an onboard mass storage device to removable media like hard disks, USB disk drives, or tape drives, allowing you to copy the data in the aircraft, in an office, in a hangar at the airfield, or in a hotel room.

FLIGHT DATA STORAGE COPY STATION

The computer is equipped with three fibre channel interfaces to connect the three FDS units and ensure a high data transmission rate. In less than three hours, you can copy to removable SATA disk drives a full set of FDS with approximately 4,400 DMC images. The copy process runs in batch mode, reducing the interaction with the operator. After

completing the copy process, you can ship the media to your home office like undeveloped film.

You can also use the FDS Copy Station as a utility for on-site image quality inspections. A quick view of the acquired image can be performed, enabling you to immediately evaluate the quality of the radiometric image. With traditional film-based cameras, you would have to wait for the film to develop, delaying immediate feedback on the success of the mission.

KEY FEATURES

- Ruggedized mobile workstation
- Large storage capacity
- High computing power
- Extreme data throughput
- Compact design

TECHNICAL CONFIGURATION AND SPECIFICATIONS

The FDS Copy Station boasts a new form factor, components, and display. It is a one-foot cube with a swing-up screen and detachable keyboard and mouse. The all-aluminum construction makes it one of the best ruggedized computers on the market today, sustaining 0 to 50 °C operations in the dustiest environments. The speed of the FDS Copy Station gives you the ability to copy 1,000 images in about 40 minutes.

CONFIGURATION

- Dual Intel Xeon 5130 core processors
- 2GB memory, standard
- Vidia PNY Quadro FX 1500 graphics card
- 14" LCD display
- Two 100GB internal SATA hard disk drives

- Microsoft® Windows® XP Pro

- Advanced dust filter

- 12.75"W x 12.75"D x 11"H , 45 pound weight

- Depending on configuration, dual or quad fibre channel host bus adapter

- Support for eight hard drive removable magazine

- Depending on configuration, either two or three removable disk modules to copy FDS in parallel are included.

For office operation, the FDS Copy Station TerraPack module is fastened directly to the PPS server or to a workstation to read the data from the removable disk drives. TerraPack has room for up to four removable disk modules – a four-disk pack, each with two hard disk drives configured with RAID 0.

ADDITIONAL FEATURES

Global Power – The FDS Copy Station and Readout Station work in a variety of environments around the world. They have wide-range power supplies for a variety of sources worldwide.

High-speed Field Processing – Due to its fast internal bus, memory, and disk speeds, the FDS Copy Station is not only a fast data copy system, but also can start data post-processing in the field with extra removable SATA disk packs. An additional license of PPS software will be required and can be purchased optionally.

SOLID STATE DISKS READOUT STATION

The SSD Readout Station can automatically copy 1,000 images from an SSD cartridge in approximately one hour, simply by the touch of a button. It allows you to copy raw DMC image data from SSD to removable media while in the field, which can then be inserted directly into the Readout Station. You can also use the Readout Station as an office component to process or copy raw image data directly from SSD.

KEY FEATURES

- Ruggedized mobile computer for field data copy and office operation

- Slot for SSD cartridge

- Optional LTO-4 tape drive

- Optional two and three FDS support

- Dual 1GB Ethernet

TECHNICAL CONFIGURATION AND SPECIFICATIONS

The Readout Station is designed to be used for storing the data recorded by the DMC on a hard disc-based media (HDD) with external serial ATA (eSATA) or universal serial bus (USB) interface, or onto a tape (Ultrium format). An SSD cartridge with 1,000 images will be copied on external SATA drives in approximately 1 hour.

CONFIGURATION

- Single board PC with 1024 MB on board memory

- 4 GByte Compact Flash Card system drive

- 20 x 4 LCD display

- 4 function buttons

- Microsoft Windows XP Embedded (with Service Pack 2).

- Wide-range power supply 110 V – 240 V

- 2 x Ethernet 1 GBit

- 2 x USB 2.0 interface to connect external hard disks

- 2 x external SATA interface to connect external hard disks

- Slot for SSD cartridge

- CE certified

- Certified against vibration, shock according to DO160-E for transport (non operating)

ADDITIONAL FEATURES

As an option the Readout Station can be equipped with a LTO-4 tape drive and/or with a 3 channel fibre channel interface to copy data from FDS. A set of 5 LTO 4 tapes (800 GB capacity) is included. Embedded software is included for data copy.

ABOUT INTERGRAPH

Intergraph Corporation is the leading global provider of spatial information management (SIM) software. Security organizations, businesses and governments in more than 60 countries rely on the company's spatial technology and services to make better and faster operational decisions. Intergraph's customers organize vast amounts of complex data into understandable visual representations, creating intelligent maps, managing assets, building and operating better plants

and ships and protecting critical infrastructure and millions of people around the world.

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