



## Flash Lite IIP Console

### FUJIFILM COMPUTED RADIOGRAPHY

#### Application

The Fujifilm Flash Lite IIP (image and information processor) console is a technologist's workstation designed to streamline the operation of Fujifilm's full line of CR and DR products. It performs patient identification, image viewing, reprocessing and optimization, and transmits images to PACS or laser imagers. Featuring a color touch screen flat panel LCD display, the Flash Lite IIP console has an intuitive user interface and enables exam processing in as few as three easy steps.

#### Features

- Flex UI - allowing customization of user interface and shortcut buttons for simplified workflow
- Multi-Study: simultaneous access of multiple studies/accession numbers
- EDR (Exposure Data Recognizer) provides flexibility for difficult positioning exams
- Patient identification via manual entry or interface with RIS/HIS using DICOM Modality Worklist Management
- Auto Exam Select option available to capture patient exam information directly from the RIS/HIS
- Easy-to-use color touch screen flat panel display and intuitive user interface allows complete patient processing in as little as 3 easy steps
- Single, consistent user interface for basic to advanced functionality
- Interfaces with multiple FCR or FDR systems
- Automatic assignment of image processing parameters via customizable anatomic selection menus

- Ability to archive images to jpeg format for case studies
- Rapid image preview display and reprocessing functionality
- Connects to Fujifilm imagers and other DICOM compliant modalities for full size printing (optional)
- Database Sharing (optional) feature allows images to be viewed at any Flash IIP console on the network and supports a centralized QC environment
- Automatic and manual electronic shuttering (black borders) software
- Security and user restriction features enable technologist to log in and log out, configurable auto-logout
- User restriction settings so images can not be altered or adjusted by unauthorized personnel
- Single click annotation markers for each view if needed
- Free-text annotation for technologist comments (optional)

#### Patient Identification Input Functions

- Connection to the RIS/HIS via DICOM Modality Worklist Management interface
- Manual entry via keyboard or touch screen input
- Pre-registration of patient and exam information can be manually entered and saved prior to exam (when RIS is unavailable)
- FCR Pocket ID Option for remote image identification
- Search patient information via ID or patient name fields from the worklist screen

- Quickly query study list by patient name or accession number
- Map patient exam information and procedure codes from the RIS/HIS to customize menus with Auto Exam Select and Study Group options
- Barcode scanner permits easier access of patient information from cassette and/or exam requisitions

#### Image Display and QA Functions

- Images will be processed by selected anatomical exam menus and displayed on IIP for review before being sent to PACS
- Change image processing attributes such as exposure menus, density (GS) / contrast (GA), S value (sensitivity) and L value (latitude)
- Flip and rotate images by 90°
- Electronic shuttering for optimal soft copy review
- Image information, such as patient demographics, study and series information, exposure menus, requesting department, study date and order of images can easily be viewed at the IIP and edited
- Conversion of image distribution information such as target device or pixel density conversion allows optimal viewing
- MFP (Multi-Frequency Processing), Separately enhances multiple frequencies within an image to optimize visualization
- FNC (Flexible Noise Control), selectively reduces noise levels without loss of image sharpness

- DRC(Dynamic Range Control), intelligently adjusts density and contrast to improve visibility of both dense and peripheral tissue
- Synapse shortcut button allows browser view of priors from Fuji's PACS
- Energy Subtraction (ES) software (optional for use with Fujifilm's ClearView-D digital upright system only) provides three displays of PA chest exam from only one exposure; Soft-Tissue, Bone (or calcified structures), and standard chest
- Transmission delivery log allows viewer to acknowledge image has been sent to imager or PACS
- Advanced Reject/Repeat Analysis more than 20 parameter fields trackable by technologist
- Programmable out of range technique indicator
- User restrictions customizable by technologist ID
- Thumbnail image review for rejected images
- Record reason for rejecting images with dropdown selection

### Parameter Setting Functions

- Specify film format and number of copies for exam
- Specify image reading mode (AUTO/EXAM/FIX) for each menu
- Determine proper image orientation display for film or monitor
- Select character strings to be displayed on the film
- Select image processing parameters using exposure/study menus
- Designate exposure/study menu after the exposure region has been selected or from registered standard menus

### DICOM Integration Software Options

- Modality Worklist Management - FIND SOP Class (SCU)
- Modality Performance Procedure Step (MPPS) - SOP Class (SCU)
- CR Image Store SOP Class
- Storage Commitment- SOP Class (SCU)
- Grayscale Print Management Meta SOP Class (SCU)

### Image Storage

- Number of images stored at each workstation approximately 8,000 (Calculation based on assumption that high-density 14x17", 14x14", 10x12" and

8x10" images are registered with a ratio of 1:4:4:1. The storage capacity for the number of energy subtraction and 20 pixel/mm images will be smaller)

- Automatic writing of all images on the hard disk in the background ensures viewing and image enhancement without interruptions
- Images are deleted on a first in/first-out protocol with the capability to lock images on the drive to prevent deletion
- User-selected image compression enables rapid image transmission and efficient utilization of storage capacity
- Storage of selected images in jpeg format for case studies
- Selectively save images in DICOM format to a file or flash memory device with optional DVD drive

### Options

- Wall mounting brackets available to mount keyboard, monitor, barcode reader and CPU
- Automatic Image Stitching software for scoliosis and long-leg exams
- ES (energy subtraction) processing
- Database Sharing (up to 12 IIP's per cluster)
- Auto Exam Select for procedure code mapping to the IIP from RIS
- Free text annotation
- Full screen display, zoom and image magnification
- Magnified Print-prints images up to 300%
- Multi-Print prints up to 12 images on a 14x17 film
- Tiling software
- Local storage of images to DVD/RW removable media

### Articles Sold Separately

- Image Reader (Carbon X and XL, XG2000, XG5000, ClearView-ES, Velocity systems)
- Image Recorder (DRYPIX 2000, DRYPIX 4000, DRYPIX 5000)
- Synapse Server
- FCR Pocket ID: PDA for remote patient and cassette ID
- DVD media storage records up to 470 images to a DVD

### Connectable Models and System Configuration (Fujifilm Legacy Products)

- FCR 5000 Series (FCR 5000, 5000R, 5501 and 5501D) (additional accessories may be required)
- FCR 5000Plus Series (FCR 5000Plus, 5000RPlus, 5501Plus)
- ClearView-D/ClearView-ES
- SmartCR®
- HI-C Series (HI-C654, HI-C655)
- QA-WS771

### Site Planning Specifications System Configurations

#### Flash Lite IIP

PC main CPU (desktop platform)  
CPU: Intel®Core™DUO 3.4 GHz  
Memory: 2G RAM  
HDD: 160 GB  
as indicated above or greater

#### Display monitor

- 19" TFT LCD with touch screen flat-panel (1024x768 resolution) (1280x1024 capable)
- 16.7 million colors
- Luminance: 185 cd/m<sup>2</sup> typical (300cd/m<sup>2</sup> max)
- Response time: 25 msec
- Contrast Ratio: 700:1
- Viewing angle 170°x170°
- Sealed touch screen – © Intellitouch Technology Via Serial or USB compatible Interface
- 100mm M4 Vesa mount compatible

#### Dimensions

PC Main Unit: Small Desktop Chassis  
4.5H x 15.6W x 14"D  
LCD Flat-Panel Monitor:  
19H x 17.2W x 9.5"D  
Keyboard: 1.18H x 18.1W x 6.69"D

#### Weight (approx.)

PC Main Unit	23 lbs (10.4 kg)
LCD Monitor	21.5 lbs (9.78 kg)
Keyboard	1.32 lbs (.62 kg)

### Electrical Requirements PC Main Unit

#### Current CPU

Line voltage:	90-135V
Phase:	Single
Frequency:	50-60 Hz
Power:	280W (DC)
Current:	5.0A (max)

## LCD Monitor

Line Voltage: 80-265V  
Phase: Single  
Frequency: 50-60Hz  
Power: 40W (typical)  
3.45A 12VDC

## Environmental Conditions

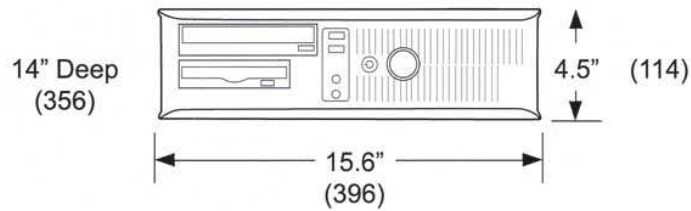
PC Main Unit:  
Operational:  
Temperature: 59° - 86°F  
Humidity: 15% - 70% RH  
Heat Output: 1000 BTU/hr  
Non-operational  
Temperature: 59° - 86°F  
Humidity: 15% - 70% RH  
Heat Output: 910 BTU/hr

## LCD Monitor

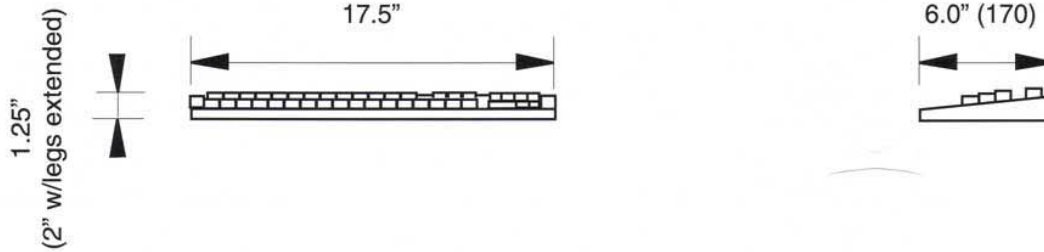
Operational:  
Temperature: 50° - 104°F  
Humidity: 20% - 80% RH  
Heat Output: 100 BTU/hr  
Non-operational  
Temp: -22° - 140°F  
Humidity: 5% - 90% RH

## Dimensions

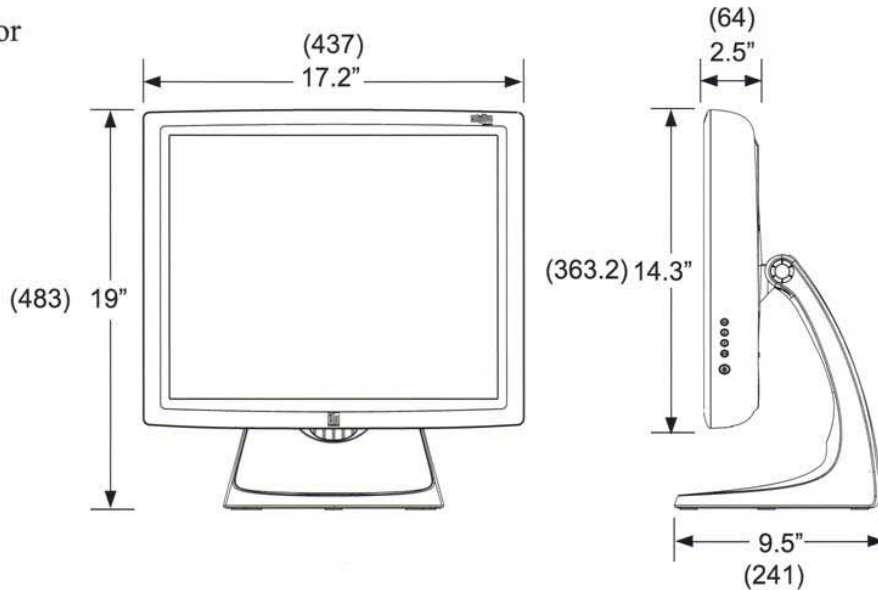
### Flash IIP (CPU)



### Keyboard



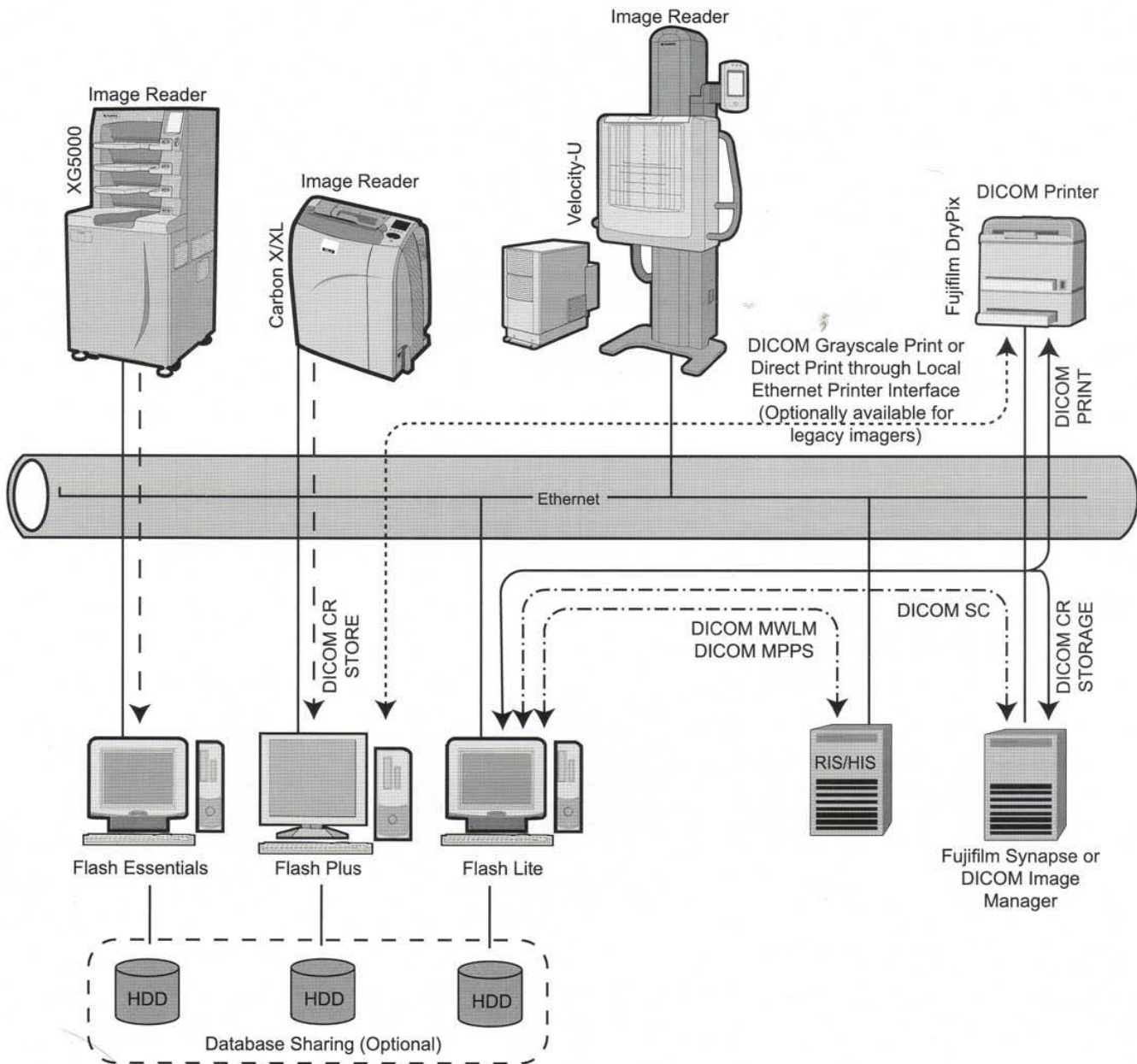
### Monitor



Inches (mm)

**FUJIFILM**

## Connectivity Diagram



### Notes:

- Network Interface - 100 Base-T (half recommended), also capable of full 1G transmission.
- Any FCR Reader can be utilized, after registering the patient at a Flash IIP connected to the same network.
- Database Sharing allows sharing of exam and image data between Flash IIP consoles within the Database Sharing cluster.
- Interfacing with legacy FCR equipment - devices that communicate through DMS protocol can be connected to the network printer by adding an optional Fujifilm DryPix Station to convert the DMS to DICOM.

*Specifications subject to change without notice.*

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