



BDIGITAL FX

Product Data **Digital Image System**

Digital Image System	<p>Digital imaging system for acquisition, reconstruction processing, archival and distribution of images from Flat Panel Detectors. Image processing technology utilizes the lowest possible dose in delivering optimum image quality. Optimized workflow for faster patient throughput.</p>
SOFTWARE	<p>System with fully integrated X-ray generator controls*</p>
Key features	<ul style="list-style-type: none"> User-friendly interface usability Languages (English French Italian Spanish) Interface Generator CPI APR preinstalled and customizable Send to system PACS Send to Printer Print TRUE SIZE Storing CD / DVD with DICOM Viewer Programmable Automatic Processing Automatic collimation Advanced system for processing ATH (Anatomic Tissue Armonization)
Post-processing	<ul style="list-style-type: none"> Dedicated LUT for each exam Spatial filters sharp and smooth Inverting Positive-Negative ATH (Anatomic Tissue Armonization) Reverse image horizontally and vertically Rotate image 90 ° steps Electronic collimators (rectangular and circular) Inversion of the gray scale Multiple display 4:1 - 9:1 - 16: 1 Scale images, scaling variable (1:1 to 3:1) Zoom with variable magnification (1.2 to 3) Change the brightness and contrast
Graphic features	<ul style="list-style-type: none"> Grid view Calculation of distances Calculating angles Overwriting fixed or free texts - marker Customizing fixed texts
Orthopedic Graphics Functions (optional)	<ul style="list-style-type: none"> Cobb angle measurement for scoliosis Double Cobb Angle measurement for scoliosis Symmetry spine Measure the lower limbs Vertical drop hip



* Contact BMI Customer Service for detailed list of the generators supported.



BDIGITAL FX

Product Data **Digital Image System**

- DICOM (optional)**
 - Storage Class
 - Storage Commitment Class
 - MPPS (Modality Perform Procedure Step)
 - Print Class
 - WorkList
 - Query/Retrieve
 - Dicom Media Interchange Class (DVD)
 - Dose Structured Report (WIP)
- IHE Integration Profiles**
 - Schedule Workflow
 - Patient Information Riconciliation
- Special Functions (Optional)**
 - Stitching
 - Dual detector
 - WIFI detector

WORKSTATION

Processor	Intel Core 2 Duo E6400 o superior >2GHZ
Memory	2 GByte DDR2
System Hard Disk	250 GB Sata (24h/7d)
Archives Hard Disk	250 GB Sata (24h/7d)
Operating System	Windows 7 professional for Embedded System
Video Interface	Analogic VGA - Digital DVI-D
DVD	DVD-R/RW CD -R/RW

Power consumption

System(excluding detector)	150 VA
-----------------------------	--------

Work Environment

operating temperature	10 to 40°C
Humidity	20 to 75%
Atmospheric pressure	700 to 1060 hPa



BMI
BIOMEDICAL INTERNATIONAL



BDIGITAL FX

Product Data **Digital Image System**

MONITORS	Standard (Colour monitor)	Optional (Monochromatic)
Screen Technology	TFT Color LCD	TFT AM LCD Dual Domain IPS
Active screen size	483mm (19")	528 mm (20.8")
Active screen size (H x V)	301 x 376 mm	424 x 318 mm
Aspect ratio (H:V)	5:4	4:3
Resolution	1 MegaPixel (1280 x 1024)	3 MegaPixel (2048 x 1536)
Color imaging	16.8 million	No
Grey imaging	No	Yes
Number of greyscales	/	1024 grey levels
Viewing angle (H,V)	178° / 178°	170°
Maximum luminance	300 cd/m ²	1000 cd/m ²
DICOM calibrate luminance	180 cd/m ²	500 cd/m ²
Contrast ratio	1300:1	900:1
USB ports	1 upstream, 2 downstream	1 upstream, 2 downstream
Video input signals	Digital: DVI-D — Analog: VGA	DVI-D Dual Link
Display controller Included	No	Yes
Certifications	EN 60601-1, EN 60601-1-2	CE 93/42/EC, EN 60601-1, EN 60601-1-2
Dimensions	Portrait: 346x418x70mm Landscape: 418x346x70mm	Portrait: 382x488x114 mm Landscape: 488x382x114mm
Weight (with stand)	8.5 Kg	11.5 Kg



BMI
BIOMEDICAL INTERNATIONAL



BDIGITAL FX

Product Data **Digital Image System**

FLAT PANEL DETECTORS

	FDX4343R (Tethered Flat Panel)	FDX4343RPW (Wireless)
Application	General radiography	
Scintillator	CsI: TI (direct vapor deposition) + reflective coating + moisture proof sealing	
TFT	TFT array + Phot Diode (a-Si)	
Active area	43 (H) x 43.9 (V) cm (16.9 x 17.3 inches)	43 (H) x 43 (V) cm (17 x 17 inches)
Active pixel matrix	3008 (H) x 3072 (V)	3036 (H) x 3040 (V)
Pixel pitch	143 μm	140 μm
A/D conversion	14 bits	16 bits
Image output time	4 seconds for full image	3 seconds for full image
Cycle time (min.)	Shot to shot 6 seconds	9 seconds (Ethernet) 12 seconds (WLAN)
Mechanical size	512 x 495 x 43 mm	460 x 460 x 15 mm
Operation Environment	10 to 35° C 10 to 85% RH (non-condensing)	10 to 35° C 20 to 75% RH (non-condensing)
Storage Environment	- 15 to 55° C 10 to 90% RH (non-condensing)	- 15 to 55° C 10 to 95% RH (non-condensing)
Weight (approx.)	9 kg	3.7 kg (include battery)
Mechanical load	na	150 kg over front panel 100 kg on 40 mm dia.
Certification	<ul style="list-style-type: none"> • IEC60601-1, IEC60601-2 • MDD93/42/EEC (CE marking) 	



BMI
BIOMEDICAL INTERNATIONAL



BDIGITAL FX

Product Data **Digital Image System**

FLAT PANEL DETECTORS

	FDX3543RP (Tethered Flat Panel)	FDX3543RPW (Wireless)
Application	General radiography	
Scintillator	CsI: TI (direct vapor deposition) + reflective coating + moisture proof sealing	
TFT	TFT array + Phot Diode (a-Si)	
Active area	35 (H) x 43 (V) cm (14 x 17 inches)	
Active pixel matrix	2448 (H) x 2984 (V)	2466 (H) x 3040 (V)
Pixel pitch	143 µm	140 µm
A/D conversion	16 bits	14 bits
Image output time	3 seconds for full image	
Cycle time (min.)	6 seconds (min.) 9 seconds (with image lag reduction)	9 seconds (Ethernet) 12 seconds (WLAN)
Mechanical size	384 x 460 x 15 mm	384 x 460 x 15 mm
Operation Environment	10 to 35° C 10 to 85% RH (non-condensing)	10 to 35° C 20 to 75% RH (non-condensing)
Storage Environment	- 15 to 55° C 10 to 90% RH (non-condensing)	- 15 to 55° C 10 to 95% RH (non-condensing)
Weight (approx.)	3 kg	3.2 kg (include battery)
Mechanical load	150 kg over front panel 100 kg on 40 mm dia.	150 kg over front panel 100 kg on 40 mm dia.
Certification	<ul style="list-style-type: none"> IEC60601-1, IEC60601-2 MDD93/42/EEC (CE marking) 	

CE 0413



BMI
BIOMEDICAL INTERNATIONAL

ESSE 3 Via Garibaldi 30
14022Castelnuovo D.B. (AT)
tel +39 011 99 27 706
fax +39 011 99 27 506
e-mail esse3@chierinet.it
web : www.esse3-medical.com

