

Gen 2 Digital a-Si TFT Digital X-Ray Detector produces impressive image quality for Diagnostic Use

- Built-in Hot Swap
- 16-bit A/D Conversion
- IP68 (Water-Resistant)
- Magnesium & Carbon-fiber body
- AED (Auto exposure detection) ready
- Rear-sided handle for user-convenience

WIRED & WIRELESS IMAGE ACQUISITION

- 14HQ701G / 10HQ701G: Wired (1.5 sec) / Wireless (2.0 sec)
- 17HQ701G: Wired (1.5 sec) / Wireless (2.5 sec)



The LG second-generation flat panel digital x-ray detector delivers impressive image quality and fine details that take less than seven seconds, whether wired or wireless, to obtain a full process image. This newly developed digital x-ray detector comes with a rear-sided handle for user convenience and enhanced portability. In addition, this uniquely constructed digital x-ray detector is also durable and lightweight due to the combined carbon fiber and magnesium materials, which provides an effortless workflow solution to capture x-ray images and process them for today's medical environment.

PRIME MED

DICOM Image Acquisition Software

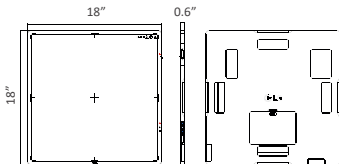
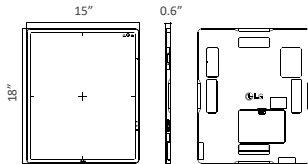
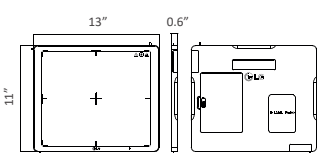
PrimeMED® image acquire software offers an exceptionally user-friendly, workflow-optimized interface designed for speed, precision, and flexibility across medical and veterinary imaging. Its intuitive touchscreen layout supports nearly any language and integrates seamlessly with hospital systems via DICOM, HL7, or manual data entry.

With over 400 pre-configured projections, macros for recurring exams, the software enables smooth operation and consistent image quality. Users can easily switch between or add to existing studies, register emergency patients quickly, and even control digital X-ray systems wirelessly for enhanced productivity.

Designed for flexible image acquisition and equipment control, PrimeMED® supports LG flat-panel detectors flawlessly. PrimeMED® communicates directly with generators for precise parameter control, while AEC and APR functions automate exposure settings for consistent imaging results.

Integration of dose-area product meters (DAP) ensures accurate radiation documentation, and its comprehensive connectivity options—covering bucky, wall-stand, and mobile configurations—make it a robust, scalable platform for clinics, hospitals, and mobile imaging environments.

INTENDED USE: The Flat Panel Digital X-ray Detector 10HQ701G, 14HQ701G, and 17HQ701G are indicated as a digital imaging solution designed for the general radiographic system for human anatomy. It is intended to replace film or screen-based radiographic systems in all general-purpose diagnostic procedures. Not to be used for mammography.

Model		17HQ701G (17 x 17-inch)	14HQ701G (14 x 17-inch)	10HQ701G (10 x 12-inch)
Dimension / Weight (Including battery)				
		3.7 kg (8.2 lbs)	3.2 kg (7.1 lbs)	1.8 kg (4 lbs)
Intended Use		General Radiography		
TFT Type		a-Si		
Scintillator		CsI		
Pixel Pitch		140 μm		
Image Area	Number of Pixels	3072 x 3072 pixels	3072 x 2560 pixels	2048 x 1792 pixels
	TFT Active Area	430.08 × 430.08 mm	358.40 x 430.08 mm	286.72 x 250.88 mm
MTF	MTF @ 0.5lp/mm (Typ.)	84%		
A/D Conversion		16 bit		
Data Output		16 bit		
Communication	Type	Wired / Wireless		
	WLAN	IEEE802.11a/b/g/n/ac, 2.4GHz/5GHz		
	Auto Exposure Detection	Yes		
Cycle Time		4.5 sec (Wired) / 5 sec (Wireless)		
Full Image Transfer (Typ.) *Without window time		1.5 sec (Wired) / 2.5 sec (Wireless)	1.5 sec (Wired) / 2 sec (Wireless)	
Durability	Maximum Load Weight	Full (Uniform Load) : 400 kg (881.8 lbs) Local (Point Load) : 200 kg (440.9 lbs)		
	Water-Resistance	IP68		
	Sensor Protection Plate	Carbon Fiber Plate		
Battery	Operation Time	300 shots / 7.5 hrs (Typ.) (Condition : Cycle Time 90 sec)		
	Charging Time	3 hrs (Type)		
	Hot Swap	Yes (1 Min)		
Accessories	Cable	Power Cord, Main Cable 7 m (LAN Cable, Sync Cable Option)		
	Other	Battery Charger		
		2 x Battery Packs		
		Control Box		
FDA 510(k) Clearance		K221434	K221394	K221461

ACQUISITION WORKSTATION SOFTWARE (ASHK100G)

	OS (Operating System)	Microsoft Windows 10, 64-bit (<i>minimum</i>)
	DB (Database)	MariaDB
	Processor Options	Intel CPU Desk 6 th gen i5 or above
	RAM	8 GB (<i>minimum</i>)
	HDD	256 GB (<i>minimum</i>)
FDA 510(k) Clearance		K191188

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TI-BA ENTERPRISES, INC.

Distributed in the USA by
 TI-BA Enterprises, Inc.
 25 Hytec Circle, Rochester, NY 14420
 Tel (585) 247-1212 | www.ti-ba.com