Digital X-Ray Detector with a-Si TFT

14HQ701G | 17HQ701G

Excellent Image Quality

Get Clear Images with a-Si TFT

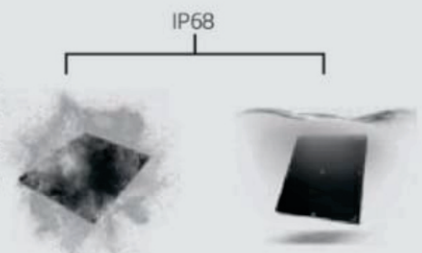## Increased Portability and Durability

Improved Design (Handle | 4-side chamfer) [1] | Lightweight

LG Digital X-ray's magnesium and carbon fibre design weighs a 3.7kg (17HQ701G), 3.2kg (14HQ701G) and features a rear-sided handle with sculpted handgrips and chamfers for added portability. With digital x-ray devices increasingly being used outside hospital imaging rooms for emergency situations, mobility and practicality have become key areas of focus for optimizing medical practioner workflows.

IP68

IP68: Water Resistant & Dust-Tight | Enhanced Load Weight

The LG Digital X-ray Detector is IP68 rated and therefore protected against harmful contaminants such as water, dust and humidity. Its Level 6 dust-tight rating means that the device is protected against the ingress of dust, while its Level 8 water resistance rating means that it can withstand submersion for up to 30 minutes[1] . Additionally, LG DXD with a-Si TFTs now come engineered with a 400kg load capacity and a 200kg point weight[2]

1) Tested under controlled laboratory conditions with an IP68 rating. Water resistant up to 1 meter for 30 minutes.
   Dry before using. Do not charge while wet.
2) Max uniform load and max point load when tested for 60 seconds.

Simplified Workflow

Reduced Image Transfer Times | Extended Battery Life | Hot Swap | OLED Display
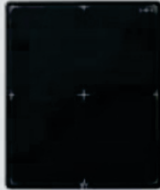
LG Digital X-ray Detector delivers 1.5sec and 2sec[5] transfer speeds for wired connections and wireless connections, respectively, to significantly reduce patient waiting times and increase workflow efficiency. Its bright OLED display lets users monitor device status in real time and make necessary adjustments. It also features 7.5 hours[6] of battery life, which allows for up to 300 x-ray images on a single charge and can maintain up to a minute of power when swapping out batteries to ensure smooth image processing in emergency medical situations.

IP Address • • Battery Indicator

10 . 10 . 10 . 100
STA LGEDXD_SH_5

Mode • • SSID

5) Full Image Transfer (Typ.) : 17HQ701G is 1.5 sec (Wired) / 2.5 sec (Wireless).
                10/14HQ701G is 1.5 sec (Wired) / 2 sec (Wireless).
6) Measured by irradiating image at a 90-second cycle (consisting of stand by mode, x-ray exposure, and image acquisition),
   obtaining approximately 300 shots. Actual battery usage time and performance may vary depending on network connectivity and application use.

Specifications
Digital X-ray Detector With a-Si TFT

Model Name		14HQ701G-B	17HQ701G-B
		(14 x 17-inch)	**(17 x 17-inch)**
Dimension / Weight (Including Battery)		384 mm x 460 mm x 15.6 mm	460 mm x 460 mm x 15.6 mm
		3.2 kg (7.1 lbs)	3.7 kg (8.2 lbs)
Intended Use		General Radiography	
TFT Type		a-Si	
Scintillator		CsI	
Pixel Pitch		140µm	
Image Area	Number of Pixels	2560x3072 pixels	3072 x 3072 pixels
	TFT Active Area	358.40 x 430.08 mm	430.08 x 430.08 mm
MTF	MTF @0.5lp/mm(Typ.)	84%	
DQE	DQE @0.1lp/mm(Typ.)	66%	
A/D Conversion		16 bit	
Data Output		16 bit	
Communication	Type	Wired / Wireless	
	WLAN	IEEE802.11 a/b/g/n/ac, 2.4GHz/5GHz	
	Auto Exposure Detection	Yes	
Image Storage		Up to 200	
Cycle Time		4.5 sec (Wired)/ 5 sec (Wireless)	
Full ImageTransfer (Typ.) *Without Window Time		1.5 sec (Wired)/ 2 sec (Wireless)	1.5 sec (Wired)/ 2.5 sec (Wireless)
Durability	Maximum Load Weight	Full (Uniform Load) : 400 kg (881.8 lbs)	
		Local (Point Load) : 200 kg (440.9Lbs)	
	Watertightness	IP68	
	Sensor Protection Plate	Carbon Fiber Plate	
Battery	Operation Time	300 Shots/7.5 hrs (Typ.) (conditions : Cycle Time 90 sec)	
	Charging Time	3 hrs (Typ.)	
	Hot Swap	Yes (1Min)	
Accessories	Cable	Power Code, Main Cable 7 m (Sync Cable Option)	
	Other	Battery Charger	
		Control Box	
		2 x Battery Packs	

Acquisition Workstation Software

Installation Requirement	OS	Microsoft Windows 10 (64 bit)
	Processor Options	Intel CPU Desk 6th gen i5 or above
	RAM	8 GB
	HDD	512 GB