

14HQ901G-BP

LG Digital X-ray Detector with Oxide TFT





Key Features

Excellent DQE with Oxide TFT
 140µm pixel size & 16bit A/D conversion
 Raw Image in 2s (wireless) & 1.5s (wired)

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i Digital X-ray Detector with Oxide TFT

SENSOR(PANEL)UNIT

Application	General Radiography
TFT Type	Oxide
Scintillator	Csi
Number of Pixels	3072x2560
Pixel Pitch	140µm
TFT Dimensions(WxDxH, mm)	369 x 442 mm
TFT Active Area(mm)	358.40 x 430.08
X-ray sensitive Pixel	2560x3072
X-ray sensitive Area(mm)	430.08 x 358.40
Sensor protection plate	Carbon Fiber Plate
Input	DC24V/2.1A
Power consumption	Typ. 38W
Dimensions(WxDxH, mm)	384 x 460 x 15.6 mm
Weight(kg) / Icl. Battery (Typ.)	3.2 kg
Maximum Load Weight	Full (Uniform Load) : 400kg Local (Point Load) : 200kg
Falling (IEC60601-1 Test Condition)	1.5m
Cycle Time (Wired / Wireless)	4.5sec / 5sec
Full Image (Raw Image) (Typ.) * without window time	Wired 1.5 sec / Wireless 2 sec

MTF(TYP.)

MTF @ 0.5lp/mm	84%
MTF @ 1lp/mm	61%
MTF @ 2lp/mm	30%
MTF @ 3lp/mm	15%

DQE(TYP)

DQE @ 0.1lp/mm	78%
DQE @ 0.5lp/mm	70%
DQE @ 1lp/mm	57%
DQE @ 2lp/mm	38%
DQE @ 3lp/mm	26%
Sensitivity(lsb/uGy) / Programmable	3.57 lp/mm

DEGRADATION

A/D Conversion	16 bit
Data Output	16 bit
Auto Exposure Detection	Yes
X-ray period (ms) (=Window Time)	350 - 4000ms
Unit Interface	Connect to Control Box
Power unit interface	Connect to Control Box
Wired Communication	Yes
WLAN	IEEE802.11a/b/g/n/ac, 2.4GHz/5GHz
AP mode	Yes(Integrated)
Detachable Wire (Easy to plug / unplug)	Yes (Magnetic)
Shock monitoring	Yes
Image storage on DXD	Up to 200 images
Semi-dynamic Acquisition	5 fps

CONTROL BOX

Power Input	AC100 to 240V, 47-63Hz
Power Output	DC24V / 2.1A
AC Power Cord	1.5m (Black)
Dimensions(WxDxH, mm)	125 x 255 x 109.8mm

weight(kg)	1.3 kg
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MAIN CABLE(DXD-CONTROL BOX)

Length	7m
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LAN CABLE(CONTROL BOX-PC): OPTIONAL(WHEN BUYER REQUIRES THIS CABLE, IS SHIPPED ACCORDING TO BOM)

Length	10m
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SYNC CABLE(CONTROL BOX - X-RAY GENERATOR): OPTIONAL(WHEN BUYER REQUIRES THIS CABLE, IS SHIPPED ACCORDING TO BOM)

Length	15m
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BATTERY

Type	Detachable
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Nominal Capacity	36Wh (7.7V, 4725mAh)
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Nominal Voltage	7.7V
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Dimensions(WxDxH, mm)	112.2 x 158 x 8.4
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Weight(g)	240
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Operation Time	Typ. 320 shots/ 8.0 hrs (Condition : Cycle time 90sec)
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Battery duration in standby status	Typ.8.2hrs
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Hot Swap	Yes (1 min)
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BATTERY CHARGER

Input voltage	19V
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Output voltage	8.7V
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Charging Time	3 Hours
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Slot Q'ty	2
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Bundle battery Q'ty	2
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Dimensions(WxDxH, mm)	268.4 x 186.9 x 54.9mm
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weight(kg)	0.5 kg
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AC ADAPTER FOR BATTERY CHARGER

Dimensions(WxDxH, mm)	134x59.8x31mm
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DC Cable length	1,500 mm
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AC Power Cord	Yes
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Input	100 ~ 240VAC
Output	19V/3.42A
Weight(kg)	0.335 kg

ENVIRONMENTAL

Storage-Temperature	-20 to 60 °C
Storage-Humidity	Less than 90% RH, No condensation
Storage-Pressure	50 ~ 106 kPa
Storage- Altitude	Less than 12,192 m
Operating-Temperature	10 to 35 °C
Operating-Humidity	Less than 80% RH, No condensation
Operating-Pressure	70 ~ 106 kPa
Operating- Altitude	Less than 5000 m

WATERTIGHTNESS

Watertightness	IP68
Cleaning and disinfecting products	Isopropanol 100%, Ethanol 70%, Cidex OPA, 0.9% NaCl solution
Anti-Bacteria	JIS Z 2801 0.99%

WARRANTY

Warranty	36 Month
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ACCESSORIES

CD	Manual, Calibration SW
Cable	Power cord, Main Cable 7m (LAN Cable, Sync cable Option)
Other	Book Manual , Outgonig Inspection sheet

PACKAGE

Dimension in Shipping (W x H x D)	621x352x562
Pallet Stuffing (20ft/40ft/40ft HC)	160/360/432
Weight in Shipping	11.5kg
