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## G3 Portable Wireless X-Ray System



The G3 X-Ray System is a portable, wireless, easy to use and completely computerized Inspection System for the investigation of objects like parcels, boxes, luggage, etc. The System consists of a remote control unit, a camera box, the X-Ray source and accessories.

Specialised custom software and computer systems enable the unit to start within a few seconds. No knowledge of computers, operating systems or software is needed to operate.

The camera unit, remote control and all accessories are placed in one housing during transport saving space and weight.

The G3 system is an entirely digital system to ensure failure-free operation and sharp pictures. The wireless connection allows up to 150m outdoor or 50m indoor distance for save operation.

The G3 is a fail-safe, precise and easy to use item for law enforcement, police, airport and safety purposes. The system can also be used in any kind of material examination.

### Specifications Camera Box

- ▶ Imaging Area: 380 X 290mm;
- ▶ Pickup Device: Interline Transfer 112" CCD low light long integration camera;
- ▶ Effective Pixel: 752 x 582;
- ▶ Sensitivity: 400 lx F56 (Gain min.);
- ▶ Min. Illumination: 0.3 lx (Gain max., F1.4);
- ▶ Video SIN Ratio: 60dB.



WI Code: 10112/2

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# G3 Portable Wireless X-Ray System

## Environment

- ▶ Operating Temperature: -10°C - 45°C;
- ▶ Storage Temperature: -20°C - 60°C;
- ▶ Operating Humidity: 20% - 80% non-condensing;
- ▶ Storage Humidity: 20% - 95% non-condensing;
- ▶ Shock Resistance: 70G.

## CPU

- ▶ CPU: G3 Motorola Coldfire MCF5272, 66MHz 63 MIPS;
- ▶ Memory: 64MB RAM;
- ▶ Storage: 8 MB Flash ROM;
- ▶ Network: 10/100 Mbps Ethernet RTL;
- ▶ Environment Operating Temperature: -10°C - 85°C;
- ▶ Video Capture System: Monochrome Video Frame Grabber G4.

## Wireless Device

- ▶ Access Point with unique Connection to the remote Control Device MPC100 (no interfere with other wireless Devices possible);
- ▶ Batteries: 2X 6V, 7.2Ah (3 hours Working Time, 13 hours charging time);
- ▶ Power Adaptor: Universal AC 90V - 265V, 47Hz - 63Hz.

## Software

- ▶ Display of Images in normal, inverse or pseudo colour mode (The colour table for the pseudo colours can be individually modified by User);
- ▶ Manual brightness control;
- ▶ Manual contrast control;
- ▶ Serially numbered overview;
- ▶ Direct print to optional printer;
- ▶ Easy handling of 200% zoom;
- ▶ Low battery warning for camera box and remote control.

## Remote Control Device MPC 100 E

- ▶ Processor: Intel XScale PXA255 400MHz and Companion Chip SA1111;
- ▶ Operating System: Windows CE.NET;
- ▶ Display: 10.4 Active Matrix TFT 250 units high brightness LCD 800 X 600 SVGA;
- ▶ Pointing Device: - Built - in resistive touch panel or external PS/2 or USB Mouse;
- ▶ Battery: Smart Li-ion battery (4 hours Working Time 12 hours charging Time);
- ▶ Power Adaptor: Universal AC 90V - 265V, 47Hz - 63Hz -



## I/O Ports

- ▶ 1 x PCMCIA Type II;
- ▶ 1 x Compact Flash Type II supports up to 1GB;
- ▶ 1 X RS-232 485;
- ▶ 1 X PS/2;
- ▶ 1 x USB Type A;
- ▶ Memory: 128Mb up to 256MB;
- ▶ Picture Storage: 116 Pictures.

## Capability

- ▶ Further Pictures can be stored on Compact Flash Card or IBM Microdrive;
- ▶ optional external USB Mass Storage Devices can be added;
- ▶ Network: 802.11b Wireless LAN Card.

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# G3 Portable Wireless X-Ray System

## Environment

- ▶ Operating Temperature: 0°C - 40°C;
- ▶ Storage Temperature -20°C - 60°C;
- ▶ Operating Humidity – 80%.

## Remote Control Device Quality Laptop

- ▶ Processor: Intel Celeron M340 1.5GHz;
- ▶ System Memory: 256MB DDR-SDRAM up to 2GB;
- ▶ Hard disk: 40GB UDMA100;
- ▶ Combo drive: DVD/CD-R/RW;
- ▶ Modem: V92 56K;
- ▶ Display: 15" XGA TFT LCD;
- ▶ Battery: Li-Ion Battery, approx. 4 hours battery life;
- ▶ Power Supply: 100-240V, 50-60Hz AC;
- ▶ Operating System: Windows XP;
- ▶ Operating Temperature: 0°C - 40°C;
- ▶ Storage Temperature: -20°C - 60°C;
- ▶ Operating Humidity: 80%;
- ▶ Operating Software: Special Customized Software for X-Ray imaging and controlling of all Parameters from Camera Box and X-Ray Source.



## X-Ray Source XR200

- ▶ X-Ray Dose per Pulse: -3.1 mill-roentgens @ 30mm from the front of the Unit;
- ▶ Number of Pulses per Battery charge: 4000;
- ▶ Number of Pulses per second: 25;
- ▶ Expected Tube Life: 100 000 Pulses;
- ▶ Max. Photon Energy: 150 KVP (275 KVP Optional);
- ▶ X-Ray Pulse Width: 60 nanoseconds ( $60 \times 10^{-9} \text{ S}^{-1}$ );
- ▶ Max Duty Cycle: 200 Pulses every 4 minutes (3000 Pulses per hour);
- ▶ Power adapter: 100V – 120V or 220V – 230V, 50-60Hz;
- ▶ Environment: Operating Temperature: -23°C - 50°C;
- ▶ Physical: 115(W) x317(D) X 190(H) mm; 5.5 Kg;
- ▶ Manual Trigger: delayed action release (60s) for manual triggering;
- ▶ X-Ray Leakage: see Manual.



## The G3 System is delivered in two strong carrying cases

### Camera box with remote control and accessories:

39 x 34 x 29 cm (15.4 x 13.4 x 11.4 inch)

### X-Ray Source:

49 x 38 x 20 cm (19.3 x 15 x 7.9 inch)



## Optional Equipment

- ▶ Detachable Castor System;
- ▶ Dosimeter with Charger;
- ▶ Tripod for X-Ray Source;
- ▶ Second Battery for XR200;
- ▶ Beryllium-window-tube for XR200;
- ▶ X-Ray Generator, Golden Inspector model xrs 3;
- ▶ Portable Colour Printer.



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