

# GRANDE SPECCHIO PARROT BY MARTIN SZEKELY



Parrot digital  
photo frame  
made by  
Martin Szekely.  
Wi-Fi and *Bluetooth*<sup>®</sup>  
wireless digital photo  
frame.

## A remarkable encore

The very first collaboration between Parrot and Martin Szekely produced a digital photo frame with an incredible design: Specchio. When the frame is turned off it becomes a mirror, and when it is turned on it displays your loveliest memories. One year on and Parrot is joining forces again with this eminent designer to produce a real gem. With a design as striking as its predecessor and its larger size, this new addition to the Specchio range will brighten up any room with your photo memories, while retaining the same values: simple design, outstanding quality and an understated presence. Your photos will now be able to really convey the emotions you felt. You can simply display more than 1,500 photos on a 10.4" high-definition LCD screen.

## A wonder of the modern world

In keeping with its image as a company at the cutting edge of technology, Parrot does not stake its reputation only on the frame's sleek design. Grande Specchio is a combination of new technologies. Integrating Wi-Fi and *Bluetooth* wireless technologies, it enables you to share and transfer your photos from your PC, Mac<sup>®</sup> or mobile phone. Not to mention that the SD card slots and USB port make it easy to transfer the photos stored on your PC, USB flash drive or digital camera. Last but not least, you can increase the frame's memory by storing your photos on an SD card, which also allows you to retain your photos' original size.

## Wi-Fi: offering not only connectivity, but access to the world

The main innovation offered by this frame is the multiple applications that can be accessed via Wi-Fi. Thanks to the Google operating system, Android, you can access any webpages around the world containing general information, sports news and the latest economic and financial news. Frame It or even Frame Channel offer you access to entertainment news and any kind of practical information which can be supplied directly to your frame via RSS. You can also share your photos with the whole world. Expand your online community via sharing sites (Facebook, Picasa, Flick'r etc) and share your emotions. Receive photos from your loved ones directly to your frame via email, bridging the distance that separates you.

## A unique interface

Creating an extraordinary product based on ordinary cooperation was the objective that Martin Szekely and Parrot set themselves. But how do you marry elegant design with easy use when it involves the occasionally complex application of state-of-the-art technology? The solution to this was to create an interface that was easy to control, intuitive, attractive and in keeping with the times. With touch-sensitive keys at the top of the frame and a discreet trackball... no detail has been overlooked when it comes to ensuring that you can move around your frame with comfort and ease.



NFC



Networking



USB port



# Grande Specchio... by Martin Szekely

## Wireless technology

### Wi-Fi

Wi-Fi is a wireless computer network technology that lets you operate an indoor broadband network with a range spanning dozens of metres. It can be used to connect communicating objects and exchange data securely for the guaranteed protection of your private data.

### Bluetooth

The *Bluetooth* wireless technology enables data (such as photos) to be sent via a short-distance radio link. It connects a wide range of electronic equipment without requiring additional cables. Furthermore, it extends the communication possibilities for mobile phones and a large number of devices.

### NFC

With the NFC (Near Field Communication) wireless technology, data can be exchanged intuitively and easily with security guaranteed. Communication is established by bringing two NFC-compatible electronic devices within a few centimetres of each other. NFC and Bluetooth can be combined to simplify the stages involved in configuring and connecting devices.

## Technical and commercial specifications

### PARROT photo frame

Parrot 10.4" digital photo frame mirror  
by Martin Szekely

### Specifications

LCD colour 4:3 screen with a high resolution of 800x600  
Displays photos in 24-bit colour

#### Connections:

- Wi-Fi b/g with a simplified connection via an SES/WPS virtual button: photos received via a dedicated email address via RSS (photo sharing site), through sharing the photos directory with a PC or Mac®
- *Bluetooth* v2.1 + EDR: for transferring photos from a *Bluetooth* mobile phone, a PC, a Mac® etc.
- USB Type A port: USB flash drive, digital camera and iPhone
- SD/MMC card slot: for transferring photos
- Android OS
- Integrated online services: Frame Channel, Frame It...

Automatic update via Wi-Fi (backup possible via SD card or USB flash drive)

Photo format: JPEG

#### Alarm feature

Memory: 200 MB

Can store up to 1,500 photos using Parrot's optimised compression feature

Option to expand internal memory using an SD card or USB flash drive

Default option: automatically adjusts the size of the photo to the screen

Brightness adjustment

Automatically rotates the photo (portrait/landscape)

Standby mode (manual or automatic)

Mirror surround containing shatterproof glass, designed by Martin Szekely

### Wi-Fi b/g

Data protection by WEP, WPA and WPA2 key  
Simplified configuration by SES/WPS button  
Wi-Fi range: up to 300 metres in line-of-sight  
Operation with access point or standalone (ad-hoc mode)

### Bluetooth

*Bluetooth* v2.1 + EDR

Profiles supported:

FTP (File Transfert Profile)

OPP (Object Push Profile)

BIP (Basic Image Profile)

*Bluetooth* range: 10 metres

Pairing (optional): by PIN code (0000)

Built-in NFC technology

### Memory cards

SD/MMC memory cards supported

### Dimensions

Width: 260 mm

Height: 260 mm

Depth: 25 mm

Weight: 650 g

### Kit contents

1 Digital frame

1 Quick start guide

1 Wall-fixing kit

1 3-pin mains adapter

1 metal rod

1 cleaning cloth

### Documentation

Quick start guide included. For more information, visit our website [www.parrot.com](http://www.parrot.com)

## **OPERATIONAL DESCRIPTION**

Parrot's GRANDE SPECCHIO by Martin Szekely is a digital photo frame with 10.4" display which integrates Bluetooth wireless technology and WiFi according to IEEE 802.11 b and g. The photos can be accessed from the internal flash memory, SD-cards, USB sticks or by using the wireless technologies.

Bluetooth (2.1+EDR) will be used to receive data from PCs, Laptops, mobile phones etc. using FTP, OPP and BIP profile. It is defined as Bluetooth class 2 device with a maximum output power of 4dBm (2.5mW) and power control is used to adjust the output power to reduce power consumption.

The range between the GRANDE SPECCHIO and remote Bluetooth devices is up to 10 meters by using different data rates up to 3 Mbit/s. The basic data rate of 1 Mbps uses GFSK modulation and the enhanced data rate uses PSK modulation. For the enhanced data rate of 3 Mbps 8DPSK modulation and of 2 Mbps  $\pi/4$  DQPSK modulation is used.

The Wireless LAN (IEEE 802.11 b/g) (WiFi certified) functionality is used to receive photos via a dedicated email address via RSS (photo sharing site) or through sharing the photos directory with a PC or Mac®. It uses Data protection by WEP, WPA and WPA2 key and simplified configuration by SES/WPS button.

The WLAN range is up to 300 meters in line-of-sight Operation with access point or standalone (ad-hoc mode).

The Wireless LAN functionality in 802.11b mode provides data rates up to 11 MBit/s and uses DBPSK, DQPSK, CCK modulation.

The IEEE 802.11 g mode provides different modulations and data rates as defined in the following table:

Data Rate (Mbps)	Modulation	Coding Rate	Coded bits per subcarrier	Coded bits per OFDM symbol	Data bits per OFDM symbol
6	BPSK	1/2	1	48	24
9	BPSK	3/4	1	48	36
12	QPSK	1/2	2	96	48
18	QPSK	3/4	2	96	72
24	16-QAM	1/2	4	192	96
36	16-QAM	3/4	4	192	144
48	16-QAM	2/3	6	288	192
54	64-QAM	3/4	6	288	216