



## the SOLUTION for RADIOLOGICAL REPORTING

**EYERAD** is a software for radiological reporting. The main characteristics of **EYERAD** are quick access to images and data, integration with existings PACS/RIS, simplicity and flexibility of use.

**EYERAD** is a system for the acquisition, analysis and management of DIGITAL images from systems that adhere to the DICOM standard in Microsoft Windows environment. It is capable of viewing, processing, storing, sending and printing digital images

**EYERAD** was developed to meet the efficiency and accuracy requirements demanded by a workstation for radiological reporting. it is possible to customize the working configuratio for each user, allowing for an optimization of the review time for cases loaded in the working session. Special attention has been given to the management of mammography images and mammographic tomosynthesis and their viewing flow.

**EYERAD's** main features are rapid access to images and data, integration with existing PACS/RIS, ease of use and flexibility.

**EYERAD** utilizes multiple high-resolution LCD monitors, 2-3-5 MPixel and fully exploits the ability of such monitors to display digital images with 1024 shades of gray.

### PRODUCT FEATURES

#### REQUIREMENTS

The recommended configuration includes:

#### HARDWARE

- Pentium i7-8700k or superior
- RAM 16 GB
- 1 SSD of at least 500 GB for the operating system and programs
- 1 Gb Ethernet network card
- Graphics card with 10-bit depth and resolution suitable for the monitors to be used (for example Nvidia T400 or equivalent)
- DVD-RW
- 1 21" service monitor
- 2 high-resolution medical monitors (2-3-5 MPixel)
- UPS

#### SOFTWARE

- SO Windows 11 Pro

The skills required are:

#### IT STAFF SKILLS

The technical personnel responsible for installation must have knowledge of the DICOM protocol and the operating systems on which they will operate to configure the **EYERAD** program.

#### USER SKILL

**EYERAD** can be use excusively by radiologists

#### INTERFACE

**EYERAD** is capable of displaying exams for reporting through:

- loading from FileSystem (no network devices)
- loading from DICOMDIR
- loadig via DICOM (trough a DICOM server or WADO protocol)





## SUPPORTED DICOM SERVICES AND TYPES OF DICOM EXAMS MANAGED

For details on the DICOM part, consult the files “EyeRad Dicom Conformance Statement.pdf” and “EyeRad IHE Integration Statmente.pdf”

## INSTALLATION

- **SETUP:** download from the reserved area on the official G-Squared website ([www.gsquared.it](http://www.gsquared.it)).

## LICENSE

The use of the program is allowed only after the activation of a usage license, provided through the G-Squared portal to authorized users.

## FUNCTIONALITY

Services includes:

- receiving digital DICOM images from diagnostics and from PACS via the network
- automatic retrieval of previous exams from PACS (prefetch)

### Visualization and manipulation of stored images:

- adjust contrast/brightness
- LUT inversion
- zoom and magnifyng glass
- pan
- flip and 90° rotations
- measurement tools (distances, angles, pelvic tilt, Cobb angle, rectangles, ellipses, pixel values)
- annotations
- comparison with previous exams of the same patient
- automatic loading of previous exams
- function keys for frequent operations
- multislice visualization
- cine visualization
- MIP and ThickSlab visualization
- synchronization of 3D series on volumetric exams
- synchronization of 3D and 2D series on mammographic exams

## WORKFLOW

- interactive browsing of loaded patient images
- navigation shortcuts in the workflow
- customization of the flow and image display modes based on image/series/study/patient (hanging protocols)
- creation of predefined LUTs

**Importing CD** with **DICOMDIR** structure.

**Exporting** images in known formats (jpeg, jpg, png, bmp).

**Printing** displayed images on **DICOM** printers or Windows printers, according to user-definied reformatting rules.





**eyerad**

## GENERAL OUTLINE OF THE SYSTEM

