# MoleMax HD

## DIGITAL SKIN IMAGING SYSTEM

# The best practice for the best patient care

The most sophisticated MoleMax yet, the MoleMax HD is a user friendly device jointly developed with dermatologists and other clinicians for world wide use in dermatology and general practice.

- User friendly software developed by clinicians for clinicians.
- Auto-focus for 3 modes of imaging: Macro, Close Up and DELM (Dermoscopy mode).
- Micro adapter with unique patented light polarisation enabling: 20x, 30x & 40x zoom (optional adapter available with 100x zoom).
- Improve your productivity with: quick and simple follow-up/trending, automatic alerts, reminders, multi-user work environment, staff assisted imaging sessions.

- Increased patient participation with two 23" flat-screen colour LCD monitors with HD resolution.
- MoleMax HD equipment trolley for easy mobility with integrated Windows PC.
- 2.5 inch screen on back of camera providing live video with digital image transfer via HDMI plus mouse controls on handle.
- Automatic or manual lesion scoring.
- Generate reports or PDF or PMS export.

## NEW MoleMax HD Software Features Available

### Links with your Practice Management Software (PMS)

Generated PDF report to link to patient notes. One-Off Fee. No subscriptions required, no hidden cost. Free Local Storage.

### Have full control over your patient data in a closed network

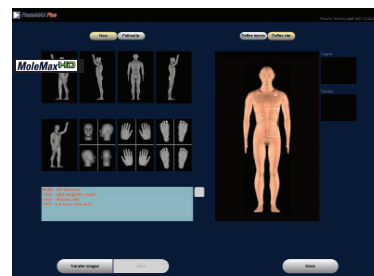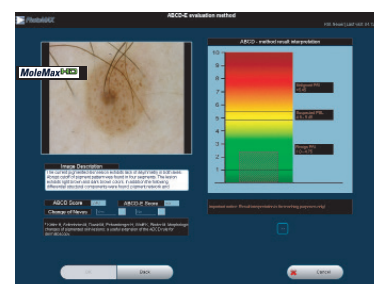Customised Patient Reporting Patient Report Features:

Patient Details, Lesion Clinical Observations, Location, Provisional Diagnosis, Suggested Management, Procedure Date, Histopathology Report, Final Diagnosis, Comments, Next Appointment Date.

## MOLEMAX GO

Automatically link images taken from any device straight to your MoleMax software via your smartphone or tablet with MoleMax Go App. Available for iOS and Android devices

**Macquarie** Medical Systems

**MoleMax** Systems

# MoleMax HD
## DIGITAL SKIN IMAGING SYSTEM

# Which MoleMax System is best for you?
### MoleMax Range Comparison Matrix*

| Software Features | MoleMax HD PRO | MoleMax HD | MoleMax HD Mini/Modular | SkinDOC | MoleMax Plus | PhotoMAX |
|---|:---:|:---:|:---:|:---:|:---:|:---:|
| All Skin Diagnosis Reference Library | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ |
| Practice Management System Reporting Output | ✅ | ✅ | ✅ | ✅ | ✅ | |
| Comparative Screening / Follow Up | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ |
| One Click Automatic BackUp | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ |
| Monitoring / Trending Follow Up | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ |
| MoleMax Go Integrated Phone App(Android / IOS Apple) | ✅ | ✅ | ✅ | ✅ | ✅ | |
| Mole Scoring Expertizer Plus Scoring Aid | ✅ | ✅ | ✅ | ✅ | ✅ | |
| Lesion Measurement Aid | ✅ | ✅ | ✅ | ✅ | ✅ | |
| Total Body Mapping (Import Images) | ✅ | ✅ | ✅ | ✅ | ✅ | ✅ |
| Total Body Mapping (Live Images) | ✅ | ✅ | ✅ | | ✅ Via Mobile | |
| Live Video High Definition (HD) Camera Imaging | ✅ | ✅ | ✅ | ✅ | ✅ Via Mobile | |
| Live Digital SLR Camera Imaging | ✅ | ✅ | ✅ | | | |
| Thumbnail Follow Up | ✅ | ✅ | ✅ | | | |
| Clinical Audit and Quality Control | ✅ | ✅ | ✅ | | | |
| CosMax Cosmetic Simulation Module | ✅ | ✅ | ✅ | | | |
| Education and Research Module | ✅ | ✅ | ✅ | | | |
| Software Operation via Mobile Tablet | ✅ | 🟠 | 🟠 | | | |
| Touch Screen Operation | ✅ | 🟠 | 🟠 | 🟠 | 🟠 | 🟠 |
| SQL Database Integration | 🟠 | 🟠 | 🟠 | 🟠 | 🟠 | 🟠 |
| Trichoscan Module | 🟠 | 🟠 | 🟠 | 🟠 | 🟠 | |
| Additional User Licence on networked laptop | ✅ | 🟠 | 🟠 | 🟠 | 🟠 | 🟠 |
| Multi-User Licence | 🟠 | 🟠 | 🟠 | 🟠 | 🟠 | 🟠 |

| Hardware Features | MoleMax HD PRO | MoleMax HD | MoleMax HD Mini/Modular | SkinDOC | MoleMax Plus | PhotoMAX |
|---|:---:|:---:|:---:|:---:|:---:|:---:|
| Camera Docking Station | ✅ | ✅ | ✅ | ✅ | | |
| HD Camera - Micro Imaging (30x Only) | | | | ✅ | | |
| HD Camera - Micro & Macro Imaging (Variable Magnification) | ✅ | ✅ | ✅ | | | |
| High Resolution Digital SLR Camera for Macro Imaging | ✅ | 🟠 | 🟠 | | | |
| Polarised Adapter (20/30/40x) for Dermoscopic Imaging | ✅ | ✅ | ✅ | | | |
| Polarised Adapter (60/80/100x) for Dermoscopic Imaging | 🟠 | 🟠 | 🟠 | | | |
| Non-Polarised Adapter (20/30/40x) for Dermoscopic Imaging | 🟠 | 🟠 | 🟠 | | | |
| Non-Polarised Adapter (60/80/100x) for Dermoscopic Imaging | 🟠 | 🟠 | 🟠 | | | |
| Networked Windows Surface PRO Tablet or Laptop | ✅ | 🟠 | 🟠 | | | |
| USB 3.0 Back Up Hardware | ✅ | ✅ | ✅ | 🟠 Mini PC Opt | 🟠 Mini PC Opt | 🟠 Mini PC Opt |
| 2nd Back Up Storage Drive | ✅ | 🟠 | 🟠 | | | |
| Full Spec Intel i7 PC with High Speed Hard Drive | ✅ | 🟠 | 🟠 | 🟠 Mini PC Opt | 🟠 Mini PC Opt | 🟠 Mini PC Opt |
| Full Spec Intel i5 PC with High Speed Hard Drive | | ✅ | ✅ | 🟠 Mini PC Opt | 🟠 Mini PC Opt | 🟠 Mini PC Opt |
| Monitor | ✅ 2 x Touch 23 Inch | ✅ 2 x 23 Inch | ✅ 1 or 2 x 23 Inch | 🟠 | 🟠 | 🟠 |
| Keyboard | ✅ | ✅ | ✅ | 🟠 | 🟠 | 🟠 |
| Mouse | ✅ | ✅ | ✅ | 🟠 | 🟠 | 🟠 |
| Trolley Design for Mobility with Monitor Mounting | ✅ | ✅ | 🟠 | | | |
| Manual Total Body Mapping Stand | ✅ | 🟠 | 🟠 | | | |
| Automatic Total Body Mapping Stand | 🟠 Coming Soon | 🟠 Coming Soon | 🟠 Coming Soon | 🟠 Coming Soon | | |

| FEATURE KEY: | | |
|---|---|:---:|
| | Included | ✅ |
| | Optional | 🟠 |
| | Not Available | |

* As at 1/6/2023

## Hardware Features



### High Definition Video Camera

This camera is only available with the MoleMax HD. It uses Sony technology to capture the maximum image resolution available with the HD image quality. The camera has an integrated LCD screen to streamline the screening process. Variable adapters are available for zoom functions up to 100x.

The camera is easily controlled via the buttons on the back allowing for zoom, light and all mouse controls. The camera allows for 3 types of images:

**Macro mode:** Macro and close up images can be taken with a live video preview on screen. There is a light source on the camera as well as mouse controls on the back of the handle to provide quick, effective use.

**Micro mode (NO OIL):** With a simple click of an adapter, you are able to view polarised images of your patients lesions with magnifications of 20x, 30x or 40x zoom. No immersion fluids are required as the adapter uses patented polarised light technology to go beneath the skin to capture an image. Also available is our high magnification adapter with 60x, 80x or 100x zoom.

**Micro mode (OIL/FLUIDS):** If you prefer to use oil, we give you that option also. Available is a standard non-polarised adapter (20x, 30x 40x zoom) or a high magnification non-polarised adapter (60x, 80x, 100x zoom).



**Interchangeable adapters that may be used with DermDOC and MoleMax Macro Cameras.**

From left to right: Non-Polarised 20, 30, 40x adapter (optional), Non-Polarised 60, 80, 100x adapter (optional), Polarised 20, 30, 40x adapter (standard), 60, 80, 100x Polarised adapter (optional).

### High Res Digital SLR Camera & Adapter

A Canon SLR is available with the MoleMax HD, Automatic Total Body Mapping Stand and PhotoMAX PRO systems.

It connects to the system via USB and provides a live image on screen before capture. This camera may also be mounted onto our body mapping stand.

The high resolution digital camera can also be connected to your dermatoscope for live imaging with your MoleMax.



## DELM Method Advanced by MoleMax Technology
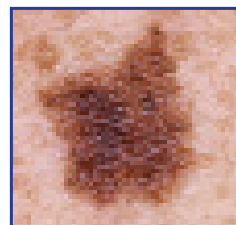


### Digital Epiluminescence Microscopy (DELM) using polarized light with options for wet and dry dermoscopic imaging.
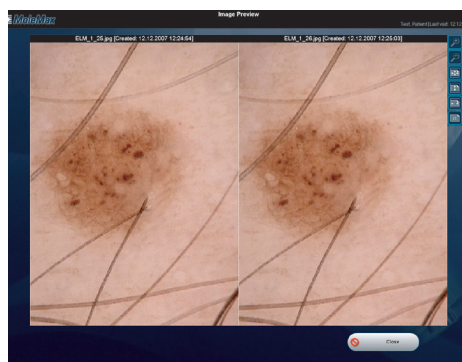
Even an experienced dermatologist finds it difficult to distinguish between a benign and a malignant mole in the early stages. A more detailed and precise diagnosis requires skin surface microscopy.

The method of epiluminescence microscopy opens up a new view of morphological features, colours and patterns not seen in an examination with traditional skin surface microscopy. The University of Vienna Medical School in Austria has pioneered the introduction of this advanced method.

The MoleMax developers advanced this technology even further by developing the only fully hygienically dermoscopy method available, using cross polarised light.

# MoleMax HD

## DIGITAL SKIN IMAGING SYSTEM

## Software Features



### Data Back Up & Export:

The MoleMax and SkinDOC systems runs perfectly within most clinic networks. Data can be stored and backed up on a clinics' server. Where a spare server is not available, the MoleMax is equipped with ports for external backup. Patient images and files may also be exported from the MoleMax system into practice management software.



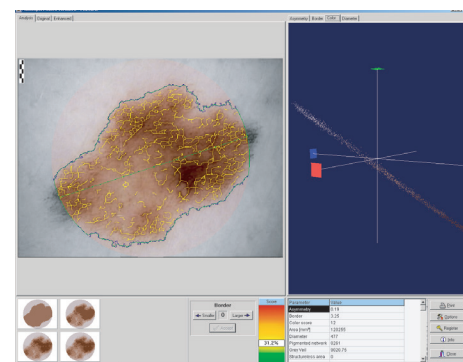### All Skin Library:

The All Skin module is a diagnosis library filled with images and descriptions which give the user the ability to browse and search for certain skin conditions. The skin conditions vary from melanoma to actinic keratosis, basal cell carcinomas and many more. The skin library features hundreds of them, including those not related to skin cancer.



### Histopathology:

The Histopathology module is primarily used to import Histo images into the patient database. Histo images may be imported from any storage media connected to the MoleMax or SkinDOC systems including the local drive, CD/DVD drive, a USB or flash drive, external storage drive or a network location.



### Real Time/Overlay Follow Up:

A quick comparison in large scale is one of the most important features Doctors look for in Skin Imaging software. A follow-up image may be taken with the previous image in view on one side of the screen.

Alternatively, an outline may be generated of the original image to allow for easier follow-up. Images over time may also be compared side by side or over each other to easily assist in recognising lesion alterations.



### TrichoScan (Hair Growth) Module*:

The TrichoScan software allows you to automatically measure and calculate biological parameters of hair growth. Images taken with the MoleMAX or compatible SLR camera are analysed for changes.

The TrichoScan module is an ideal tool to monitor hair loss and treatment response. Some of the parameters that the TrichoScan module assists include hair density, diameter, growth rate and Anagen/Telegen ratio.



### Automatic Scoring Module (MoleMax Only)*:

When the user requires more than a manual scoring method, the Automatic Scoring Module can assist further. This module is used for measurement of moles and pigmented skin lesions. It is a suitable second option, calculating the risk level using the world wide accepted ABCD rule.

The software module automatically calculates each parameter of the ABCD rule and provides a score and risk graph.

*An optional extra. Additional charges apply.

# MoleMax HD

## DIGITAL SKIN IMAGING SYSTEM

## Software Features



### Thumbnail Monitoring

The Thumbnail follow up feature is a new addition created by Doctor and User feedback. This popular new module allows follow ups to be taken from a different view which combines onscreen the micro image, macro image and dummy location at the same time to allow for quick and easy follow up sessions.

Images taken may be scored as either high, medium or low risk and these can be sorted on screen for simultaneous view based on the risk.

All micro and macro images taken may also have all their follow-up images appear side by side on the screen to easily identify the changes over time via the trending approach.
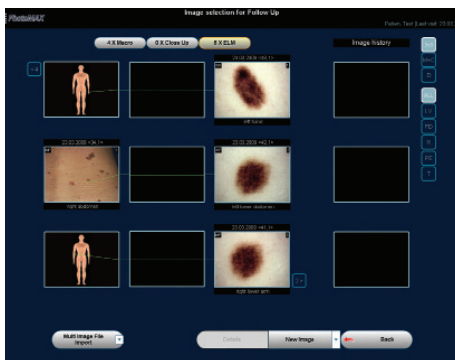


### Trending and Monitoring:

Macro Trending allows for Micro and Histopathology images to be taken over time with comments. A complete patient history can be kept in chronological order every image taken and every comment added to the patient file.

*An optional extra. Additional charges apply.
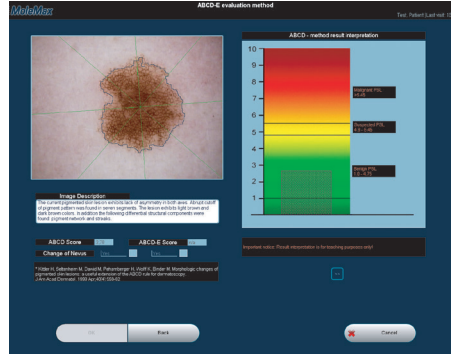


### Expertizer Plus Scoring Aid:

This module contains a histopathology database of diagnosed pigmented lesions taken on the MoleMax system. These diagnosed images can be used for comparison and scoring purposes. This module also includes image analysis functions which will provide the user with automated calculations for various parameters such as diameter, circumference, and area measurements.

The module can also auto-measure and compare any two lesions taken over time to analyse pattern and size changes.

The aid-to-diagnose module has in-built scoring tools which guide the user to assess risk of a lesion with a score.
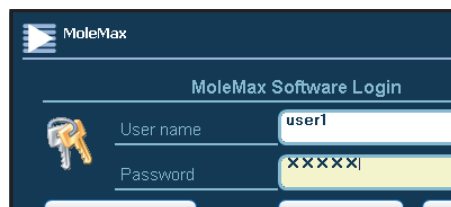


### Multi-User Environment:

Our software is specially designed to operate in a multiuser environment to maintain audit paths and patient data security. The Administrator may tailor access rights for each user, to limit read, write and delete access.
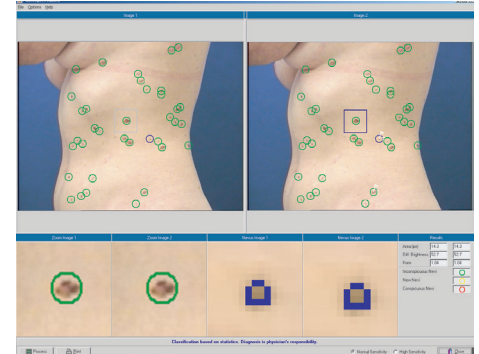


### Body Mapping - Mole Count Module*:

Two similar follow-up images of a relevant body site for one patient will be compared as it can be difficult to identify changed or new mole. The mole mapping module automatically detects nevi in the first and in the follow-up image.

Additionally the software extracts features such as size, shape, and brightness that are relevant to each lesion and these features are compared for all mapped nevi. Extracted moles are shown in full resolution giving a detailed image of the nevus.



### Total Body Mapping:

This function allows the user to make a complete photographic documentation of the entire body based on 33 present segments (quick examination -10 segments). This software allows importing of images from other digital sources such as digital cameras.