



Brand	ACER (http://www.acer.com)
Model	K222HQ
Garanția consumatorului, luni	36

Caracteristici tehnice

Diagonala ecranului	21.5"
Rezoluția ecranului	1920 x 1080 (FHD)
Tehnologia matricei LCD	TN
Iluminarea matricei LCD	LED
Stratul superior	Anti glare
Luminozitate	200 cd/m ²
Frecvența maximală	60 Hz
Contrast tipic	3 000 : 1
Contrast dinamic	100 000 000 : 1
Unghiul observării pe laturile orizontală / verticală	90° / 65°

Interfețe

VGA	1 x VGA
DVI	1 x DVI

Particularități

Înclinare	-5/+25°
Montare VESA	100 x 100

Alimentarea

Sursa de alimentare	Incorporată
Putere consumată	19.5 W

Opțiuni

aycan workstation packages

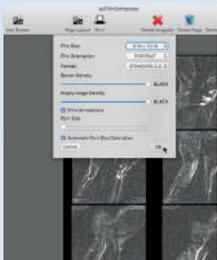
Enhance your workstation's capabilities with (optional) clinical and workflow plug-ins. These tools amplify general diagnostic reading to create the perfect solution for fast and advanced image processing.

> Diagnostic



Your benefits

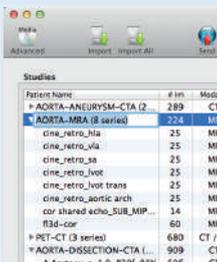
- > Easy control and fast workflow
- > Short image loading times
- > Professional image processing
- > Post-processing included



ayFilmComposer

Offers a "what you see is what you get" interface for managing your DICOM print jobs to print single images, key images, or the complete series.

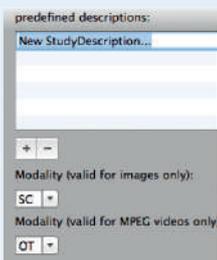
- > Predefined layouts
- > Move images via drag & drop
- > Uniform appearance of prints



ayMediaImporter

Allows you to better manage the patient data you import from CD/DVD to your workstation.

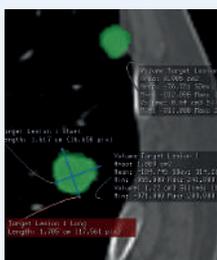
- > Ability to modify data prior to import (change patient demographics)
- > Auto-detection of DICOMDIR files
- > Auto-send to defined DICOM nodes



ayDICOMizer

This plug-in converts JPEG files from, for example a digital camera, and PDF files to DICOM so they can be stored on your workstation.

- > Transfer of patient data
- > Automatic transmission to a PACS
- > Access to most recently used data



aySegmentation

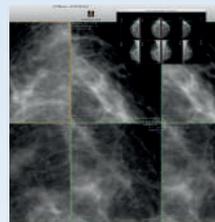
The aySegmentation plug-in creates threshold-based segmentation with automatic calculation of volumetric and RECIST parameters.

> Mammography



Your benefits

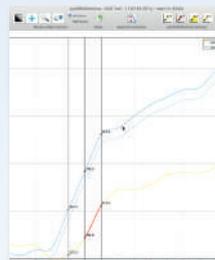
- > More precise shades of gray and high resolution
- > Improved Hanging Protocols
- > Support of Tomosynthesis objects



ayHangingProtocols

Allows you to save display layouts and settings in the Viewer, so when reopening a study (or similar studies) you'll always get the same view.

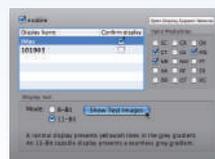
- > Ideal for mammography
- > Change layout with just one click



ay4DROIStatistics

With the 4D ROI Statistics plug-in, you can evaluate voxel values of MRI and CT multi-phase series from different acquisition times.

- > Time-based, graphical representation
- > Change of the curve in real time
- > Export of DICOM and CSV

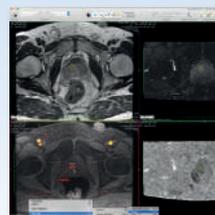


ay11Bit

Attain more detailed gradation in grayscales when using special 11-bit-capable monitors (Eizo/Totoku 5 MP).

- > Improved grayscale display
- > Activation for single modalities
- > Auto-notification with monitor change

> Dynamic MRI/CT



ayDCE

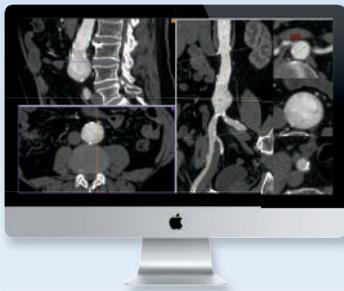
Efficient evaluation/documentation of multiparametric MRI/CT.

- > Representation of the contrast agent dynamics
- > Color overlay of semi-quantitative parameters

ayHangingProtocols

ay4DROIStatistics

> Vessel Analysis



Your benefits

- > Professional image processing
- > Preoperative planning in 2D/3D
- > Comparison of pre- and post-operative investigations



ayVessel

Supports segmentation of vessels in CTA data sets and provides center lines for vessel assessment.

- > Segmentation of CTA vessels
- > Center lines for curved MPR
- > For all kinds of arteries (e.g. carotids, coronaries, leg-pelvis, aorta)

Additional plug-ins for ...

> Oncology



Your benefits

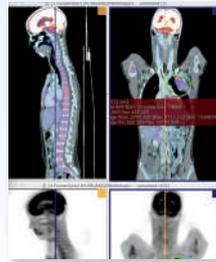
- > easy operation and faster workflow
- > synchronous presentation of baseline and follow-ups
- > Autom. image registration and synchronization of follow-up studies



ayRecist

Quickly and easily quantify and analyze lung tumors according to the RECIST 1.1 guideline.

- > Support for naming of ROIs
- > Synchronous display of both baseline and follow-ups
- > Display of diameters (single, sum, alter.)

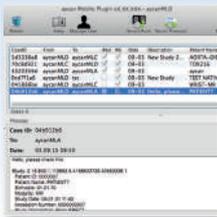


FusionSync

Allows simultaneous displaying of a multi-modal series and its follow-up studies.

- > Automatic co-registration for CT, MR, PET and SPECT
- > Interactive image fusion in 3D
- > Synchronization of follow-up studies

> Mobile viewing

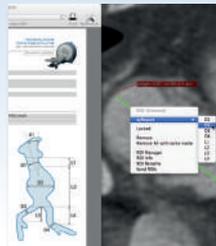


ayMobile

Send studies, series and messages to the iPad.

- > Easy drag and drop support
- > Anonymized sending
- > Management of target devices

> Reporting



ayReport

Quickly and easily create finding reports from customized, branded, easy-to-use templates. ROIs and calculated values from the viewer can be easily populated to predefined fields in your report.

- > Store, PDF export and email reports
- > Customizable templates (optional)

> Speech recognition



ayTranscription

Efficiently report findings with the integration of dictation and speech recognition.

- > Digital dictation system for radiologists and transcriptionists
- > Radiology dictionary

> Dictation



ayDictation

The plug-in offers a comfortable way to record audio and send it to dictation systems like Nuance Speechmagic via DICOM/FTP/SMB.

CE 0297

FDA (USA) cleared as a medical device class II

aycan workstation plug-ins



ayMobile



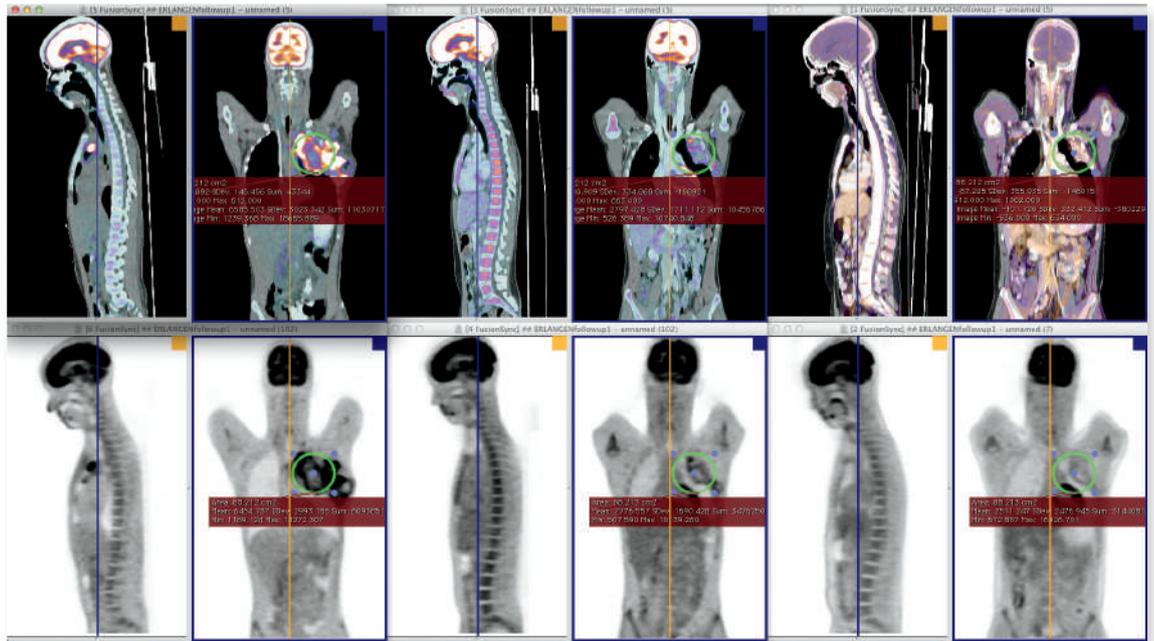
With the ayMobile plug-in, you can send studies, series or messages from your workstation to your iPad.

- » Simple sending via Drag & Drop from the database window
- » Send pseudonymized series and text messages
- » Auto-routing to different iPads via „Smart Push“

aycan workstation plug-ins



FusionSync

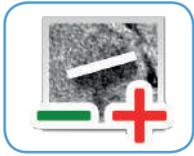


The hardware-based image registration algorithm of FusionSync allows simultaneous displaying of multi-modal series and its follow-up studies by performing an automatic image fusion.

- » Automatic co-registration for CT, MR, PET and SPECT
- » Interactive image fusion in 3D
- » Synchronization of follow-up studies



aycan workstation plug-ins



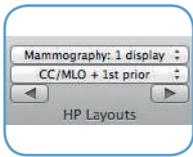
ayRecist

RECIST 1.1	Baseline	Followup 1	Followup 2
RECIST absolut	40.84 mm	23.91 mm	38.28 mm
Difference to Baseline in %	---	-41.46 %	+6.29 %
Difference to Minimum in %	+70.82 %	---	+60.08 %
Target Lesion 1	40.84 mm	23.91 mm	38.28 mm

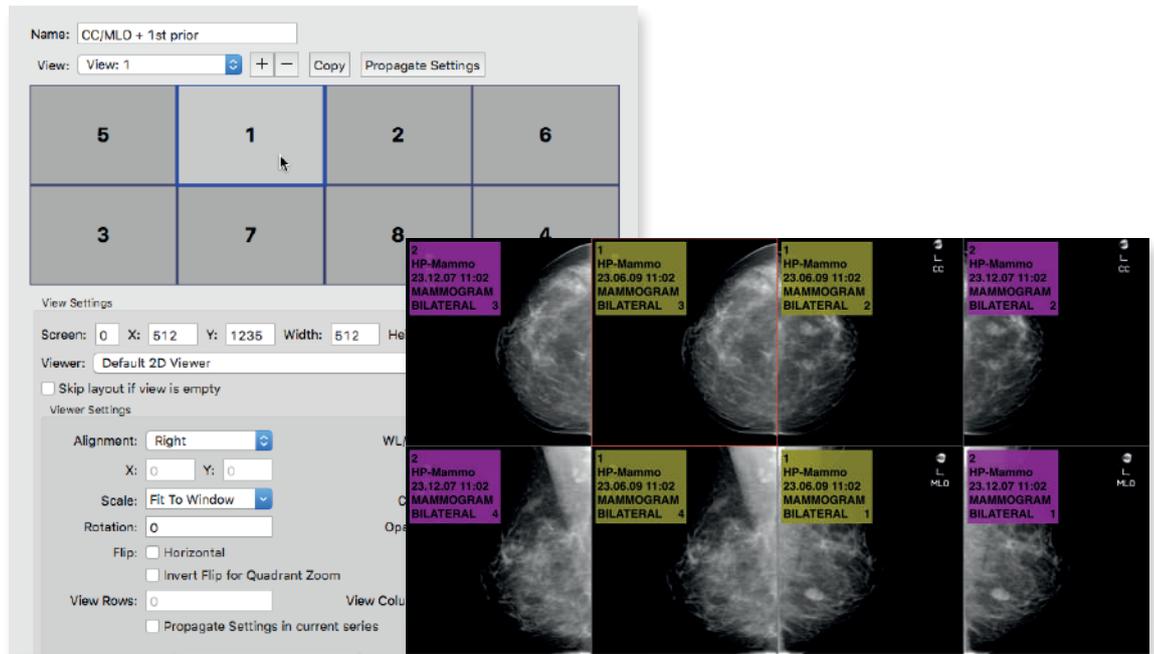
The ayRecist plug-in allows you to quickly and easily quantify and analyze lung tumors according to the RECIST (Response Evaluation Criteria In Solid Tumors) 1.1 guideline.

- » Support for naming of ROIs
- » Synchronous display of both baseline and follow-ups
- » Display of diameters (single, sum, alteration)
- » Export of results

aycan workstation plug-ins



ayHangingProtocols



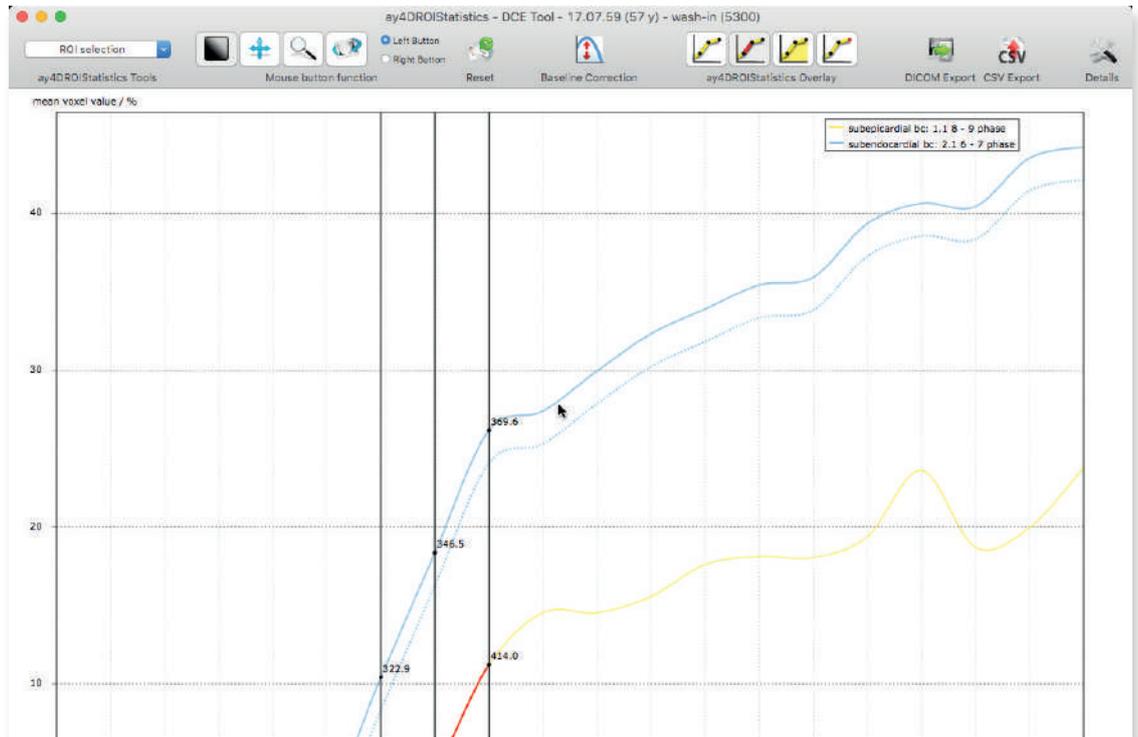
The ayHangingProtocols plug-in allows you to save display layouts and settings to always get the same view when reopening a study.

- » Ideal for Mammography workstations
- » Easy usage and fast workflow
- » Change layout with just one click or keyboard short cut

aycan workstation plug-ins



ay4DROIStatistics



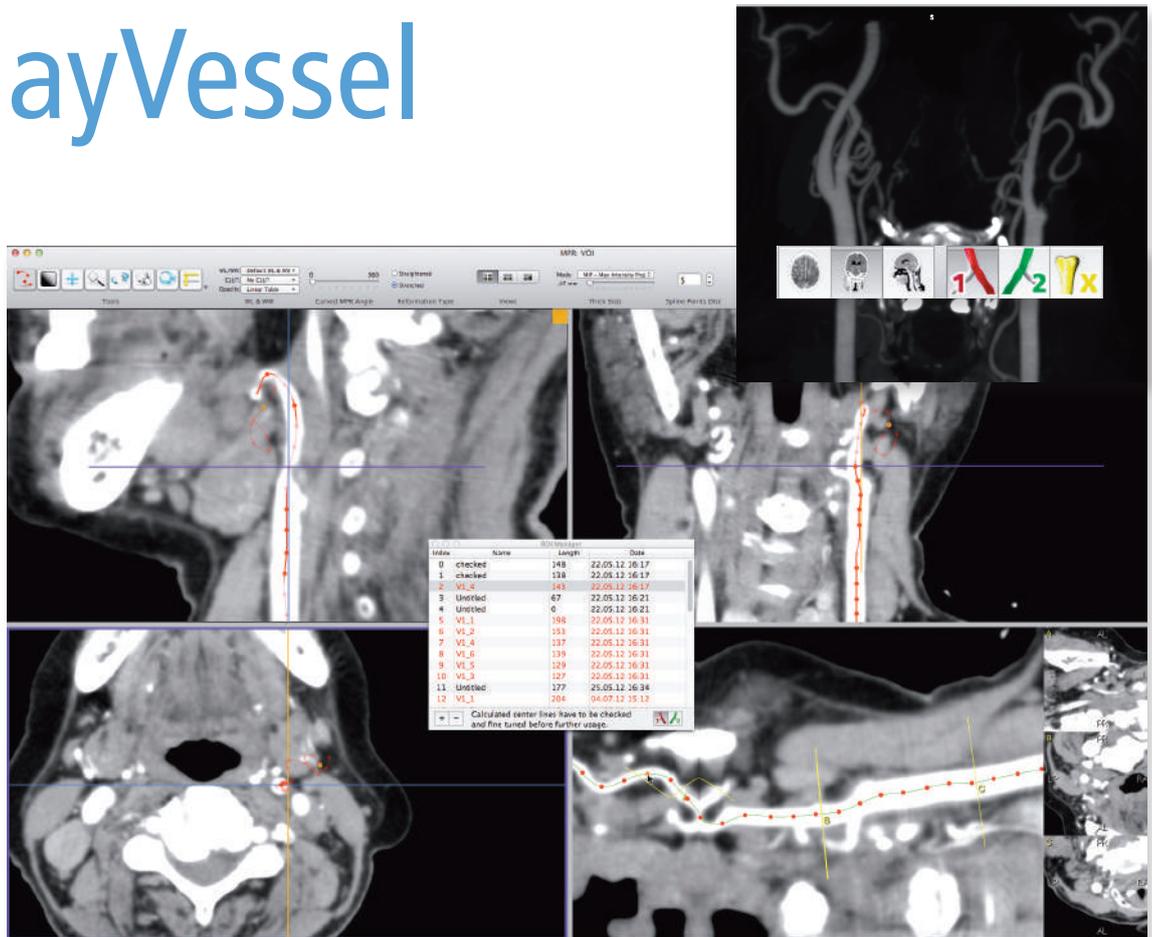
With the optional ay4DROIStatistics plug-in, you can evaluate voxel values of MRI and CT multi-phase series from different acquisition times.

- » Time-based, graphical representation of values with options
- » ROI-modifications effect change of the curve in real time
- » DICOM export as new series and CSV export of ROI values

aycan workstation plug-ins



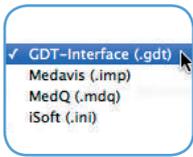
ayVessel



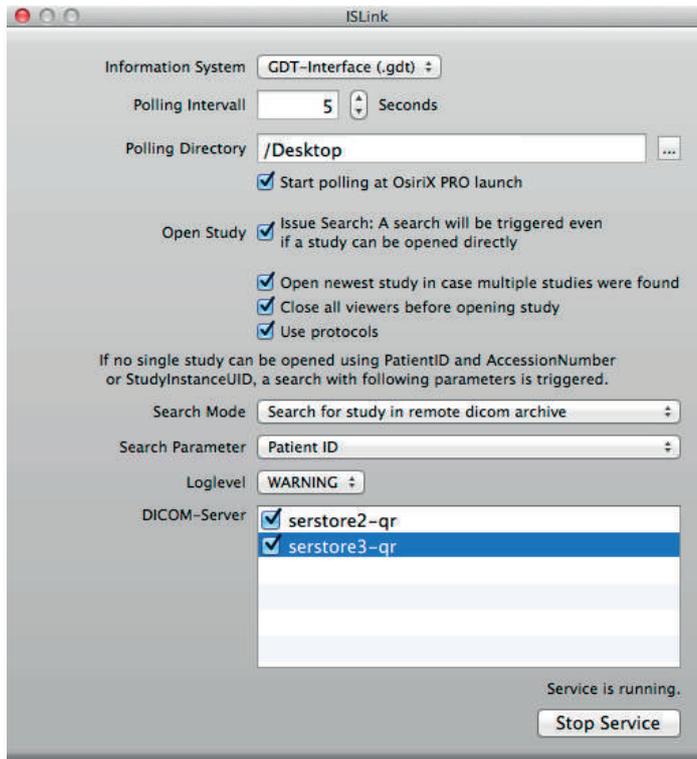
With the ayVessel plug-in you can mark specific areas to show vessels and centerlines in different views.

- » Interactive assistant for small and large vessels
- » Determine diameter and length via 3D Curved MPR
- » 2D/3D view of vessels including postprocessing and export

aycan workstation plug-ins



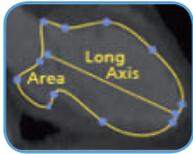
ayISLink



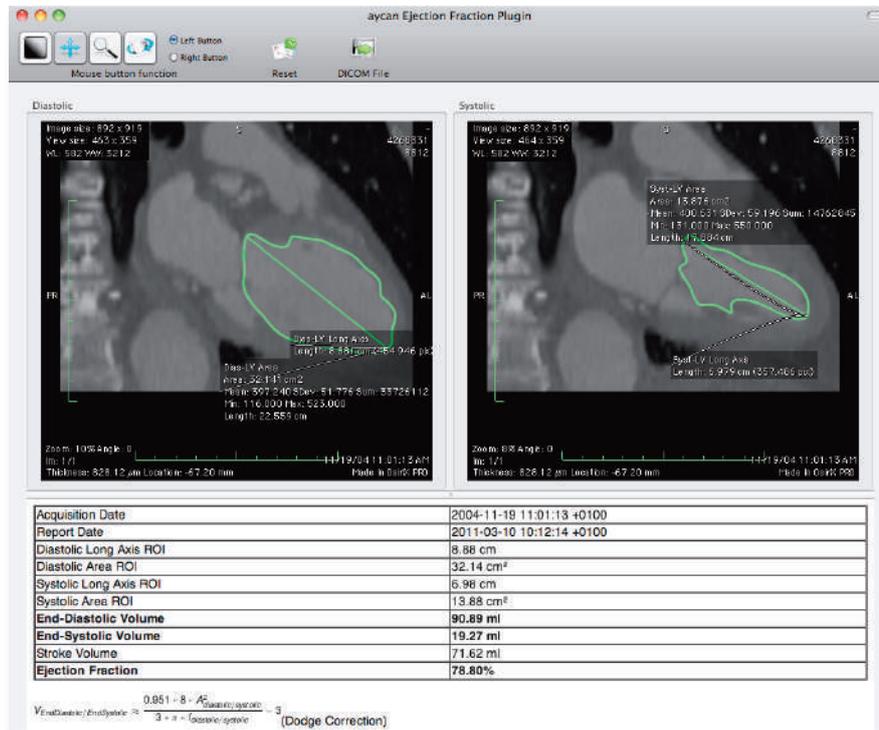
The ayISLink plug-in allows you to open studies directly from your radiology- or patient information system.

- » RIS driven workflow
- » Patient has to be searched only once

aycan workstation plug-ins



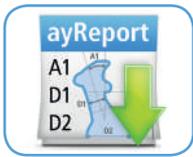
ayEjectionFraction



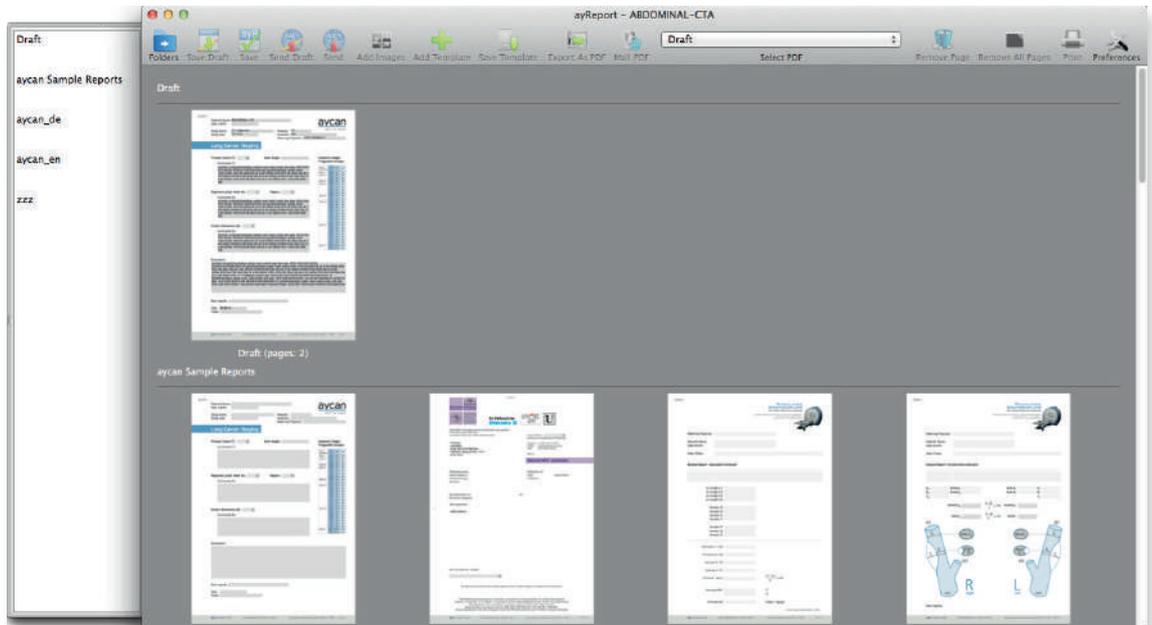
The optional ayEjectionFraction plug-in calculates the left ventricle ejection fraction according to the „Dodge Correction“ method.

- » Support for naming of ROIs
- » Visualization of systolic and diastolic measurement
- » Export results as a DICOM file
- » Determination of ejection fraction by means of „Dodge Correction“

aycan workstation plug-ins



ayReport



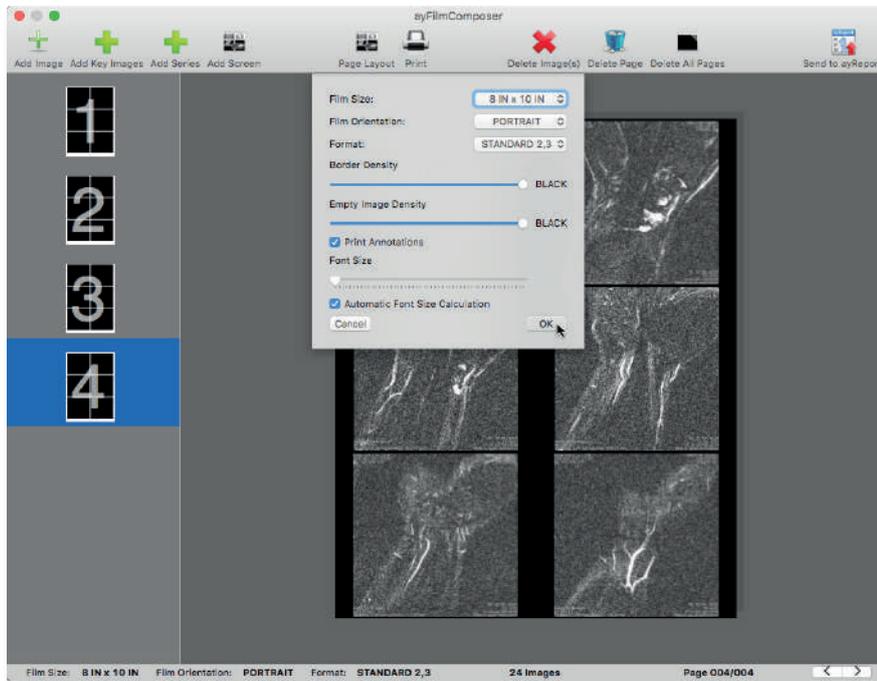
The ayReport plug-in allows you to create individual reports in a fast, easy way. You are also able to automatically transfer calculated values from the Viewer to predefined fields at your report.

- » automated transmission of measurements
- » storage, PDF export and emailing of reports
- » individual templates (optional)

aycan workstation plug-ins



ayFilmComposer



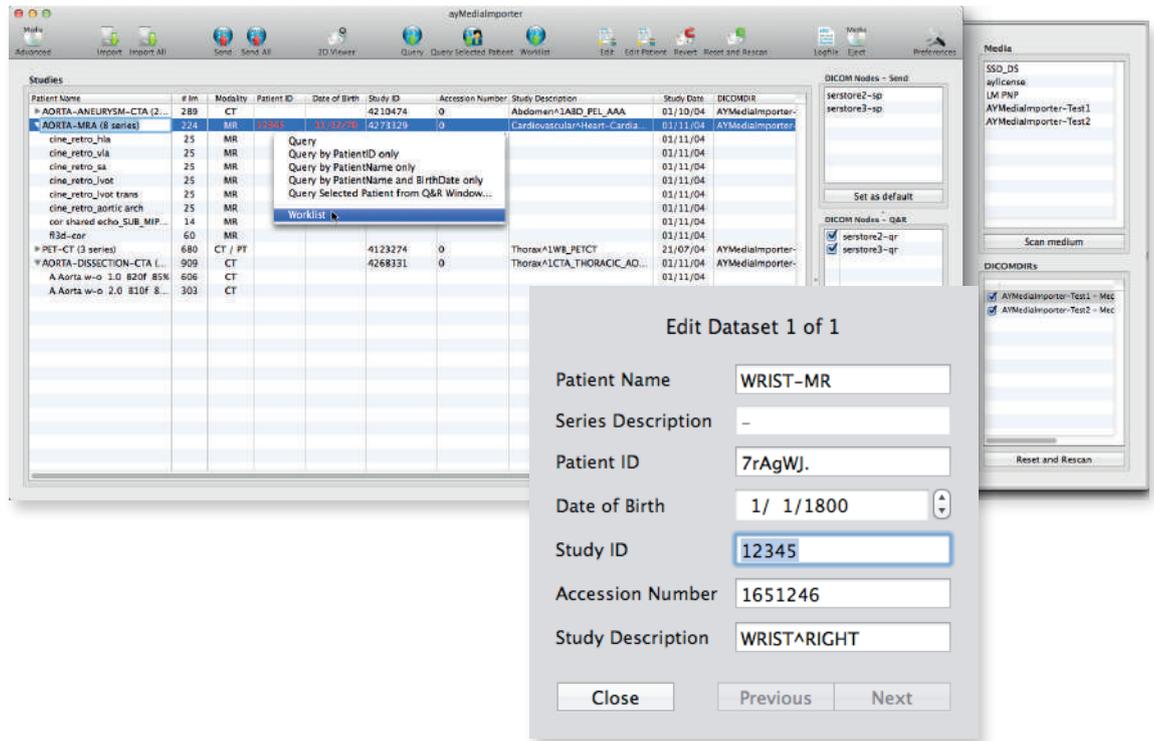
The ayFilmComposer plug-in allows you to add and manipulate the layout and several parameters and print single images, key images or the complete series.

- » Predefined layouts for standard paper and film sizes
- » Move images and text using drag & drop
- » Uniform appearance of prints

aycan workstation plug-ins



ayMediaImporter



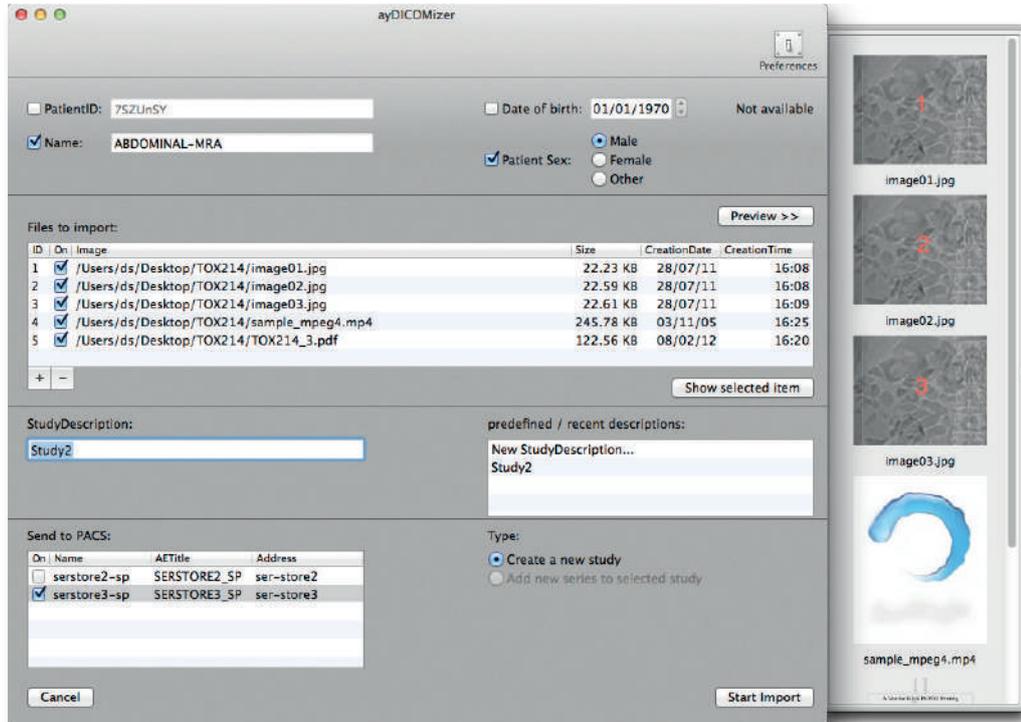
The ayMediaImporter plug-in allows you to automatically import patient data from CD, DVD or USB.

- » Automatic detection of DICOMDIR data
- » Possibility to modify data before import
- » Auto-send to pre-configured DICOM nodes

aycan workstation plug-ins



ayDICOMizer



With the ayDICOMizer you can convert JPEG and PDF files to DICOM.

- » Auto-send of imported data to your PACS
- » Access to pre-defined and last used data
- » Automatic transfer of patient data from the database window

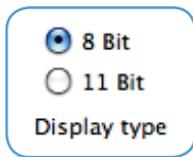
aycan workstation plug-ins



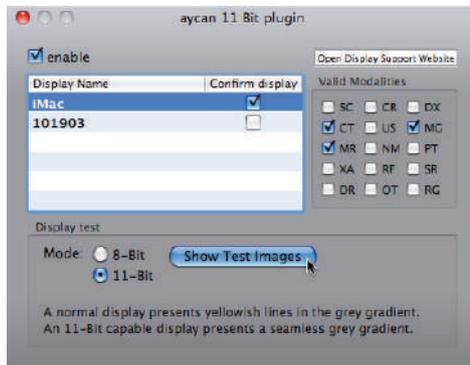
ay6868-57

<Gibt es nur in DE>

aycan workstation plug-ins



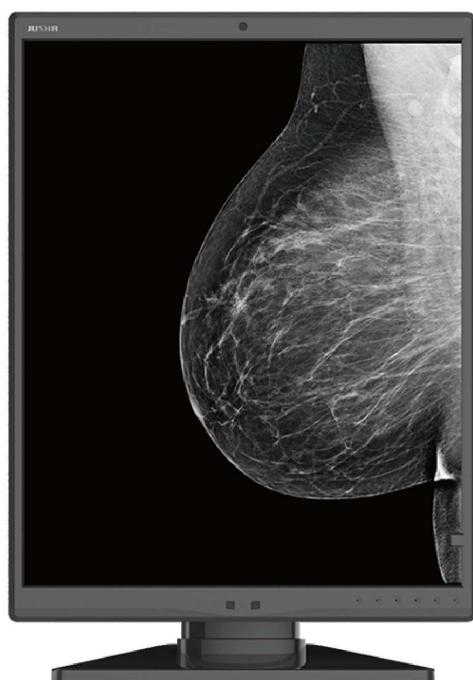
ay11Bit



With this ay11Bit plug-in, you will attain more detailed gradation in grayscales when using special 11-bit-capable monitors.

- » Improved grayscale display with high quality monitors
- » Activation possibility for individual modalities
- » Automatic notification with monitor change

M550G



JUSHA professional display is featured with high resolution, high luminance, 16bit grayscale (65536 grade), built-in LUT based on DICOM standard, designed for high-requirement of clinical diagnosis, such as PACS, Digital Mammography, CR, DR and other x-ray systems.

Features

1.High resolution

Jusha report and audit display is paired with 6MP resolution, which can present the medical image precisely. From 1MP DSA image to 5MP mammography, they all can be displayed in the monitor perfectly, and guarantees a good compatibility with wide range of device.

2.High luminance

The calibrated luminance of JUSHA professional medical display can reach up to 2,500cd/m2. With the combination of high luminance and great contrast, a significant sense of depth is formed, perfect for locating the nidus.

3.High grayscale

The monitor has a 16-bit LUT table, which can express 65536-grade grayscale, and provides a smoother image transition. JUSHA professional display guarantees a perfect presentation of 16-bit high grayscale image captured by high-end equipment. Also, it is helpful to diagnose the early lesion of low contrast with normal tissues.

4.Focus View Spotlight

After the spotlight is enabled, the system will dim the full screen, capture the coordinates of the cursor by software, and highlight the circle area or the rectangular area centered at the cursor to the highest calibrated luminance. This achieves a similar effect of spotlight on stage, highlighting the nidus and assisting diagnosis.

5.X-ray film viewer

The display has built-in light box mode. With the magnetic film clip clamping the films, and quick operation by shortcut keys, doctor can conveniently read the film on the monitor.

6.Ambient Brightness Adaptation

JUSHA ambient light compensation and correction system can detect the ambient light, and then adjust the display accordingly. This can better suit the observation capability of human eyes, display the image, and could be applied to various luminance environments. The luminance of the display can adapt to working environment, providing great protection for the eyesight of doctors.

7.Dynamic LUT

The monitor uses dynamic LUT. Compared with traditional LUT, DICOM calibration is no longer limited to preset curves. By applying dynamic LUT, we can calibrate the monitor's luminance and contrast in real time, which guarantees the monitor comply with DICOM standard under all luminance settings.

8.SmarTouch® patent

To reduce the visual fatigue during the review, Jusha developed SmarTouch® technology. The luminance can be changed by tapping the SmarTouch button, and the luminance remains stable in a short time with our BIA technology. It guarantees an accurate diagnosis as well as visual protection for doctors.

9.Presence Induction/Eco-guardian

JUSHA professional medical display equipped with Eco-guardian can detect if there being any user in front of the monitor. The monitor will go sleep under a preset time to save energy and prolong the service life of display, given no human is present. Moreover, the system can differentiate human and other nonhuman objects such as chairs and tables, making the detection smarter and more accurate.

10.Calibration by front sensor

The front sensor can detect the luminance of the light emitted by the display panel. Together with the backlight sensor, the system combines all luminance information and ensure that the luminance output is consistent with the DICOM standard.

11.Multi-display configuration

Our professional display supports multi-display configuration. By using DisplayPort connection, multiple displays in a serial installation manner become possible. No more messy cables and wires.

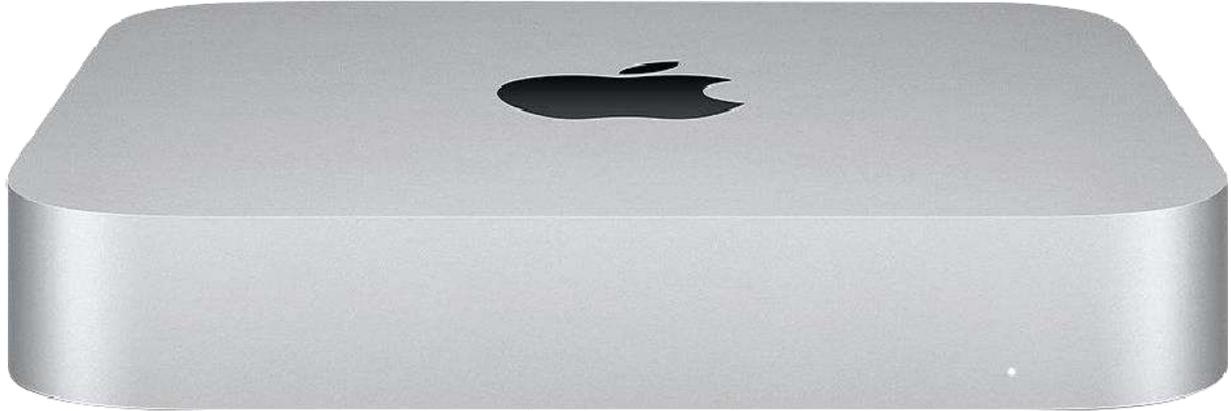
12.Remote quality control system

The quality control system of JUSHA professional display can monitor and control all JUSHA monitors through network remotely. The on-site maintenance of monitors in hospitals may disturb the normal workflow, but the remote quality control system makes it more convenient. JUSHA remote quality control system provides a better experience of remote maintenance and examination service.

Specification

Model No.	M550G
Type	IPS
Backlight	LED
Size	21.3"
Type (Color/Monochrome)	Monochrome
Active Display	422.4(H)×337.92(V)mm
Mpixel	5MP
Resolution	2560×2048/2048×2560
Aspect ratio	5:4
Pixel Pitch	0.165×0.165mm
Ton+Toff(typ)	12ms(6.5ms+5.5ms)
Response Time	
Maximum Brightness (typ)	2500cd/m ²
Contrast Ratio (typ)	1700:1
Grayscale tone	10bit
Grayscale tone (LUT)	65536
View angle	≥178°
Sensor	Backlight /Front /Presence /Ambient Light /Temperature
Maximum Corrected Brightness	1000cd/m2
Gamma presets	DICOM Presets and GAMMA 2.2,GAMMA2.4
LUT	DICOM,GAMMA2.2,GAMMA2.4,DSA,DSI ,CT/MRI
Input Interface	DVI-D×1、DP×1
Output Interface	DP×1 (daisy chain)
SmarTouch	√
X-ray FilmView(XFV)	√
Focusview	√
Front-sensor calibration	√
Eco-guardian	√
Ambient luminance self-adaptation(ABA)	√
Ambient Light Compensation (ALC)	√
Screen luminance equilibrium calibration(SLE)	√
Web QA	√
Power Requirements	24VDC-3.75A
Max Power Consumption	60W
Typical Power Consumption	35W
Cabinet color	Cold gray
Dimensions	363mm*522mm*238mm
Dimensions (Without Stand)	363mm*475mm*66mm
Net Weight	10kg
Net Weight (Without Stand)	6.5kg
Hole Spacing	VESA: 100*100mm
Certifications	CCC, CQC, CE, FDA
Osd Languages	Chinese、English

Mac mini (M1, 2020) – Technical specifications



Finish

- Silver

Chip

- **Apple M1 chip**
8-core CPU with 4 performance cores and 4 efficiency cores
8-core GPU
16-core Neural Engine

Memory

- **8GB**
8GB unified memory
Configurable to 16GB

Storage¹

- **256GB**
256GB SSD
Configurable to: 512GB, 1TB, or 2TB

Video Support

- **Simultaneously supports up to two displays:**
One display with up to 6K resolution at 60Hz connected via Thunderbolt and one display with up to 4K resolution at 60Hz connected via HDMI 2.0
- **Thunderbolt 3 digital video output supports**
Native DisplayPort output over USB-C
Thunderbolt 2, DVI, and VGA output supported using adapters (sold separately)

- **HDMI 2.0 display video output**
Support for one display with up to 4K resolution at 60Hz
DVI output using HDMI to DVI Adapter (sold separately)

Audio

- Built-in speaker
- 3.5 mm headphone jack
- HDMI 2.0 port supports multichannel audio output

Connections and Expansion

- Two Thunderbolt / USB 4 ports with support for:
 - DisplayPort
 - Thunderbolt 3 (up to 40 Gb/s)
 - USB 4 (up to 40Gb/s)
 - USB 3.1 Gen 2 (up to 10 Gb/s)
 - Thunderbolt 2, HDMI, DVI, and VGA supported using adapters (sold separately)
- Two USB-A ports (up to 5 Gb/s)
- HDMI 2.0 port
- Gigabit Ethernet port
- 3.5 mm headphone jack

Communications

- **Wi-Fi**
 - 802.11ax Wi-Fi 6 wireless networking
 - IEEE 802.11a/b/g/n/ac compatible
- **Bluetooth**
 - Bluetooth 5.0 wireless technology
- **Ethernet**
 - 10/100/1000BASE-T Gigabit Ethernet (RJ-45 connector)

Size and Weight

- Height: 1.4 inches (3.6 cm)
- Width: 7.7 inches (19.7 cm)
- Depth: 7.7 inches (19.7 cm)
- Weight: 2.6 pounds (1.2 kg)²

Electrical and Operating Requirements

- Line voltage: 100-240V AC
- Frequency: 50Hz to 60Hz, single phase
- Maximum continuous power: 150W
- Operating temperature: 50° to 95° F (10° to 35° C)
- Storage temperature: -40° to 116° F (-40° to 47° C)
- Relative humidity: 5% to 90% noncondensing

- Operating altitude: tested up to 16,400 feet (5000 meters)
- Typical acoustical performance: Sound pressure level (operator position): 5 dBA at idle³

In the Box

- Mac mini
- Power cord

Operating System

macOS

macOS is the most advanced desktop operating system in the world. macOS Big Sur introduces a bold new design and major updates to apps — taking macOS to a new level of power and beauty. [Learn more – Operating System](#)

Accessibility

Accessibility features help people with disabilities get the most out of their new Mac mini. With built-in support for vision, hearing, mobility, and learning, you can create and do amazing things. [Learn more – Accessibility](#)

Features include:

- Voice Control
- VoiceOver
- Zoom
- Increase Contrast
- Reduce Motion
- Siri and Dictation
- Switch Control
- Closed Captions
- Text to Speech

Built-in Apps⁴

- Photos
- iMovie
- GarageBand
- Pages
- Numbers
- Keynote
- Siri
- Safari
- Mail
- FaceTime

- Messages
- Maps
- News
- Stocks
- Home
- Voice Memos
- Notes
- Calendar
- Contacts
- Reminders
- Photo Booth
- Preview
- Books
- App Store
- Time Machine
- TV
- Music
- Podcasts
- Find My
- QuickTime Player

Configure to Order

Configure your Mac mini with these options, only at apple.com:

- 16GB unified memory
- 512GB, 1TB, or 2TB SSD

Mac mini and the Environment

Apple takes a complete product life cycle approach to determining our environmental impact. [Learn more – Mac mini and the Environment](#)

Mac mini is designed with the following features to reduce its environmental impact:⁵ [See the Mac mini Product Environmental Report](#)

Made with better materials

- 100% recycled aluminum in the enclosure
- 100% recycled tin in the solder of the main logic board
- 35% or more recycled plastic in multiple components

Energy efficient

- ENERGY STAR® certified⁶

Smarter chemistry⁷

- Mercury-free
- BFR-, PVC-, and beryllium-free

Green manufacturing

- Apple's Zero Waste Program helps suppliers eliminate waste sent to landfill
- All final assembly supplier sites are transitioning to 100% renewable energy for Apple production

Responsible packaging

- 100% of virgin wood fiber comes from responsibly managed forests
- Recyclable, majority-fiber packaging

Apple and the Environment

We're committed to making our products without taking from the earth, and to become carbon neutral across our entire business, including products, by 2030. [See Apple's commitment](#)

Acoustic Performance

Declared noise emission values in accordance with ECMA-109

	Sound Power Level $L_{WA,m}$ (B)	Sound Pressure Level Operator Position $L_{pA,m}$ (dB)
Idle	1.4 ($K_v=0.3$)	5
Wireless web	1.4 ($K_v=0.3$)	5

1. $L_{WA,m}$ is the mean A-weighted sound power level, rounded to the nearest 0.1 B.
2. $L_{pA,m}$ is the mean A-weighted sound pressure level measured at the operator position (rounded to the nearest 1 dB).
3. 1 B (bel) = 10 dB (decibel)
4. K_v is the statistical adder for computing upper-limit of A-weighted sound power level.
5. The quantity, $L_{WA,c}$ (formerly called L_{WAd}) may be computed from the sum of $L_{WA,m}$ and K_v .
6. The Wireless web test browses 25 popular websites.
7. Configuration tested: Apple M1 chip, 8GB memory, 512GB storage.

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1. 1GB = 1 billion bytes and 1TB = 1 trillion bytes; actual formatted capacity less.
 2. Weight varies by configuration and manufacturing process.
 3. Acoustics measured from typical operator position sitting in front of standard Mac mini system. Acoustics may vary by configuration.
 4. iMovie, GarageBand, Pages, Numbers, and Keynote are available on the Mac App Store. Downloading apps requires an Apple ID and a device that is compatible with the OS version required for each app.
 5. Data accurate as of product launch.
 6. ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the U.S. Environmental Protection Agency.
 7. Apple defines its restrictions on harmful substances, including definitions for what Apple considers to be “free of,” in the [Apple Regulated Substances Specification](#). Every Apple product is free of PVC and phthalates with the exception of AC power cords in India, Thailand (for two-prong AC power cords), and South Korea, where we continue to seek government approval for our PVC and phthalates replacement.
 8. PVC-free AC power cord available in all regions except India and South Korea.
 9. Recycled material claim applies to the enclosure.
 10. Mac mini achieved a Gold rating from EPEAT in the U.S. and Canada.