MediaWorkStation

COLPOSCOPY

The new approach to a fully integrated colposcopy

Agenda

1. Introducing MES
2. Requirements on modern colposcopy
3. MediaWorkStation as a solution
4. Individual training
5. What to offer, system configurations
6. What to do, system preparation
7. Service & support
8. Discussion of experience

Introducing MES Medien Elektronik Software

- Founded in 1997 as an engineering company
- Focused on products for medical video examination and documentation
- Provides software, system components up to entire systems
- Partnership with Leisegang for documentation and integrated video colposcopy
- Responsible for development, production, service and support

Requirements on modern colposcopy

Artificial itelligence for sophisticated support

Visual examination

Image processing as simple support

Explanation of findings in a textual report

Subsequent examinations based on video recordings

Standardised findings reports

Integration into clinic systems

Picture findings on paper

Integration into office system

Electronic findings report

Data exchange via USB, e-mail, cloud

MediaWorkStation as a solution

Requirement	Availability
Visual live examination and recording	✓
Creating reports with texts and pictures	✓
Using standardised nomenclature databases	✓
Findings report electronically or printed	✓
Data exchange / system integration	✓
Image processing	✘ (not yet)
Artificial intelligence	✘ (not yet)

MediaWorkStation general functionality

- Simple and intuitive user interface
- Touch screen operating including screen keyboard
- Recording of videos and individual pictures
- Preview with split display for „live“ image and individual images
- Structured saving of all recordings in a database
- Graphical markers with individual comments
- Manual input of comments for sessions and recordings
- Standardized comment database
- Creation of reports in HTML format including patient information and pictures

MediaWorkStation edition comparision

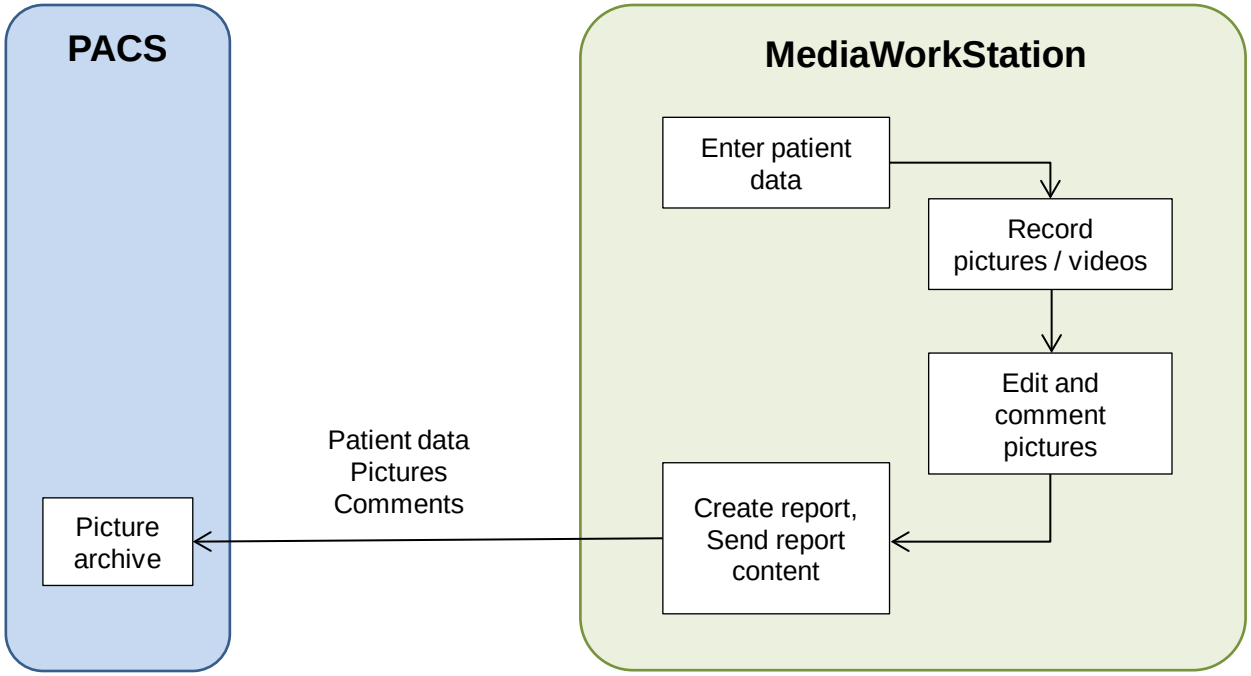
Function	Basic	Classic
User management	✘	✓
Picture and video comparision	✘	✓
Video source selection	✘	✓
Video cutting	✘	✓
Reports containing…	Pictures	Pictures and videos
Report templates	Predefined	User selectable
DICOM support (optional)	Send	Worklist

Only selected properties in addition to common standard functionality

MediaWorkStation in a clinical environment

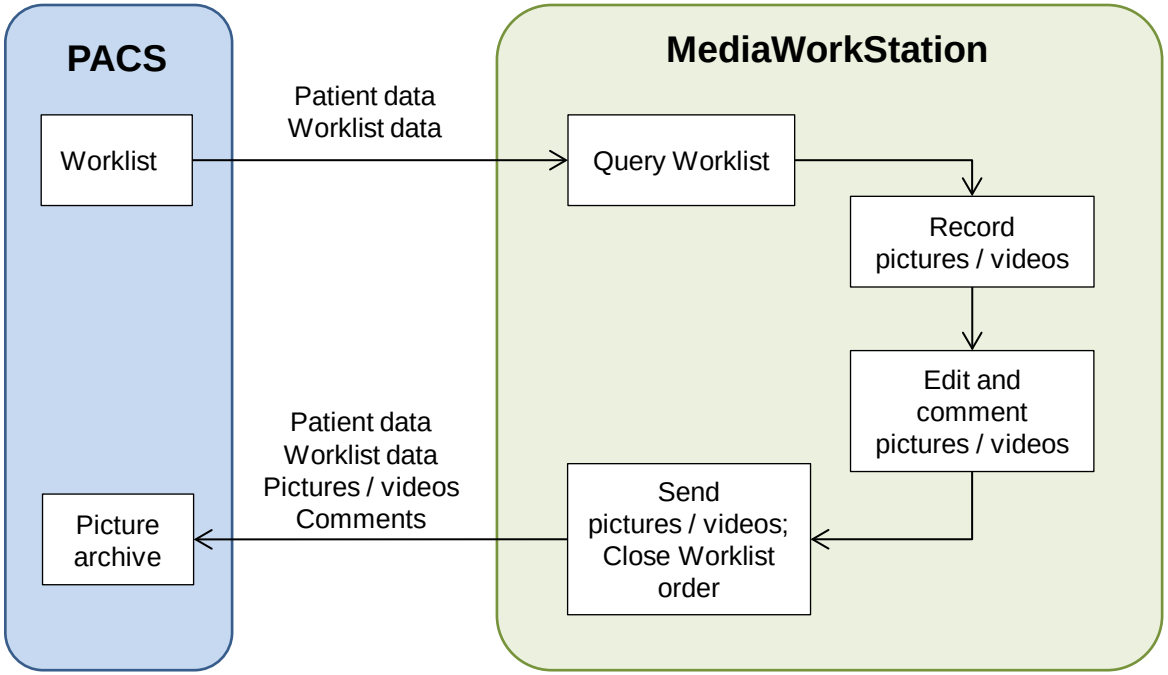
- Converts the colposcope into an „Imaging Modality“
- Easy integration of image sources into PACS
- Efficient examination and reporting workflow
- DICOM Push and Basic Edition
- DICOM Worklist and Classic Edition

DICOM Push structure



DICOM conformance statement availabe in download area

DICOM Worklist structure



DICOM conformance statement available in download area

Fundamental workflows

1. Minimal stand alone workflow
2. Examination workflow using DICOM Worklist
3. Dynamic colposcopy workflow

Minimal stand alone workflow

1. Create a patient file in database
2. Record some still images
3. Select image from archive
4. Insert graphical markers, hotspots too
5. Insert comments, to hotspots too
6. Repeat steps 3 to 5 if necessary
7. Create report from session

Training video available

Examination based on „DICOM Worklist“

1. Check worklist for orders
2. Record some still images
3. Select image from archive
4. Insert graphical markers, hotspots too
5. Insert comments, for hotspots too
6. Repeat steps 3 to 5 if necessary
7. Close order and send findings to PACS

Training video available

Dynamic colposcopy workflow

1. Create a patient file in database
2. Record entire examination as video
3. Open video from archive or recorder
4. Abstract picture from video
5. Insert graphical markers, hotspots too
6. Insert comments, for hotspots too
7. Repeat steps 4 to 6 if necessary
8. Create report from session

Training video available

Individual training

Participants perform the workflows by themselves

- MediaWorkStation Basic Edition
- MediaWorkStation Classic Edition with DICOM Worklist
- Dynamic colposcopy with MediaWorkStation Classic Edition

(refer to video guides)

MediaWorkStation is NOT…

- … a simple picture/video recorder
- … a DICOM workstation or viewer
- … a patient information system like HIS, EPR, EMR, EHR etc.

MediaWorkStation is…

- … the junction between image source and EMR
- … a highly specialized assistant for reporting examinations
- … a specialized multimedia findings archive
- … a program that converts a colposcope into a DICOM modality

What to offer, system configurations

- Minimal system requirements
  - Windows 10 / 8 / 7 / Vista
  - Processor Intel Core i5 2,4 GHz or comparable
  - System memory 2 GB DDR3
  - Harddisk space 200 GB
  - Intel HD graphics 3000
  - Video converter with DirectShow support
  - Display, 1024x768 pixel, color 32Bit

- Optimal system configuration
  - Panel or tablet PC with touch surface
  - Windows 10
  - Intel core-i5 at least 4th generation
  - 4 GB RAM, 500 GB SSD
  - Integrated graphics adapter
  - Full HD IPS display, Panel PC with 21“ / Tablet PC with 12“

- Refer to the manual section for particular edition

System A - Panel computer and MWS

- For users in clinics and medical offices
- All components are tested according to medical safety standards
- MWS-BE or MWS-CE, option DICOM

System B - Tablet computer and MWS

- For users with limitations in space or high mobility requirements
- Tablet PC not tested according medical safety standards
- Minimal safety measures are met using a medical power supply
- MWS-BE or MWS-CE, option DICOM

System X – User computer and MWS

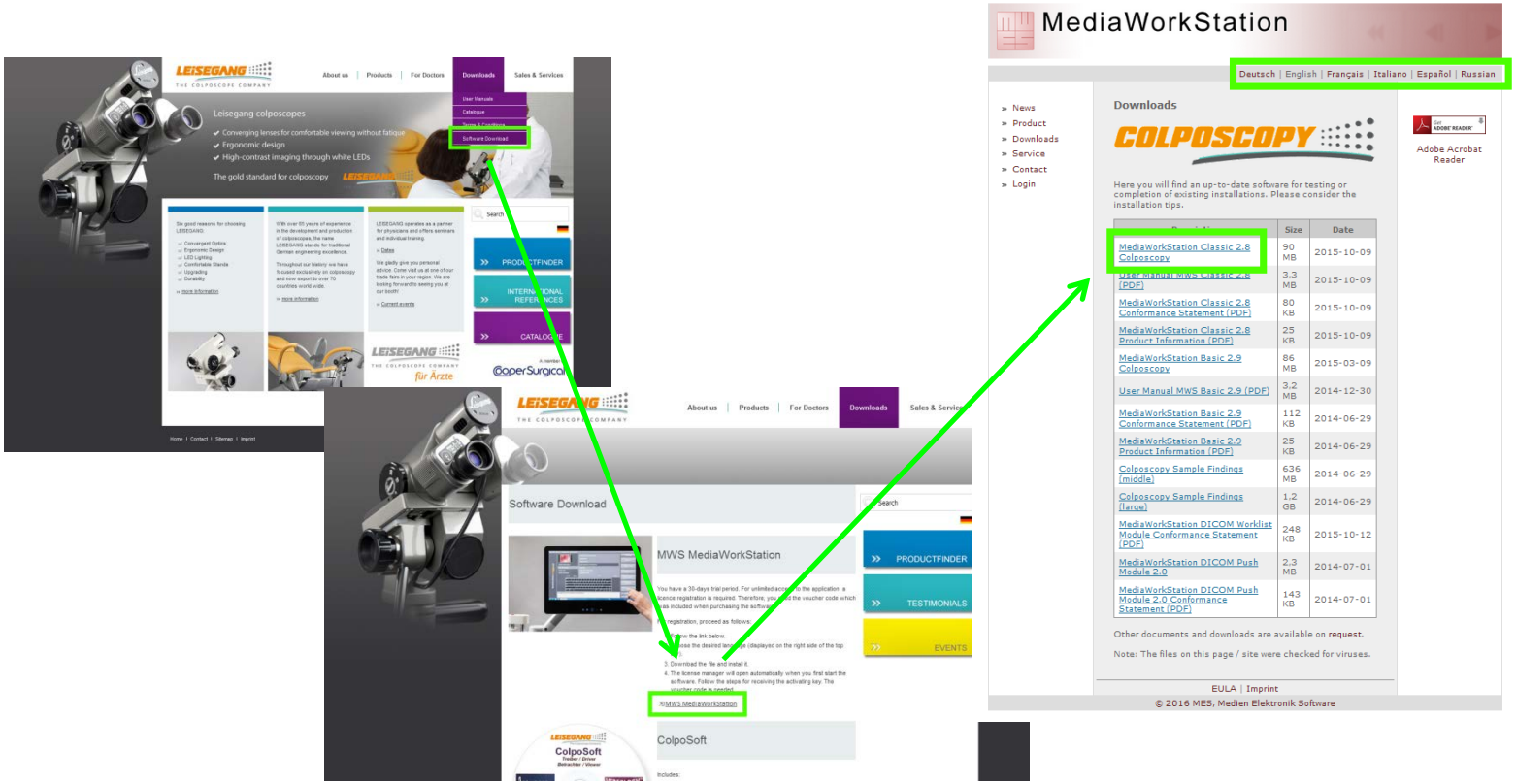
- NOT suggested
- Unstable hardware
- Unmanaged software
- System requirements not fulfilled
- Unclear responsibility

What to do for system preparation

- Download MediaWorkstation software
- Software installation
- License activation
- Device configuration
- Function test

Where to get the MediaWorkStation

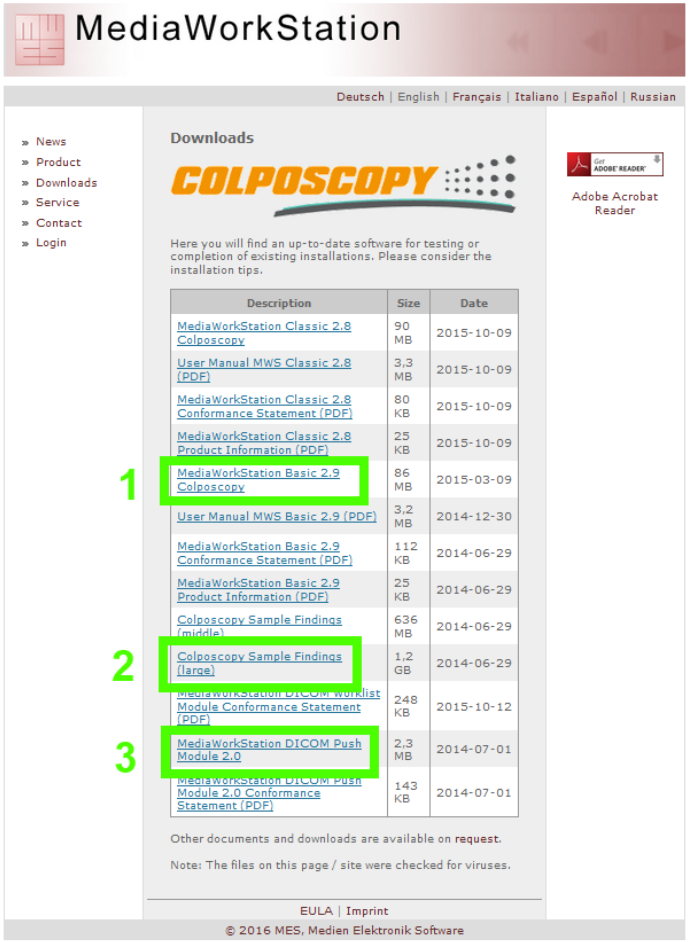
www.leisegang.de



www.mediaworkstation.de/colposcopy.html

How to install the software

1. Setup program (e.g. MWS Basic Edition
2. Setup reference findings
3. Setup DICOM Push (optional for MWS Basic Edition)

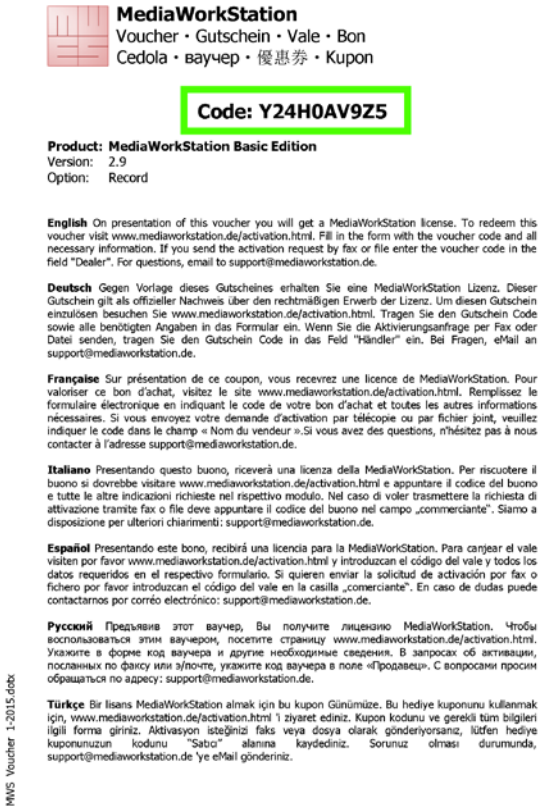


Administrative rights are necessary for setup

DICOM Worklist option is inbuilt in MWS Classic Edition

License activation procedure

1. You receive a voucher code according to your order



MediaWorkStation
Voucher · Gutschein · Vale · Bon
Cedola · ваучер · 優惠券 · Kupon

Code: Y24H0AV9Z5

Product: MediaWorkStation Basic Edition
Version: 2.9
Option: Record

English On presentation of this voucher you will get a MediaWorkStation license. To redeem this voucher visit www.mediaworkstation.de/activation.html. Fill in the form with the voucher code and all necessary information. If you send the activation request by fax or file enter the voucher code in the field "Dealer". For questions, email to support@mediaworkstation.de.

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Française Sur présentation de ce coupon, vous recevrez une licence de MediaWorkStation. Pour valoriser ce bon d'achat, visitez le site www.mediaworkstation.de/activation.html. Remplissez le formulaire électronique en indiquant le code de votre bon d'achat et toutes les autres informations nécessaires. Si vous envoyez votre demande d'activation par télécopie ou par fichier joint, veuillez indiquer le code dans le champ « Nom du vendeur ».Si vous avez des questions, n'hésitez pas à nous contacter à l'adresse support@mediaworkstation.de.

Italiano Presentando questo buono, riceverà una licenza della MediaWorkStation. Per riscuotere il buono si dovrebbe visitare www.mediaworkstation.de/activation.html e appuntare il codice del buono e tutte le altre indicazioni richieste nel rispettivo modulo. Nel caso di voler trasmettere la richiesta di attivazione tramite fax o file deve appuntare il codice del buono nel campo „commerciante". Siamo a disposizione per ulteriori chiarimenti: support@mediaworkstation.de.

Español Presentando este bono, recibirá una licencia para la MediaWorkStation. Para canjear el vale visiten por favor www.mediaworkstation.de/activation.html y introduzcan el código del vale y todos los datos requeridos en el respectivo formulario. Si quieren enviar la solicitud de activación por fax o fichero por favor introduzcan el código del vale en la casilla „comerciante". En caso de dudas puede contactarnos por correo electrónico: support@mediaworkstation.de.

Русский Предъявив этот ваучер, Вы получите лицензию MediaWorkStation. Чтобы воспользоваться этим ваучером, посетите страницу www.mediaworkstation.de/activation.html. Укажите в форме код ваучера и другие необходимые сведения. В запросах об активации, посланных по факсу или э/почте, укажите код ваучера в поле «Продавец». С вопросами просим обращаться по адресу: support@mediaworkstation.de.

Türkçe Bir lisans MediaWorkStation almak için bu kupon Günümüze. Bu hediye kuponunu kullanmak için, www.mediaworkstation.de/activation.html 'i ziyaret ediniz. Kupon kodunu ve gerekli tüm bilgileri ilgili forma giriniz. Aktivasyon isteğinizi faks veya dosya olarak gönderiyorsanız, lütfen hediye kuponunuzun kodunu "Satıcı" alanına kaydediniz. Soruniuz olması durumunda, support@mediaworkstation.de 'ye eMail gönderiniz.

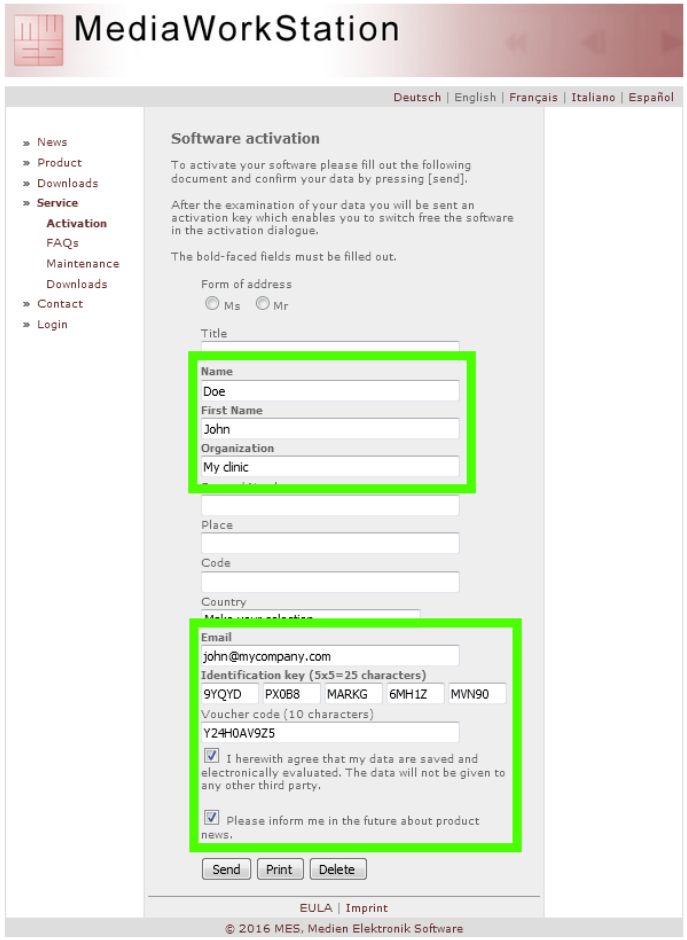
MWS Voucher 1-2015.dotx

License activation procedure

1. You receive a voucher code according to your order
2. At every start of the program the license dialog appears and shows the identification code

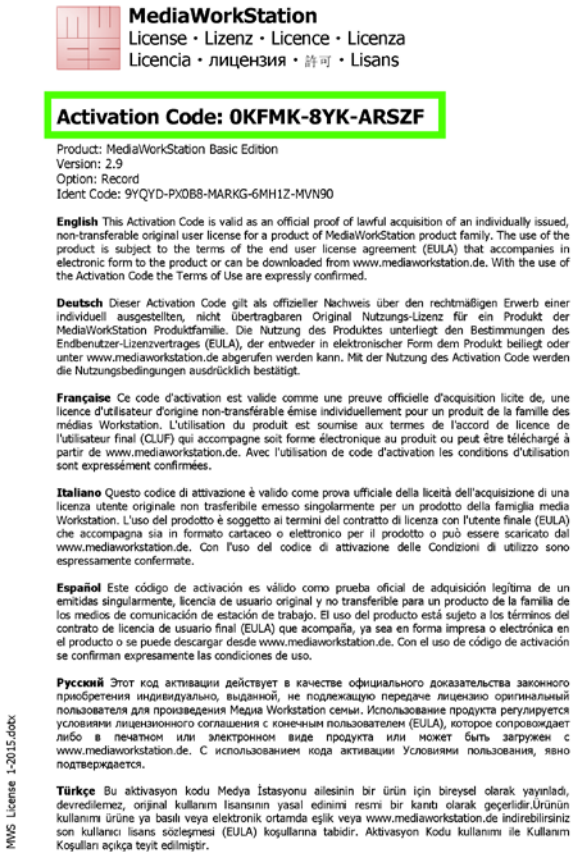
License activation procedure

1. You receive a voucher code according to your order
2. At every start of the program the license dialog appears and shows the identification code
3. Enter customer date, identification code and voucher code in the activation request form



License activation procedure

1. You receive a voucher code according to your order
2. At every start of the program the license dialog appears and shows the identification code
3. Enter customer data, identification code and voucher code in the activation request form
4. You receive a license certificate



MediaWorkStation
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Licencia · лицензия · 許可 · Lisans

Activation Code: 0KFMK-8YK-ARSZF

Product: MediaWorkStation Basic Edition
Version: 2.9
Option: Record
Ident Code: 9YQYD-PX0B8-MARKG-6MH1Z-MVN90

English This Activation Code is valid as an official proof of lawful acquisition of an individually issued, non-transferable original user license for a product of MediaWorkStation product family. The use of the product is subject to the terms of the end user license agreement (EULA) that accompanies in electronic form to the product or can be downloaded from www.mediaworkstation.de. With the use of the Activation Code the Terms of Use are expressly confirmed.

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Türkçe Bu aktivasyon kodu Medya İstasyonu ailesinin bir ürün için bireysel olarak yayınladı, devredilemez, orijinal kullanım lisansının yasal edinimi resmi bir kanıtı olarak geçerlidir.Ürünün kullanımı ürüne ya basılı veya elektronik ortamda eşlik veya www.mediaworkstation.de indirebilirsiniz son kullanıcı lisans sözleşmesi (EULA) koşullarına tabidir. Aktivasyon Kodu kullanımı ile Kullanım Koşulları açıkça teyit edilmiştir.

MWS License 1-2015.dotx

License activation procedure

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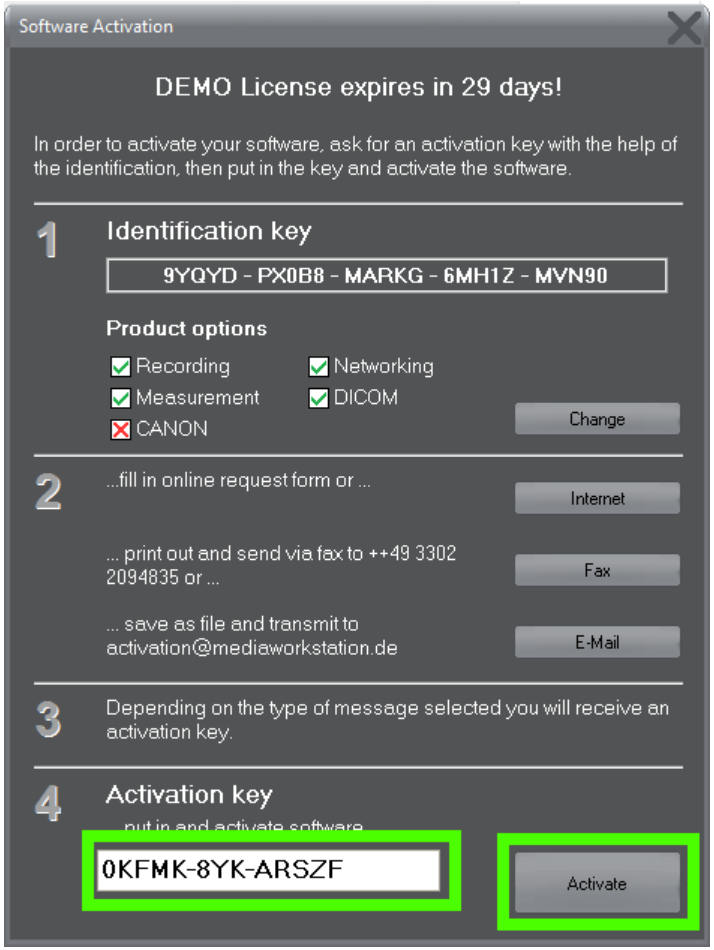
3. Enter customer date, identification code and voucher code in the activation request form
4. You receive a license certificate
5. Enter the activation code into license dialog and activate the program
6. Keep the license certificate as the proof of ownership



System configuration

- Camera selection and control
- Touch and footswitch operation
- Report templates
- User accounts

Many more properties can be modified, please contact the service for particular requirements.

Configure video camera

- MWSConfig for video source

  Wizard for selecting video source and resolution
- Control settings

  Usually automatically set during installation

  Start -> System -> Settings -> Environment ->
  - Camera control enable
  - Camera device type
  - Camera port type
- Color adjustment for Pointgrey cameras has to be made manually

  Start -> System -> Device -> Camera -> Expert -> Color
  - Use color rocker to adjust
  - Save to the selected profile

Configure touch and footswitch

Touch operation

- Screen keyboard setting Start->System->Settings->Environment->Onscreen keyboard enable

Footswitch

- Native HID device, automaically supported
- Functionlity of pedals can be selected Start->System->Settings->Environment->Footswitch x function

Configure report templates

MediaWorkStation Basic Edition

- Supports only one report template at a time
- Templates are based on HTML and can be customized by the user himself or service
- Standard template setting: Start->System->Database->HTML template path
- Template folder C:\MWS\templates\Html\REPORT\

MediaWorkStation Classic Edition

- Supports template selection while creating the report
- Templates are based on XML/HTML and can be customized by the user himself or service
- Standard template setting Start->System->Database->Report template
- Template folder C:\MWS\templates\XML\Default.xml

Configure user accounts

MediaWorkStation Basic Edition

- An administrative user “Supervisor” is defined in order to protect system configuration access
- After installation the password in empty
- The password can be changed in sytem area

  Start -> System -> User -> Password

MediaWorkStation Classic Edition

- Supports different users for different roles with particular rights
- After installation “Supervisor” with empty password is defined
- Users can be defined and edited in the user area

  Start -> System -> User

Service & Support

- Always software specialists are available for any kind of question
- Free support for installation & configuration in the first 3 months
- Support information on www.mediaworkstation.de/service.html
- Service contact via support@mediaworkstation.de
- Software service will be given by e-mail, phone or remote access (TeamViewer)

Service without maintenance agreement

- Paid by use (per minute)
- Reaction time within 3 business days (Germany)
- Hardware service usually not included, it has to be arranged separately

Service with maintenance agreement

- Paid once a year
- Covers all cases in the paid period „flat rate“
- Reaction time as agreed, typically within 1 business day (Germany)
- No hardware service included

Conclusion

What to know about the MediaWorkStation

- Junction between colpsocopic examination and electronic medical report
- Stand alone system or integrated in DICOM infrastructure
- MediaWorkStation software is certified according medical EU regulatories
- Complete system solution from one hand
- Sales support and customer service from the manufacturer

Discussion

- Questions
- Suggestions
- Requirements
- Feedback questionary

Thank you

… let‘s sell it