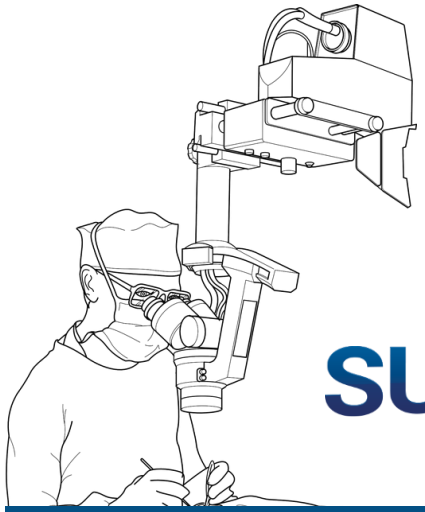


3D Medi Vision

SURGFLIX

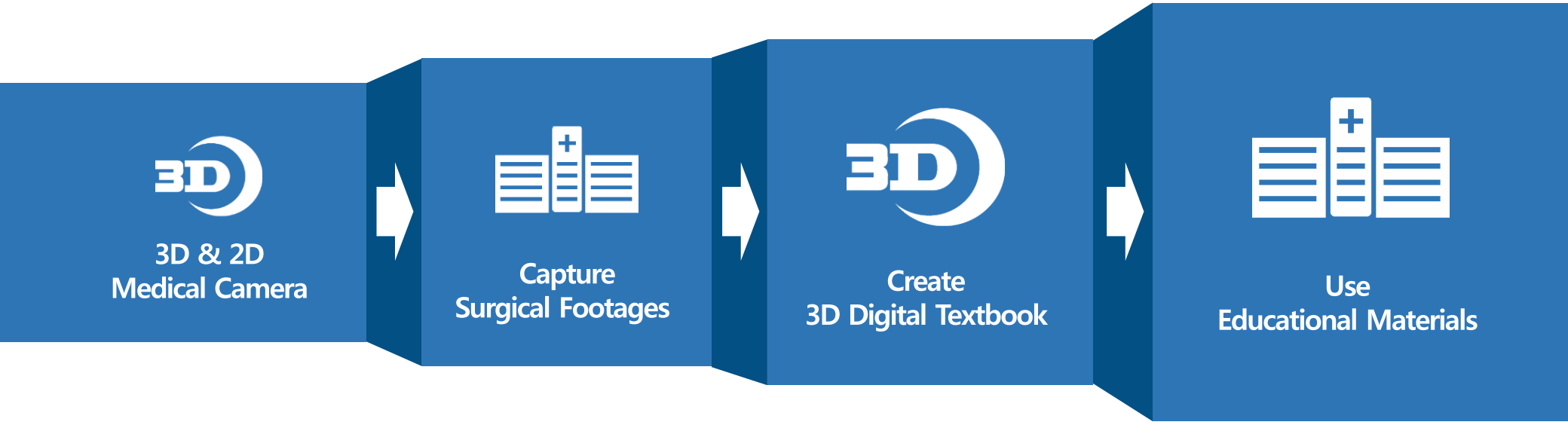
3D Surgery Contents Service

COMPANY STORY

SURGFLIX
3D Surgery Contents Service

About us

3D MediVision Inc. manufactures 3D visualization modules and provides surgeons with cloud platform services to share and learn from the extensive amounts of surgical contents. We aim to better assist the surgeons through clear and vivid images when viewed through our modules. In addition, the ample amounts of quality surgical contents will improve the learning experiences.



Products Line-Up

Image Filming Device

M-FLIX
3D Microscope Surgery System

G-FLIX
3D General Surgery System

Image Recording Device

R-FLIX
3D Surgery Recording System

3D Contents Cloud Service

SURGFLIX
3D Surgery Contents Service

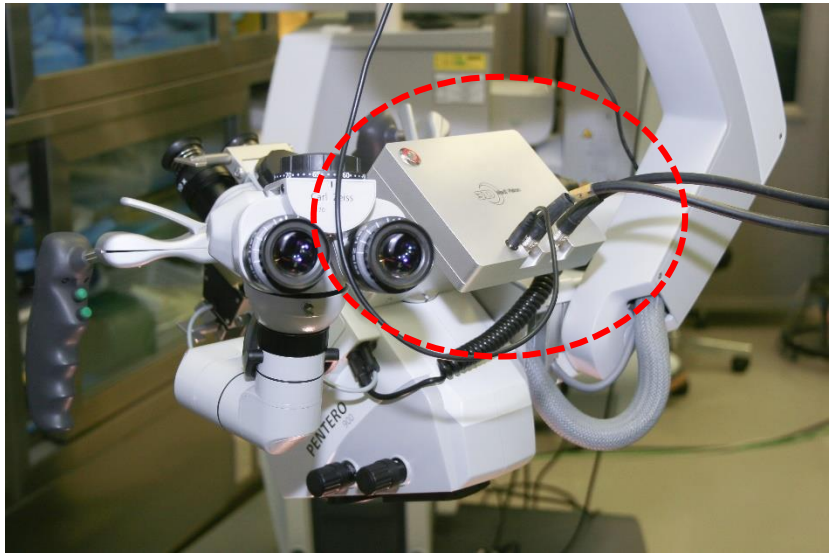
Products_Medical 3D Camera

Image
Taking Device

M-FLIX : Microscope built-up type

Installed on the microscopes to take 3D surgical features through lenses.

M-FLIX
3D Microscope Surgery System



▲ M-flix built-up on Carl Zeiss Microscope

SPECIFICATION

- Interface : HD SDI x 2
- Resolution : 1920 x 1080p
- Aspect Ratio : 16 : 9
- Video format : mov (H.264 Codec)
- Recording frame rate : 1080p 30fps
- Internal Buffer Memory : 512Mbit DDR2(x16), 2ea

Products_Medical 3D Camera

Image
Taking Device

G-FLIX : All-Purpose Type

Use G-FLIX for general surgery.

Able to take every surgical moments including
neurosurgery, ENT, ophthalmology, orthopedics, dentistry, urology, plastic surgery, general surgeries, etc.

After taking images, can be made into 3D contents.

▲ A surgeon wears G-FLIX during operation

G-FLIX
3D General Surgery System

SPECIFICATION

- Interface : HD-SDI x 2
- Resolution : 1920 x 1080p
- Aspect Ratio : 16 : 9
- Video format : mov, avi etc
- Recording frame rate : 1080p 30fps
- Auto White balance, Auto exposure

Products_3D & 2D Recorder

SURGFLIX
3D Surgery Contents Service

Image Recording Device

R-FLIX : 4 Channel 3D/2D Recorder

FULL HD recorder.

4 channel : 3D Broadcasting and Recording simultaneously.
2 channel : 3D Recording is available by synchronizing.

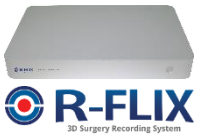
[da Vinci Robot]

3D

[operating microscope]

[Endoscope]

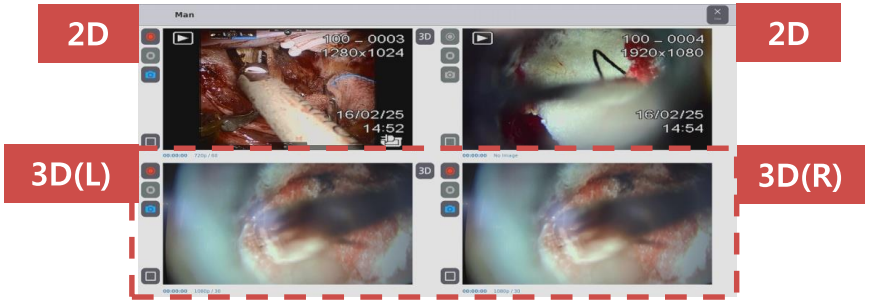
[Navigation]



3D

3D

Recording & Monitoring



3D TV MONITOR – 4 CH.

Plattform Service_SURGFLIX

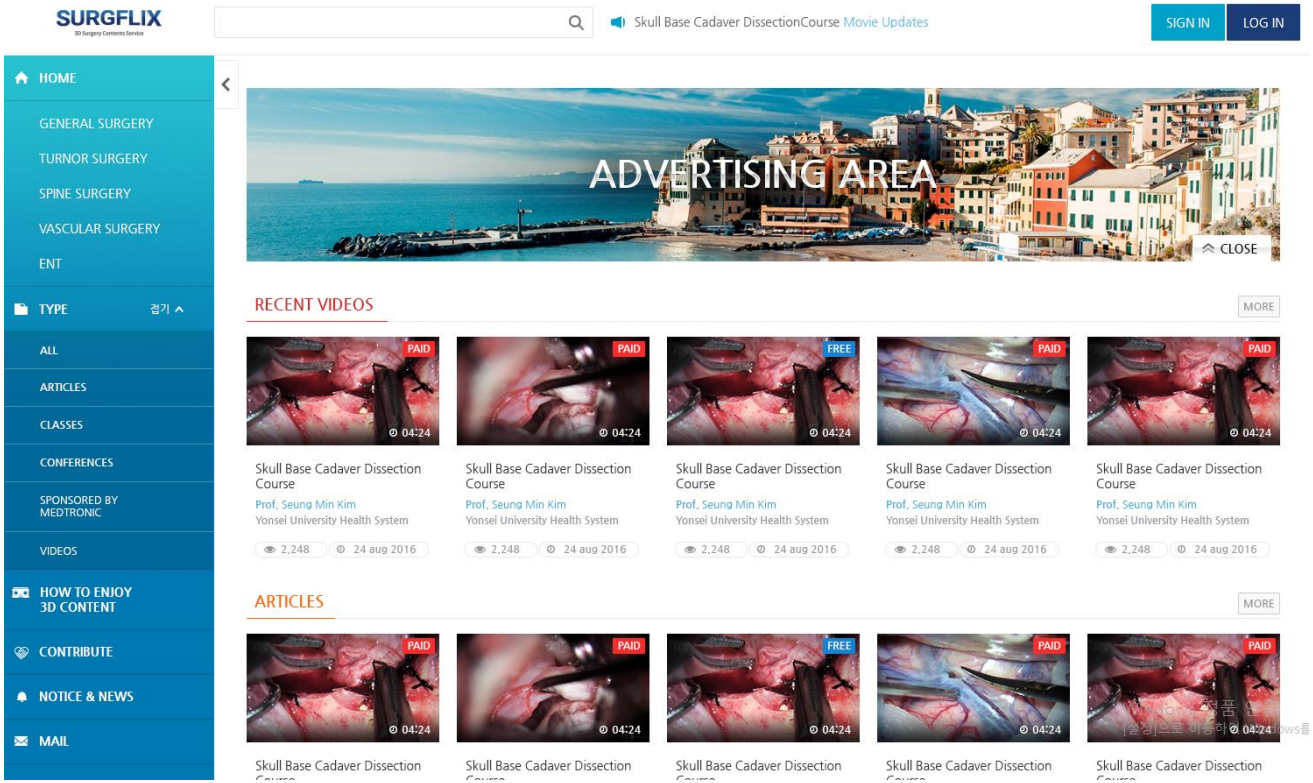
SURGFLIX
3D Surgery Contents Service

3D Contents Cloud Service

SURGFLIX : surgery contents streaming service

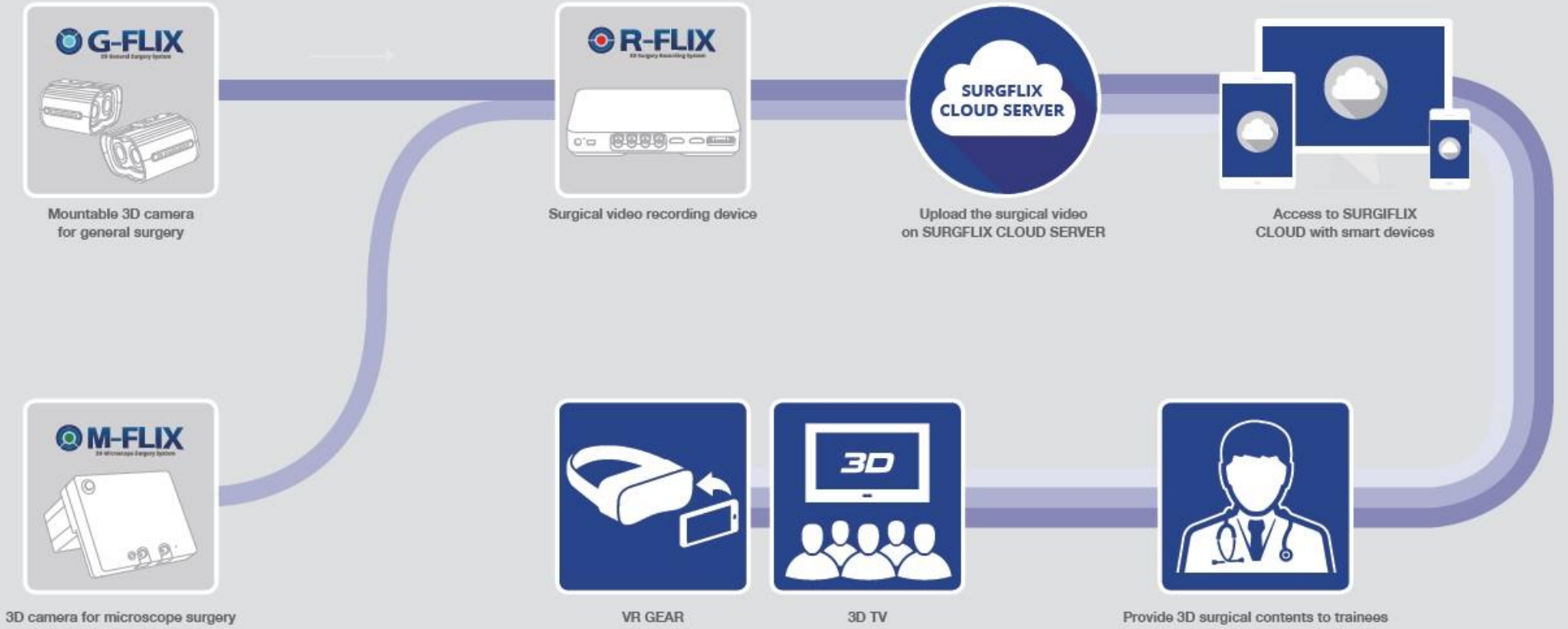
SURGFLIX

Upload recorded operation images after editing on the streaming site,
www.surgflix.com



System Structure

Overall system structure in the operation room.



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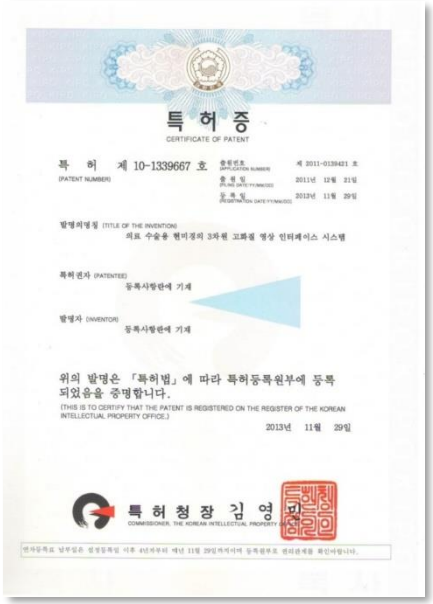
SURGFLIX
3D Surgery Contents Service

Medical Device Certifications and Patent Registrations


특 허 증
CERTIFICATE OF PATENT

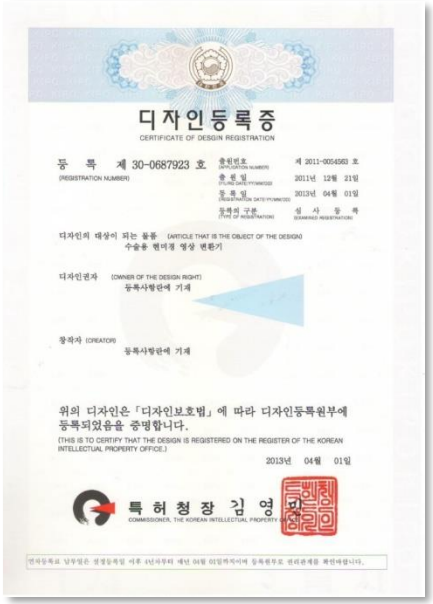
특 허 제 10-1339667 호

위의 발명은 「특허법」에 따라 특허등록원부에 등록되었음을 증명합니다.

2013년 11월 29일

특 허 청 장 김 영

Certificate of Patent


디자인등록증
CERTIFICATE OF DESGIN REGISTRATION

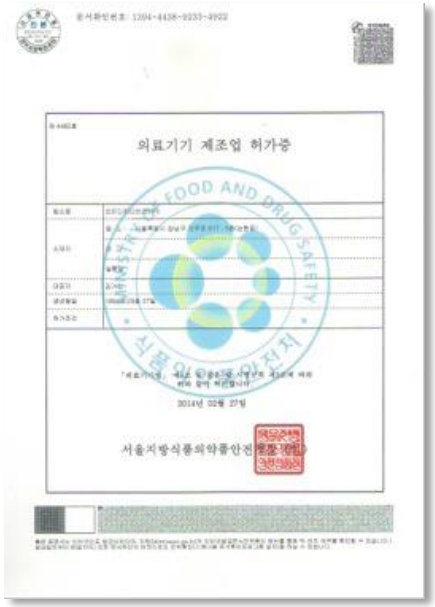
등 록 제 30-0687923 호

위의 디자인은 「디자인보호법」에 따라 디자인등록원부에 등록되었음을 증명합니다.

2013년 04월 01일

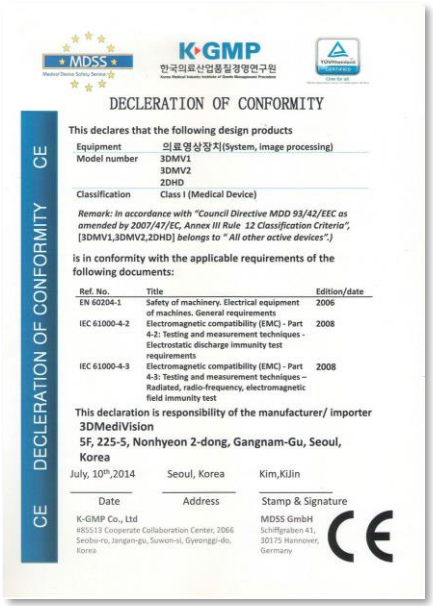
특 허 청 장 김 영

Certificate of Design Registration


의료기기 제조업 허가증

KOREA FOOD AND DRUG SAFETY

KFDA Registration


MDSS

K·GMP
한국의료산업품질경영연구원

DECLERATION OF CONFORMITY

CE DECLERATION OF CONFORMITY CE

This declares that the following design products

Equipment	의료영상장치(System, image processing)
Model number	3DMV1 3DMV2 2DHD
Classification	Class I (Medical Device)

Remark: In accordance with "Council Directive MDD 93/42/EEC as amended by 2007/47/EC, Annex III Rule 12 Classification Criteria", [3DMV1,3DMV2,2DHD] belongs to " All other active devices".)

is in conformity with the applicable requirements of the following documents:

Ref. No.	Title	Edition/date
EN 60204-1	Safety of machinery. Electrical equipment of machines. General requirements	2006
IEC 61000-4-2	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test requirements	2008
IEC 61000-4-3	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques – Radiated, radio-frequency, electromagnetic field immunity test	2008

This declaration is responsibility of the manufacturer/ importer

3DMediVision
5F, 225-5, Nonhyeon 2-dong, Gangnam-Gu, Seoul, Korea

July, 10th,2014 | Seoul, Korea | Kim,KiJin

Date | Address | Stamp & Signature

K-GMP Co., Ltd
#85513 Cooperate Collaboration Center, 2066 Seobu-ro, Jangan-gu, Suwon-si, Gyeonggi-do, Korea

MDSS GmbH
Schiffgraben 41, 30175 Hannover, Germany

CE

CE Certification

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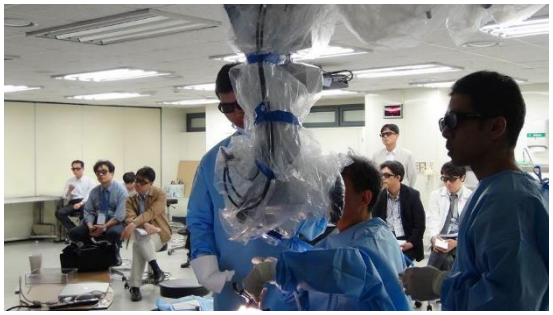
References



▲ Neurosurgery with M-FLIX 3D Microscope Surgery System, Yonsei University Severance Medical Center

▲ Neurosurgery with M-FLIX 3D Microscope Surgery System, Ewha Womans University Mokdong Hospital

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SURGFLIX
3D Surgery Contents Service

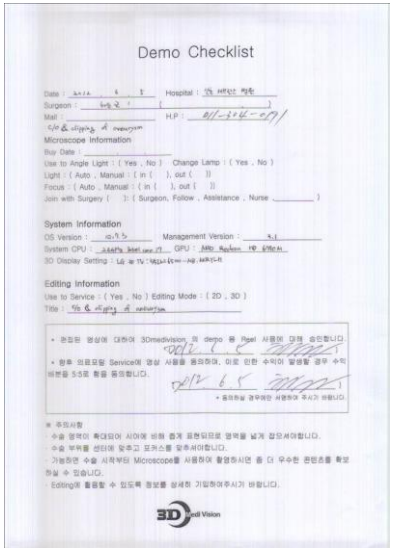
Demonstrations & Surgical Content Usage Agreement

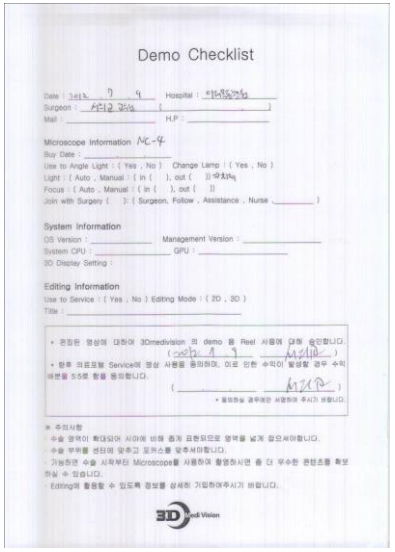
▲ Seoul Univ. Hospital

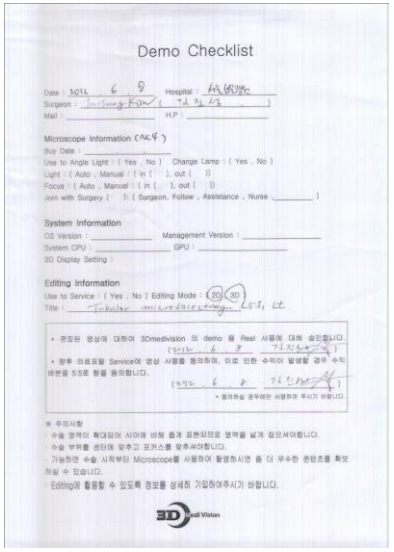
▲ Seoul Sungmo Hospital

▲ Seoul Asan Hospital

▲ Youngnam Univ. Hospital


Demo Checklist


Demo Checklist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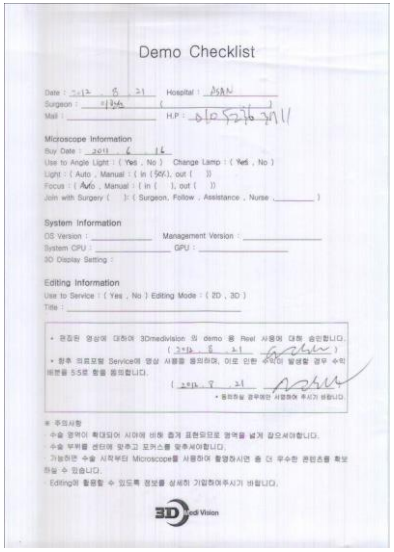
Demo Checklist

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SURGFLIX
3D Surgery Contents Service

▲ Japan (Tokyo University Toranomon Hospital, Tokyo, Japan)

▲ Germany (Goethe University & Brain Lab, Inc. Frankfurt, Germany)

▲ Swiss (Luzerner Kantonsspital, Lucerne, Switzerland)

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SURGFLIX
3D Surgery Contents Service

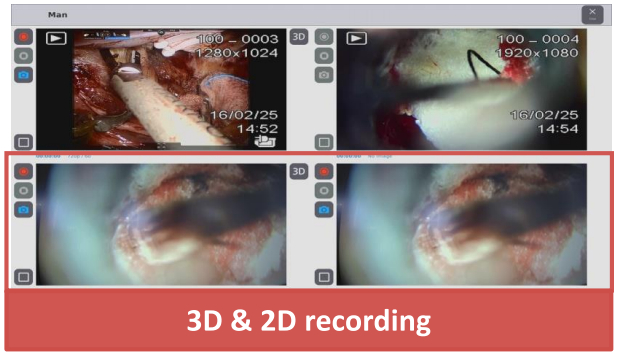
Image Recording Device

R-FLIX : 4 Channel 3D/2D Recorder

Robotic Operation with da Vinci series.

3D

Real-time 3D Monitoring



3D & 2D recording

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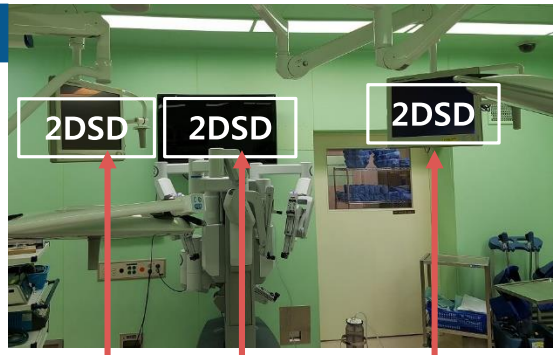
SURGFLIX
3D Surgery Contents Service

da Vinci Si(Xi) provides high-quality 2DHD, but still use low-quality(2DSD).

With R-Flix installed on da Vinci, 3D recording and monitoring are available.

SD : 0.35 megapixel
VS
FHD : 2.0 megapixel

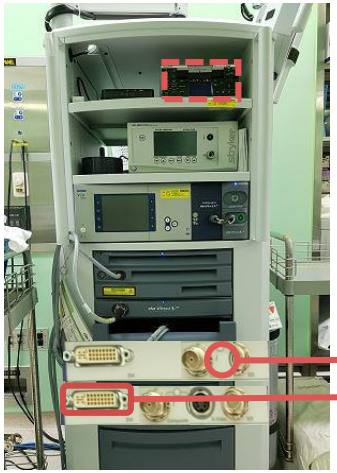
3



1 da Vinci Main Console

3D

2 Main Station



2D

Composite

DVI

DVD Recording

2D Recording

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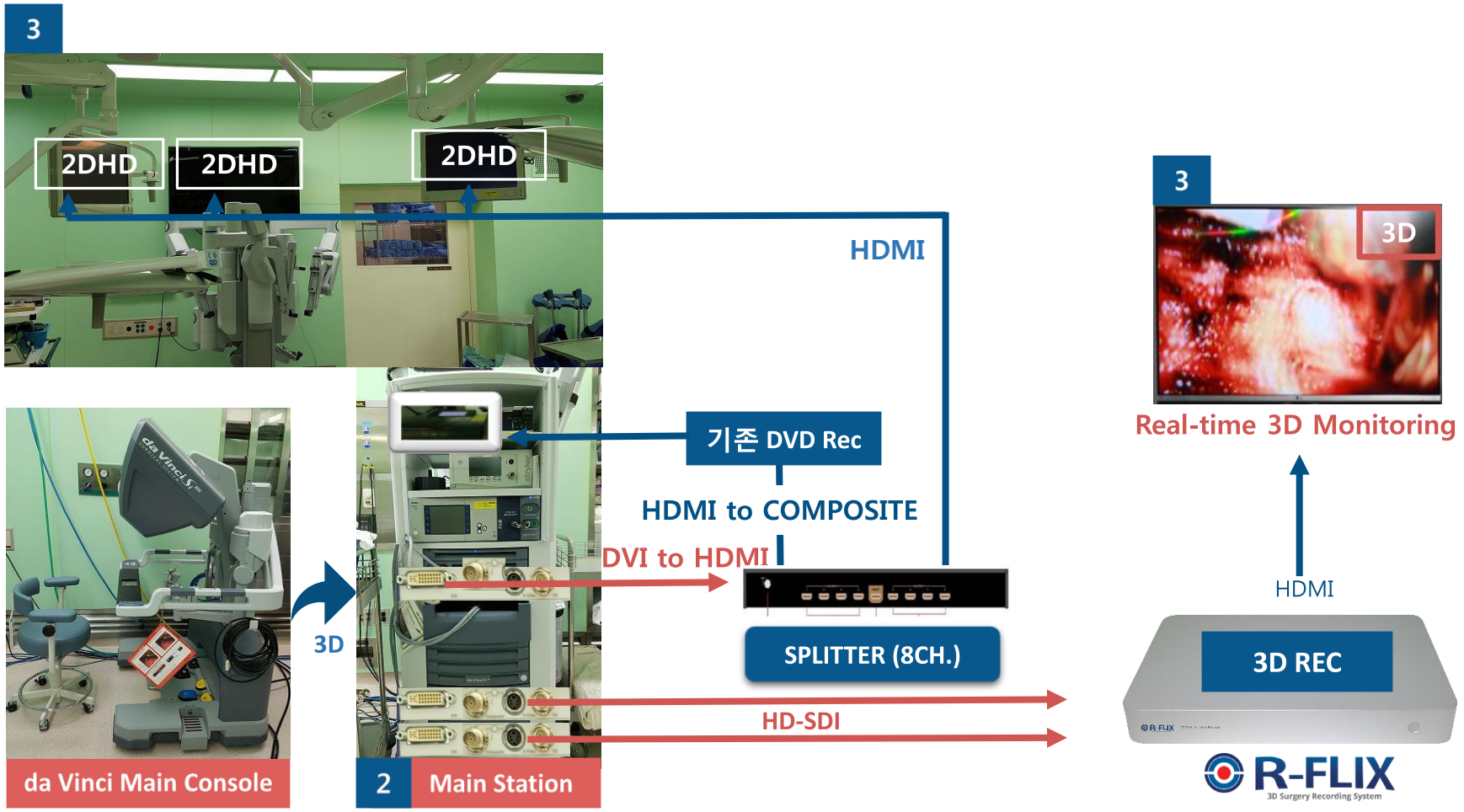
3D Surgery Contents Service

Records 3D surgical features from da Vinci into R-FLIX.

3D recording and real-time 3D monitoring available simultaneously.



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SURGFLIX
3D Surgery Contents Service

Practical use for surgeons, fellows, and medical students.

Providing 3D medical contents.

For group watch, i.e. Live-Surgery, medical conferences, teaching hospitals.

▲ Watching real-time surgery screen in 3D

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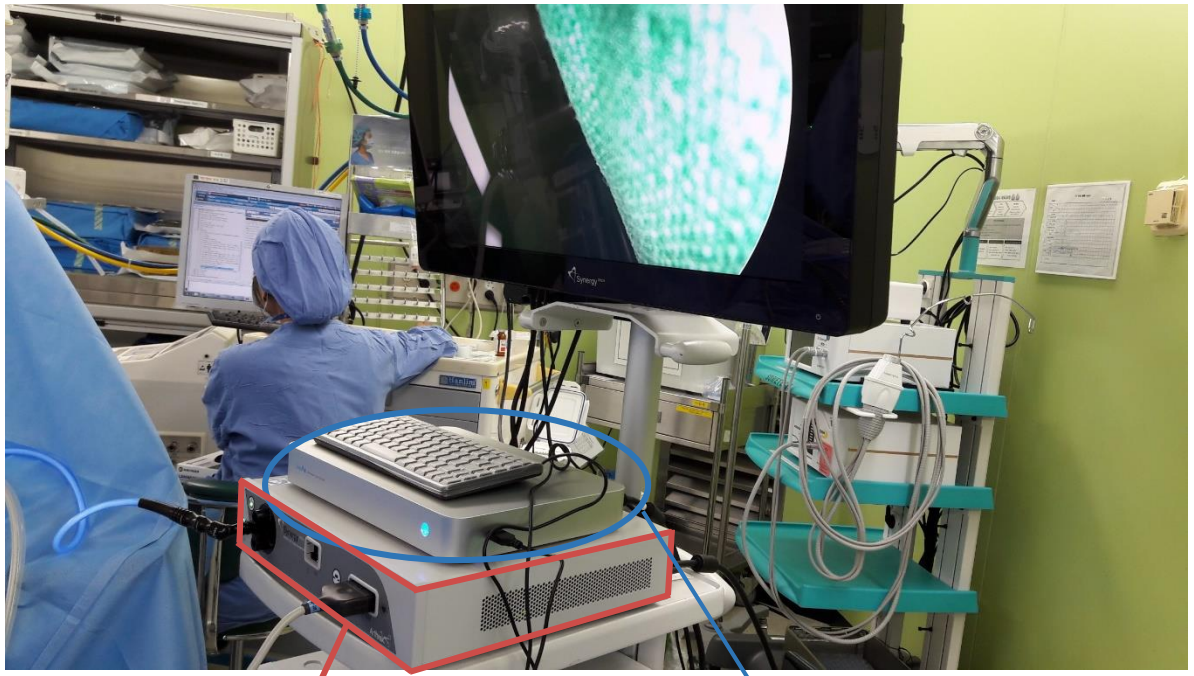
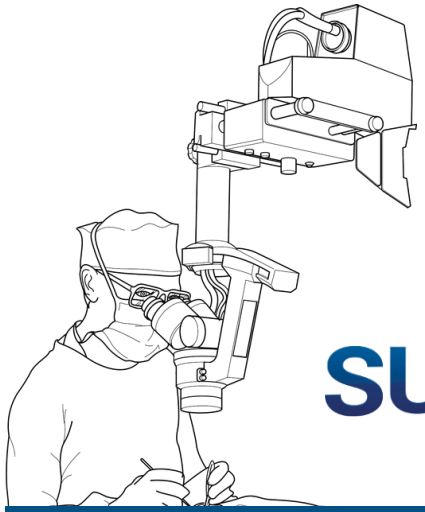
SURGFLIX
3D Surgery Contents Service



Arthrex 4K Laparoscope

R-FLIX
3D Surgery Recording System

R-Flix with Laparoscope



3D Medi Vision

SURGFLIX

3D Surgery Contents Service

Thank you