

3DHISTECH PRODUCT & SERVICE CATALOGUE and ORDERING GUIDE

Table of Contents

| | |
|--|----|
| 1. New Products and Features | 2 |
| 2. Panoramic Digital Slide Scanner Systems | 3 |
| 3. Panoramic Digital Slide Scanner upgrades, options and accessories | 9 |
| 4. Digital Pathology products and accessories | 15 |
| 5. TMA Systems and accessories | 16 |
| 6. Track & Sign Lab Workflow Administration System | 18 |
| 7. iSaCS System..... | 19 |
| 8. Digital Pathology Lab Servers and Computers | 20 |
| 9. Digital Pathology Displays..... | 22 |
| 10. Digital Pathology Software Products | 25 |
| 11. Software upgrades | 30 |
| 12. Services | 37 |

GENERAL PRICING TERMS:

This document to be used as a 'guide' only. Please request confirmed quote from 3DHISTECH.

Information contained herein is only as current as the last update.


3DHISTECH reserves the right to add, change, improve or discontinue any product or program from this guide

1. New Products and features

| Product and feature definition | Reference |
|--------------------------------|--------------------|
| Pannoramic FLASH 1000 | Chapter 2, page 4 |
| Track & Sign Workflow | Chapter 6, page 18 |
| iSaCS | Chapter 7, page 19 |

2. Panoramic® Digital Slide Scanner Systems


Panoramic® FLASH III ultrahigh throughput volume scanner with Fluorescence option

| Scanner type | Article number | BF / FL | Model | BF magnify / BF resolution | Camera | FL magnify / FL Resolution | Objective |
|--|---------------------|------------------------------|------------|-------------------------------|--------------------------|-------------------------------|-----------|
| Panoramic® FLASH III  | PFL3BADC000A0010001 | BF | FLASH III | 40x / 0,24 µm | 12 MP CMOS | N / A | single |
| | PFL3BADC000A0030001 | | HQ UHS* | 80x / 0,12 µm | | | dual |
| | PFL3FADCGHMB01SOL1 | Brightfield & Fluorescent | FLASH III | 40x / 0,24 µm | 12 MP color CMOS & | 55x / 0,17 µm | single |
| | PFL3FADCGHMB03SOL1 | | FL HR* | 80x / 0,12 µm | | 110x / 0,09 µm | dual |
| | PFL3FADCGHMCA01SOL1 | | FLASH III | 40x / 0,24 µm | 5 MP mono CMOS | 35x / 0,27 µm | single |
| | PFL3FADCGHMCA03SOL1 | | FL HS* | 80x / 0,12 µm | | 70x / 0,17 µm | dual |
| | PFL3FADCPC4BA01LUM1 | | FLASH III | 40x / 0,24 µm | 12 MP color CMOS & | 30x / 0,33 µm | single |
| | PFL3FADCPC4BA03LUM1 | | FL Sci* | 80x / 0,12 µm | | 60x / 0,16 µm | dual |
| | PFL3FADCPC4JA01LUM1 | | FLASH III | 40x / 0,24 µm | 4.2 MP mono Sci CMOS | 45x / 0,20 µm | single |
| | PFL3FADCPC4JA03LUM1 | | FL Sci-HR | 80x / 0,12 µm | | 90x / 0,10 µm | dual |

*HQ-UHS: High Quality Ultra High Speed, HR: High Resolution, HS: High Speed, Sci: Scientific, Sci-HR: Scientific-High Resolution

| Panoramic® Flash III, specification | |
|---|---|
| <p>BF configuration includes:</p> <ul style="list-style-type: none"> Scanner main unit with power supply 100-240V AC Control unit (CU-11 configuration) with a HASP dongle Scanner control software installed on a Control Unit 10 pcs slide magazines for 25 slides each Motorized objective changer Single objective: Plan-Apochromat NA 0.8 Dual objective: Plan-Apochromat NA 0.8 and Plan-Apochromat NA 0.95 Brightfield camera with accessories: 12 Megapixel CMOS sensor 187 FPS Brightfield camera adapter: 1.6x Brightfield light source: Xenon FLASH Barcode reading software license Color calibration: sRGB compliant color correction IT8.7 Multilayer / Z-stack Brightfield scanning (optional) Extended Focus (optional) <p>Technical Specification:</p> <ul style="list-style-type: none"> Slide loader capacity: 250 or continuous loading Brightfield magnification: up to 80x, see above Brightfield resolution: up to 0,12 µm, see above Barcode reading 1D and 2D Brightfield scanning speed: 54 slides / hour at 40x Brightfield scanning speed: 36 slides / hour at 80x Digital slide format: .MRXS with JPG/JPEGXR/JPG2000 Slide export: DICOM, TIFF, MetaXML, .SVS, .NDP Certificates: CE, IVD, Canadian Medical Device License Class II Dimensions: (W x D x H) (cm): 68 x 72 x 55 Weight (kg): 50 Power consumption (together with control unit): 350 W | <p>FL configuration includes:</p> <ul style="list-style-type: none"> FLASH III BF configuration Fluorescence filter turret for 9 filter cubes Fluorescent scanning control software license Motorized automatic camera changer Fluorescence camera adapter 3 types of fluorescent compensation Multilayer / Z-stack Fluorescence scanning (optional) Configurable Fluorescence Extended Focus (optional) <p>FL-HR (High Resolution) & FL-HS (High Speed) configuration includes:</p> <ul style="list-style-type: none"> Fluorescence camera with accessories: 5.0 Megapixel CMOS sensor 75 FPS FL illumination: Lumencor SOLA solid state light engine <p>FL Sci (Scientific) & FL Sci-HR (Scientific High Resolution) configuration includes:</p> <ul style="list-style-type: none"> Fluorescence camera with accessories: 4.2 Megapixel scientific CMOS sensor 100 FPS FL illumination: Lumencor SPECTRA solid state light engine <p>Technical Specification:</p> <ul style="list-style-type: none"> Fluorescent scanning: 9-channels Fluorescent scanning bit depth: up to 16 bit FISH scanning capability Darkfield preview Fast FL pre-scan - preview Fluorescence magnification: up to 110x, see above Fluorescence resolution: up to 0,09 µm, see above |

Pannoramic® FLASH 1000 ultrahigh throughput volume scanner

| Scanner type | Article number | BF / FL | Magnification / Resolution | Camera | Loading capacity | Objective |
|--|----------------------------|---------|---|------------|------------------|--------------|
| Pannoramic® FLASH 1000  | PFLMBADC000A0010001 | BF | 40x / 0,24 µm | 12 MP CMOS | 1000 slides | 1 objective |
| | PFLMBADC000A0030001 | BF | 40x / 0,24 µm 80x / 0,12 µm | 12 MP CMOS | 1000 slides | 2 objectives |
| | PFLMBADC000A0120001 | BF | 40x / 0,24 µm 80x / 0,12 µm 80x water immersion / 0,12 µm | 12 MP CMOS | 1000 slides | 3 objectives |
| | PFLMBADC000A0180001 | BF | 40x / 0,24 µm 80x / 0,12 µm 126x oil immersion / 0,07 µm | 12 MP CMOS | 1000 slides | 3 objectives |

Pannoramic® 1000 specification


BF configuration includes:

- Scanner main unit with power supply 100-240V AC
- Control Unit with a HASP dongle
- Scanner control software installed on Control Unit
- 10 pcs slide magazines for 20 slides each
- Motorized objective changer
- Objectives:
 - Zeiss Plan-Apochromat NA 0.8
 - Zeiss Plan-Apochromat NA 0.95
 - Zeiss Plan-Apochromat NA 1.20 water immersion
 - Zeiss Plan-Apochromat NA 1.40 oil immersion
- Brightfield camera with accessories: 12 Megapixel CMOS sensor 187 FPS
- Brightfield camera adapter: 1.6x
- Brightfield light source: Xenon FLASH
- Barcode reading software license
- Color calibration: sRGB compliant color correction IT8.7
- Multilayer / Z-stack Brightfield scanning (optional)
- Extended Focus (optional)

Technical Specification:

- Slide loader capacity: 1000 or continuous loading
- Magnification: up to 126x
- Resolution: up to 0.12 µm
- Barcode reading 1D and 2D
- Scanning speed: 100 slides / hour at 40x
- Scanning speed: 25 slides / hour at 80x
- Digital slide format: .MRXS with JPG/JPEGXR/JPG2000
- Slide export: DICOM, TIFF, MetaXML, .SVS, .NDP
- Dimensions: (W x D x H) (cm): 154x90x98
- Weight (kg): 200
- Power consumption (together with control unit): 1000 W

Pannoramic® SCAN II whole slide volume scanner with Fluorescence option

| Scanner type | Article number | BF / FL | Model | Magnification / Resolution | Camera | Loading Capacity | Objective |
|---|--------------------|----------------------------|------------|----------------------------|----------------------|--------------------------|-----------|
| Pannoramic® SCAN II  | SI2BGHM00010070001 | Bright field | SCAN II | 55x / 0,17 µm | 5 MP CMOS | 150 slides or continuous | single |
| | SI2BGHM00010090001 | | HR* | 110x / 0,09 µm | | | dual |
| | SI2BGHM00020070001 | | SCAN II | 35x / 0,27 µm | | | single |
| | SI2BGHM00020090001 | | HS* | 70x / 0,17 µm | | | dual |
| | SI2FGHM0001007SOL1 | Bright field & Fluorescent | SCAN II | 55x / 0,17 µm | 5 MP mono CMOS | 150 slides or continuous | single |
| | SI2FGHM0001009SOL1 | | FL HR* | 110x / 0,09 µm | | | dual |
| | SI2FGHM0002007SOL1 | | SCAN II | 35x / 0,27 µm | | | single |
| | SI2FGHM0002009SOL1 | | FL HS* | 70x / 0,17 µm | | | dual |
| | SI2FPC40001007LUM1 | | SCAN II | 30x / 0,33 µm | 4.2 MP mono Sci CMOS | | single |
| | SI2FPC40001009LUM1 | | FL Sci* | 60x / 0,16 µm | | | dual |
| | SI2FPC4000A007LUM1 | | SCAN II | 45x / 0,20 µm | | | single |
| | SI2FPC4000A009LUM1 | | FL Sci-HR* | 90x / 0,10 µm | | | dual |

* HR: High Resolution, HS: High Speed, Sci: Scientific, Sci-HR: Scientific-High Resolution

Pannoramic® SCAN II. specification

BF version includes:

- Scanner main unit with power supply 100-240V AC
- Control unit (CU-2 configuration) **with a HASP dongle**
- Scanner control software installed on a Control Unit
- 6 pcs slide magazines for 25 slides each
- Motorized objective changer
- Single objective: Plan-Apochromat NA 0.8
- Dual objective: Plan-Apochromat NA 0.8 and Plan-Apochromat NA 0.95
- Brightfield camera with accessories: 5 Megapixel CMOS sensor, 15 Megapixel color image, 75 FPS
- Brightfield camera adapter
- Brightfield light source: 3-Channels LED
- Barcode reading software license
- Color calibration: sRGB compliant color correction IT8.7
- Multilayer / Z-stack Brightfield scanning (optional)
- Extended Focus (optional)

Technical Specification:

- Slide loader capacity: 150 or continuous loading
- Brightfield magnification: up to 110x, **see above**
- Brightfield resolution: up to 0,09 µm, **see above**
- Barcode reading 1D and 2D
- Brightfield scanning speed: 18-20 slides / hour at 35x
- Digital slide format: .MRXS with JPG/JPEGXR/JPG2000
- Slide export: DICOM, TIFF, MetaXML, .SVS, .NDP
- Certificates: CE, IVD, Canadian Medical Device License Class II
- Dimensions: (W x D x H) (cm): 52 x 57 x 46
- Weight (kg): 29
- Power consumption (together with control unit): 270 W

FL configuration includes:

- SCAN II BF configuration
- Fluorescence filter turret for 9 filter cubes
- Fluorescent scanning control software license
- Fluorescence camera adapter
- 3 types of fluorescent compensation
- Multilayer / Z-stack Fluorescence scanning (optional)
- Configurable Fluorescence Extended Focus (optional)

FL-HR (High Resolution) & FL-HS (High Speed) configuration includes:

- Fluorescence camera with accessories: 5.0 Megapixel CMOS sensor 75 FPS
- FL illumination: Lumencor SOLA solid state light engine


FL-Sci (Scientific) & FL-SciHR (Scientific High Resolution) configuration includes:

- Fluorescence camera with accessories: 4.2 Megapixel scientific CMOS sensor 100 FPS
- Fluorescence illumination: Lumencor SPECTRA solid state light engine


Technical Specification:

- Fluorescent scanning: 9-channels
- Fluorescent scanning bit depth: up to 16 bit
- FISH scanning capability
- Fast Fluorescence pre-scan - preview
- Fluorescence magnification: up to 110x, **see above**
- Fluorescence resolution: up to 0,09 µm, **see above**

Pannoramic® MIDI Confocal - Large area structured illumination confocal scanner

| Scanner type | Article number | BF / FL | Filter Set | Magnification / Resolution | Camera | Loading Capacity | Objective |
|--|--------------------------|---|--|--|-----------------------------|------------------|-----------|
|  <p>Pannoramic® MIDI Confocal</p> | FH-CONF-000-00-2 | Bright field & Fluorescent | To be configure in addition from the list of options | 60x / 0,16 µm with water immersion | 5.5 MP mono Scientific CMOS | 12 slides | Dual |
| Fluorescence filter options | Article number | Description | | | | | |
| SR QUAD DA/Fl/TR/Cy5 Confocal | HP-FLT-SR20-QUAD01 | Excitation/emission center wavelength 387,485,559,649/440,521,607,700nm | | | | | |
| SR SpAqua filter for Confocal | HP-FLT-SR20-SPAQUA01 | Excitation/emission center wavelength 538/583nm | | | | | |
| SR SpGold filter for Confocal | HP-FLT-SR20-SPGOLD01 | Excitation/emission center wavelength 534/572nm | | | | | |
| SR SpRed filter for Confocal | HP-FLT-SR20-SPRED01 | Excitation/emission center wavelength 586/628nm | | | | | |
| SR SpGreen filter for Confocal | HP-FLT-SR20-SPGR01 | Excitation/emission center wavelength 494/527nm | | | | | |
| SR TexasRed filter for Confocal | HP-FLT-SR20-TXRED01 | | | | | | |
| SR DAPI filter for Confocal | HP-FLT-SR20-DAPI01 | Excitation/emission center wavelength 377/447nm | | | | | |
| SR Cy5 filter for Confocal | HP-FLT-SR20-CY5-01 | Excitation/emission center wavelength 628/692nm | | | | | |
| SR Cy5.5 filter for Confocal | HP-FLT-SR20-CY5.5-01 | | | | | | |
| MIDI Confocal options | Article number | Description | | | | | |
| 3DView Software application | SW-LIC-3D-01-1 | 3D visualizing software application for Confocal Z-stack 3D histology software for reconstruction, visualization and analysis of serial sections | | | | | |
| NVIDIA graphic processor card for 3D | AC-PCA-GRP-000200 | Graphic coprocessor card required for 3DView Software <ul style="list-style-type: none"> GeForce GTX 980 (item and/or article code may change) 2816 Stream Processors / CUDA cores, 6 GB GDDR5 memory | | | | | |
| Pannoramic® MIDI Confocal specifications | | | | | | | |
| Includes: <ul style="list-style-type: none"> Scanner main unit with power supply 100-240V AC Control unit (CU-1 configuration) with a HASP dongle Confocal base unit Scanner control software installed on a Control Unit 2 pcs slide trays for 12 slides each Dual objective with motorized objective changer Plan-Apochromat NA 0.8 and C-Apochromat NA 1.2 (water immersion) Automated immersion of NA 1.2 objective Automated cleaning of 40x water immersion objective Brightfield camera with accessories: 5.5 Megapixel Scientific CMOS sensor, 100 FPS Brightfield camera adapter Brightfield light source: 3CCD equivalent 3-channel LED Barcode reading software license Color calibration: sRGB compliant color correction IT8.7 Software-aimed flat-field correction compensation method to create homogenous slide image Multilayer – 100 layers / Z-stack BF & FL scanning (included) Extended Focus (included) Technical Specification: <ul style="list-style-type: none"> Certificates: CE, IVD Dimensions: (W x D x H) (cm): 95 x 57 x 100 Weight (kg): 90 Power consumption (together with control unit): 350 W | | | | FL capabilities: <ul style="list-style-type: none"> Fluorescence filter turret for 4 filter cubes Fluorescent scanning control software license 3 types of fluorescent compensation Configurable Fluorescence Extended Focus (included) Fluorescence camera with accessories: 5.5 Megapixel scientific CMOS sensor, 100 FPS FL illumination: Lumencor SPECTRA solid state light engine Manual adjustment of FL excitation intensity Technical Specification: <ul style="list-style-type: none"> 12 slides automatic loading and scanning Brightfield magnification: up to 60x, Brightfield resolution: up to 0,16 µm Barcode reading 1D and 2D Digital slide format: .MRXS with JPG/JPEGXR/JPG2000 Slide export: DICOM, TIFF, MetaXML, .SVS, .NDP Fluorescent scanning: 4-channels Fluorescent scanning bit depth: up to 16 bit FISH scanning capability Fast Fluorescent pre-scan - preview Fluorescence magnification: up to 60x, Fluorescence resolution: up to 0,16 µm, Fluorescent filters: See options (not included by the scanner) | | | |
| <p>Any order for this product must include On-site installation by 3DHISTECH. See service section in this price list.</p> | | | | | | | |

Pannoramic® MIDI II - Highly efficient 12 slides scanner with Fluorescence option

| Scanner type | Article number | BF / FL | Model | Magnification / Resolution | Camera | Loading Capacity | Objective | |
|---|--------------------|----------------------------|-------------|----------------------------|----------------|----------------------|-----------|--------|
|  <p>Pannoramic® MIDI II</p> | MI2BGHM00010070001 | Bright field | MIDI II | 55x / 0,17 µm | 5 MP CMOS | 12 slides | single | |
| | MI2BGHM00010090001 | | MIDI II HR* | 110x / 0,09 µm | | | dual | |
| | MI2BGHM00020070001 | | MIDI II HS* | 35x / 0,27 µm | | | single | |
| | MI2BGHM00020090001 | | MIDI II HS* | 70x / 0,17 µm | | | dual | |
| | MI2FGHM0001007SOL1 | Bright field & Fluorescent | Fluorescent | MIDI II | 55x / 0,17 µm | 5 MP mono CMOS | 12 slides | single |
| | MI2FGHM0001009SOL1 | | | MIDI II FL HR* | 110x / 0,09 µm | | | dual |
| | MI2FGHM0002007SOL1 | | | MIDI II FL HS* | 35x / 0,27 µm | | | single |
| | MI2FGHM0002009SOL1 | | | MIDI II FL HS* | 70x / 0,17 µm | dual | | |
| | MI2FPC40001007LUM1 | | | MIDI II FL Sci* | 30x / 0,33 µm | 4.2 MP mono Sci CMOS | | single |
| | MI2FPC40001009LUM1 | | | MIDI II FL Sci* | 60x / 0,16 µm | | | dual |
| | MI2FPC4000A007LUM1 | | | MIDI II FL Sci-HR* | 45x / 0,20 µm | | | single |
| | MI2FPC4000A009LUM1 | | | MIDI II FL Sci-HR* | 90x / 0,10 µm | dual | | |

* HR: High Resolution, HS: High Speed, Sci: Scientific, Sci-HR: Scientific-High Resolution

Pannoramic® MIDI II. Specification

BF version includes:

- Scanner main unit with power supply 100-240V AC
- Control unit (CU-2 configuration) **with a HASP dongle**
- Scanner control software installed on a Control Unit
- 2 pcs slide trays for 12 slides each
- Motorized objective changer
- Single objective: Plan-Apochromat NA 0.8
- Dual objective: Plan-Apochromat NA 0.8 and Plan-Apochromat NA 0.95
- Brightfield camera with accessories: 5 Megapixel CMOS sensor, 15 MP color image, 75 FPS
- Brightfield camera adapter
- Brightfield light source: 3-Channels LED
- Barcode reading software license
- Color calibration: sRGB compliant color correction IT8.7
- Multilayer / Z-stack Brightfield scanning (optional)
- Extended Focus (optional)

Technical Specification:

- Slide loader capacity: 12 slides
- Brightfield magnification: up to 110x, **see above**
- Brightfield resolution: up to 0,09 µm, **see above**
- Barcode reading 1D and 2D
- Brightfield scanning speed: 18-20 slides / hour at 35x
- Digital slide format: .MRXS with JPG/JPEGXR/JPG2000
- Slide export: DICOM, TIFF, MetaXML, .SVS, .NDP
- Certificates: CE, IVD, Canadian Medical Device Licence Class II
- Dimensions: (W x D x H) (cm): 70 x 50 x 50
- Weight (kg): 23
- Power consumption (together with control unit): 80-195 W

FL configuration includes:

- MIDI II BF configuration
- Fluorescence filter turret for 9 filter cubes
- Fluorescent scanning control software license
- Fluorescence camera adapter
- 3 types of fluorescent compensation
- Multilayer / Z-stack Fluorescence scanning(optional)
- Configurable Fluorescence Extended Focus (optional)

FL-HR (High Resolution) & FL-HS (High Speed) configuration includes:

- Fluorescence camera with accessories: 5.0 Megapixel CMOS sensor 75 FPS
- FL illumination: Lumencor SOLA solid state light engine


FL-Sci (Scientific) & FL-SciHR (Scientific High Resolution) configuration includes:

- Fluorescence camera with accessories: 4.2 Megapixel scientific CMOS sensor 100 FPS
- FL illumination: Lumencor SPECTRA solid state light engine

Technical Specification:

- Fluorescent scanning: 9-channels
- Fluorescent scanning bit depth: up to 16 bit
- FISH scanning capability
- Fast Fluorescent pre-scan - preview
- Fluorescence magnification: up to 110x, **see above**
- Fluorescence resolution: up to 0,09 µm, **see above**

Pannoramic® DESK II DW– Fresh Frozen tissue and H/E – IHC slide desktop scanner

| Scanner type | Article number | BF / FL | Model | Magnification / Resolution | Camera | Loading Capacity | Objective |
|--|--------------------|--------------|-------|----------------------------|-----------|--|-------------------------|
| Pannoramic® DESK II DW  | DE2BGHM00010100001 | Bright field | HR-1* | 60x / 0,17 µm | 5 MP CMOS | Single slides Standard or Double wide** | Single Objective |
| | DE2BGHM00010110001 | | HR-3* | 116x / 0,09 µm | | | |
| | DE2BGHM00020100001 | | HS* | 40x / 0,27 µm | | | |
| | DE2BGHM00020110001 | | HR-2* | 70x / 0,14 µm | | | |
| For DW capability please add DW slide scan option (article number 91321) | | | | | | | |

*HR: High Resolution, HS: High Speed

** License required

Pannoramic® DESK II DW Specification

Includes:

- Scanner main unit with power supply 100-240V AC
- Control unit (CU-3 configuration) **with a HASP dongle**
- Scanner control software installed on a Control Unit
- Single objective: Plan-Apochromat NA 0.8 or Plan-Apochromat NA 0.95
- Brightfield camera with accessories: 5 Megapixel CMOS sensor 75 FPS
- Brightfield camera adapter
- Brightfield light source: 3-Channels LED
- Color calibration: sRGB compliant color correction IT8.7
- Barcode reading software license (optional)
- Multilayer / Z-stack Brightfield scanning (optional)
- Extended Focus (optional)

Technical Specification:

- Slide loader capacity: 1 slide
- Brightfield magnification: up to 116x, **see above**
- Brightfield resolution: up to 0,09 µm, **see above**
- Barcode reading (optional): 1D and 2D
- Brightfield scanning speed: 18 slides / hour at 40x (HS)
- Digital slide format: .MRXS with JPG/JPEGXR/JPG2000
- Slide export: DICOM, TIFF, MetaXML, .SVS, .NDP
- Certificates: CE, IVD, Canadian Medical Device Licence Class II
- Dimensions: (W x D x H) (cm): 27 x 50 x 26
- Weight (kg): 11
- Power consumption (together with control unit): 50 W

3. Panoramic Digital Slide Scanner options, upgrades and accessories

| Scanner options | Article number | Description |
|--------------------------|-----------------|--|
| Extended Focus | 91311 | Scanner software license for Extended Focus Including 3 extended focusing alternatives: <ul style="list-style-type: none"> • focus maximum, • focus average, • focus max. + avg. |
| Z-Stack & Extended Focus | 91331 | Scanner software license for Z-Stack Adjustable layer distance: from 0.1µm by 0.1µm steps, up to 30 layers Extended Focus software license is included |
| DW slide scan option | 91326 | Scanner software license for double wide (DW) slide – for Panoramic DESK II only |
| Barcode reading | 91321 | Scanner software license for 1D & 2D barcode reading for scanners with software versions before v1.21 |
| | AC-LIC-MAT-MIL9 | Matrox dongle single unit MIL9 (hardware dongle required for Barcode reading) |

| Fluorescence filter options | Article number | Description |
|---|----------------------|---|
| SpAqua single band filter set ZERO | HP-FLT-SR02-SPAQUA01 | <ul style="list-style-type: none"> • Filter Set Spectrum Aqua • Excitation/emission center wavelength 538/583nm • Guaranteed Minimum Bandwidth 24/32 nm • ZERO pixel shift |
| Cy3 single band filter set ZERO | HP-FLT-SR02-CY301 | <ul style="list-style-type: none"> • Filter Set Cy3 (Cyanines) • Excitation/emission center wavelength 531/593nm • Guaranteed Minimum Bandwidth 40nm • ZERO pixel shift |
| DAPI 2 single band filter set ZERO | HP-FLT-SR02-DAPI02 | <ul style="list-style-type: none"> • Filter Set DAPI 2 • Excitation/emission center wavelength 387/447nm • Guaranteed Minimum Bandwidth 11/60 nm • ZERO pixel shift |
| Cy5 single band filter set ZERO CZ CUBE | HP-FLT-SR02-CY501 | <ul style="list-style-type: none"> • Filter Set Cy5 (Cyanines) • Excitation/emission center wavelength 628/692nm • Guaranteed Minimum Bandwidth 40/40nm • ZERO pixel shift, mounted in CUBE |
| DAPI 1 single band filter set ZERO | HP-FLT-SR02-DAPI01 | <ul style="list-style-type: none"> • Filter Set DAPI 1 • Excitation/emission center wavelength 377/447nm • Guaranteed Minimum Bandwidth 50/60 nm • ZERO pixel shift |
| FITC single band filter set ZERO | HP-FLT-SR02-FITC01 | <ul style="list-style-type: none"> • Filter Set FITC • Excitation/emission center wavelength 485/524nm • Guaranteed Minimum Bandwidth 20/24 nm • ZERO pixel shift |
| LF635 single band filter | HP-FLT-SR02-LF63501 | <ul style="list-style-type: none"> • Laser Filter Set 635 nm • Excitation/emission center wavelength 640/676nm |

| Fluorescence filter options | Article number | Description |
|---|-----------------------------|--|
| mCherry single band filter set ZERO | HP-FLT-SR02-MCHERRY1 | <ul style="list-style-type: none"> Guaranteed Minimum Bandwidth 14/29 nm Filter Set mCherry Excitation/emission center wavelength 578/641nm Guaranteed Minimum Bandwidth 21/75 nm ZERO pixel shift LED based light sources |
| SpGold single band filter set ZERO | HP-FLT-SR02-SPGOLD01 | <ul style="list-style-type: none"> Filter Set Spectrum Green Excitation/emission center wavelength 534/572nm Guaranteed Minimum Bandwidth 20/28 nm ZERO pixel shift |
| SpGreen single band filter set ZERO | HP-FLT-SR02-SPGREE01 | <ul style="list-style-type: none"> Filter Set Spectrum Green Excitation/emission center wavelength 494/527nm Guaranteed Minimum Bandwidth 20nm ZERO pixel shift |
| SpOrange filter ZERO | HP-FLT-SR02-SPORAN01 | <ul style="list-style-type: none"> Filter Set Spectrum Red Excitation/emission center wavelength 543/586nm Guaranteed Minimum Bandwidth 22/20 nm ZERO pixel shift |
| SpRed filter ZERO | HP-FLT-SR02-SPRED01 | <ul style="list-style-type: none"> Filter Set Spectrum Red Excitation/emission center wavelength 586/628nm Guaranteed Minimum Bandwidth 20/32 nm ZERO pixel shift |
| DAPI/FITC/TRITC/Cy5 quad band filter set | HP-FLT-SR07-QUAD01 | <ul style="list-style-type: none"> Quad Band Filter Set optimized for DAPI/FITC/TRITC/Cy5 Excitation/emission center wavelength 387,485,559,649/440, 521, 607, 700nm |
| Any other filters are available upon request | | <ul style="list-style-type: none"> According to requirement specification Any single band or multi band filter |

| Objective / lens and camera adapter options | Article number | Description |
|---|------------------------|---|
| Plan Apochromat NA 0.8 high performance objective | HP-SCA-OPT-0100 | <ul style="list-style-type: none"> The best color correction The highest numerical apertures Outstanding point spread function Extreme chromatic correction Infinity Color Corrected |
| Plan Apochromat NA 0.95 high performance objective | HP-SCA-OPT-0200 | <ul style="list-style-type: none"> High resolution Excellent image sharpness The finest details and color nuances visible High quality images in brightfield, in multichannel fluorescence and DIC (Differential Interference Contrast) |
| 1.6x camera adapter | HP-SCA-ADP60N16 | Camera adapter for Panoramic DESK/MIDI/SCAN/FLASH Adapter type: 60N For camera: CIS VCC-FC60FR19CL 4MP For camera: Adimec 12 MP 12A180 camera |
| 1.0x camera adapter | HP-SCA-ADPCM100 | Camera adapter for Panoramic DESK/MIDI/SCAN/FLASH Adapter type: 60N |
| 0.63x camera adapter | HP-SCA- | Camera adapter for Panoramic DESK/MIDI/SCAN/FLASH |

| Objective / lens and camera adapter options | Article number | Description |
|---|----------------|-------------------|
| | ADP60N063 | Adapter type: 60N |

| Camera Options without light sources | Article number | Description |
|--|------------------|---|
| 5MP brightfield camera option | AC-SCO-GHC-0000 | <ul style="list-style-type: none"> • 5MP high resolution color camera • USB card & cables • Camera driver and license for scanner software |
| 12MP brightfield camera option | AC-SCO-ADC-00000 | <ul style="list-style-type: none"> • Ultra High Resolution 12 MP color camera for Panoramic FLASH III • Radiant COAX express card & cables, • IR filter and T2 adapter • Camera driver and license for scanner software |
| 5MP fluorescence camera & fluorescence scanning option | AC-SCO-GHM-00000 | <ul style="list-style-type: none"> • 5MP high resolution fluorescence camera for Panoramic MIDI, SCAN and FLASH III • USB card & cables • Camera driver and license for scanner software |
| Scientific fluorescence camera & fluorescence scanning option | AC-SCO-PCO-10000 | <ul style="list-style-type: none"> • Scientific PCO.edge 4.2 MP sCMOS monochrome camera (max. speed: 30 fps) • Camera link card & cables • Camera driver and license for scan program • Benefits: higher quantum efficiency, larger field of view (4.2MP), shorter exposure time, no FL bleaching and faster scanning speed. |

| Scanner Accessories | Article number | Description |
|---|-------------------|--|
| Manual camera changer for dual cameras | HP-SCA-ADP01 | <ul style="list-style-type: none"> • For Panoramic SCAN I and MIDI I • Not available for Panoramic SCAN II and MIDI II • Including the necessary hardware upgrade for using dual camera |
| Motorized objective changer for Panoramic MIDI and SCAN | HP-MID-SCU-FU0100 | <p>Includes:</p> <ul style="list-style-type: none"> • Motorized objective changer for dual objectives • Only for Panoramic SCAN and MIDI • Legacy Panoramic SCAN and MIDI versions did not include an objective changer |
| Lumencor Spectra 6 solid state light engine for Panoramic FLASH II, III | HP-SCA-LUM-110 | <p>Includes:</p> <ul style="list-style-type: none"> • Lumencor Spectra 6 solid state light engine and accessories, adapter, lifetime: 15,000h |
| Lumencor Spectra 6 solid state light engine for Panoramic SCAN II, MIDI II | HP-SCA-LUM-120 | <p>Includes:</p> <ul style="list-style-type: none"> • Lumencor Spectra 6 solid state light engine and accessories, adapter, lifetime: 15,000h |
| Lumencor Spectra 6 solid state light engine for Panoramic MIDI Confocal | HP-SCA-LUM-310 | <p>Includes:</p> <ul style="list-style-type: none"> • Lumencor Spectra 6 solid state light engine and accessories, lifetime: 15,000h |
| Lumencor Spectra 6 solid state light engine for Panoramic SCAN, MIDI | HP-SCA-LUM-200 | <p>Includes:</p> <ul style="list-style-type: none"> • Lumencor Spectra 6 solid state light engine and accessories, lifetime: 15,000h • Liquid light guide |

| Scanner Accessories | Article number | Description |
|---|------------------------|---|
| Lumencor SOLA solid state light engine | HP-SCA-SOL-0100 | Includes: <ul style="list-style-type: none"> • Lumencor SOLA 365 solid state light engine and accessories (SOLA SM II 365 LE package) • lifetime: 20,000h • Liquid light guide • Zeiss Collimator • 24V Power Supply |



| Pannoramic Scanner BF to FL scanning upgrades | Article number | Description |
|--|-------------------------|--|
| Pannoramic FLASH BF main unit upgrade to FL scanning | UP-P250-FL-0100 | Includes: <ul style="list-style-type: none"> • License for fluorescent scanning • Filter turret wheel with 9 slots for FL filter cubes • Camera changer • Dark field preview Requires: any FL scanning AC-SCO-FL optical package (not included) |
| Pannoramic SCAN BF main unit upgrade to FL scanning | UP-SII-FL-0100 | Includes: <ul style="list-style-type: none"> • License for fluorescent scanning • Filter turret wheel with 9 slots for FL filter cubes Requires: any FL scanning optical AC-SCO-FL package (not included) |
| Pannoramic SCAN II BF main unit upgrade to FL scanning | UP-SII-FL-0101 | Includes: <ul style="list-style-type: none"> • License for fluorescent scanning • Filter turret wheel with 9 slots for FL filter cubes Requires: any FL scanning optical AC-SCO-FL package (not included) |
| Pannoramic MIDI BF main unit upgrade to FL scanning | UP-MID-FL-0100 | Includes: <ul style="list-style-type: none"> • License for fluorescent scanning • Filter turret wheel with 9 slots for FL filter cubes Requires: any FL scanning optical AC-SCO-FL package (not included) |
| Pannoramic MIDI II BF main unit upgrade to FL scanning | UP-MID-FL-0101 | Includes: <ul style="list-style-type: none"> • License for fluorescent scanning • Filter turret wheel with 9 slots for FL filter cubes Requires: any FL scanning optical AC-SCO-FL package (not included) |
| Scientific FL scanning optical package for: Pannoramic FLASH Pannoramic FLASH II Pannoramic FLASH III | AC-SCO-FLU-02010 | Includes: <ul style="list-style-type: none"> • PCO.edge 4.2 MP sCMOS monochrome • Lumencor Spectra 6 solid state light engine and accessories • Camera driver and license for scan program |

| Pannoramic Scanner BF to FL scanning upgrades | Article number | Description |
|---|------------------|---|
| Scientific FL scanning optical package for: Pannoramic MIDI II Pannoramic SCAN II | AC-SCO-FLU-01011 | Includes: <ul style="list-style-type: none"> • PCO.edge 4.2 MP sCMOS monochrome • Lumencor Spectra 6 solid state light engine and accessories • Camera optical adapter • Camera driver and license for scan program |
| FL scanning optical package for: Pannoramic SCAN II | AC-SCO-FLU-01013 | Includes: <ul style="list-style-type: none"> • 5 MP CMOS monochrome camera • Lumencor SOLA solid state light engine and accessories • Liquid light guide and its accessories Camera driver and license for scan program |
| FL scanning optical package for: Pannoramic MIDI II | AC-SCO-FLU-01012 | Includes: <ul style="list-style-type: none"> • Lumencor SOLA solid state light engine and accessories • Liquid light guide and its accessories Camera driver and license for scan program |
| Scientific FL scanning optical package for: Pannoramic MIDI Pannoramic SCAN | AC-SCO-FLU-01010 | Includes: <ul style="list-style-type: none"> • PCO.edge 4.2 MP sCMOS monochrome • Lumencor Spectra 6 solid state light engine and accessories • Liquid light guide and its accessories • Camera optical adapter • Camera driver and license for scan program |
| Upgrade at factory is subject to Factory Upgrade Service Fee: please see in services section | | |
| Cost of transport to / from factory (carriage, return or shipping) not included | | |

| Pannoramic Scanner mechanical upgrades | Article number | Description |
|---|--------------------|--|
| Pannoramic FLASH I, FLASH II upgrade to Pannoramic FLASH III | UP-P250-F3-0100 | Includes: <ul style="list-style-type: none"> • Exchange of CIS VCC-F52U25CL or CIS VCC-FC60FR19CL to 12 Megapixel CMOS sensor 187 FPS camera • New Control Unit • Scanner license (dongle) upgrade Scanner software release 1.20 is required Benefits: minimum double scanning speed, reduced scanning time by at least 50% |
| Pannoramic FLASH magazine loader upgrade to bearing without service | UP-P250-MLO-F20100 | • Magazine loading hardware upgrade to bearing type. |
| Pannoramic FLASH magazine loader upgrade to bearing at factory | 91222 | • Magazine loader unit with robot arm • Slide holder frame • Benefits: faster and more stable loading. |
| Pannoramic SCAN magazine loader upgrade to bearing without service | UP-SCA-MLO-F20100 | • Magazine loading hardware upgrade to bearing type. |
| Pannoramic SCAN magazine loader upgrade to bearing at factory | 91221 | • Magazine loader unit with robot arm • Slide holder frame • Benefits: faster and more stable loading. |





| Pannoramic Scanner mechanical upgrades | Article number | Description |
|---|---------------------------|--|
| Pannoramic FLASH mechanical upgrade without service | UP-P250-MCH-F20100 | <ul style="list-style-type: none"> • Full XY stage replacement with parallelogram • Focus pin with ball • Benefits: more precise axis running and smaller vibration. Parallelogram becomes more resistant to external effects. Advanced setting options (more easy to set the plain). |
| Pannoramic FLASH mechanical upgrade at factory | 91551 | |
| Pannoramic SCAN mechanical upgrade without service | UP-SCA-MCH-F20100 | <ul style="list-style-type: none"> • Full XY stage replacement with parallelogram • Focus pin with ball • Benefits: more precise axis running and smaller vibration. Parallelogram becomes more resistant to external effects. Advanced setting options (more easy to set the plain). • In case of DFK preview camera it is necessary to upgrade to VrMagic |
| Pannoramic SCAN mechanical upgrade at factory | 91552 | |
| Pannoramic MIDI Confocal mechanical upgrade w/o service | UP-CONF-MCH-F20100 | <ul style="list-style-type: none"> • Mechanical upgrade of MIDI Confocal System • Quoted case by case based on actual requirement • Detailed description is specified by quote. |
| Pannoramic MIDI Confocal mechanical upgrade at factory | 91553 | |
| Pannoramic MIDI mechanical upgrade without service | UP-MID-MCH-F20100 | <ul style="list-style-type: none"> • Full XY stage replacement with parallelogram • Focus pin with ball • Benefits: more precise axis running and smaller vibration. Parallelogram becomes more resistant to external effects. Advanced setting options (more easy to set the plain). • In case of DFK preview camera it is necessary to upgrade to VrMagic |
| Pannoramic MIDI mechanical upgrade at factory | 91556 | |
| Pannoramic DESK mechanical upgrade w/o service | UP-DES-MCH-F20100 | <ul style="list-style-type: none"> • Full XY stage replacement with parallelogram • Focus pin with ball • Benefits: more precise axis running and smaller vibration. Parallelogram becomes more resistant to external effects. Advanced setting options (more easy to set the plain). • In case of dfk preview camera it is need to be upgraded to Vrmagic |
| Pannoramic DESK mechanical upgrade at factory | 91557 | |
| Upgrade at factory is subject to Factory Upgrade Service Fee: please see in services section | | |
| Cost of transport to / from factory (carriage, return or shipping) not included | | |

4. Digital Pathology products and accessories

| Product | Article number | Description |
|--|------------------------|--|
| Slide Driver  | AC-ERG-MER-0001 | Instrument for virtual slide navigation <ul style="list-style-type: none"> • Microscope-like digital slides navigation device • Works with Case Viewer and Quant Center • USB connectivity, cable included • Functions: X-Y move, magnify , Z-layers wheel + ratchet wheel, next/prev. slides, annotation function keys |
| Macro Station  | FH-MS-000-1 | Instrument for fresh frozen imaging. Includes: <ul style="list-style-type: none"> • Desktop visualizer with color camera • CMOS 1/3" 2MP sRGB color camera • 16x optical zoom lens • 400mm x 300mm pick-up area • Automatic / manual focus, brightness control & white balance • Control Unit with imaging software |

| Product | Article number | Description |
|---|---|--|
| TMA Stainer | FH-TMA-STN-01 | <ul style="list-style-type: none"> • Capable of IHC and FISH staining 5 slides at a time • Built-in incubation chamber |
| Slide warming unit / stretching table | FH-WARMINGUNIT-01 | <ul style="list-style-type: none"> • Ergonomic anti-stick surface • Integrated overheat protection |
| Illuminated water bath | FH-WATERBATH-01 | <ul style="list-style-type: none"> • Safe low voltage illumination • Modern design in aluminum |
| Semi-automatic precision microtome | FH-MICROTOME-01 | <ul style="list-style-type: none"> • Motorized programmable trimming up to 300 microns, motorized advance (2 speeds) / return of specimen • 2 Specimen feed memory positions • Specimen size up to 50 x 50 mm |
| Roadbox For Panoramic digital slide scanners, TMA machines, Control Units and accessories | Article number varies per equipment, please see the Parts List | <ul style="list-style-type: none"> • Recommended for protection and easy packing and unpacking of demo equipment • Made out of plastic and metal with metal locks |

5. TMA Systems and accessories

| Product | Article number | Description |
|---|-------------------------|---|
| TMA Master II  | FH-TMA-000-02-1 | Includes: <ul style="list-style-type: none"> • TMA Master main unit with power supply • TMA Control software installed on Control Unit (CU-3 configuration) with a HASP dongle • 4 drilling & punching diameters: 0.6, 1, 1.5, 2.0 mm |
| TMA Master II with PCR  | FH-TMA-PCR-02-1 | Includes: <ul style="list-style-type: none"> • TMA Master main unit with power supply • TMA Control software installed on Control Unit (CU-3 configuration) with a HASP dongle • 4 drilling & punching diameters: 0.6, 1, 1.5, 2.0 mm • PCR extraction function |
| TMA Grand Master  | FH-GTMA-000-00-1 | Includes: <ul style="list-style-type: none"> • TMA Grand Master main unit with power supply • TMA Control software installed on Control Unit (CU-3 configuration) with a HASP dongle • 4 drilling & punching diameters: 0.6, 1, 1.5, 2.0 mm |
| TMA Grand Master with PCR  | FH-GTMA-PCR-00-1 | Includes: <ul style="list-style-type: none"> • TMA Grand Master main unit with power supply • TMA Control software installed on Control Unit (CUJ-3 configuration) with a HASP dongle • 4 drilling & punching diameters: 0.6, 1, 1.5, 2.0 mm • PCR extraction function |

TMA: Tissue Micro Array

| TMA Master II | TMA Grand Master |
|---|--|
| Technical Specification: <ul style="list-style-type: none"> • Fully automated TMA production • Capacity: 5 TMA blocks <ul style="list-style-type: none"> ○ 1 - 4 donor blocks ○ 1 - 4 recipient blocks • High density TMA block: up to 500 TMA cores / slide • Throughput: 140 – 160 cores / hour • Flexible layout editor • TMA data export / import (xls) • Donor slide overlay <ul style="list-style-type: none"> ○ TMA markers ○ Automated search – Automated overlay ○ Manual overlay • Automated TMA block height measurement • Parallel block feeding, drilling, punching , image capture | Technical Specification: <ul style="list-style-type: none"> • Fully automated TMA production • Capacity: 72 TMA blocks <ul style="list-style-type: none"> ○ 60 donor blocks ○ 12 recipient blocks • High density TMA block: up to 500 TMA cores / slide • Throughput: 250 – 260 cores / hour • Flexible layout editor • TMA data export / import (xls) • Automated Donor Slide Overlay • TMA block height and tool size measurement • Donor block image capture – 3.14MP camera |


| Product | Article number | Description |
|---|--------------------|---|
| Manual TMA kit 1 mm | HP-TMA-MAN-991000 | Includes: <ul style="list-style-type: none"> • Puncher/extractor tool • Paraffin mould • For 60 cores |
| Manual TMA kit 2 mm | HP-TMA-MAN-992000 | Includes: <ul style="list-style-type: none"> • Puncher/extractor tool • Paraffin mould • For 24 cores |
| Puncher replacement set for TMA Master, 0.6 mm | HP-TMA-PCH-100600 | Includes 1 piston and 3 needles of the same diameter |
| Puncher replacement set for TMA Master, 1 mm | HP-TMA-PCH-101000 | Includes 1 piston and 3 needles of the same diameter |
| Puncher replacement set for TMA Master, 1.5 mm | HP-TMA-PCH-101500 | Includes 1 piston and 3 needles of the same diameter |
| Puncher replacement set for TMA Master, 2 mm | HP-TMA-PCH-102000 | Includes 1 piston and 3 needles of the same diameter |
| Complete set of punchers and drills for TMA Master | HP-TMA-F4S-200000 | Includes: 1 piston, 3 needles and 2 drills of the same diameter in following sizes: 0.6, 1, 1.5 and 2.0 mm, in total 4 pistons, 12 needles and 8 drills |
| Puncher replacement set for TMA Grand Master, 0.6 mm | HP-GTMA-PCH-100600 | Includes 1 piston and 3 needles of the same diameter |
| Puncher replacement set for TMA Grand Master, 1 mm | HP-GTMA-PCH-101000 | Includes 1 piston and 3 needles of the same diameter |
| Puncher replacement set for TMA Grand Master, 1.5 mm | HP-GTMA-PCH-101500 | Includes 1 piston and 3 needles of the same diameter |
| Puncher replacement set for TMA Grand Master, 2 mm | HP-GTMA-PCH-102000 | Includes 1 piston and 3 needles of the same diameter |
| Complete set of punchers and drills for TMA Grand Master | HP-GTMA-F4S-200000 | Includes: 1 piston, 3 needles and 2 drills of the same diameter in following sizes: 0.6, 1, 1.5 and 2.0 mm, in total 4 pistons, 12 needles and 8 drills |
| Barcode reading | 91321 | Software license for 1D / 2D barcode reading |
| | AC-LIC-MAT-MIL9 | Matrox License single unit MIL9 (hardware dongle, must be added to software license) |
| Small paraffin block for TMA Master and TMA Grand Master, cleaned | HP-TMA-BLK-01100B | To be used as recipient block Size: 30 mm Minimum order quantity: 50 pcs |
| Large paraffin block for TMA Master and TMA Grand Master, cleaned | HP-TMA-BLK-011000 | To be used as recipient block Size: 37 mm Minimum order quantity: 50 pcs |

6. Track & Sign

| Product | License | Article number | Description |
|--|------------------|-----------------------|--|
| Track & Sign Server | server license | 91251 | Pathology Workflow Management Including: <ul style="list-style-type: none"> • Case Center with 5 users license |
| Track & Sign Workplace Setup & Customization | | 91252 | <ul style="list-style-type: none"> • Consultation per workplace • Application adaptation to workflow |
| Track & Sign Lab Workstation | workstation pack | AC-TS-WSP-0100 | Track & Sign Pathology Lab Workstation Including: <ul style="list-style-type: none"> • Client workstation • Barcode Reader |
| Track & Sign Pathology Lab Slide-Label printer | | AC-TS-PRN-0100 | <ul style="list-style-type: none"> • 300 DPI label printer |
| Track & Sign Pathology Lab Gross-Label printer | | AC-TS-PRN-0100 | <ul style="list-style-type: none"> • 200 DPI label printer |
| Track & Sign Server Installation Service - On Site | | 91406 | <ul style="list-style-type: none"> • Per system fee, service term: 2 days • Does not include travel and lodging costs, to be charged as add-on • Case Center On-Site installation is required as well |
| Track & Sign - On line support | | 93306 | <ul style="list-style-type: none"> • Annual Fee • for Track & Sign Software - per server node • for up to 10 Track & Sign workstations pack |
| Track & Sign System Software onetime upgrade | | 92406 | <ul style="list-style-type: none"> • Latest released Track & Sign System Software version • applicable per upgrade occasion • 12 months Software upgrade is include • For Track & Sign server + 10 workstation pack – onetime software upgrade |

| Track & Sign Specification | Track & Sign requirement: |
|--|--|
| <ul style="list-style-type: none"> • Pathology workflow control & management • Diagnosis, consultation and reporting • Barcode base tracking (sample, case, tissue) • Workgroup support • Work order management • Case / job assignment and distribution • Integrated Case Center & Case Viewer • Event logging and multi user digital signatures • Integrated voice recording and tele-consultation • Integrated macro image editor • Fully customizable layer of report and labels • Case history data query • Virtual whiteboards • Data export | <ul style="list-style-type: none"> • Server hardware requirement: <ul style="list-style-type: none"> ○ Slide Server ADVANCE II • Other requirements <ul style="list-style-type: none"> ○ Label printers (AC-TS-PRN-xxx) ○ Bar code readers (included by client ws) ○ Client workstation and displays ○ Windows OS ○ Track&Sign Installation service On-site 2 days (91406) ○ Case Center installation service On-site 2 days (91402) ○ System Integration Service (91423) • Service Options <ul style="list-style-type: none"> ○ Track & Sign Software support (93306) ○ Track & Sign Software upgrade (92406) |
| <p>Any order for this product must include On-site installation Track & Sign and Case Center by 3DHISTECH.</p> | |

7. iSaCS Systems

| Product | Article number | Description |
|--|--|---|
| iSaCS – immunohistochemical Stainer automatic Coverslipper and Scanner  | FH-iSaCS-0100 FH-iSaCS-0200 | IHC Automata Staining-Scanner Includes: <ul style="list-style-type: none"> • iSaCS main unit with power supply • iSaCS workflow & control software installed on Control Unit (CU-1 configuration) with a HASP dongle • Digital slide scanner module • Coverslipping module • Staining module • Reagents containers and changer module |
| iSaCS System Installation Service + Training - On Site | 91412 | <ul style="list-style-type: none"> • Per system fee, service term: 3 days • Does not include travel and lodging costs, to be charged add-on • Annual preventive maintenance is required as well |
| iSaCS Annual Preventive Maintenance & On-line technical support service | 93305 | <ul style="list-style-type: none"> • Annual Fee • for iSaCS System • Up to three on-site service per year included |
| iSaCS workflow & control software ANNUAL upgrade subscription | 93410 | <ul style="list-style-type: none"> • Annual fee (per year) • Latest released iSaCS Software version |







| iSaCS Specification | |
|---|--|
| <ul style="list-style-type: none"> • iSaCS main unit with power supply 100-240V AC • Control unit (CU-1 configuration) with a HASP dongle • iSaCS workflow & control software installed on a Control Unit • Brightfield/fluorescence scanning Yes / Yes • Available scanning magnifications: 25x; 40x • Fluorescence illumination 6 channel, 15,000 hours lifetime • Dimensions: (W x D x H) (mm): 1120 x 655 x 780 • Operating weight (kg): 150 • Power consumption (together with control unit): 350 W | <ul style="list-style-type: none"> • Slide capacity: 72 slides in compact arrangement • Reagents capacity: 40 reagents by 8 ml container each • Cover-slipper: 150pcs glass coverslips 22x50 mm • IHC workflow throughput: 6 hours / 36 slides • Reagent identification by 2D barcode • Workflow: loading, blocking, primary antibody, detection, chromogenic, counterstain, cover-slipping, scanning, quantification, reporting • Open system – reagent flexibility: <ul style="list-style-type: none"> ○ Customizable staining process to any vendor's reagents |
| <p>Any order for this product must include On-site installation service and annual preventive maintenance by 3DHISTECH.</p> | |


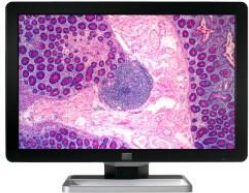



8. Digital Pathology Lab Servers and Workstations


| Product | Article number | Description |
|--|--------------------------|---|
| Control Unit configuration 11 (CU-1) (for Panoramic Flash III) | AC-PCC-FSR94-002 | Fujitsu Celsius R940 workstation or similar <ul style="list-style-type: none"> • Dual Intel Xeon E5-2670v3 12 cores processors • 32 (4x8) GB RAM • Min. 2x1 TB HDD • Min. 128 GB SSD • LAN: 10/100/1000 Mbit/s • DVD-RW • NVIDIA Quadro K620 2GB • Windows 7 professional 64-bit (English) Article number may change. |
| Control Unit configuration 1 (CU-1) (for Panoramic MIDI Confocal and iSaCS) | AC-PCC-FSR94-001 | Fujitsu Celsius R940 workstation or similar <ul style="list-style-type: none"> • Dual Intel Xeon E5-2620v3 12 cores processors • 16 (2x8) GB RAM • Min. 2x1 TB HDD • Min. 128 GB SSD • LAN: 10/100/1000 Mbit/s • DVD-RW • Windows 7 professional 64-bit (English) Article number may change. |
| Control Unit configuration 2 (CU-2) (for Panoramic MIDI II and SCAN II, Digital Pathology Cockpit, Digital Pathology Cockpit Advanced) | AC-PCC-FSM74-001 | Fujitsu Celsius M740 workstation or similar <ul style="list-style-type: none"> • Intel Xeon E5-2609v3 quad core processor • 8 GB RAM • 1 TB HDD • 500 GB HDD • LAN: 10/100/1000 Mbit/s • DVD-RW • Windows 7 professional 64-bit (English) Article number may change. |
| Control Unit configuration 3 (CU-3) (for Panoramic DESK, TMA Master, TMA Grand Master, software applications) | AC-PCC-FSP956-001 | Fujitsu Esprimo P series: P956/E94+ or similar <ul style="list-style-type: none"> • Intel Xeon quad core i5-6500 processor, 3.2GHz + HD graphics, 10 x USB • Min 8 GB RAM • 500 GB HDD • LAN: 10/100/1000 Mbit/s • DVD-RW • Windows 7 professional 64-bit (English) Article number may change. |

| Product | Article number | Description |
|---|------------------------|---|
| Slide server computer BASIC (for CaseCenter and Exam Module, 5 users, approx. 4.000 digital slides) | AC-PCC-FSPR-021 | <ul style="list-style-type: none"> • 1 x Intel QuadCore Xeon Intel Xeon E3-1226v3 4C/4T 3.30 GHz 8 MB processor • Min 16 (2x8) GB RAM • 120 GB SSD RAID1 (OS) • 2x4 TB HDD RAID1 for storage • LAN: 2x1 Gigabit Ethernet + Service LAN • DVD-RW • Windows Server 2012 R2 Standard Edition (English) + 5 CAL <p>Article number may change.</p> |
| Slide server computer ADVANCED I (for CaseCenter and Exam Module, 20 concurrent users, approx. 6.000 digital slides) | AC-PCC-FSPR-033 | <ul style="list-style-type: none"> • 1 x Intel HexaCore Xeon E5-2420v2 6C/12T 2.2GHz 15MB processor • Min 24 (3x8) GB RAM • 120 GB SSD RAID1 (OS) • 2x6 TB HDD RAID1 for storage • LAN: 2x1 Gigabit Ethernet + Service LAN • DVD-RW • Windows Server 2012 R2 Standard (English) <p>Article number may change.</p> |
| Slide server computer ADVANCED II (for CaseCenter and Exam Module, 20 concurrent users, approx. 30.000 digital slides) | AC-PCC-FSPR-034 | <ul style="list-style-type: none"> • 1 x Intel HexaCore Xeon E5-2420v2 6C/12T 2.2GHz 15MB processor • Min 24 (3x8) GB RAM • 120 GB SSD RAID1 (OS) • 7x6 TB HDD RAID5 for storage • LAN: 2x1 Gigabit Ethernet + Service LAN • DVD-RW • Windows Server 2012 R2 Standard (English) <p>Article number may change.</p> |
| Slide server computer ADVANCED ULTRA I (for CaseCenter and Exam Module, up to 50 concurrent users, approx. 10.000 digital slides) | AC-PCC-FSPR-043 | <ul style="list-style-type: none"> • 1 x Intel OctaCore Xeon Intel Xeon E5-2630v3 8C/16T 2.40 GHz processor • Min 32 (4x8) GB RAM • 120 GB SSD RAID1 (OS) • 3x6 TB HDD RAID5 for storage • LAN: 4x1 Gigabit Ethernet + Service LAN • DVD-RW • Windows Server 2012 R2 Standard (English) <p>Article number may change.</p> |
| Slide server computer ADVANCED ULTRA II (for CaseCenter and Exam Module, up to 100 concurrent users, approx. 50,000 digital slides) | AC-PCC-FSPR-044 | <ul style="list-style-type: none"> • 2 x Intel OctaCore Xeon Intel Xeon E5-2630v3 8C/16T 2.40 GHz processor • Min 64 (8x8) GB RAM • 2x120 GB SSD RAID1 (OS) • 11x6 TB HDD RAID5 for storage • LAN: 4x1 Gigabit Ethernet + Service LAN • DVD-RW • Windows Server 2012 R2 Standard (English) <p>Article number may change.</p> |

9. Digital Pathology Displays

| Product | Article number | Description |
|---|----------------------|---|
| Digital Pathology Cockpit BASIC  | FH-DPC-000-1 | Includes: <ul style="list-style-type: none"> • 27" Widescreen IPS Display • Control Unit configuration 2 (CU-2) • SlideDriver Does not include CaseCenter Software and Hardware |
| Digital Pathology Cockpit ADVANCED  | FH-DPC-100-1 | Includes: <ul style="list-style-type: none"> • 30" Barco Coronis Fusion 4MP DL monitor • Control Unit configuration 2 (CU-2) • SlideDriver Does not include CaseCenter Software and Hardware |
| 24" LED Display  | AC-PCM-MON-24 | Fujitsu 24" LED Display <ul style="list-style-type: none"> • Full HD resolution (1920 x 1080 pixels) • 1 x DisplayPort, 1 x DVI-D (HDCP) • 16.7 million colors • 6 ms (Tr + Tf) response time |
| 27" Widescreen IPS Display  | AC-PCM-MON-27 | Fujitsu P27T-6 IPS <ul style="list-style-type: none"> • 3.7 MP (2560 x 1440 pixel) • DisplayPort, 2 x HDMI, 1 x DualLink DVI • 1070 Million Colors • 6 ms (Tr + Tf) response time |
| 24" Clinical Review Display  | AC-PCM-MON-50 | Barco Eonis MDRC-2224 WP <ul style="list-style-type: none"> • 2MP (1920 x 1200) • TFT Color LCD IPS • VGA, DisplayPort, HDMI • White • 16.7 million colors • 14 ms (Tr + Tf) response time • 180 cd/m² DICOM calibrated luminance |
| 22" Clinical Review Display White  | AC-PCM-MON-51 | Barco Eonis MDRC-2122 WP <ul style="list-style-type: none"> • 2MP (1920 x 1080) • TFT Color LCD IPS • VGA, DisplayPort, HDMI • White • 10 bit, 16.7 Million Colors • 14 ms (Tr + Tf) response time • 180 cd/m² DICOM calibrated luminance |

| Product | Article number | Description |
|---|-----------------------------|---|
| <p>22" Clinical Review Display Black</p>  | <p>AC-PCM-MON-52</p> | <p>Barco Eonis MDRC-2122 BL</p> <ul style="list-style-type: none"> • 2MP (1920 x 1080) • TFT Color LCD IPS • VGA, DisplayPort, HDMI • Black • 10 bit, 16.7 Million Colors • 14 ms (Tr + Tf) response time • 180 cd/m² DICOM calibrated luminance |
| <p>4MP DL 30" Wide-screen Pathology Display System</p>  | <p>AC-PCM-MON-53</p> | <p>Barco Coronis Fusion MDCC-4130</p> <ul style="list-style-type: none"> • Native 4MP (2560 x 1600) • TFT AM Color LCD Dual Domain IPS-Pro • DVI-D Dual Link (2x) • 30 bit Colors • 20 ms (Tr + Tf) response time • 500 cd/m² DICOM calibrated luminance • MXRT-5450 card is required for this monitor. <p>Article: AC-PCM-MON-55</p> |
| <p>6MP LED 30" Diagnostic Color Display System</p>  | <p>AC-PCM-MON-54</p> | <p>Barco Coronis Fusion 6MP LED MDCC-6330</p> <ul style="list-style-type: none"> • 4th generation Fusion display • Native 6MP (3280 x 2048) • TFT AM Color LCD Dual Domain IPS-Pro • DVI-D Dual Link (2x), DisplayPort (2x) • 30 bit Colors • 18 ms (Tr + Tf) response time • 500 cd/m² DICOM calibrated luminance <p>MXRT-5450 card is required for this monitor. Article: AC-PCM-MON-55</p> |
| <p>Dual-DVI Display Controller</p>  | <p>AC-PCM-MON-55</p> | <p>Barco 3D PCIe Dual-DVI display controller MXRT-5450</p> <ul style="list-style-type: none"> • high-performance AMD FirePro™ 3D technology PCIe display controller • 1 GB GDDR5 display memory • 2 DVI-I video outputs • OpenGL 4.0 • Recommended for Barco Coronis Fusion 4MP DL 30" monitor, MDCC-4130 |
| <p>30" Wide screen 6MP Color Diagnostic Display</p>  | <p>AC-PCM-MON-56</p> | <p>TOTOKU JvcKenwood CCL650i2</p> <ul style="list-style-type: none"> • Native 6MP (3280 x 2048 at 30Hz, 1640 x 2048 60Hz) • 16.7 million colors • DVI-D (DVI 1.0 compliant), DisplayPort • TFT color active matrix IPS technology • Maximum Luminance 800cd/m² • DICOM compliant calibration |

| Product | Article number | Description |
|--|-----------------------------|--|
| <p>24" Wide screen Diagnostic Display</p>  | <p>AC-PCM-MON-57</p> | <p>TOTOKU JvcKenwood CCL242</p> <ul style="list-style-type: none"> • Native 2.3MP (1920x1200 pixels) • 16.7 million colors • Digital DVI , DisplayPort • TFT color active matrix IPS technology • Maximum luminance 300cd/m² • λ-Sentinel Luminance stabilizing system • color temperature, luminance, and gamma characteristics calibration |
| <p>21" 2MP Color Display</p> | <p>AC-PCM-MON-58</p> | <p>TOTOKU JvcKenwood CCL210</p> <ul style="list-style-type: none"> • Native 2.3MP (1600x1200 pixels) • 16.7 million colors • Digital DVI , DisplayPort • TFT Color active matrix • Maximum luminance 440 cd/m² • λ-Sentinel Luminance stabilizing system • color temperature, luminance, and gamma characteristics calibration |

10. Software

IMPORTANT NOTICE!

Order for any software must contain a corresponding HASP dongle.

A HASP local dongle is required to be used for the server applications, such as CaseCenter and E-School where the local dongle defines the maximum number of concurrent users allowed to access the server.

For all other software application(s) use the HASP local dongle in order to enable the use of software(s) on the computer by only one user where the dongle is plugged in.

For all other software application(s) use the HASP network dongle in order to enable use of the software(s) on all of the workstations or IT platforms in the same local area network by the preset number of users according to the user licensees).

For ordering a HASP network dongle multiple number of software licenses shall be ordered.

| Description | Article number |
|--|--------------------------|
| HASP LOCAL dongle unit SN replacement | AC-LIC-HAS-010000 |
| HASP NETWORK-10 dongle unit SN | AC-LIC-HAS-110000 |

| QUANTCENTER | | | |
|---|--------------------|----------------|--|
| QuantCenter Applications | Nr of User license | Article number | Description |
| HistoQuant (general purpose tissue segmentation software) | 1 | 91081 | <ul style="list-style-type: none"> right to use for 1 user 12 months SW upgrade included |
| | 3 | 91082 | <ul style="list-style-type: none"> right to use for 3 users 12 months SW upgrade included |
| | 5 | 91083 | <ul style="list-style-type: none"> right to use for 5 users 12 months SW upgrade included |
| | 10 | 91084 | <ul style="list-style-type: none"> right to use for 10 users 12 months SW upgrade included |
| PatternQuant (pattern recognition based tissue structure segmentation or pre-segmentation) | 1 | 91211 | <ul style="list-style-type: none"> right to use for 1 user 12 months SW upgrade included |
| | 3 | 91212 | <ul style="list-style-type: none"> right to use for 3 users 12 months SW upgrade included |
| | 5 | 91213 | <ul style="list-style-type: none"> right to use for 5 users 12 months SW upgrade included |
| | 10 | 91214 | <ul style="list-style-type: none"> right to use for 10 users 12 months SW upgrade included |
| NuclearQuant (automatic scoring of IHC nuclear stained samples, HER2, EGFR) | 1 | 91031 | <ul style="list-style-type: none"> right to use for 1 user 12 months SW upgrade included |
| | 3 | 91032 | <ul style="list-style-type: none"> right to use for 3 users 12 months SW upgrade included |
| | 5 | 91033 | <ul style="list-style-type: none"> right to use for 5 users 12 months SW upgrade included |
| | 10 | 91034 | <ul style="list-style-type: none"> right to use for 10 users 12 months SW upgrade included |
| MembraneQuant (automatic scoring of IHC membrane stained samples, HER2, EGFR) | 1 | 91041 | <ul style="list-style-type: none"> right to use for 1 user 12 months SW upgrade included |
| | 3 | 91042 | <ul style="list-style-type: none"> right to use for 3 users 12 months SW upgrade included |
| | 5 | 91043 | <ul style="list-style-type: none"> right to use for 5 users 12 months SW upgrade included |
| | 10 | 91044 | <ul style="list-style-type: none"> right to use for 10 users 12 months SW upgrade included |
| CellQuant (parallel measurement of the IHC stain intensity of cell nuclei, cytoplasm, and membrane) | 1 | 91241 | <ul style="list-style-type: none"> right to use for 10 users 12 months SW upgrade included |
| | 3 | 91242 | <ul style="list-style-type: none"> right to use for 3 users 12 months SW upgrade included |
| | 5 | 91243 | <ul style="list-style-type: none"> right to use for 5 users 12 months SW upgrade included |
| | 10 | 91244 | <ul style="list-style-type: none"> right to use for 10 users 12 months SW upgrade included |
| DensitoQuant (simple, reliable and fast IHC staining intensity measurement) | 1 | 91091 | <ul style="list-style-type: none"> right to use for 1 user 12 months SW upgrade included |
| | 3 | 91092 | <ul style="list-style-type: none"> right to use for 3 users 12 months SW upgrade included |
| | 5 | 91093 | <ul style="list-style-type: none"> right to use for 1 user 12 months SW upgrade included |
| | 10 | 91094 | <ul style="list-style-type: none"> right to use for 3 users 12 months SW upgrade included |

| QUANTCENTER | | | |
|--|--------------------|----------------|--|
| QuantCenter Applications | Nr of User license | Article number | Description |
| FISHQuant (automatic scoring of FISH digital slides) | 1 | 91061 | <ul style="list-style-type: none"> right to use for 1 user 12 months SW upgrade included |
| | 3 | 91062 | <ul style="list-style-type: none"> right to use for 3 users 12 months SW upgrade included |
| | 5 | 91063 | <ul style="list-style-type: none"> right to use for 5 users 12 months SW upgrade included |
| | 10 | 91064 | <ul style="list-style-type: none"> right to use for 10 users 12 months SW upgrade included |
| CISHQuant (automatic scoring of CISH digital slides) | 1 | 91231 | <ul style="list-style-type: none"> right to use for 1 user 12 months SW upgrade included |
| | 3 | 91232 | <ul style="list-style-type: none"> right to use for 3 users 12 months SW upgrade included |
| | 5 | 91233 | <ul style="list-style-type: none"> right to use for 5 users 12 months SW upgrade included |
| | 10 | 91234 | <ul style="list-style-type: none"> right to use for 10 users 12 months SW upgrade included |

A CaseViewer compatible workstation is required, not included

| Licensed Software and Licensed Software Modules | | | |
|---|--------------------|----------------|--|
| Product | Nr of User license | Article number | Description |
| Marker Counter | 1 | 91121 | <ul style="list-style-type: none"> Licensed Software Module for Case Viewer Manual marking virtual slides Counting of virtual slide markers |
| | 3 | 91122 | |
| | 5 | 91123 | |
| | 10 | 91124 | |
| DICOM Snapshot | 1 | 91161 | <ul style="list-style-type: none"> Licensed Software Module for Case Viewer Exporting the selected snapshot image in DICOM format Slide-to-Image converter |
| | 3 | 91162 | |
| | 5 | 91163 | |
| | 10 | 91164 | |
| TMA Module | 1 | 91021 | <ul style="list-style-type: none"> Licensed Software Module for Case Viewer Evaluation and scoring of TMA samples |
| | 3 | 91022 | |
| | 5 | 91023 | |
| | 10 | 91024 | |
| TumorBoard | 1 | 91051 | <ul style="list-style-type: none"> Licensed Software Module for Case Viewer IHC panel evaluation and scoring software |
| | 3 | 91052 | |
| | 5 | 91053 | |
| | 10 | 91054 | |

| Licensed Software and Licensed Software Modules | | | |
|---|---------------------------------|-----------------------|--|
| Product | Nr of User license | Article number | Description |
| 3DView | 1 | SW-LIC-3D-01-1 | <ul style="list-style-type: none"> Licensed visualizing software application for Confocal Z-stack in 3D 3D histology software for reconstruction, visualization and analysis of serial sections Requires OpenGLGraphic coprocessor card eg: NVIDIA GeForce GTX 970/980 See article: AC-PCA-GRP-000200 (page 5) |
| Virtual slide converter | per converter processor license | 91171 | <ul style="list-style-type: none"> Licensed software application for slide to slide conversion Available as desktop application or as Case Center software module Slide-to-slide converter Licensed per conversion processor per processor license Available converter processors: .NDPI to .MRXS .MRXS to .NDPI .SVS to .MRXS .MRXS to .SVS .SCN to .MRXS .MRXS to .BIS .MRXS to WS DICOM WS DICOM = Whole Slide DICOM |

| QUANTCENTER Application Bundles | | | |
|--|--------------|----------------|--|
| Product | User license | Article number | Description |
| IHC-TMA evaluation software package | 1 | 91131 | <ul style="list-style-type: none"> including: TMA, PQ, NQ, MQ, DQ right to use for 1 user |
| | 3 | 91132 | <ul style="list-style-type: none"> including: TMA, PQ, NQ, MQ, DQ right to use for 3 users |
| | 5 | 91133 | <ul style="list-style-type: none"> including: TMA, PQ, NQ, MQ, DQ right to use for 5 users |
| IHC quantification software package | 1 | 91141 | <ul style="list-style-type: none"> including: PQ, NQ, MQ, DQ right to use for 1 user |
| | 3 | 91142 | <ul style="list-style-type: none"> including: PQ, NQ, MQ, DQ right to use for 3 users |
| | 5 | 91143 | <ul style="list-style-type: none"> including: PQ, NQ, MQ, DQ right to use for 5 users |
| FL quantification package | 1 | 91151 | <ul style="list-style-type: none"> including: HQ, FQ right to use for 1 user |
| | 3 | 91152 | <ul style="list-style-type: none"> including: HQ, FQ right to use for 3 users |
| | 5 | 91153 | <ul style="list-style-type: none"> including: HQ, FQ right to use for 5 users |
| <ul style="list-style-type: none"> 12 months software upgrade included, w/o software upgrade assistance service | | | |

| CASECENTER | | | |
|--|----------------------|----------------|--|
| Product | User license | Article number | Description |
| CaseCenter | 5 | 91101 | • right to use for 5 simultaneous users |
| | 10 | 91102 | • right to use for 10 simultaneous users |
| | 20 | 91103 | • right to use for 20 simultaneous users |
| | 50 | 91104 | • right to use for 50 simultaneous users |
| | 100 | 91105 | • right to use for 100 simultaneous user |
| | 200 | 9110A | • right to use for 100 simultaneous user |
| | +1 user | 91106 | • right to use for 1 additional user |
| | +1 Service Unit (SU) | 91501 | • right to use for 1 additional SU |
| | VirtualTray | 91502 | • right to use for a virtual tray |
| | ReplicateSlide | 91503 | • right to use for replicate slide feature |
| CaseCenter + Exam Module (E-School) | 20 | 91111 | • right to use for 20 simultaneous users |
| | 50 | 91112 | • right to use for 50 simultaneous users |
| | 100 | 91113 | • right to use for 100 simultaneous user |
| | 200 | 91114 | • right to use for 200 simultaneous user |
| | +1 user | 91115 | • right to use for 1 additional user |
| | +1 Service Unit (SU) | 91501 | • right to use for 1 additional SU |
| <ul style="list-style-type: none"> • No server PC/Computer, or storage hardware is included, please see section 9.Digital Pathology Lab Computers for verified hardware • License fee does not include installation fee • Any order for this product must include either on-site or remote installation service. Please see service section for services. • 12 months software upgrade included wo software upgrade assistance service • No system integration with other systems (LIS, PACS) is included, no feature adaptation is included • This Software requires very high performance server configurations according to the user licenses. Please visit Section 9. Digital Pathology Lab Servers and Computers for recommended server product. Redundant server configuration is recommended for high operation reliability. In case of ordering server product the application software is provided preinstalled without local network configuration. | | | |

11. Software upgrades

IMPORTANT NOTICE!

Please see Software Section for HASP dongle information

| Description | Article number |
|---------------------------------------|-------------------|
| HASP LOCAL dongle unit SN replacement | AC-LIC-HAS-010000 |
| HASP NETWORK-10 dongle unit SN | AC-LIC-HAS-110000 |

| Control Software Upgrades | | |
|---|----------------|--|
| Product | Article number | Description |
| Pannoramic Scanner control software onetime upgrade | 92404 | <ul style="list-style-type: none"> • Latest released Pannoramic scanner control Software version • applicable per upgrade occasion • 12 months Software upgrade included |
| Pannoramic Scanner control software ANNUAL upgrade subscription | 93404 | <ul style="list-style-type: none"> • Annual fee (per year) • Latest released Pannoramic scanner Software version • Applicable together with new SW license order only |
| TMA control software onetime upgrade | 92405 | <ul style="list-style-type: none"> • Latest released TMA control Software version • applicable per upgrade occasion • 12 months Software upgrade included |
| TMA control software ANNUAL upgrade subscription | 93405 | <ul style="list-style-type: none"> • Annual fee (per year) • Latest released TMA Software version • Applicable together with new SW license order only |
| Track & Sign System Software onetime upgrade | 92406 | <ul style="list-style-type: none"> • Latest released Track & Sign System Software version • applicable per upgrade occasion • 12 months Software upgrade included • For Track & Sign server + 10 workstation pack - onetime software upgrade |
| iSaCS workflow & control software ANNUAL upgrade subscription | 93410 | <ul style="list-style-type: none"> • Annual fee (per year) • Latest released iSaCS Software version |
| <ul style="list-style-type: none"> • Does not include any other SW eg. operating system or hardware upgrades may be required • Does not include any On-line or On Site Support Services, it has to be ordered separately, if required | | |

| QUANTCENTER Application ONETIME Upgrades | | | |
|---|---------------------|-----------------------|-------------------------|
| Product | User license | Article number | Description |
| HistoQuant | 1 | 92081 | • for 1 user license |
| | 3 | 92082 | • for 3 users licenses |
| | 5 | 92083 | • for 5 users licenses |
| | 10 | 92084 | • for 10 users licenses |
| PatternQuant | 1 | 92211 | • for 1 user license |
| | 3 | 92212 | • for 3 users licenses |
| | 5 | 92213 | • for 5 users licenses |
| | 10 | 92214 | • for 10 users licenses |
| NuclearQuant | 1 | 92031 | • for 1 user license |
| | 3 | 92032 | • for 3 users licenses |
| | 5 | 92033 | • for 5 users licenses |
| | 10 | 92034 | • for 10 users licenses |
| MembraneQuant | 1 | 92041 | • for 1 user license |
| | 3 | 92042 | • for 3 users licenses |
| | 5 | 92043 | • for 5 users licenses |
| | 10 | 92044 | • for 10 users licenses |
| CellQuant | 1 | 92241 | • for 1 user license |
| | 3 | 92242 | • for 3 users licenses |
| | 5 | 92243 | • for 5 users licenses |
| | 10 | 92244 | • for 10 users licenses |
| DensitoQuant | 1 | 92091 | • for 1 user license |
| | 3 | 92092 | • for 3 users licenses |
| | 5 | 92093 | • for 5 users licenses |
| | 10 | 92094 | • for 10 users licenses |
| FISHQuant | 1 | 92061 | • for 1 user license |
| | 3 | 92062 | • for 3 users licenses |
| | 5 | 92063 | • for 5 users licenses |
| | 10 | 92064 | • for 10 users licenses |
| CISHQuant | 1 | 92231 | • for 1 user license |
| | 3 | 92232 | • for 3 users licenses |
| | 5 | 92233 | • for 5 users licenses |
| | 10 | 92234 | • for 10 users licenses |
| <ul style="list-style-type: none"> • Applicable per upgrade occasion • 12 months SW upgrade included, wo SW upgrade assistance service • Latest released Application SW version • Does not include any other SW eg. operating system or hardware upgrades may be required • Does not include any On-Line or On Site Support Services, it has to be ordered separately, if required | | | |

| QUANTCENTER Application ANNUAL Upgrade Subscription | | | |
|--|---------------------|-----------------------|-------------------------|
| Product | User license | Article number | Description |
| HistoQuant | 1 | 93081 | • for 1 user license |
| | 3 | 93082 | • for 3 users licenses |
| | 5 | 93083 | • for 5 users licenses |
| | 10 | 93084 | • for 10 users licenses |
| PatternQuant | 1 | 93211 | • for 1 user license |
| | 3 | 93212 | • for 3 users licenses |
| | 5 | 93213 | • for 5 users licenses |
| | 10 | 93214 | • for 10 users licenses |
| NuclearQuant | 1 | 93031 | • for 1 user license |
| | 3 | 93032 | • for 3 users licenses |
| | 5 | 93033 | • for 5 users licenses |
| | 10 | 93034 | • for 10 users licenses |
| MembraneQuant | 1 | 93041 | • for 1 user license |
| | 3 | 93042 | • for 3 users licenses |
| | 5 | 93043 | • for 5 users licenses |
| | 10 | 93044 | • for 10 users licenses |
| CellQuant | 1 | 93241 | • for 1 user license |
| | 3 | 93242 | • for 3 users licenses |
| | 5 | 93243 | • for 5 users licenses |
| | 10 | 93244 | • for 10 users licenses |
| DensitoQuant | 1 | 93091 | • for 1 user license |
| | 3 | 93092 | • for 3 users licenses |
| | 5 | 93093 | • for 5 users licenses |
| | 10 | 93094 | • for 10 users licenses |
| FISHQuant | 1 | 93061 | • for 1 user license |
| | 3 | 93062 | • for 3 users licenses |
| | 5 | 93063 | • for 5 users licenses |
| | 10 | 93064 | • for 10 users licenses |
| CISHQuant | 1 | 93231 | • for 1 user license |
| | 3 | 93232 | • for 3 users licenses |
| | 5 | 93233 | • for 5 users licenses |
| | 10 | 93234 | • for 10 users licenses |
| <ul style="list-style-type: none"> • Subscription for extended term SW upgrade, all SW releases during the service term are provided • Service item includes 1 year subscription • Order as many quantities of subscription as many years the SW upgrades required • Applicable together with SW license order, for later upgrade use occasional upgrade service • Extension or prolongation of subscription required before active subscription expires • Does not include any other SW eg. operating system or hardware upgrades may be required • Does not include any On-Line or On Site Support Services, it has to be ordered separately, if required | | | |

| QUANTCENTER Application Bundles ONETIME Upgrades | | | |
|---|---------------------|-----------------------|------------------------|
| Product | User license | Article number | Description |
| IHC-TMA evaluation software package | 1 | 92131 | • for 1 user license |
| | 3 | 92132 | • for 3 users licenses |
| | 5 | 92133 | • for 5 users licenses |
| IHC quantification software package | 1 | 92141 | • for 1 user license |
| | 3 | 92142 | • for 3 users licenses |
| | 5 | 92143 | • for 5 users licenses |
| FL quantification package | 1 | 92151 | • for 1 user license |
| | 3 | 92152 | • for 3 users licenses |
| | 5 | 92153 | • for 5 users licenses |
| <ul style="list-style-type: none"> • Applicable per upgrade occasion • 12 months SW upgrade included • Latest released Application SW version • Does not include any other SW eg. operating system or hardware upgrades may be required • Does not include any On-Line or On Site Support Services, it has to be ordered separately, if required | | | |

| QUANTCENTER Application Bundles ANNUAL Upgrade Subscription | | | |
|--|---------------------|-----------------------|------------------------|
| Product | User license | Article number | Description |
| IHC-TMA evaluation software package | 1 | 93131 | • for 1 user license |
| | 3 | 93132 | • for 3 users licenses |
| | 5 | 93133 | • for 5 users licenses |
| IHC quantification software package | 1 | 93141 | • for 1 user license |
| | 3 | 93142 | • for 3 users licenses |
| | 5 | 93143 | • for 5 users licenses |
| FL quantification package | 1 | 93151 | • for 1 user license |
| | 3 | 93152 | • for 3 users licenses |
| | 5 | 93153 | • for 5 users licenses |
| <ul style="list-style-type: none"> • Subscription for extended term SW upgrade, all SW releases during the service term are provided • Service item includes 1 year subscription • Order as many quantities of subscription as many years the SW upgrades required • Applicable together with SW license order, for later upgrade use occasional upgrade service • Extension or prolongation of subscription required before active subscription expires • Does not include any other SW eg. operating system or hardware upgrades may be required • Does not include any On-Line or On Site Support Services, it has to be ordered separately, if required | | | |

| Licensed Software ONETIME Upgrades | | | |
|---|---------------------|-----------------------|-----------------------------|
| Product | User license | Article number | Description |
| Marker Counter | 1 | 92121 | • for 1 user license |
| | 3 | 92122 | • for 3 users licenses |
| | 5 | 92123 | • for 5 users licenses |
| | 10 | 92124 | • for 10 users licenses |
| DICOM Snapshot | 1 | 92161 | • for 1 user license |
| | 3 | 92162 | • for 3 users licenses |
| | 5 | 92163 | • for 5 users licenses |
| | 10 | 92164 | • for 10 users licenses |
| TMA Module | 1 | 92021 | • for 1 user license |
| | 3 | 92022 | • for 3 users licenses |
| | 5 | 92023 | • for 5 users licenses |
| | 10 | 92024 | • for 10 users licenses |
| TumorBoard | 1 | 92051 | • for 1 user license |
| | 3 | 92052 | • for 3 users licenses |
| | 5 | 92053 | • for 5 users licenses |
| | 10 | 92054 | • for 10 users licenses |
| 3DView | 1 | 92071 | • for 1 user license |
| Virtual Slide Converter | per converter | 92171 | • for 1 converter processor |
| <ul style="list-style-type: none"> • Applicable per upgrade occasion • 12 months SW upgrade included, wo SW upgrade assistance service • Latest released SW version • Does not include any other SW eg. operating system or hardware upgrades may be required • Does not include any On-Line or On Site Support Services, it has to be ordered separately, if required | | | |

| Licensed Software ANNUAL Upgrade Subscription | | | |
|--|---------------------|-----------------------|-------------------------|
| Product | User license | Article number | Description |
| Marker Counter | 1 | 93121 | • for 1 user license |
| | 3 | 93122 | • for 3 users licenses |
| | 5 | 93123 | • for 5 users licenses |
| | 10 | 93124 | • for 10 users licenses |
| TMA Module | 1 | 93021 | • for 1 user license |
| | 3 | 93022 | • for 3 users licenses |
| | 5 | 93023 | • for 5 users licenses |
| | 10 | 93024 | • for 10 users licenses |
| TumorBoard | 1 | 93051 | • for 1 user license |
| | 3 | 93052 | • for 3 users licenses |
| | 5 | 93053 | • for 5 users licenses |
| | 10 | 93054 | • for 10 users licenses |

| Licensed Software ANNUAL Upgrade Subscription | | | |
|--|---------------------|-----------------------|---|
| Product | User license | Article number | Description |
| | | | <ul style="list-style-type: none"> • Subscription for extended term SW upgrade, all SW releases during the service term are provided • Service item includes 1 year subscription • Order as many quantities of subscription as many years the SW upgrades required • Applicable together with SW license order, for later upgrade use occasional upgrade service • Extension or prolongation of subscription required before active subscription expires • Does not include any other SW eg. operating system or hardware upgrades may be required Does not include any On-Line or On Site Support Services, it has to be ordered separately, if required |

| CASECENTER ONETIME Upgrades | | | |
|---|--------------|----------------|--------------------------|
| Product | User license | Article number | Description |
| CaseCenter | 5 | 92101 | • for 5 users licenses |
| | 10 | 92102 | • for 10 users licenses |
| | 20 | 92103 | • for 20 users licenses |
| | 50 | 92104 | • for 50 users licenses |
| | 100 | 92105 | • for 100 users licenses |
| | 200 | 9210A | • for 200 users licenses |
| CaseCenter + Exam Module (E-School) | 20 | 92111 | • for 20 users licenses |
| | 50 | 92112 | • for 50 users licenses |
| | 100 | 92113 | • for 100 users licenses |
| | 200 | 92114 | • for 200 users licenses |
| <ul style="list-style-type: none"> • Applicable per upgrade occasion • 12 months SW upgrade included, wo SW upgrade assistance service • Latest released SW version • Does not include any other SW eg. operating system or hardware upgrades it may be required • Does not include any On-Line or On Site Support Services or installation fee, if required, has to be ordered separately • Does not include system integration with other systems (LIS, PACS), no feature adaptation is included • Any order for this product must include on-site or remote installation. Please see service section | | | |

| CASE CENTER ANNUAL Upgrades | | | |
|--|--------------|----------------|--------------------------|
| Product | User license | Article number | Description |
| CaseCenter | 5 | 93101 | • for 5 users licenses |
| | 10 | 93102 | • for 10 users licenses |
| | 20 | 93103 | • for 20 users licenses |
| | 50 | 93104 | • for 50 users licenses |
| | 100 | 93105 | • for 100 users licenses |
| | 200 | 9310A | • for 200 users licenses |
| CaseCenter + Exam Module | 20 | 93111 | • for 20 users licenses |
| | 50 | 93112 | • for 50 users licenses |
| | 100 | 93113 | • for 100 users licenses |
| | 200 | 93114 | • for 200 users licenses |
| <ul style="list-style-type: none"> • Subscription for extended term SW upgrade, all SW releases during the service term are provided • Service item includes 1 year subscription • Order as many quantities of subscription as many years the SW upgrades required • Applicable together with SW license order, for later upgrade use occasional upgrade service • Extension or prolongation of subscription required before active subscription expires • Does not include any other SW eg. operating system or hardware upgrades it may be required • Does not include any On-Line or On Site Support Services, if required, has to be ordered separately | | | |

12. Services

| Installation Services | | |
|--|----------------|---|
| Service | Article number | Description |
| System Installation Service - On Site | 91402 | <ul style="list-style-type: none"> Per day fee Does not include travel and lodging costs, to be charged as add-on For any Panoramic scanner, CaseCenter or TMA system HW & SW installation |
| Track & Sign System Installation Service - On Site | 91406 | <ul style="list-style-type: none"> Per system fee, service term: 2 days Does not include travel and lodging costs, to be charged as add-on Case Center On-Site installation is required as well |
| iSaCS System Installation Service + Training - On Site | 91410 | <ul style="list-style-type: none"> Per system fee, service term: 3 days Does not include travel and lodging costs, to be charged add-on Annual preventive maintenance is required as well |
| Combined System Installation + Training - On Site | 91407 | <ul style="list-style-type: none"> Per day fee Does not include travel and lodging costs, to be charged as add-on For any Panoramic DESK or TMA systems Includes one-day operation training |
| Combined System Installation + Training - On Site | 91409 | <ul style="list-style-type: none"> Per day fee Does not include travel and lodging costs, to be charged as add-on For any Panoramic MIDI, SCAN, FLASH or CaseCenter Includes one-day operation training |
| Remote System Installation Service / via Webex | 91421 | <ul style="list-style-type: none"> Per day fee Includes on-line installation assistance / support (max. 4 hours via Webex) For any scanner, CaseCenter or TMA system HW & SW installation |
| <ul style="list-style-type: none"> System Integration is not included – only stand-alone installation and commissioning | | |

| System Integration Services | | |
|---|----------------|--|
| Service | Article number | Description |
| CaseCenter System Integration - Standard | 91423 | <ul style="list-style-type: none"> Included maximum 10 man-days On-Site, On-Line or Remote Service Does not include travel and lodging, costs to be charged add-on For any CaseCenter design |
| TMA Master / TMA Grand Master System Integration | 91424 | <ul style="list-style-type: none"> Included maximum 3 man-days On-Site, On-Line or Remote Service Does not include travel and lodging, costs to be charged add-on) For any TMA or GTMA Systems |

| System Integration Services | | |
|--|-----------------------|---|
| Service | Article number | Description |
| CaseCenter System Integration - Enhanced local adaptation | 91425 | <ul style="list-style-type: none"> Any system integration beyond 91423 service For any CaseCenter design Quoted by project scope |
| Installation is not included, Installation shall be ordered separately. | | |

| Technical Assistance Services | | |
|---|-----------------------|---|
| Services | Article number | Description |
| Factory Repair Service Fee | 91011 | <ul style="list-style-type: none"> Per day fee per system Does not include any inbound or outbound shipping, cost of shipment to be charged as add-on For any scanner or TMA system HW & SW installation Does not include any cost of HW parts or SW license |
| Factory Preventive Maintenance Service Fee | 91012 | <ul style="list-style-type: none"> Per service per system Annual inspection of Hardware and / or Software, cleaning of Hardware, calibration of the related Hardware and / or Software if required, Testing of Hardware and / or Software Does not include any cost of HW parts or SW license |
| Factory Upgrade Service Fee | 91014 | <ul style="list-style-type: none"> Per day fee per system Does not include any inbound or outbound shipping, cost of shipment to be charged as add-on For any scanner or TMA system HW & SW installation Does not include any cost of HW parts or SW license |
| On-Site Service - repair / troubleshooting Fee | 91422 | <ul style="list-style-type: none"> Per day fee Repair / maintenance / troubleshooting Does not include any cost of HW parts or SW license |
| On-Site Service - maintenance / assistance Fee | 91423 | <ul style="list-style-type: none"> Does not include cost of travel and lodging, cost of travel and lodging to be charged as add-on |
| On-Line Assistance - remote repair assistance / remote troubleshooting – via Webex | 91201 | <ul style="list-style-type: none"> Per hour fee, every hour started Repair assistance / maintenance / troubleshooting / consulting / SW upgrade assistance up to 4 hours / day |
| On-Line Assistance – remote maintenance / remote SW upgrade assistance – via Webex | 91202 | <ul style="list-style-type: none"> Available as remote service via Webex, registration is needed Does not include any cost HW parts or SW license |

| ANNUAL Term Support Services – Panoramic Scanners | | |
|---|-----------------------|--------------------------------------|
| Services | Article number | Description |
| On-line support – Panoramic MIDI Confocal | 94104 | • per Panoramic MIDI Confocal system |
| Preventive maintenance & On-line support – Panoramic MIDI Confocal | 94134 | |
| On-line support – Panoramic FLASH BF | 94105 | • per Panoramic FLASH BF system |
| Preventive maintenance & On-line support – Panoramic FLASH BF | 94135 | |
| On-line support – Panoramic FLASH BF&FL | 94106 | • per Panoramic FLASH BF&FL scanner |
| Preventive maintenance & On-line support – Panoramic FLASH BF&FL | 94136 | |
| On-line support – Panoramic SCAN BF | 94107 | • per Panoramic SCAN BF scanner |
| Preventive maintenance & On-line support – Panoramic SCAN BF | 94137 | |
| On-line support – Panoramic SCAN BF&FL | 94108 | • per Panoramic SCAN BF&FL scanner |
| Preventive maintenance & On-line support – Panoramic SCAN BF&FL | 94138 | |
| On-line support – Panoramic MIDI BF | 94109 | • per Panoramic MIDI BF scanner |
| Preventive maintenance & On-line support – Panoramic MIDI BF | 94139 | |
| On-line support – Panoramic MIDI BF&FL | 94110 | • per Panoramic MIDI BF&FL scanner |
| Preventive maintenance & On-line support – Panoramic MIDI BF&FL | 94240 | |
| On-line support – Panoramic DESK | 94111 | • per Panoramic Desk scanner |
| Preventive maintenance & On-line support – Panoramic DESK | 94141 | |
| <ul style="list-style-type: none"> • Service term – 1 year for the system with the registered serial number • Off-line services: support via e-mail • On-line services: <ul style="list-style-type: none"> ○ remote troubleshooting, maintenance and assistance via Webex communication tool or email , in case of emergency – over the phone during standard business hours ○ assistance over telephone, facsimile or electronic mail (for information related to Hardware use, configuration and troubleshooting) ○ helpdesk (remote service via email, telephone or via Webex communication tool) ○ access to 3DHISTECH’s Technical Assistance Center during Standard Business Hour. ○ systematic preventive maintenance on-line (remote). ○ Service limit: 100 hours/year and 3 hours/day • Preventive maintenance: <ul style="list-style-type: none"> ○ one On-Site visit / year ○ annual inspection of Hardware and / or Software, ○ cleaning of Hardware, ○ calibration of the related Hardware and / or Software if required, ○ testing and preventive maintenance of Hardware and / or Software ○ repair of the Hardware – if needed - without parts replacement ○ If any parts or component of the Hardware required to be replaced, the cost of any new part or component is not included. | | |

| ANNUAL Term Support Services – TMA & iSaCS | | |
|--|-----------------------|---|
| Services | Article number | Description |
| On-line support – TMA Master | 93301 | <ul style="list-style-type: none"> for 1 TMA Master product |
| On-line support – TMA Grand Master | 93303 | <ul style="list-style-type: none"> for 1 TMA Grand Master product |
| iSaCS Annual Preventive Maintenance & On-line technical support service | 93305 | <ul style="list-style-type: none"> Annual Fee per iSaCS System Up to three on-site service per year included |
| <ul style="list-style-type: none"> Service term – 1 year for the registered serial Nr system Off-line services: support via e-mail On-line services: <ul style="list-style-type: none"> Webex support option (maximized in 100 hours/year and 3 hours/day) Remote troubleshooting, maintenance and assistance, in case of emergency – over the phone | | |

| ANNUAL Term Software Support Services | | |
|--|-----------------------|---|
| Services | Article number | Description |
| Single QuantCenter Application - Online support | 93201 | <ul style="list-style-type: none"> for specified single QuantCenter application – per site for any number of licenses |
| Any QuantCenter Application - Online support | 93202 | <ul style="list-style-type: none"> for all QuantCenter application - per site for any number of licenses |
| CaseCenter - On line support – 10 | 94101 | <ul style="list-style-type: none"> per CaseCenter master site for up to 10 licenses |
| CaseCenter - On line support – 100 | 94102 | <ul style="list-style-type: none"> per CaseCenter master site for up to 100 licenses |
| CaseCenter - On line support – 200 | 94103 | <ul style="list-style-type: none"> per CaseCenter master site for up to 200 licenses |
| Track & Sign - On line support | 93306 | <ul style="list-style-type: none"> Annual Fee for Track & Sign Software - per server node for up to 10 Track &Sign workstations pack |
| <ul style="list-style-type: none"> Service term – 1 year for the designated software product(s) per partner country territory Off-line services: support via e-mail: bug fix, troubleshooting & workaround On-line services: <ul style="list-style-type: none"> Webex support option (maximized in 100 hours/year and 3 hours/day) Remote troubleshooting, maintenance and assistance, in case of emergency – over the phone | | |

| Advanced Services | | |
|--|----------------|---|
| Services | Article number | Description |
| Slide scanning | 91192 | Cost per slide services <ul style="list-style-type: none"> Brightfield scanning Fluorescence scanning Confocal scanning For more information please visit http://www.3dhitech.com/scan_service Download order form and submit |
| Digital pathology demo – on demand – on site | 91199 | Cost per day 3DHISTECH Product technical and sales professional provides trade-show, conference, workshop or customer site related demonstration Demo equipment is not included |
| Scanner rental – Panoramic MIDI, SCAN, FLASH | 91012 | Cost per day per Panoramic MIDI, SCAN, FLASH rental for shorter period, to be used for demonstration or trial operation, lease based contract is also available in certain territories |
| Scanner rental – Panoramic DESK | 91013 | Cost per day per Panoramic DESK rental for shorter period, to be used for demonstration or trial operation, lease based contract is also available in certain territories |
| Digital Pathology system design & planning | 91204 | Based on 20 years of experiences in the field of digital Pathology 3DHISTECH experts provide consultation, high level design, architecture and network planning, how to implement digital pathology multipoint-multipoint digital pathology cloud for national health service, regional health systems, private or public hospitals, universities and research institutes. |
| System Readiness Assessment | 91203 | 3DHISTECH experts help to achieve your digital histology labor objectives and improve your digital scanner investment. The consultation service is based on teleconference or Webex Meeting. 3DHISTECH's priority is to help to use digital microscopes more successful. 3DHISTECH's professional team has deep expertise and industry experiences. We can offer you valuable assistance with digital scanners and histology application deployment, digital technology adoption, integration with your processes and infrastructure. Our services cover three important areas: customization, implementation and operation |
| Training – on demand - At factory / On site / On-line | 91408 | Cost per day per participant Operation, maintenance and application training, know-how transfer, digital histology competence development |
| SlideAC SDK | 91191 | Software Developer Kit for opening .MRXS slide |

Authorised distributor

In Australia:

For customer service, call 1300-735-292

To fax an order, use 1800-067-639

To email an order, ordersau@thermofisher.com

In New Zealand:

For customer service, call 0800-933-966

To fax an order, use 0800-329-246

To email an order, ordersnz@thermofisher.com

ThermoFisher
 S C I E N T I F I C