

# VIEWMEDIC OPERION 3

## PRODUCT OVERVIEW



- Modular wall monitor for the operating room
- Optional, integrated PC module
- Niche or on-wall mounting
- Medical certification for OPERION and components

 **rein medical**

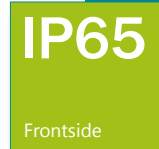
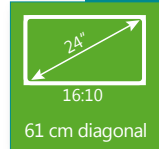
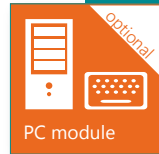
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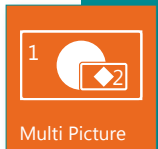
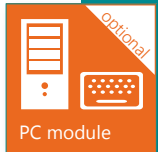
# VIEWMEDIC OPERION 324

Product type	Medically certified monitor with optional PC-System for wall integration
Areas of application	Built-in OP-walls for displaying medical images such as RIS, HIS, PACS (not reporting), EPA, etc.
Standard and Compliance	DIN EN 60601-1, DIN EN 60601-1-2, Medical Device Class 1
<b>Display Properties</b>	
Display size	61,13 cm (24,1")
Display area	518,4 (H) x 324 (V) mm
Pixel Pitch	0,270 (H) x 0,270 (V) mm
Resolution / aspect ratio	1920 (H) x 1080 (V) / 16 : 9
Max. panel brightness / Contrast Ratio	LED-Backlight with 300 cd/m <sup>2</sup> / 1000 : 1
Color depth / number of displayable colors	8-Bit / 16,67 Mio.
Viewing angle	170° (H) / 160° (V)
Response time	14 ms
<b>Controller Properties</b>	
Signal inputs	1 x DVI-D, 1 x DisplayPort, 1 x VGA
OSD control	COMMAND BAR touch control panel with one-touch keys for signal inputs
<b>Equipment</b>	
Protective glass	High-quality anti-reflective coating by chemical Microetching
Housing	Stainless steel 1.4301 and 1.4016
IP Protection	Front IP65 (depending on the installation location)
Potential equalization	ZPA inside (M5x20)
PCAP touch operation [optional]	Project Capacitive Touch Sensor with USB-Controller and RS-232
<b>Power supply</b>	
Power supply	Integrated Power supply, AC 100 - 240 V ±10% (50/60 Hz)
DC-Out	5 V max. 3 A, 12 V max. 1 A
Max. Power Consumption	max. 110 VA, 3-6 VA Standby
<b>PC-System [optional]</b>	
CPU, Chipset, Graphics	Intel® i5 oder i7 (4rd Gen) / Intel Q87 Express / Intel® HD Graphics, DX11.1
RAM	8 GB (optional 16 GB DDR3)
HDD	500 GB (optional up to 2 TB or SSD or additional HDD / SSD)
OS	Microsoft Windows 7, Windows 8 (optional)
Expansion slot	1 x PCIe, 1x Mini-PCIe (optional)
Network (LAN)	1 x Intel i217LM Ethernet Controller 10/100/1000 Mbps, 1 x Intel 210AT Ethernet Controller 10/100/1000 Mbps with iAMT und PXE-Support
Connections	2 x USB 3.0, 6 x USB 2.0 , 2 x Gigabit LAN, 2 x DisplayPort V1.2 (one reserved for internal use), 1 x DVI-I-Out, 5.1 Multichannel Audio, 1 x RS232, 2 x P/S2-In Mouse/Keyboard
<b>Optional features</b>	
Network isolator	4 kV RJ45-Isolator, 1000 MBit/s capable
Input device	DOCTRAY Keyboard & Mouse



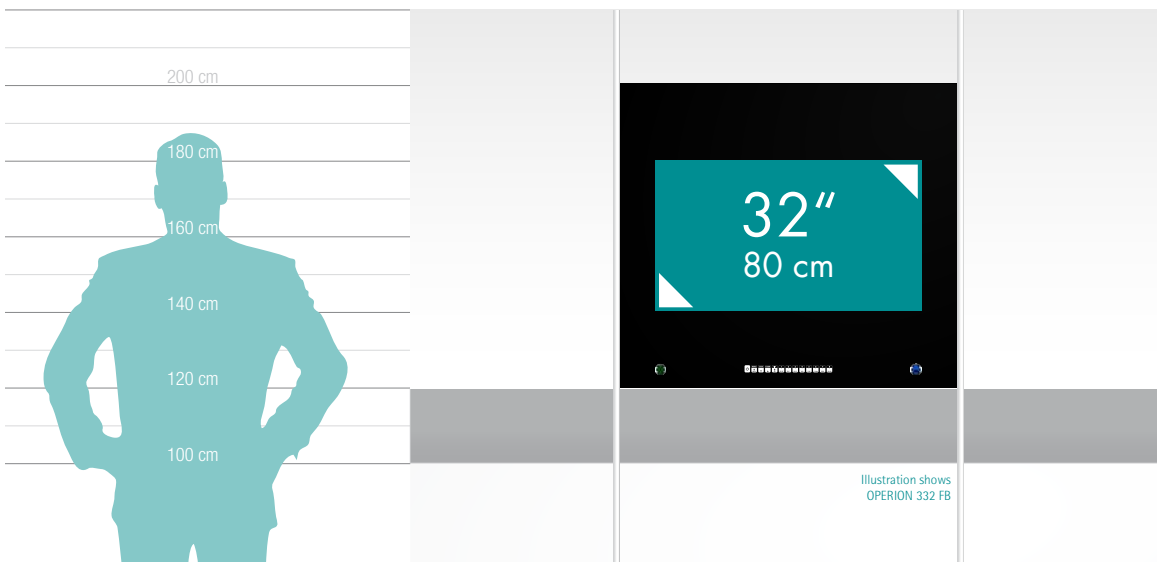
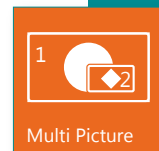
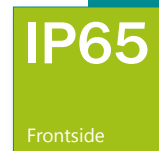
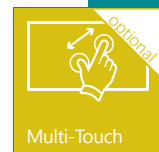
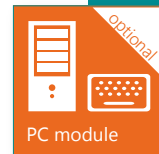
# VIEWMEDIC OPERION 327

Product type	Medically certified monitor with optional PC-System for wall integration
Areas of application	Built-in OP-walls for displaying medical images such as RIS, HIS, PACS (not reporting), EPA, etc.
Standard and Compliance	DIN EN 60601-1, DIN EN 60601-1-2, Medical Device Class 1
<b>Display Properties</b>	
Display size	68,565 cm (27")
Display area	597,6 mm x 336,15 mm
Pixel Pitch	0,311 x 0,311 mm
Resolution / aspect ratio	1920 x 1080 / 16 : 9
Max. panel brightness / Contrast Ratio	LED-Backlight with 350 cd/m <sup>2</sup> / 3000 : 1
Color depth / number of displayable colors	16,67 Mio.
Viewing angle	Horizontal: 170° / Vertikal: 160°
Response time	12 ms
<b>Controller Properties</b>	
Signal inputs	1 x DVI-D, 1 x DisplayPort, 1 x VGA
OSD control	COMMAND BAR touch control panel with one-touch keys for signal inputs
<b>Equipment</b>	
Protective glass	High-quality anti-reflective coating by chemical Microetching
Housing	Stainless steel 1.4301 and 1.4016
IP Protection	Front IP65 (depending on the installation location)
Potential equalization	ZPA inside (M5x20)
PCAP touch operation [optional]	Project Capacitive Touch Sensor with USB-Controller and RS-232
<b>Power supply</b>	
Power supply	Integrated Power supply, AC 100 - 240 V ±10% (50/60 Hz)
DC-Out	5 V max. 3 A, 12 V max. 1 A
Max. Power Consumption	max. 135 VA, 3-6 VA Standby
<b>PC-System [optional]</b>	
CPU, Chipset, Graphics	Intel® i5 oder i7 (4rd Gen) / Intel Q87 Express / Intel® HD Graphics, DX11.1
RAM	8 GB (optional 16 GB DDR3)
HDD	500 GB (optional up to 2 TB or SSD or additional HDD / SSD)
OS	Microsoft Windows 7, Windows 8 (optional)
Expansion slot	1 x PCIe, 1x Mini-PCIe (optional)
Network (LAN)	1 x Intel i217LM Ethernet Controller 10/100/1000 Mbps, 1 x Intel 210AT Ethernet Controller 10/100/1000 Mbps with iAMT und PXE-Support
Connections	2 x USB 3.0, 6 x USB 2.0 , 2 x Gigabit LAN, 2 x DisplayPort V1.2 (one reserved for internal use), 1 x DVI-I-Out, 5.1 Multichannel Audio, 1 x RS232, 2 x P/S2-In Mouse/Keyboard
<b>Optional features</b>	
Network isolator	4 kV RJ45-Isolator, 1000 MBit/s capable
Input device	DOCTRAY Keyboard Et Mouse



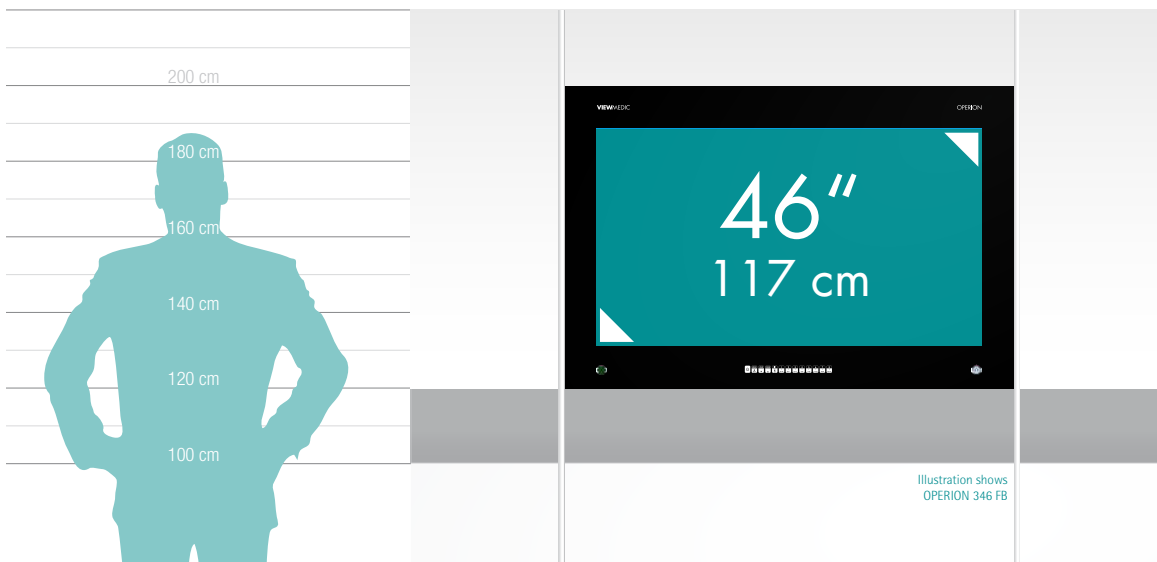
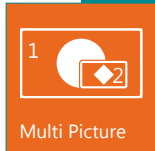
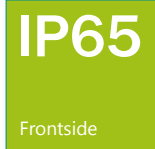
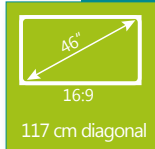
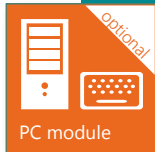
# VIEWMEDIC OPERION 332

Product type	Medically certified large screen monitor with optional PC-System for wall integration
Areas of application	Built-in OP-walls for displaying medical images such as RIS, HIS, PACS (not reporting), EPA, etc.
Standard and Compliance	DIN EN 60601-1, DIN EN 60601-1-2, Medical Device Class 1
<b>Display Properties</b>	
Display size	80 cm (31,5 ")
Display area	698,4 (H) x 392,85 (V) mm
Pixel Pitch	0,3637 (H) x 0,3637 (W) mm
Resolution / aspect ratio	1920 x 1080 / 16:9
Max. panel brightness / Contrast Ratio	LED-Backlight with 450 cd/m <sup>2</sup> / 3000: 1
Color depth / number of displayable colors	8-Bit / 16,8 Mio.
Viewing angle	Horizontal: 178° / Vertical: 178°
Response time	8 ms Gray-To-Gray
<b>Controller Properties</b>	
Signal inputs	1 x VGA, 2 x DVI-D, 1 x DisplayPort (connected with optional PC-System), S-Video, CVBS, YPbPr / YCbCr, RGBS, Optional: 3G/HD-SDI
Loop-Throughs [optional]	Loop-Through-Outputs in conjunction with 3G/HD-SDI (optional): 1 x S-Video, 1 x CVBS, 1 x YpbPr/RGBS, 1 x 3G-SDI
Luminance stabilizing	ALS (Automatic Luminance stabilization) with backlight sensor, calibrated to 300 cd / m <sup>2</sup> or 250 cd / m <sup>2</sup> for DICOM preset
OSD control	COMMAND BAR touch control panel with one-touch keys for signal inputs and user profiles
Color illustrations	DICOM, Gamma 1.8, 2.0, 2.2, 2.4, user-specific speed dial button to switch between shared color profiles
Contoller LUT	12-Bit
OSD language	German, English
Configuration interface	Media control via RS 232 commands, GPIO
<b>Equipment</b>	
Protective glass	6.4 mm laminated safety glass front, high-quality anti-reflective coating by chemical Microetching
Housing	Stainless steel 1.4301 and 1.4016
IP Protection	Front IP65 (depending on the installation location)
Potential equalization	ZPA inside (M5x20)
PCAP touch operation [optional]	Project Capacitive Touch Sensor with USB-Controller and RS-232
<b>Power supply</b>	
Power supply	Integrated Power supply, AC 100 - 240 V ±10% (50/60 Hz)
DC-Out	5 V max. 3 A, 12 V max. 1 A
Max. Power Consumption	max. 70 VA without PC, max. 120 VA with PC, 3-6 VA Standby
<b>PC-System [optional]</b>	
CPU, Chipset, Graphics	Intel® i5 oder i7 (4rd Gen) / Intel Q87 Express / Intel® HD Graphics, DX11.1
RAM	8 GB (optional 16 GB DDR3)
HDD	500 GB (optional up to 2 TB or as SSD or more HDD)
OS	Microsoft Windows 7, Windows 8 (optional)
Expansion slot	1 x PCIe, 1x Mini-PCIe (optional)
Network (LAN)	1 x Intel i217LM Ethernet Controller 10/100/1000 Mbps, 1 x Intel 210AT Ethernet Controller 10/100/1000 Mbps with iAMT und PXE-Support
Connections	2 x USB 3.0, 6 x USB 2.0 , 2 x Gigabit LAN, 2 x DisplayPort V1.2 (one reserved for internal use), 1 x DVI-I-Out, 5.1 Multichannel Audio, 1 x RS232, 2 x P/S2-In Mouse/Keyboard
<b>Optional features</b>	
Network isolator	4 kV RJ45-Isolator, 1000 MBit/s capable
Input device	DOCTRAY Keyboard & Mouse



# VIEWMEDIC OPERION 346

Product type	Medically certified large screen monitor with optional PC-System for wall integration
Areas of application	Built-in OP-walls for displaying medical images such as RIS, HIS, PACS (not reporting), EPA, etc.
Standard and Compliance	DIN EN 60601-1, DIN EN 60601-1-2, Medical Device Class 1
<b>Display Properties</b>	
Display size	116,84 cm (46")
Display area	1018,08 (H) x 572,67 (V) mm
Pixel Pitch	0.53025 (H) x 0.53025 (W) mm
Resolution / aspect ratio	1920 x 1080 / 16:9
Max. panel brightness / Contrast Ratio	LED-Backlight with 700 cd/m <sup>2</sup> / 4000 : 1
Color depth / number of displayable colors	10-Bit / 1,06 Mrd.
Viewing angle	Horizontal: 178° / Vertical: 178°
Response time	6,5 ms Gray-To-Gray
<b>Controller Properties</b>	
Signal inputs	1 x VGA, 2 x DVI-D, 1 x DisplayPort (connected with optional PC-System), S-Video, CVBS, YpbPr / YCbCr, RGBS, Optional: 3G/HD-SDI
Loop-Throughs [optional]	Loop-Through-Outputs in conjunction with 3G/HD-SDI (optional): 1 x S-Video, 1 x CVBS, 1 x YpbPr/RGBS, 1 x 3G-SDI
Luminance stabilizing	ALS (Automatic Luminance stabilization) with backlight sensor, calibrated to 300 cd / m <sup>2</sup> or 250 cd / m <sup>2</sup> for DICOM preset
OSD control	COMMAND BAR touch control panel with one-touch keys for signal inputs and user profiles
Color illustrations	DICOM, Gamma 1.8, 2.0, 2.2, 2.4, user-specific speed dial button to switch between shared color profiles
Contoller LUT	12-Bit
OSD language	German, English
Configuration interface	Media control via RS 232 commands, GPIO
<b>Equipment</b>	
Protective glass	6.4 mm laminated safety glass front, high-quality anti-reflective coating by chemical Microetching
Housing	Stainless steel 1.4301 and 1.4016
IP Protection	Front IP65 (depending on the installation location)
Potential equalization	ZPA inside (M5x20)
PCAP touch operation [optional]	Project Capacitive Touch Sensor with USB-Controller and RS-232
<b>Power supply</b>	
Power supply	Integrated Power supply, AC 100 - 240 V ±10% (50/60 Hz)
DC-Out	5 V max. 3 A, 12 V max. 1 A
Max. Power Consumption	max. 130 VA without PC, max. 160 VA with PC, 3-6 VA Standby
<b>PC-System [optional]</b>	
CPU, Chipset, Graphics	Intel® i5 oder i7 (4rd Gen) / Intel Q87 Express / Intel® HD Graphics, DX11.1
RAM	8 GB (optional 16 GB DDR3)
HDD	500 GB (optional up to 2 TB or as SSD or more HDD)
OS	Microsoft Windows 7, Windows 8 (optional)
Expansion slot	1 x PCIe, 1x Mini-PCIe (optional)
Network (LAN)	1 x Intel i217LM Ethernet Controller 10/100/1000 Mbps, 1 x Intel 210AT Ethernet Controller 10/100/1000 Mbps with iAMT und PXE-Support
Connections	2 x USB 3.0, 6 x USB 2.0 , 2 x Gigabit LAN, 2 x DisplayPort V1.2 (one reserved for internal use), 1 x DVI-I-Out, 5.1 Multichannel Audio, 1 x RS232, 2 x P/S2-In Mouse/Keyboard
<b>Optional features</b>	
Network isolator	4 kV RJ45-Isolator, 1000 MBit/s capable
Input device	DOCTRAY Keyboard & Mouse

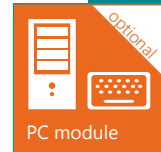


# VIEWMEDIC OPERION 355

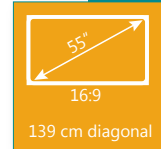
Product type	Medically certified large screen monitor with optional PC-System for wall integration
Areas of application	Built-in OP-walls for displaying medical images such as RIS, HIS, PACS (not reporting), EPA, etc.
Standard and Compliance	DIN EN 60601-1, DIN EN 60601-1-2, Medical Device Class 1
<b>Display Properties</b>	
Display size	138,684 cm (54,6")
Display area	1209.6 (H) x 680.4 (V) mm
Pixel Pitch	0,63 (H) x 0,63 (W) mm
Resolution / aspect ratio	1920 x 1080 / 16:9
Max. panel brightness / Contrast Ratio	LED-Backlight with 700 cd/m <sup>2</sup> / 4000 : 1
Color depth / number of displayable colors	10-Bit / 1,06 Mrd.
Viewing angle	Horizontal: 178° / Vertikal: 178°
Response time	6,5 ms Gray-To-Gray
<b>Controller Properties</b>	
Signal inputs	1 x VGA, 2 x DVI-D, 1 x DisplayPort (connected with optional PC-System), S-Video, CVBS, YPbPr / YCbCr, RGBS, Optional: 3G/HD-SDI
Loop-Throughs [optional]	Loop-Through-Outputs in conjunction with 3G/HD-SDI (optional): 1 x S-Video, 1 x CVBS, 1 x YpbPr/RGBS, 1 x 3G-SDI
Luminance stabilizing	ALS (Automatic Luminance stabilization) with backlight sensor, calibrated to 300 cd / m <sup>2</sup> or 250 cd / m <sup>2</sup> for DICOM preset
OSD control	COMMAND BAR touch control panel with one-touch keys for signal inputs and user profiles
Color illustrations	DICOM, Gamma 1.8, 2.0, 2.2, 2.4, user-specific speed dial button to switch between shared color profiles
Contoller LUT	12-Bit
OSD language	German, English
Configuration interface	Media control via RS 232 commands, GPIO
<b>Equipment</b>	
Protective glass	6.4 mm laminated safety glass front, high-quality anti-reflective coating by chemical Microetching
Housing	Stainless steel 1.4301 and 1.4016
IP Protection	Front IP65 (depending on the installation location)
Potential equalization	ZPA inside (M5x20)
PCAP touch operation [optional]	Project Capacitive Touch Sensor with USB-Controller and RS-232
<b>Power supply</b>	
Power supply	integrated Power supply, AC 100 - 240 V ±10% (50/60 Hz)
DC-Out	5 V max. 3 A, 12 V max. 1 A
Max. Power Consumption	max. 180 VA without PC, max. 210 VA with PC, 3-6 VA Standby
<b>PC-System [optional]</b>	
CPU, Chipset, Graphics	Intel® i5 oder i7 (4rd Gen) / Intel Q87 Express / Intel® HD Graphics, DX11.1
RAM	8 GB (optional 16 GB DDR3)
HDD	500 GB (optional up to 2 TB or as SSD or more HDD)
OS	Microsoft Windows 7, Windows 8 (optional)
Expansion slot	1 x PCIe, 1x Mini-PCIe (optional)
Network (LAN)	1 x Intel i217LM Ethernet Controller 10/100/1000 Mbps, 1 x Intel 210AT Ethernet Controller 10/100/1000 Mbps with iAMT und PXE-Support
Connections	2 x USB 3.0, 6 x USB 2.0 , 2 x Gigabit LAN, 2 x DisplayPort V1.2 (one reserved for internal use), 1 x DVI-I-Out, 5.1 Multichannel Audio, 1 x RS232, 2 x P/S2-In Mouse/Keyboard
<b>Optional features</b>	
Network isolator	4 kV RJ45-Isolator, 1000 MBit/s capable
Input device	DOCTRAY Keyboard & Mouse



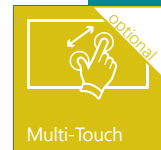
Medical Display



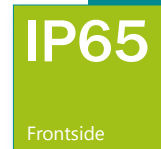
PC module



139 cm diagonal



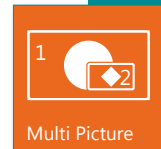
Multi-Touch



Frontside



DICOM



Multi Picture

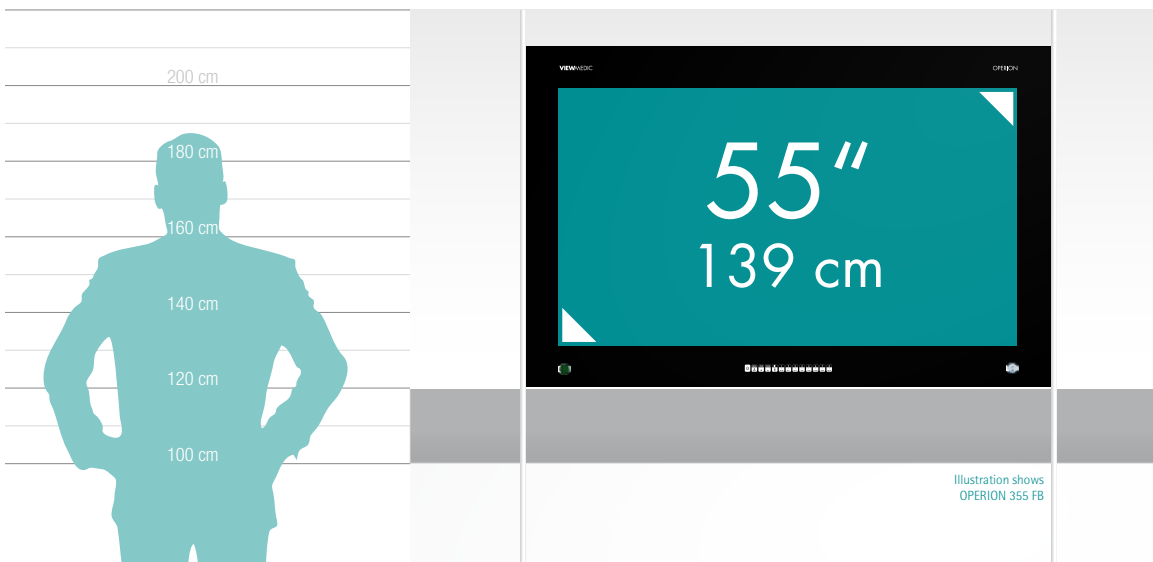
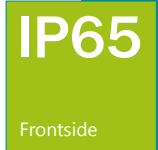
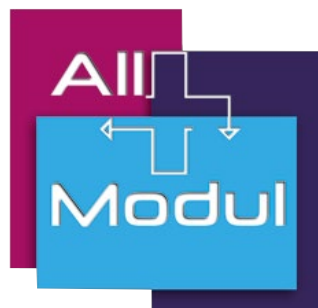


Illustration shows OPERION 355 FB

# VIEWMEDIC OPERION 355 ULTRA

Product type	Medically certified large screen monitor with optional PC-System for wall integration
Areas of application	Built-in OP-walls for displaying medical images such as RIS, HIS, PACS (not reporting), EPA, etc.
Standard and Compliance	DIN EN 60601-1, DIN EN 60601-1-2, Medical Device Class 1
<b>Display Properties</b>	
Display size	138,684 cm (54,6")
Display area	1209.6 (H) x 680.4 (V) mm
Pixel Pitch	0,315 (H) x 0,315 (V) mm
Resolution / aspect ratio	3840 x 2160 / 16:9
Max. panel brightness / Contrast Ratio	LED-Backlight with 450 cd/m <sup>2</sup> / 4000 : 1
Color depth / number of displayable colors	10-Bit / 1,06 Mrd.
Viewing angle	Horizontal: 178° / Vertikal: 178°
Response time	6,5 ms Gray-To-Gray
<b>Controller Properties</b>	
Signal inputs	4 x DVI, 2 x DisplayPort, VGA
Luminance stabilizing	ALS (Automatic Luminance stabilization) with backlight sensor, calibrated to 300 cd / m <sup>2</sup> or 250 cd / m <sup>2</sup> for DICOM preset
OSD control	COMMAND BAR touch control panel with one-touch keys for signal inputs and user profiles
Color illustrations	DICOM, Gamma 1.8, 2.0, 2.2, 2.4, user-specific speed dial button to switch between shared color profiles
Contoller LUT	12-Bit
OSD language	German, English
Configuration interface	Media control via RS 232 commands, GPIO
<b>Equipment</b>	
Protective glass	6.4 mm laminated safety glass front, high-quality anti-reflective coating by chemical Microetching
Housing	Stainless steel 1.4301 and 1.4016
IP Protection	Front IP65 (depending on the installation location)
Potential equalization	ZPA inside (M5x20)
PCAP touch operation [optional]	Project Capacitive Touch Sensor with USB-Controller and RS-232
<b>Power supply</b>	
Power supply	integrated Power supply, AC 100 - 240 V ±10% (50/60 Hz)
DC-Out	5 V max. 3 A, 12 V max. 1 A
Max. Power Consumption	max. 180 VA without PC, max. 210 VA with PC, 3-6 VA Standby
<b>PC-System [optional]</b>	
CPU, Chipset, Graphics	Intel® i5 oder i7 (4rd Gen) / Intel Q87 Express / Intel® HD Graphics, DX11.1
RAM	8 GB (optional 16 GB DDR3)
HDD	500 GB (optional up to 2 TB or as SSD or more HDD)
OS	Microsoft Windows 7, Windows 8 (optional)
Expansion slot	1 x PCIe, 1x Mini-PCIe (optional)
Network (LAN)	1 x Intel i217LM Ethernet Controller 10/100/1000 Mbps, 1 x Intel 210AT Ethernet Controller 10/100/1000 Mbps with iAMT und PXE-Support
Connections	2 x USB 3.0, 6 x USB 2.0 , 2 x Gigabit LAN, 2 x DisplayPort V1.2 (one reserved for internal use), 1 x DVI-I-Out, 5.1 Multichannel Audio, 1 x RS232, 2 x P/S2-In Mouse/Keyboard
<b>Optional features</b>	
Network isolator	4 kV RJ45-Isolator, 1000 MBit/s capable
Input device	DOCTRAY Keyboard & Mouse





All Modul BV  
Damzigt 13  
3454 PS De Meern

T: + 31 (0)30 2040260  
F: + 31 (0)30 2040261  
[www.allmodul.nl](http://www.allmodul.nl)  
[info@allmodul.nl](mailto:info@allmodul.nl)



All Modul BVBA  
Albert Dehemlaan 31  
8900 Ieper

T: + 32 57 22 8181  
F: + 32 57 20 8933  
[www.allmodul.be](http://www.allmodul.be)  
[info@allmodul.be](mailto:info@allmodul.be)



All Modul SARL  
67 Rue de Luxembourg  
F-59777 Euralille

T: + 33 328 501 840  
F: + 33 328 501 774  
[www.allmodul.fr](http://www.allmodul.fr)  
[info@allmodul.fr](mailto:info@allmodul.fr)