# Nio Color 3MP (MDNC-3421CN)

3MP high-bright color display



- Best image quality on the market for 3MP color
- Automated QA and calibration for stable DICOM images
- Fully-tested system solution

Nio® Color 3MP is a 3 megapixel high-bright color display system with LED backlights, providing excellent image quality for confident diagnoses. Its exceptional brightness (calibrated at 500 cd/m2) helps you discern even the tiniest detail - even after many years of use.

## The best 3MP color solution on the market

The new Nio Color 3MP offers the best image quality in the market for a 3MP color solution. Its high brightness and high contrast ratio enable you to unveil even the subtlest details and make accurate diagnoses. With the integrated smart features, you can easily take control and improve your productivity.

SpotView<sup>TM</sup>, for example, allows you to focus on an area of interest to unveil even more details. And with DimView<sup>TM</sup>, any auxiliary displays can be automatically dimmed.

The Nio Color 3MP is also an excellent solution for radiologists who want to angle their desktop: it lets you choose your preferred viewing angle and offers highly ergonomic display configuration.

#### Stable image quality, durable investment

Using Barco's integrated front sensor, the Nio Color 3MP works perfectly with Barco's online MediCal QAWeb solution for automated Quality Assurance and calibration. QAWeb guarantees stable DICOM images throughout the display's lifetime.

Thanks to the high-performance LED backlights, the Nio Color 3MP requires less power, even at higher calibrated luminance. This has a positive impact on both maintenance and operational costs.

BARCO



### Ultimate peace of mind

Barco is the only company that provides complete system solutions, from display and controllers to workflow tools and calibration via QAWeb. All components are covered by our full 5-year warranty.

- High-bright and power-efficient LED backlights
- Accurate grayscale and color rendering
- Front sensor and MediCal QAWeb for easy DICOM conformance
- High-performance 3D rendering with full 3D, OpenGL and DirectX support

Ceneral apecifications         IPS           Screen technology         IPS           Active screen size (disponal)         540 mm (21.57)           Active screen size (disponal)         433 x 325 mm (27.0 x 12.87)           Aspect ratio (H.V)         4.3           Resolution         3444 (7.0 x 12.87)           Resolution         2447 (7.0 x 12.87)           Resolution         2447 (7.0 x 12.87)           Resolution         2447 (7.0 x 12.87)           Optical glass         2447 (7.0 x 12.87)           Wexing angle (H, V)         2417 (7.0 x 12.87)           Vexing angle (H, V)         1047           Optical glass         MDNCS-427 (pation CA) (Yes)           MDNCS-427 (pation CA) (Yes)         MDNCS-427 (pation CA) (Yes)           Mosimum furminance (annel typical)         1000 cd/m <sup>2</sup> DicOdd calibrated luminance         1000 cd/m <sup>2</sup> Mosimum furminance (annel typical)         1000 cd/m <sup>2</sup> Mosimum furminance (annel typical)         1000 cd/m <sup>2</sup> DicOdd calibrated luminance         1000 cd/m <sup>2</sup> Mosimum furminance (annel typical)         1000 cd/m <sup>2</sup> Video input signals         12440 (44.943.54 104.94314           Diver setting         124400 (4.94314           Mosint furminanc	Product specifications	NIO COLOR 3MP (MDNC-3421CN)
Active screen size (bligonal)         540 mm (21.3°)           Active screen size (bligonal)         453 x 325 mm 17.0 x 12.6°)           Aspect ratio (H v)         4.3           Resolution         SMP (2048 x 1536 pixels)           Delaptich         0.215 mm           Color imaging         Yes           Gray imaging         Yes           Optical glass         MDNC 3421 loption CNI: Yes MD	General specifications	
Active screen size (H × V)         453 × 825 mm (E/ 2) × 12 (P)           Aspect ratio (H × V)         453 × 825 mm (E/ 2) × 12 (P)           Aspect ratio (H × V)         453 × 825 mm (E/ 2) × 12 (P)           Resolution         3MP (2048 x 1356 pixels)           Diver ratio (H × V)         4215 mm           Color imaging         Yes           Gay imaging         Yes           Optical glass         MDNC-5421 (option CN). Yes MDNC-5421 (option CN NC). No           Uniformity correction         U.T           Ambiert light presets         Yes, reading room selection           Front sensor         Yes           Contrast arolis (and typical)         1000 cd/m²           DicCode angling         Yes           Contrast arolis (and typical)         1000 cd/m²           DicCode alibrated luminance         500 cd/m²           Contrast arolis (and typical)         1001           Response time ((Tr + Tr)/2) (typical)         15 ms           Housing color         RAL 9003 / RAL 9004           Video input signals         DV-D Duel Link           DisplayFort         SUSB 2.0 downteem           USB ports         ts USB 2.0 downteem           Video input signals         DV-D Cuel Link           Dinensions with stand (W x H x D)         Pover	Screen technology	IPS
Appect ratio (H/V)     4:3       Resolution     3MP (2048 x 1536 pixels)       Pixel pitch     0.2115 mm       Color imaging     Yes       Gray imaging     Yes       Bit depth     30 bit       Viewing angle (H, V)     128*       Optical glass     MDNC-3421 (option CN): Yes       MDNC-3421 (option CN): Yes     MDNC-3421 (option CN): Yes       Missimum fuminance (panel typicat)     LLT       Ambient light presets     Yes, reading room selection       Prot sensor     Yes       Missimum fuminance (panel typicat)     1000 col/m²       DICOM calibrated luminance     500 col/m²       Odie input signals     DMI-D Dual Link       Diversiting     128 2.0 downatream       Over rating     24 VDC @ 4.58A, 5VDC @ 0.5A       Power requirements     20 VI (ominal) < 0.5 W (brannel)       Viewing marked (W X H X D)     20 VI tominal) < 0.5 W (brannel)       Dimensions w/o stand (W X H X D)     20 VI tominal) < 0.5 W (staneby)       Dimensions w/o stand (W X H X D)     20 VI tominal) < 0.5 W (staneby)       Dimensions w/o stand (W X H X D)     20 VI tominal) < 0.5 W (staneby)       Dimensions w/o stand (W X H X D)     20 VI tominal) < 0.5 W (staneby)       Dimensions w/o stand (W X H X D)     20 VI tominal) < 0.5 W (staneby)       Dimensions w/o stand (W X H X D)     20 VI t	Active screen size (diagonal)	540 mm (21.3")
Resolution         SMM (2048 x 1336 pixels)           Pixel pitch         0 2115 mm           Color imging         Yes           Gray imaging         Yes           Bit depth         30 bit           Viewing angle (H, V)         178*           Optical glass         MDNC-5421 (option CN): Yes           MDNC-5421 (option CN): Ves         MDNC-5421 (option CN): No           Uniformity correction         ULT           Ambient light presets         Yes, reading room selection           Front sensor         Yes           Maximum luminance (panel typical)         1000 cd/m²           DICOM adlibrated luminance         500 cd/m²           Contrast ratio (panel typical)         1400-1           Response time (ffr + 171/2) (typical)         15 ms           Housing color         RAL 9003 / RAL 9004           Videe input signals         DVI-D Dual link           DisplayFort         3x USB 2.0 downseam           Power requirements         SUB 2.0 downseam           Power renousumption <td< th=""><th>Active screen size (H x V)</th><th>433 x 325 mm (17.0 x 12.8°)</th></td<>	Active screen size (H x V)	433 x 325 mm (17.0 x 12.8°)
Pixel pitch         0.2115 mm           Color imaging         Yes           Gray imaging         Yes           Bit depth         30 bit           Viewing angle (H, V)         178*           Optical glass         MDNC-3421 (option CN) 'Yes MDNC-3421 (option CN) 'Yes MDNC-3421 (option CN) 'No           Ambient light presets         Yes, reading room selection           Front sensor         Yes           Maximum turninance (panel typical)         1000 cd/m <sup>2</sup> DICOM altbrated luminance         500 cd/m <sup>2</sup> Contrast ratio (panel typical)         1000 rd/m <sup>2</sup> Moxing color         RAL 9003 / RAL 9004           Video input signals         DVi-D DuA Link DisplayPort           Boyser reguirements         This device shull only be powered by the medical approved power supply of Sinpro Electronics, type cPULID 240 A4C, 4 258 A, 5 VDC, 0 5A           Power reguirements         SU Video and XB A4B M M           OW Inominal         	Aspect ratio (H:V)	4:3
Color imagingYesGray imagingYesBit depth30 bitViewing angle (H, V)70°Optical glassMDNC 3421 (option CN) Yes MDNC 3421 (option CN) NOUniformity correctionULTAmbert light presetsYes, reading room safectionFront sensorYesMaximum Liminance (panel typical)1000 cd/m²DICOM calibrated luminance500 cd/m²Contrast ratio (panel typical)1400 1Response time ((Tr + TT)/2) (typical)15 msHousing colorRAL 9003 / RAL 9004Video input signalsDicplayPortUSB ports1x USB 2.0 upstream (endpoint) 3x USB 2.0 downstreamPower requirementsThis device shall only be powered by the medical approved power supply of Sinpro Electronics, type - Output rating 100 -240 VAC, 15-06 A, 47 65 H2 - Output rating 24 VDC (e 458A, 5 VDC, 0.05 APower consumption50 W (fromtal) - < 05 W (fromtal) 	Resolution	3MP (2048 x 1536 pixels)
Gray imaging     Yes       Bit depth     30 bit       Viewing angle (H, V)     178"       Optical glass     MDNC-3421 (option CN): Yes MDNC-3421 (option CN: NC). No       Uniformity correction     ULT       Ambient light presets     Yes, reading room selection       Front sensor     Yes       Maximum luminance (panel typical)     1000 cd/m²       DICOM calibrated luminance     500 cd/m²       Contrast ratio (panel typical)     1400 1       Response time (fTr + Trl/2) (typical)     15 ms       Housing color     RAL 9003 / RAL 9004       Video input signals     DV+D Dual Urk DipalyPort       USB ports     1x USB 2.0 upream (endpoint)       USB Port equirements     This device shall only be powered by the medical approved power supply of Sinpro Electronics, type       Power consumption     20 S W (inominal)       <0 S W (inominal)     0.0 S W (inominal)       <0 S W (inominal)     0.0 S W (inominal)       <0 S W (inominal)     0.0 S W (inominal)       <	Pixel pitch	0.2115 mm
Bid depth     30 bit       Viewing angle (H, V)     178"       Optical glass     MDNC-3421 (option CN: Yes MDNC-3421 (option CN: No       Uniformity correction     ULT       Ambient tight presets     Yes, reading room selection       Front sensor     Yes       Maximu luminance (panel typical)     1000 cd/m²       DICOM calibrated luminance     500 cs/m²       Contrast ratio (panel typical)     1400:1       Response time (IT + 171/2) (typical)     15 ms       Housing color     RAL 9003 / RAL 9004       Video input signals     DVI-D Dual Link DisplayPhat       USB ports     1x USB 2.0 downstream       Power rating     24 VOC a 4.58.4 S VOC (e) 0.5A       Power romsumption     S0 W (norminal) <ol> <li>o.0 sty Whitemate)</li> <li>S0 W (norminal)</li> <li>o.0 S W (hitemate)</li> <li>S0 SW (norminal)</li> <li>o.0 S W (hitemate)</li> <li>S0 SW (stand by)</li> <li>Portat: 378 x 528-628 x 235 mm Landscape: 491 x 378 x 528-728 x 258 mm</li> <li>Dimensions w/o stand (W x H x D)     <li>Portat: 378 x 528-628 x 235 mm Landscape: 491 x 378 x 84 mm</li> <li>Dimensions packaged (W x H x D)     <li>S00 x 280 x 670 mm</li> <li>Net weight w/o stand</li> <li>MDNC-3421 (option CN): 15 kg (without accessories)</li> </li></li></ol>	Color imaging	Yes
Vewing angle (H. V)         175 <sup>4</sup> Optical glass         MDNC-3421. (option C.N.): Yes MDNC-3421. (option C.N.): No           Uniformity correction         ULT           Ambient light presets         Yes, reading room selection           Front sensor         Yes           Maximum luminance (panel typical)         1000 cd/m²           DICOM calibrated luminance         500 cd/m²           Contrast ratio (panel typical)         1400:1           Response time ((Tr + TF)/2) (typical)         15 ms           Housing color         RAL 9003 / RAL 9004           Video input signals         DVHD Dual Link DisplayPort           USB ports         X USB 2.0 updream (endpoint) 3x USB 2.0 downstream           Power rating         24 VDC 0 4.458.4 S VDC 0 0.5A           Power rousing         24 VDC 0 4.458.4 S VDC 0 0.5 A           Power consumption         S0 W (inominal) <0.5 W (hibermate) <0.5 W (stand (W x H x D)           Dimensions w/o stand (W x H x D)         S00 x 280 x 670 mm           Net weight with stand         MDNC-3421 (option C.N): 15 kg MDNC-3421 (option C.N): 15 kg MDNC-3421 (option C.N): 12 kg (without accressories)           Net	Gray imaging	Yes
Optical glass         MDNC-3421 (option CN): Yes MDNC-3421 (option CN NC): No           Uniformity correction         ULT           Ambient light presets         Yes, reading room selection           Front sensor         Yes           Maximum luminance (panel typical)         1000 cd/m²           DICOM calibrated luminance         500 cd/m²           Contrast ratio (panel typical)         1000 cd/m²           DICOM calibrated luminance         500 cd/m²           Contrast ratio (panel typical)         1400 1           Response time (Tr + T0/2) (typical)         15 ms           Housing color         RAL 9003 / RAL 9004           Video input signals         DVI-D Dual Link DisplayPort           USB 2.0 downstream         Sx USB 2.0 downstream           Power rating         24 VDC: @ 4.58A, 5 VDC: @ 0.5A           Power requirements         This device shall only be powered by the medical approved power supply of Sinpro Electronics, type CPUID-201 Ratings marked on the medical power supply: of Sinpro Electronics, type CPUID-201 Ratings marked on the medical power supply: of Sinpro Electronics, type CPUID-201 Ratings marked on the medical power supply: of Sinpro Electronics, type CPUID-201 Ratings the Alt S A M m           - output rating: 24 VDC: 4.58A, 5 VDC: 0.5 A           Power requirements         50 W (nominal)           - 0.5 W (internate)           - 0.5 W (internate)	Bit depth	30 bit
MDNC-3421 (option CN NC): No           Uniformity correction         ULT           Ambient light presets         Yes, reading room selection           Front sensor         Yes           Maximum luminance (panel typical)         1000 cd/m <sup>2</sup> DICOM calibrated luminance         500 cd/m <sup>2</sup> Contrast ratio (panel typical)         1400 1           Response time (Tr + T0/2) (typical)         15 ms           Housing color         RAL 9003 / RAL 9004           Video input signals         DivsipalyPort           USB ports         1x USB 2.0 downstream           Power rating         24 VDC; e 4.56A, 5 VDC; e 0.5A           Power requirements         This device shall only be powered by the medical approved power supply of Sinpro Electronics, type CPUID-201 Ratings marked on the medical power supply: of Sinpro Electronics, type CPUID-201 Ratings marked on the medical power supply: of Sinpro Electronics, type CPUID-201 Ratings marked on the medical power supply: of Sinpro Electronics, type CPUID-201 Ratings the VDC; 4.58 A, 5 VDC; 0.5 A           Power consumption         S0 W (nominal) < 0.5 W (Internate)	Viewing angle (H, V)	178°
Ambient (ight presets         Yes, reading room selection           Front sensor         Yes           Maximum luminance (panel typical)         1000 cd/m <sup>2</sup> DICOM calibrated luminance         500 cd/m <sup>2</sup> Contrast ratio (panel typical)         1400:1           Response time (Tr + T0/2) (typical)         15 ms           Housing color         RAL 9003 / RAL 9004           Video input signals         DVI-D Dual Link DisplayPort           USB ports         X USB 2.0 upstream (endpoint) 3x USB 2.0 downstream           Power rating         24 VDC @ 4.58A.5 VDC @ 0.5A           Power requirements         Churt rating: 100-240 VAC, 15-0.6 A, 47-65 H/2 - Uptur traing: 100-240 VAC, 15-0.6 A, 47-65 H/2 - Otyput rating: 24 VDC, @ 4.58A.5 VDC, @ 0.5A           Power consumption         50 W (nominal) < 0.5 W (hoemnate) < 0.5 W (hoemnate) < 0.5 W (standby)           >0 SU W nominal)         < 0.5 W (standby)           < 0.5 W (internate) < 0.5 W (standby)         < 0.5 W (standby)           Dimensions with stand (W x H x D)         Portrait: 378 x 528-628 x 235 mm Landscape: 491 x 378 x 64 mm           Dimensions packaged (W x H x D)         500 x 280 x 670 mm           Net weight with stand         MDNC-3421 (option CN): 11.5 kg MDNC-3421 (option CN): 15.5 kg           Net weight with stand         MDNC-3421 (option CN): 15.5 kg           MDNC-3421 (option CN): 15	Optical glass	
Front sensor       Yes         Maximum luminance (panel typical)       1000 cd/m²         DICOM calibrated luminance       500 cd/m²         Contrast ratio (panel typical)       1400.1         Response time (Tr + Tfl/2) (typical)       15 ms         Housing color       RAL 9003 / RAL 9004         Video input signals       DVI-D Dual Link DisplayPort         USB ports       Ix USB 2.0 upstream (endpoint) 3x USB 2.0 downstream         Power rating       24 VDC @ 4.58A, 5 VDC @ 0.5A         Power requirements       This device shall only be powered by the medical approved power supply of Sinpro Electronics, type CPUID-201 Ratings marked on the medical approved power supply of Sinpro Electronics, type CPUID-201 Ratings marked on the medical approved power supply of Sinpro Electronics, type CPUID-201 Ratings marked on the medical approved power supply of Sinpro Electronics, type CPUID-201 Ratings marked on the medical approved power supply of Sinpro Electronics, type CPUID-201 Ratings marked on the medical approved power supply of Sinpro Electronics, type CPUID-201 Ratings marked on the medical approved power supply of Sinpro Electronics, type CPUID-201 Ratings marked on the medical approved power supply of Sinpro Electronics, type CPUID-201 Ratings marked on the medical approved power supply of Sinpro Electronics, type CPUID-201 Ratings marked on the medical approved power supply of Sinpro Electronics, type CPUID-201 Ratings marked on the medical approved power supply of Sinpro Electronics, type CPUID-201 Ratings marked on the medical approved power supply of Sinpro Electronics, type CPUID-201 Ratings marked on the medical approved power supply of Sinpro Electronics,	Uniformity correction	ULT
Maximum luminance (panel typical)1000 cd/m²DICOM calibrated luminance500 cd/m²Contrast ratio (panel typical)1400 1Response time (ITr + Tf)/2) (typical)15 msHousing colorRAL 9003 / RAL 9004Video input signalsDVI-D Dual Link DisplayPortUSB ports1x USB 2.0 upstream (endpoint) 3x USB 2.0 downstreamPower rating24 VDC (e.4.58A, 5 VDC (e.0.5APower requirementsThis device shall only be powered by the medical approved power supply of Sinpro Electronics, type CPUID-201 Ratings marked on the medical approved power supply of Sinpro Electronics, type CPUID-201 Ratings marked on the medical approved power supply of Sinpro Electronics, type c OLPUID-201 Ratings marked on the medical approved power supply of Sinpro Electronics, type c OLPUID-201 Ratings marked on the medical approved power supply of Sinpro Electronics, type c OLPUID-201 Ratings marked on the medical approved power supply of Sinpro Electronics, type c OLPUID-201 Ratings marked on the medical approved power supply of Sinpro Electronics, type c OLPUID-201 Ratings marked on the medical approved power supply of Sinpro Electronics, type c OLPUID-201 Ratings marked on the medical approved power supply of Sinpro Electronics, type c OLPUID-201 Ratings marked on the medical approved power supply of Sinpro Electronics, type c OLPUID-201 Ratings marked on the medical approved power supply of Sinpro Electronics, type c OLPUID-201 Ratings marked on the medical approved power supply of Sinpro Electronics, type c OLPUID-201 Ratings marked on the medical approved power supply of Sinpro Electronics, type consumptionDimensions with stand (W x H x D)Portrait. 378 x 528-628 x 235 mm Landscape: 491 x 472-572 x 235 mm Landscape: 491 x 378 x 84 mm La	Ambient light presets	Yes, reading room selection
DICOM calibrated luminance       500 cd/m²         Contrast ratio (panel typical)       1400.1         Response time ((Tr + T0/2) (typical)       15 ms         Housing color       RAL 9003 / RAL 9004         Video input signals       DVI-D Dual Link DisplayPort         USB ports       1x USB 2.0 downstream         Power rating       24 VDC (e. 4.58A, 5 VDC (e. 0.5A         Power requirements       This device shall only be powered by the medical approved power supply of Sinpro Electronics, type CPUID-201 Ratings marked on the medical approved power supply of Sinpro Electronics, type CPUID-201 Ratings marked on the medical observe supply (int rating: 100-204 VAC, 15-0 6 A, 47-63 HZ         Power consumption       50 W (nominal) < 0.5 W (hibernate)         S0 W (standby)       Dimensions with stand (W x H x D)         Dimensions with stand (W x H x D)       Portrait: 378 x 528-628 x 235 mm Landscape: 491 x 472-572 x 235 mm         Dimensions packaged (W x H x D)       500 x 280 x 670 mm         Net weight with stand       MDNC-3421 (option CN): 11.5 kg MDNC-3421 (option CN): 10.2 kg         Net weight with stand       MDNC-3421 (option CN): 10.2 kg         Net weight packaged       MDNC-3421 (option CN): 15.6 kg (without accessories) MDNC-3421 (option CN): 15.6 kg (without accessories)	Front sensor	Yes
Contrast ratio (panel typical)1400.1Response time ((Tr + Ti)/2) (typical)15 msHousing colorRAL 9003 / RAL 9004Video input signalsDV-D Dual Link DisplayPortUSB ports1x USB 2.0 upstream (endpoint) 3x USB 2.0 downstreamPower rating24 VDC @ 4.58A, 5 VDC @ 0.5APower requirementsCPU110-201 Ratings marked on the medical approved power supply of Sinpro Electronics, type CPU110-201 Ratings marked on the medical power supply: • Input rating: 100-240 VAC, 15-0.6 A, 47-63 HZ • Output rating: 24 VDC (a 58A, 5 VDC, @ 0.5APower consumption<0.5 W (nominal) < 0.5 W (standby)	Maximum luminance (panel typical)	1000 cd/m <sup>2</sup>
Response time (Tr + Ti/2) (typical)15 msHousing colorRAL 9003 / RAL 9004Video input signalsDVI-D Dual Link DisplayPortUSB ports1x USB 2.0 upstream (endpoint) 3x USB 2.0 downstreamPower rating24 VDC @ 4.58A, 5 VDC @ 0.5APower requirementsCPU110-201 Ratings marked on the medical approved power supply of Sinpro Electronics, type CPU110-201 Rating: 100-240 VAC, 1.5-0.6 A, 47-63 HZ • Output rating: 24 VDC, 4.58 A, 5 VDC, 0.5 APower consumptionS0 W (nominal) < 0.5 W (hibernate) < 0.5 W (ktandby)	DICOM calibrated luminance	500 cd/m <sup>2</sup>
Housing colorRAL 9003 / RAL 9004Video input signalsDVI-D Dual Link DisplayPortUSB ports1x USB 2.0 upstream (endpoint) 3x USB 2.0 downstreamPower rating24 VDC @ 4.58A, 5 VDC @ 0.5APower requirementsThis device shall only be powered by the medical approved power supply of Sinpro Electronics, type - UP10-201 Braings marked on the medical power supply: <ul><li>Input rating: 100-240 VAC, 15-0 6 A, 47-63 HZ</li><li>Output rating: 24 VDC, 4.58 A, 5 VDC, 0.5 A</li></ul> Power consumption50 W (nominal) < 0.5 W (hibernate) < 0.5 W (standby)Dimensions with stand (W x H x D)Portrait: 378 x 528-628 x 235 mm Landscape: 491 x 472-572 x 235 mmDimensions packaged (W x H x D)500 x 280 x 670 mmNet weight with standMDNC-3421 (option CN): 11.5 kg MDNC-3421 (option CN): 0.5 kgNet weight w/o standMDNC-3421 (option CN): 0.5 kg MDNC-3421 (option CN): 0.5 kg (without accessories)Net weight packagedMDNC-3421 (option CN): 15.6 kg (without accessories)	Contrast ratio (panel typical)	1400:1
Video input signals       DVI-D Dual Link DisplayPort         USB ports       1x USB 2.0 upstream (endpoint) 3x USB 2.0 downstream         Power rating       24 VDC @ 4.58A, 5 VDC @ 0.5A         Power requirements       This device shall only be powered by the medical approved power supply of Sinpro Electronics, type CPUID-201 Ratings marked on the medical power supply. <ul> <li>Input rating: 100-240 VAC, 1506 A, 47-63 HZ</li> <li>Output rating: 24 VDC, 4.58 A; 5 VDC, 0.5 A</li> </ul> Power consumption       50 W (nominal) < 0.5 W (standby)         Dimensions with stand (W x H x D)       Portrait: 378 x 528-628 x 235 mm Landscape: 491 x 472-572 x 235 mm         Dimensions w/o stand (W x H x D)       Portrait: 378 x 491 x 84 mm Landscape: 491 x 378 x 84 mm         Dimensions packaged (W x H x D)       500 x 280 x 670 mm         Net weight w/o stand       MDNC-3421 (option CN): 11.5 kg MDNC-3421 (option CN): 10.2 kg         Net weight w/o stand       MDNC-3421 (option CN): 16.5 kg MDNC-3421 (option CN): 16.5 kg (without accessories) MDNC-3421 (option CN NC): 52. kg	Response time ((Tr + Tf)/2) (typical)	15 ms
DisplayPortUSB ports1x USB 2.0 upstream (endpoint) 3x USB 2.0 downstreamPower rating24 VDC @ 4.58A, 5 VDC @ 0.5APower requirementsThis device shall only be powered by the medical approved power supply of Sinpro Electronics, type CPUI10-201 Ratings marked on the medical power supply: • Input rating: 100-240 VAC, 15–0.6A, 47-63 HZ • Output rating: 24 VDC, 4.58 A; 5 VDC, 0.5 APower consumption50 W (nominal) < 0.5 W (hibernate) < 0.5 W (tiandby)Dimensions with stand (W x H x D)Portrait: 378 x 528-628 x 235 mm Landscape: 491 x 472-572 x 235 mmDimensions packaged (W x H x D)500 x 280 x 670 mmNet weight with standMDNC-3421 (option CN): 11.5 kg MDNC-3421 (option CN): 10.2 kgNet weight wi/o standMDNC-3421 (option CN): 6.5 kg MDNC-3421 (option CN): 5.2 kgNet weight packagedMDNC-3421 (option CN): 6.5 kg MDNC-3421 (option CN): 5.2 kg	Housing color	RAL 9003 / RAL 9004
Action3k USB 2.0 downstreamPower rating24 VDC @ 4.58A, 5 VDC @ 0.5APower requirementsThis device shall only be powered by the medical approved power supply of Sinpro Electronics, type CPU110-201 Ratings marked on the medical power supply. • Input rating: 100-240 VAC, 1.50.6 A, 47-63 HZ • Output rating: 24 VDC, 4.58 A, 5 VDC, 0.5 APower consumption50 W (nominal) < 0.5 W (hibernate) < 0.5 W (standby)	Video input signals	
Power requirements       This device shall only be powered by the medical approved power supply of Sinpro Electronics, type CPU110-201 Ratings marked on the medical power supply: <ul> <li>Input rating: 100-240 VAC, 15-0.6 A, 47-63 HZ</li> <li>Output rating: 24 VDC, 4.58 A; 5 VDC, 0.5 A</li> </ul> <li>Power consumption</li> <li>50 W (nominal)         <ul> <li>0.5 W (hibernate)</li> <li>0.5 W (standby)</li> </ul> </li> <li>Dimensions with stand (W x H x D)</li> <li>Portrait: 378 x 528-628 x 235 mm             Landscape: 491 x 472-572 x 235 mm             Landscape: 491 x 378 x 84 mm             Landscape: 491 x 0  <li>S00 x 280 x 670 mm         <ul> <li>Net weight with stand</li> <li>MDNC-3421 (option CN): 11.5 kg             MDNC-3421 (option CN): 0.2 kg</li> <li>Net weight packaged</li> <li>MDNC-3421 (option CN): 15.6 kg             MDNC-3421 (option CN): 0.2 kg         </li> </ul> </li> </li>	USB ports	
CPU110-201 Ratings marked on the medical power supply:       Input rating: 100–240 VAC, 1.5–0.6 A, 47-63 HZ         Power consumption       50 W (nominal)         < 0.5 W (hibernate)       < 0.5 W (standby)         Dimensions with stand (W x H x D)       Portrait: 378 x 528–628 x 235 mm         Landscape: 491 x 472–572 x 235 mm       Landscape: 491 x 472–572 x 235 mm         Dimensions w/o stand (W x H x D)       Portrait: 378 x 491 x 84 mm         Landscape: 491 x 378 x 84 mm       Landscape: 491 x 378 x 84 mm         Landscape: 491 x 378 x 84 mm       Landscape: 491 x 378 x 84 mm         Dimensions packaged (W x H x D)       500 x 280 x 670 mm         Net weight with stand       MDNC-3421 (option CN): 11.5 kg         MDNC-3421 (option CN NC): 10.2 kg       MDNC-3421 (option CN NC): 10.2 kg         Net weight w/o stand       MDNC-3421 (option CN NC): 10.2 kg         Net weight packaged       MDNC-3421 (option CN NC): 10.2 kg	Power rating	24 VDC @ 4.58A, 5 VDC @ 0.5A
< 0.5 W (hibernate) < 0.5 W (standby)	Power requirements	<ul> <li>CPU110-201 Ratings marked on the medical power supply:</li> <li>Input rating: 100–240 VAC, 1.5–0.6 A, 47-63 HZ</li> </ul>
Landscape: 491 x 472~572 x 235 mmDimensions w/o stand (W x H x D)Portrait: 378 x 491 x 84 mm Landscape: 491 x 378 x 84 mmDimensions packaged (W x H x D)500 x 280 x 670 mmNet weight with standMDNC-3421 (option CN): 11.5 kg MDNC-3421 (option CN NC): 10.2 kgNet weight w/o standMDNC-3421 (option CN): 6.5 kg MDNC-3421 (option CN NC): 5.2 kgNet weight packagedMDNC-3421 (option CN): 15.6 kg (without accessories) 	Power consumption	< 0.5 W (hibernate)
Landscape: 491 x 378 x 84 mm         Dimensions packaged (W x H x D)       500 x 280 x 670 mm         Net weight with stand       MDNC-3421 (option CN): 11.5 kg MDNC-3421 (option CN NC): 10.2 kg         Net weight w/o stand       MDNC-3421 (option CN): 6.5 kg MDNC-3421 (option CN NC): 5.2 kg         Net weight packaged       MDNC-3421 (option CN): 15.6 kg (without accessories) MDNC-3421 (option CN): 15.6 kg (without accessories)         Net weight packaged       MDNC-3421 (option CN): 14.3 kg (without accessories)	Dimensions with stand (W x H x D)	
Net weight with stand       MDNC-3421 (option CN): 11.5 kg MDNC-3421 (option CN NC): 10.2 kg         Net weight w/o stand       MDNC-3421 (option CN): 6.5 kg MDNC-3421 (option CN NC): 5.2 kg         Net weight packaged       MDNC-3421 (option CN): 15.6 kg (without accessories) MDNC-3421 (option CN): 15.6 kg (without accessories) MDNC-3421 (option CN NC): 14.3 kg (without accessories)	Dimensions w/o stand (W x H x D)	
MDNC-3421 (option CN NC): 10.2 kg         Net weight w/o stand       MDNC-3421 (option CN): 6.5 kg MDNC-3421 (option CN NC): 5.2 kg         Net weight packaged       MDNC-3421 (option CN): 15.6 kg (without accessories) MDNC-3421 (option CN NC): 14.3 kg (without accessories)	Dimensions packaged (W x H x D)	500 x 280 x 670 mm
MDNC-3421 (option CN NC): 5.2 kg       Net weight packaged     MDNC-3421 (option CN): 15.6 kg (without accessories) MDNC-3421 (option CN NC): 14.3 kg (without accessories)	Net weight with stand	
MDNC-3421 (option CN NC): 14.3 kg (without accessories)	Net weight w/o stand	
Tilt         -10° to +30°	Net weight packaged	
	Tilt	-10° to +30°

Product specifications	NIO COLOR 3MP (MDNC-3421CN)
Swivel	-45° to +45°
Pivot	90°
Height adjustment range	100 mm
Mounting standard	VESA (100 mm)
Screen protection	MDNC-3421 (option CN): Protective, anti-reflective glass cover MDNC-3421 (option CN NC): N/A
Recommended modalities	All digital images, except digital mammography
Certifications	CCC GB92542008+ GB4943.12011+ GB17625.12003 China RoHS
Supplied accessories	User guide Documentation disc System disc Video cable (1 x DisplayPort) Mains cable (Chinese (CCC)) USB 2.0 cable External power supply
Optional accessories	Graphics board
QA software	MediCal QAWeb
Warranty	5 years, including 35000 hrs backlight warranty
Operating temperature	0 °C to 40 °C (15 °C to 35 °C within specs)
Storage temperature	-20 °C to 60 °C
Operating humidity	8% to 80% (non-condensing)
Storage humidity	5% to 85% (non-condensing)
Operating pressure	70 kPa minimum
Storage pressure	50 to 106 kPa

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