Certificate

Standard **ISO 9001:2015**

Certificate Registr. No. 01 100 080127/01

Certificate Holder: OLYMPUS

Olympus Europa SE & Co. KG
Wendenstr. 14-18
D - 20097 Hamburg

Scope: Marketing, sales and servicing of optical, opto-digital, electronic and mechanical systems as well as associated accessories and consumables in the field of imaging and audio products, endoscopy, microscopy and industry

Proof has been furnished by means of an audit that the requirements of ISO 9001:2015 are met.

Validity: The certificate is valid in conjunction with the main certificate from 2017-07-16 until 2020-07-15.

Digitally signed by Grabazei Alexandru
Date: 2019.04.01 19:38:00 EEST
Reason: MoldSign Signature
Location: Moldova

2017-06-30

TÜV Rheinland Cert GmbH
Am Grauen Stein · 51105 Köln

www.tuv.com

DAkkS Deutsche Akkreditierungsstelle D-ZM-16031-01-00

TÜVRheinland®
Precisely Right.

EC Certificate

Directive 93/42/EEC Annex II, excluding Section 4
Full Quality Assurance System
Medical Devices

Registration No.: HD 60123878 0001

Report No.: 12018179 022

Manufacturer:
OLYMPUS MEDICAL SYSTEMS CORP.
2951 Ishikawa-cho,
Hachioji-shi, Tokyo 192-8507
Japan

Products:
Design and Development, Manufacture of Medical Endoscopy Systems, Diagnostic, Operation and Treatment Products

(see attachments for products and additional sites included)

Replaces Approval, Registration No.: HD 60078827 0001

Expiry Date: 2022-11-02

The Notified Body hereby declares that the requirements of Annex II, excluding section 4 of the directive 93/42/EEC have been met for the listed products. The above named manufacturer has established and applies a quality assurance system, which is subject to periodic surveillance, defined by Annex II, section 5 of the aforementioned directive. For placing on the market of class III devices covered by this certificate an EC design-examination certificate according to Annex II, section 4 is required.

Effective Date: 2017-11-03

Date: 2017-10-12

Notified Body

M.Sc. M. Aihara

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

TÜV Rheinland LGA Products GmbH is a Notified Body according to Directive 93/42/EEC concerning medical devices with the identification number 0197.

TÜVRheinland

Doc. 1/1, Rev.0

TÜV Rheinland
LGA Products GmbH
Tillystraße 2, 90431 Nürnberg

Attachment to Certificate
Registration No.: HD 60123878 0001
Report No.: 12018179 022

Manufacturer: OLYMPUS MEDICAL SYSTEMS CORP.
2951 Ishikawa-cho,
Hachioji-shi, Tokyo 192-8507
Japan

Products included:

Medical Endoscopy Systems:
-Endoscopes
-Endotherapy Devices
-Imaging Processors
-Pumps for Endoscopy
-Light Sources
-Position Detecting Units
-Electrothermal Cautery Units
-Integrated Endosurgery Systems
-Endoscopic Regulation/Control Units
Electrosurgical Equipment
Probes and Transducers for Ultrasonic Lithotriptors
Laparoscopic Insufflators
Ultrasound Surgical Equipment
Disinfecting Units
Capsule Endoscopes and Systems
Ultrasound Diagnostic Imaging Systems

TÜV Rheinland LGA Products GmbH TÜVRheinland Zertifizierungsstelle

Notified Body

Date: 2017-10-12

M.Sc. M. Aihara

Traducere din limba engleza

TÜVRheinland®

APROBARE

Directiva CE 93/42/CEE Anexa II, excluzând Secţiunea 4
Sistem complet de asigurare a calităţii
Echipamente medicale

Nr. Înregistrare: HD 60123878 0001
Nr. Raport: 12018179 022

Producător: **Olympus Medical Systems Corp.**
2951 Ishikawa-cho
HACHIOJI-SHI, TOKIO 192-8507
JAPONIA

Produse: Proiectare şi dezvoltare, producţie de sisteme de endoscopie medicală, produse de diagnostic, operaţie şi tratament.
(a se vedea atasamentele pentru produse si locatii suplimentare incluse)
Înlocuieşte Aprobarea cu nr. de înregistrare: HD 60078827 0001

Data expirarii: 02.11.2022

Organismul Notificat declară prin prezenta că au fost îndeplinite cerinţele Anexei II, excluzând secţiunea 4 a directivei 93/42/CEE pentru produsele specificate. Producătorul mai sus menţionat a stabilit şi aplică un sistem de asigurare a calităţii, care este supus unei supravegheri periodice, definită în Anexa II, secţiunea 5 a directivei menţionate anterior. Pentru comercializarea echipamentelor din clasa III acoperite de acest certificat, este necesar un certificat CE de examinare proiectare în conformitate du Anexa II, secţiunea 4.

Organism notificat
Ştampilă:
TUV Rheinland LGA Products GmbH
Zertifizierungsstelle
M.Sc. M. Aihara
(semnătură indescifrabilă)

Data intrării în vigoare: 03-11-2017

Data. 12.10.2017

TÜVRheinland

Doc. 1/1 Rev. 0

TÜV Rheinland
LGA Products GmbH
Tillystraße 2, 90431 Nürnberg

Atasament la
Certificat
Nr. de inregistrare: HD 60123878 0001
Nr. raport: 12018179 022

Producător: **Olympus Medical Systems Corp.**
2951 Ishikawa-cho
HACHIOJI-SHI, TOKIO 192-8507
JAPONIA

Produse incluse:
- Sisteme medicale de endoscopie:
  - -Endoscoape
  - -Echipamente endoterapie
  - -Procesoare de imagine
  - -Pompe pentru endoscopie
  - -Surse de lumină
  - -Unităţi de detectare poziţie
  - -Unităţi de cauterizare electrotermică
  - -Sisteme endochirurgicale integrate
  - - Unitati de control/reglare endoscopice
- Echipamente electrochirurgicale
- Sonde şi traductoare pentru litotriptoare cu ultrasunete
- Insuflatoare laparoscopice
- Echipamente chirurgicale cu ultrasunete
- Unitati de sterilizare
- Sisteme şi endoscoape capsulă
- Sisteme de imagistica pentru diagnostic cu ultrasunete

Organism notificat
Ştampilă:
TUV Rheinland LGA Products GmbH
Zertifizierungsstelle
M.Sc. M. Aihara
(semnătură indescifrabilă)

Data: 12.10.2012

ROMÂNIA
MINISTERUL JUSTIŢIEI
MINA FANEA-IVANOVICI
TRADUCĂTOR AUTORIZAT
ENGLEZĂ - FRANCEZĂ
AUT. NR. 22059
TEL.: 0745471452

EC Certificate

Directive 93/42/EEC Annex V
Production Quality Assurance
Medical Devices

Registration No.: DD 60123877 0001

Report No.: 12018179 022

Manufacturer: OLYMPUS MEDICAL SYSTEMS CORP.
2951 Ishikawa-cho,
Hachioji-shi, Tokyo 192-8507
Japan

Products: Sterile Endotherapy Devices used in conjunction with Endoscopes, Sterile Non Active Instruments used in conjunction with Endoscopes and Sterile Non Active Instruments used in conjunction with Medical Ultrasound Diagnostic Imaging Systems
Replaces Approval, Registration No.: DD 60116725 0001

Expiry Date: 2022-11-02

The Notified Body hereby declares that the requirements of Annex V of the directive 93/42/EEC have been met for the listed products. The above named manufacturer has established and applies a quality assurance system, which is subject to periodic surveillance, defined by Annex V, section 4 of the aforementioned directive. For placing on the market of class IIb and class III devices covered by this certificate an EC type-examination certificate according to Annex III is required.

Effective Date: 2017-11-03

Date: 2017-10-12

Notified Body

M.Sc. M. Aihara

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

TÜV Rheinland LGA Products GmbH is a Notified Body according to Directive 93/42/EEC concerning medical devices with the identification number 0197.

Traducere din limba engleza

TÜVRheinland

CERTIFICAT CE
Directiva CE 93/42/CEE Anexa V
Asigurarea calităţii producţiei
Echipamente medicale

Nr. Înregistrare: DD 60123877 0001
Nr. Raport: 12018179 022

Producător: **Olympus Medical Systems Corp.**
2951 Ishikawa-cho
HACHIOJI-SHI, TOKIO 192-8507
JAPONIA

Produse: Echipamentelor sterile pentru endoterapie, utilizate împreuna cu endoscoape, instrumente sterile non-active utilizate împreună cu endoscoape şi instrumente sterile non-active utilizate împreună cu sisteme medicale de imagistică diagnostic cu ultrasunete.
Înlocuieşte Aprobarea. nr. înregistrare: DD 60116725 0001

Data expirarii: 02.11.2022

Organismul Notificat declară prin prezenta că au fost îndeplinite cerinţele Anexei V a directivei 93/42/CEE pentru produsele specificate. Producătorul mai sus menţionat a stabilit şi aplică un sistem de asigurare a calităţii, care este supus unei supravegheri periodice, definită în Anexa V, secţiunea 4 a directivei menţionate anterior. Pentru comercializarea echipamentelor din clasa IIb şi clasa III acoperite de acest certificat, este necesar un certificat CE de examinare tip în conformitate du Anexa III.

Data intrării în vigoare: 03-11-2017

Data: 12.10.2017

Organism notificat
Ştampilă:
TÜV Rheinland LGA Products GmbH
Zertifizierungsstelle
M.Sc. M. Aihara
(semnătură indescifrabilă)

OLYMPUS

Your Vision, Our Future

Optera

CV-170

Combination of HDTV and NBI is now available with an LED light source in one design

CV-170

Main features

- HDTV imaging capability provides the best possible image quality for endoscopes, enabling the observation of capillaries, mucosal structures and other patterns.
- NBI (Narrow Band Imaging) enhances the visibility of capillaries and other structures on the mucosal surface.
- Newly adopted long-life LED light sources minimise lamp replacement, while reducing energy and noise.
- The pre-freeze function selects the clearest still image automatically. It may help to save time and eliminate the physician's frustration.
- Two types of structure enhancement are available – in general, the conventional Type A is ideal for observation of larger mucosal tissues with high contrast in the lower gastrointestinal tract, while the new Type B is suitable for observation of vascular tissues in the upper gastrointestinal tract.
- Compatible portable memory (MAJ-1925) is the standard for data management. Simply connect and upload.
- Compatible with EVIS 100/130/140 series, Actera 150 series, EVIS EXERA 160 series, EVIS EXERA II 180 series and GI/BF/VISERA series scopes.
  **Please note that there are some exceptions.*
- 16:9 and 16:10 output for an HDTV monitor is available. Compatible with analogue, HD-SDI and DVI output.

Specifications

Power supply	Voltage	100–240 V AC (NTSC)/220–240 V AC (PAL); within ±10%
	Frequency	50/60 Hz; within ±1 Hz
	Rated input	200 VA
Size	Dimensions (W × H × D)	295 × 145 × 425 mm
	Weight	11 kg
Classification (medical electrical equipment)	Type of protection against electric shock	Class I
	Degree of protection against electric shock of applied part	Depends on applied part. Also refer to applied part (camera head or videoscope).
	Degree of protection against explosion	The video system centre should be kept away from flammable gases.
Observation	Examination lamp	LED lamp
	Analogue HDTV signal output	Either RGB (1080/60I: NTSC)/(1080/50I: PAL) or YPbPr (1080/60I: NTSC)/(1080/50I: PAL) output can be selected.
	Analogue SDTV signal output	VBS composite (480/60I: NTSC)/(576/50I: PAL), Y/C (480/60I: NTSC)/(576/50I: PAL) and RGB (480/60I: NTSC)/(576/50I: PAL); simultaneous outputs possible.
	Digital signal output	HD-SDI (SMTPE 292M), SD-SDI (SMPTE 259M) and DVI (WUXGA, 1080p or SXGA) can be selected.
	White balance adjustment	White balance adjustment is possible using the white balance button on the front panel.
	Standard colour chart output	The "Colour bar" or the "50% white" screen can be displayed.
	Colour tone adjustment	The following colour tone adjustments are possible: · red adjustment: ±8 steps · blue adjustment: ±8 steps · chroma adjustment: ±8 steps
	Automatic gain control (AGC)	The image can be electronically amplified when the light is inadequate due to the distal end of the endoscope being too far from the object.
	Contrast	The image contrast can be set to one of the following three modes (N, H, L): · N (Normal): normal image · H (High): the dark areas are darker and the bright areas are brighter than in the normal image. · L (Low): the dark areas are brighter and the bright areas are darker than in the normal image.
	Noise reduction	Noise is corrected by image processing.
	Iris	The auto iris modes can be selected using the "iris mode" switch on the front panel. · peak: the brightness is adjusted based on the brightest part of the endoscopic image. · average: the brightness is adjusted based on the average brightness of the endoscopic image.
	Image enhancement setting	Fine patterns or edges in the endoscopic images can be enhanced electrically to increase the image sharpness. Either the structural enhancement or edge enhancement can be selected according to the user set-up. · structural enhancement: enhancement of contrast of the fine patterns in the image. · edge enhancement: enhancement of edges of the endoscopic image.
	Switching the enhancement modes	The enhancement level can be selected from 3 levels (1, 2 and 3).
	Image size selection	The size of the endoscopic image can be changed using the "IMAGE SIZE" key on the keyboard.
	Freeze	An endoscopic image is frozen using an endoscope or the "FREEZE" key on the keyboard.
	Pre-freeze	The image with the least blur is selected from the images captured in the set time period before the freeze operation and displayed.
	NBI observation	This is one of the optical-digital observation modes using the narrow band observation light.
	Reset to defaults	The following settings can be reset to their defaults: · colour tone · iris mode · image enhancement mode · image size · contrast · freeze · release index · electronic zoom · optical-digital observation · arrow pointer · stopwatch · characters on screen · brightness
	Remote control	The following ancillary equipment can be controlled (specified models only): · DVR · video printer · image filing system · flushing pump · endoscopic CO_2 regulation unit
Documentation	Patient data	The following data can be displayed on the endoscopic image screen: · patient ID · patient name · sex · age · date of birth · date of recording (time, stopwatch) · comments
	Displaying the recording state	The recording state of the following ancillary equipment can be displayed on the monitor: · portable memory and internal buffer · DVR · video printer · Image filing system
	Displaying the image information	The following data can be displayed on the monitor: · structure enhancement level · edge enhancement level · zoom ratio · colour mode
	Advanced registration of patient data	Up to 50 patients' data can be registered: · patient ID · patient name · sex · age · date of birth
Portable memory	Media	MAJ-1925 (OLYMPUS)
	Recording format	· TIFF: no compression · JPEG (1/5): approx. 1/5 compression · JPEG (1/10): approx. 1/10 compression
	Number of recording images	· TIFF: approx. 227 images · JPEG (1/5): approx. 1,024 images · JPEG (1/10): approx. 2,048 images
Memory backup	User settings	Up to 20 user settings can be registered.
	Memorisation of selected setting	The following settings are stored in memory even after the video system centre is turned OFF. · colour tone · iris mode · image enhancement mode · colour enhancement mode · contrast · AGC · colour mode · white balance · brightness adjustment method · brightness · air feeding
	Lithium battery	Life: 5 years

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OLYMPUS

OLYMPUS EUROPA HOLDING GMBH
Postbox 10 49 08, 20034 Hamburg, Germany
Wendenstrasse 14–18, 20097 Hamburg, Germany
Phone: +49 (0)40 237 730, Fax: +49 (0)40 230 761
www.olympus-europa.com

OLYMPUS

Your Vision, Our Future

Optera

GIF-H170

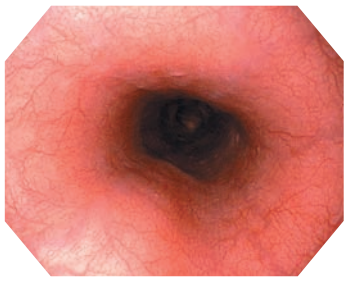
Outstanding HDTV image quality with a slimmer outer diameter

GIF-H170

Main features

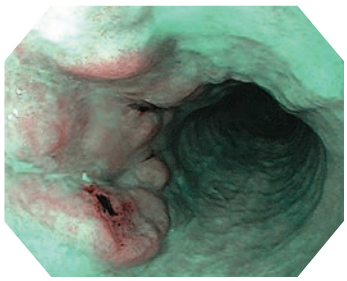
HDTV image quality

HDTV captures and displays clear images with precise details and accurate colours, helping you to perform more advanced procedures.



NBI (Narrow Band Imaging)

NBI facilitates the observation of capillaries and other structures on the mucosal surface. It helps identify suspicious areas.



Close Focus

Close focus enables you to obtain an enlarged close-up image by moving the scope tip as close as 2 mm from the mucosa.

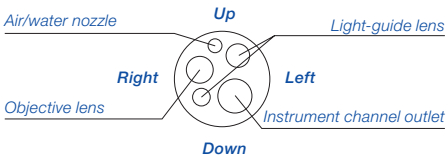
Slim Design

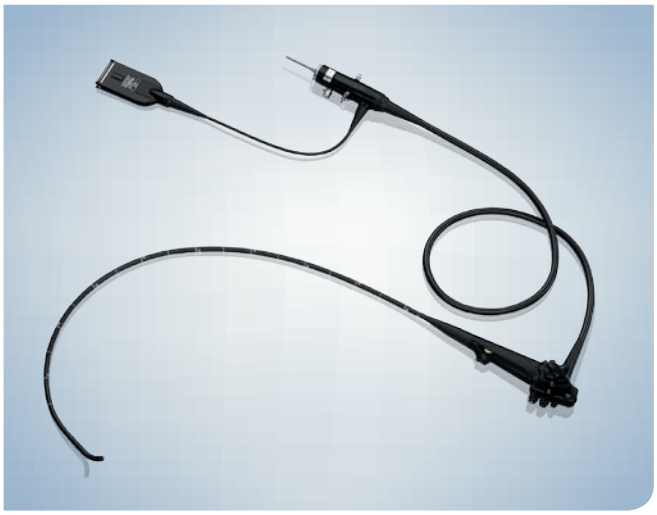
GIF-H170 offers an excellent balance of both size and performance with its 9.2 mm outer diameter.

Waterproof Connector

The newly designed connector is fully submersible and therefore eliminates the need for a water-resistant cap, while minimising the risk of damage due to accidental immersion.

Specifications

Optical system	Field of view	140°
	Direction of view	Forward viewing
	Depth of field	2–100 mm
Insertion section	Distal end outer diameter	9.2 mm
	Distal end enlarged	
	Insertion tube outer diameter	9.2 mm
	Working length	1,030 mm
Instrument channel	Channel inner diameter	2.8 mm
	Minimum visible distance	3 mm from the distal end
	Direction from which endotherapy accessories enter and exit the endoscopic image	
High-frequency	Cauterisation treatment	Available
Bending section	Angulation range	Up 210°
		Down 90°
		Right 100°
		Left 100°
Total length	1,350 mm	



E0429353 · 1.000 · 07/13 · PR

OLYMPUS

OLYMPUS EUROPA HOLDING GMBH
Postbox 10 49 08, 20034 Hamburg, Germany
Wendenstrasse 14–18, 20097 Hamburg, Germany
Phone: +49 (0)40 237 730, Fax: +49 (0)40 230 761
www.olympus-europa.com

TÜVRheinland®

Certificate

The Certification Body of
TÜV Rheinland LGA Products GmbH

hereby certifies that the organization

OLYMPUS MEDICAL SYSTEMS CORP.
2951 Ishikawa-cho,
Hachioji-shi, Tokyo 192-8507
Japan

has established and applies a quality management system for medical devices for the following scope:

See attachments for scope

Proof has been furnished that the requirements specified in

EN ISO 13485:2016

are fulfilled. The quality management system is subject to yearly surveillance.

Effective Date:	2018-11-04
Certificate Registration No.:	SX 60133824 0001
An audit was performed. Report No.:	12018179 027
This Certificate is valid until:	2021-07-26

Certification Body

DAkkS
Deutsche
Akkreditierungsstelle
D-ZM-14169-01-02

TÜV Rheinland LGA Products GmbH
TÜVRheinland
Zertifizierungsstelle

Date 2018-10-30

M.Sc. M. Aihara

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg
Tel.: +49 221 806-1371 Fax: +49 221 806-3935 e-mail:cert-validity@de.tuv.com http://www.tuv.com/safety

TÜVRheinland®

TÜV Rheinland
LGA Products GmbH
Tillystraße 2, 90431 Nürnberg

Attachment to Certificate
Registration No.: SX 60133824 0001
Report No.: 12018179 027

Organization: OLYMPUS MEDICAL SYSTEMS CORP.
2951 Ishikawa-cho,
Hachioji-shi, Tokyo 192-8507
Japan

Scope:

Design and Development, Manufacture, Distibution, Service, Quality Assurance, Planning and Delivery support of Endoscopes, Endotherapy devices, Light Sources, Imaging Processors, Endoscope Position Detecting Units, Electrothermal Cautery Units, Integrated Endosurgery Systems, Endoscopic Regulation/Control Units, Camera Heads/Pumps/Monitors/ Recorders for Endoscopy, Electrosurgical Equipment, Capsule Endoscopes and Systems, Laparoscopic Insufflators, Ultrasound Diagnostic Imaging Systems, Disinfecting Units and Ultrasound Surgical Equipment, Probes and Transducers for Ultrasonic Lithotriptors, Sterile Non Active Instruments used in conjunction with Endoscopes, Sterile Endotherapy Devices used in conjunction with Endoscopes, Sterile Non Active Devices used in conjunction with Medical Ultrasound Diagnostic Imaging Systems and Water Container, Water Supply Tube, Water Feeding valve and Foot Switch for Pump

Certification Body

DAkkS
Deutsche
Akkreditierungsstelle
D-ZM-14169-01-02

TÜV Rheinland LGA Products GmbH
TÜVRheinland
Zertifizierungsstelle

Date: 2018-10-30

M.Sc. M. Aihara

Traducere din limba engleză

Certificat

Organismul de certificare al TÜV Rheinland LGA Products GmbH

certifică prin prezenta faptul că organizaţia

OLYMPUS MEDICAL SYSTEMS CORP.
2951 Ishikawa-cho
Hachioji-shi, Tokyo 192-8507
Japonia

a implementat şi aplică un sistem de management al calităţii pentru dispozitive medicale pentru urmatoarele domenii:

A se vedea ataşamentul pentru domeniul de aplicabilitate

S-a furnizat dovada faptului ca au fost indeplinte cerintele specificate in

EN ISO 13485:2016

Sistemul de management al calităţii este supus unei supravegheri anuale.

ROMÂNIA
MINISTERUL JUSTIȚIEI
MINA FANEA-IVANOVICI
TRADUCĂTOR AUTORIZAT
ENGLEZĂ * FRANCEZĂ
AUT. NR. 22069
TEL. 0745471452

Data intrării în vigoare: 04.11.2018
Nr. înregistrare certificat: SX 60133824 0001
A fost efectuat auditul, raport nr. 12018179 027
Acest certificat este valabil până la 26.07.2021

DAkkS
Deutsche
Akkreditierungsstelle
D-ZM-14169-01-02

Organism de certificare
(Semnătură indescifrabilă şi ştampilă TÜV Rheinland LGA Products GmbH)
M.Sc.M. Aihara

Data, 30.10.2018

TÜV Rheinland LGA Products GmbH – Tillystraße 2 – 90431 Nürnberg
Tel: +49 221 806-1371 Fax: +49 221 806-3935 email: cert-validity@de.tuv.com http://www.tuv.com/safety

TÜVRheinland®

TÜV Rheinland
LGA Products GmbH
Tillystraße 2, 90431 Nürnberg

Atasament la
Nr. inregistrare certificat SX 60133824 0001
Nr. raport: 12018179 027

Organizatie:

Olympus Medical Systems Corp.
2951 Ishikawa-cho
Hachloji-shi, Tokyo 192-8507
Japonia

Domeniul de aplicabilitate: **Proiectare şi dezvoltare, producţie, distribuţie, service, asigurarea calităţii, planificare şi furnizare asistenţă pentru endoscoape, echipamente endoterapie, surse de lumină, procesoare de imagine, unităţi de detectare a poziţiei endoscopului, unităţi de cauterizare electrotermică, sisteme endochirurgicale integrate, unitati de control/reglare endoscopice, capete cameră/pompe/sisteme monitorizare/sisteme înregistrare pentru endoscopie, echipamente electrochirurgicale, endoscoape capsulă şi sisteme, insuflatoare laparoscopice, sisteme de imagistica pentru diagnostic ecografic, unităţi dezinfectare şi echipamente chirurgicale cu ultrasunete, sonde şi traductoare pentru litotriptoare cu ultrasunete, instrumente sterile inactive utilizate împreună cu endoscoape, echipamente sterile pentru endoterapie utilizate împreună cu endoscoape, echipamente sterile inactive utilizate împreună cu sisteme medicale de imagistica pentru diagnostic ecografic şi recipiente apă, tuburi alimentare apă, supape apă şi întrerupătoare de picior pentru pompe.**

DAkkS Deutsche Akkreditierungsstelle D-ZM-14169-01-02

Data, 30.10.2018

Organism de certificare
(Semnătură indescifrabilă şi ştampilă TÜV
Rheinland LGA Products GmbH)
M.Sc.M. Aihara

ROMÂNIA
MINISTERUL JUSTIŢIEI
MINA FANEA-IVANOVICI
TRADUCĂTOR AUTORIZAT
ENGLEZĂ * FRANCEZĂ
AUT. NR. 22069
TEL. 0745471452

THE DISPLAY CHOICE
OF PROFESSIONALS™

LED

X-24

With NeoV™ Optical Glass immaculately welded onto metal casing, the X-24 features seamless integration of multiple strengths that ensures its reliability in all kinds of modern professional environments.

Built on an LED-backlit panel delivering 1920 x 1080 Full HD resolution, the X-24 presents life-like contrast, colours and nuances on its Advanced Image Platform™ (AIP). Its Smart Omni Viewer offers such options as Picture-in-Picture (PIP) and selectable aspect ratios. The EcoSmart Sensor detects ambient luminance and adjusts the backlight automatically.

> LED-backlit technology with high FHD 1920 x 1080 resolution
> Crisp 2,000,000 dynamic contrast ratio
> Slim 14 mm border & bezel design for a stylish look
> NeoV™ Optical Glass
> AIP technology: PIP and PBP functions; 3D Comb Filter/Deinterlace/Noise Reduction; Image rotation function
> Selectable aspect ratio for ultimate image
> EcoSmart Sensor for low watt power consumption
> Black-level alignment
> Versatile inputs: VGA, DVI, HDMI, S-Video, CVBS (RCA x 2), Audio in
> Built-in speakers
> Touch sensor control keys to prevent vandalism
> Durable metal housing
> Rigorous screening of the components for mission-critical 24/7 applications

NeoV OPTICAL GLASS

NeoV™ Optical Glass - The most trusted hard glass protection available. Only on AG Neovo displays

AIP ADVANCED Image Platform

X-24

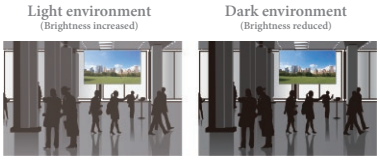
Specifications		X-24
Panel	Panel Type	LED-backlit TFT LCD
	Panel Size	23.6”
	Max. Resolution	FHD 1920 x 1080
	Pixel Pitch	0.2715 mm
	Brightness	300 cd/m2 (Typical)
	Contrast Ratio	2,000,000 : 1 (DCR)
	Viewing Angle (H/V)	170°/160° (Typical)
	Display Colour	16.7M
	Response Time	3 ms (GTG)
Frequency (H/V)		H: 24 kHz - 82 kHz V: 50 Hz - 75 Hz
Input	VGA	15-Pin D-Sub
	DVI	24-Pin DVI-D
	CVBS	RCA x 2
	S-Video	4-Pin mini DIN
	HDMI	HDMI x 1
Audio	Audio In	1 x stereo audio in for PC (audio jack, 3.5 Ø) 1 x stereo audio in for CVBS (RCA) or S-Video
	Audio	2W
Power	Power Supply	External
	Power Requirements	DC 12V
	Consumption	<29W (On) <0.5W (Active Off) <0.5W (Off)
NeoV™ Optical Glass	Thickness	3.0 mm (0.12”)
	Reflection Rate	< 1%
	Transmission Rate	> 96%
	Coating Hardness	> 9H
Operating Conditions	Temperature	0°C ~ 40°C (32°F~104°F)
	Humidity	10%~90% (No condensation)
Storage Conditions	Temperature	-20°C ~ 60°C (-4°F~140°F)
	Humidity	5%~95% (No condensation)
Mounting	VESA FPMPMI	Yes (100 x 100mm & 75 x 75mm)
Dimensions	Product (W x H x D)	562 x 397 x 155 mm (22.1” x 15.6” x 6.1”)
	Packaging (W x H x D)	676 x 525 x 213 mm (26.6” x 20.7” x 8.4”)
Weight (net)	w/o base	7.4 kg (16.3 lbs)
	w base	7.8 kg (17.2 lbs)
	Packaging Weight	10.6 kg (23.4 lbs)
Regulation Approval	Certifications & Compliance	FCC, CB, CE, RoHS, WEEE, REACH, GOST-R
Accessories	Supplied	CD ROM(user manual), power cord, power adapter, 15-Pin D-Sub cable, audio cable

Available in black or white

NeoV™ Optical Glass protects against scratches, impacts and other physical damage

On top of PIP and PBP, Smart Omni Viewer offers selectable aspect ratios and the option of 180° image rotation

Multiple video inputs (HDMI, DVI, VGA, CVBS, S-Video) make possible effortless system integration



EcoSmart Sensor and versatile capabilities ensure round-the-clock operations

P/C: X240B0, Version 3.0, 20161122