



Analog x-ray film viewers



Digital images viewing stations



**ULTRA VIOL**



**REGIONAL PROGRAMME**  
NATIONAL COHESION STRATEGY



**Lodz Region**



Centrum  
Obsługi  
Przedsiębiorcy

EUROPEAN UNION  
EUROPEAN REGIONAL  
DEVELOPMENT FUND



# ULTRAVIOL

is a-dynamically developing company producing medical equipment. Since 1993 our company's product range has increased up to about 150 items. Currently there are 76 models of X-ray film viewers and 54 types of germicidal lamps. We are also a-producer of DICO (digital images viewing stations) and FOTOVITA - phototherapy light. The company is still improving technological solutions to our devices, modernizing their design and quality. The medical equipment, manufactured by our company, is made in according to 93/42/EEC, 89/336/EEC directives and EN 60601-1 standard regarding the safety of medical products.

To confirm the fact that ULTRA-VIOL complies with the highest requirements for manufacturers of medical equipment, the company obtained ISO 9001 and ISO13485 certificates granted by TÜV NORD CERT in Essen Germany.

ULTRA-VIOL was in a-group of ten laureates of the contest for the best local products „Lodz Region Suggests”. The commend was given to the NGP X-ray film viewers series. Our equipment is used by all best clinics and hospitals in Poland.

ULTRA-VIOL exports the items to many European countries. The main provider of light sources and power systems, which have a-great impact on the high quality of our equipment, is PHILIPS Co -the worldwide leader in light technology.

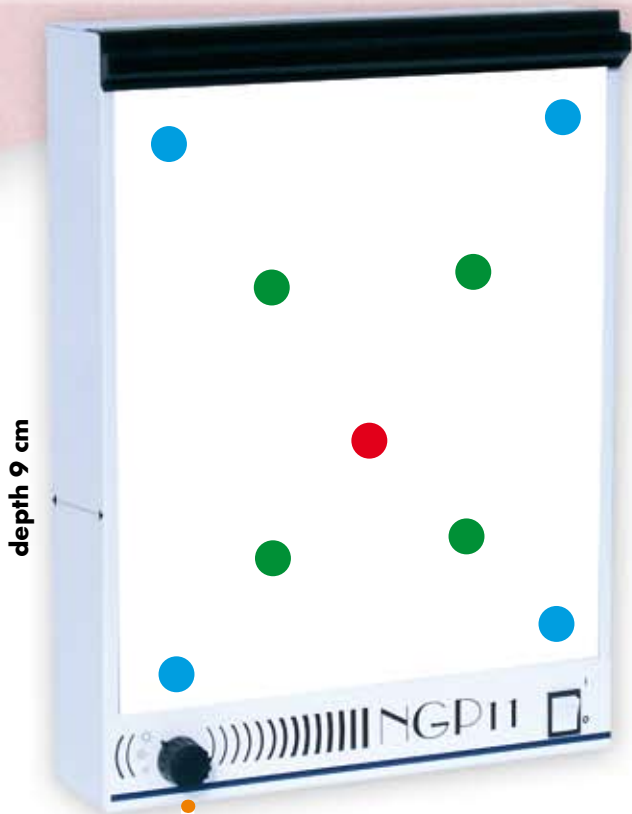
Technological processes used in the whole production are environmentally friendly.



**DICO 2M**

**DICO®** Digital and analog images viewing station (PACS,HIS)





depth 9 cm

**Daylight Colour temperature 6500°K**

- soft and friendly for eyes
- excellent contrast rendering

**High uniformity of screen luminance over a whole viewing area**

- approx 4490 cd/m<sup>2</sup>
  - approx 4320 cd/m<sup>2</sup>
  - approx 4110 cd/m<sup>2</sup>
- as measured according to DIN 6856

**Uniform screen in viewers of all the types made of frosted perspex**

**Easy replacement of fluorescent lamps and igniters**

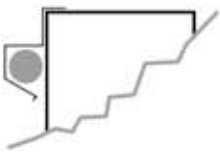
**Power supply-230V, 50 Hz**

**Esthetic metallic housing coated with powder-lacquer**



**Infinitely variable or step adjustment of screen luminance**

- wide range of adjustment (from 100% to 50%)
- no light flickering



**Reliable roller-type holder**

**An important element in a process of radiological diagnosis**

As the X-ray viewer is an intermediate member in a train "physician's knowledge and experience- up -to-date X-ray technique", high quality of the viewer is a decisive factor for successful radiological diagnosis. Poor quality of the viewer may be an obstacle making impossible proper diagnosis in spite of the use of advanced X-ray equipment and good knowledge and experience of the physician. NGP X-ray film viewers series manufactured by ULTRA-VIOL is a modern line.

We offer:

- one-row X- ray film viewers
- two- row X- ray film viewers
- multiframe X- ray film viewers
- X- ray film viewers for mammograms

We offer viewers either with or without luminance adjustment, also in high-frequency version



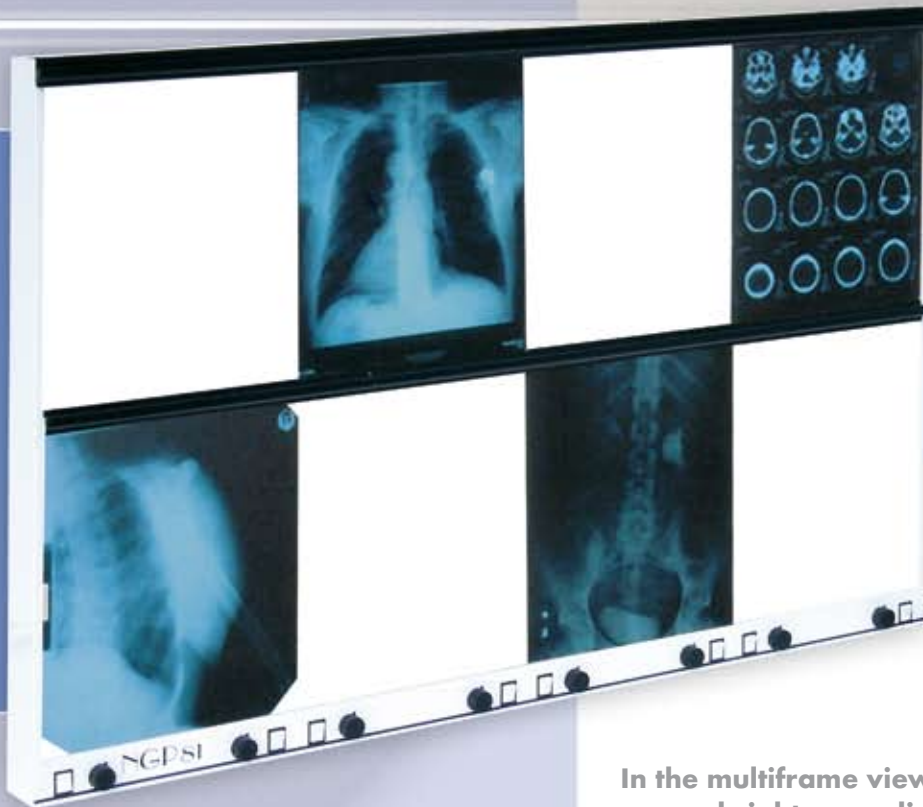
**All X- ray film viewers are also in high-frequency version**

- very quick ignition of fluorescent lamps
- completely eliminated flickering effect
- infinitely variable adjustment of luminance within the range from 10% to 100% of maximum luminance
- energy saving up to 25%



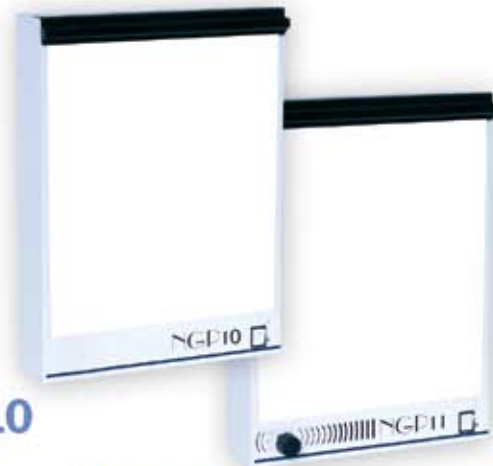
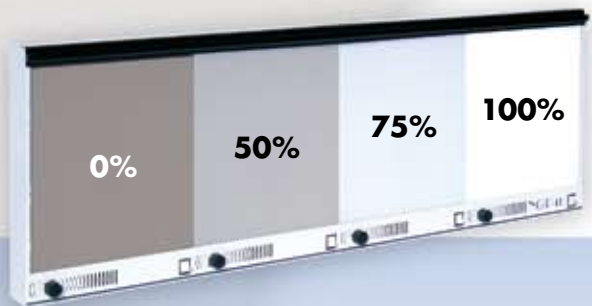
We offer viewers either with or without luminance adjustment, also in high-frequency versions

**HF**  
40kHz



**NGP 81**

In the multiframe viewers both the screen brightness adjustment and switching individual frames on and off can be made independently. Completely eliminated flickering effect.



**NGP 10**

**NGP 11**



**NGP 31**



TYPE	SCREEN	Luminance adjustment	DIMENSION (mm)	MASS
NGP-10	screen 36 x 43 cm 1 frame	—	380 x 510 x 92 mm	6,0 kg
NGP-11	screen 36 x 43 cm 1 frame	+	380 x 510 x 115 mm	7,0 kg
NGP-20	screen 72 x 43 cm 2 frames 36 x 43 cm	—	740 x 510 x 92 mm	11,2 kg
NGP-21	screen 72 x 43 cm 2 frames 36 x 43 cm	+	740 x 510 x 115 mm	15,0 kg
NGP-30	screen 108 x 43 cm 3 frames 36 x 43 cm	—	1110 x 510 x 92 mm	16,4 kg
NGP-31	screen 108 x 43 cm 3 frames 36 x 43 cm	+	1110 x 510 x 115 mm	20,0 kg
NGP-40	screen 144 x 43 cm 4 frames 36 x 43 cm	—	1460 x 510 x 92 mm	21,6 kg
NGP-41	screen 144 x 43 cm 4 frames 36 x 43 cm	+	1460 x 510 x 115 mm	26,3 kg
NGP-60	2 screens 108x43cm 6 frames 36x43cm	—	1110 x 960 x 92 mm	32 kg
NGP-61	2 screens 108 x 43 cm 6 frames 36 x 43 cm	+	1110 x 960 x 115 mm	38 kg
NGP-80	2 screens 144 x 43 cm 8 frames 36 x 43 cm	—	1460 x 960 x 92 mm	44,3 kg
NGP-81	2 screens 144 x 43 cm 8 frames 36 x 43 cm	+	1460 x 960 x 115 mm	54 kg



NGP 800

NGP 500



NGP 400

NGP 300

Convenient X-ray film viewers for examination of series of radiograms



Two-row X-ray film viewers for up to 6, 8 or 10 radiograms NGP-600; NGP-800, NGP-1000 also in version with adjustable luminance and high-frequency types. One-row X-ray film viewers for up to 3, 4 or 5 radiograms NGP-300; NGP-400, NGP-500 also in version with adjustable luminance and high-frequency types

TYPE	SCREEN	Luminance adjustment	DIMENSION (mm)	MASS
NGP- 300	screen 120 x 45 cm 1 field podświetl.	*	1220 x 510 x 112 mm	18,0 kg
NGP- 400	screen 150 x 45 cm 1 field podświetl.	*	1520 x 510 x 112 mm	22,0 kg
NGP- 500	screen 180 x 45 cm 2 fields 90 x 45 cm	*	1820 x 510 x 112 mm	26,0 kg
NGP- 600	screen 120 x 90 cm 2 fields 120 x 45 cm	*	1220 x 960 x 112 mm	32,0 kg
NGP- 800	screen 150 x 90 cm 2 fields 150 x 45 cm	*	1520 x 960 x 112 mm	41,0 kg
NGP- 1000	screen 180 x 90 cm 4 fields 90 x 45 cm	*	1820 x 960 x 112 mm	49,0 kg
NGP- 300P	screen 36 x 87 cm	*	965 x 112 x 410 mm	17,0 kg
NGP- 600P	screen 72 x 87 cm	*	965 x 112 x 760 mm	32,0 kg
NGP- 400P	screen 36 x 117 cm	*	1270 x 112 x 410 mm	19,0 kg
NGP- 800P	screen 72 x 117 cm	*	1270 x 112 x 760 mm	35,0 kg

\* optional infinitely variable adjustment of luminance (1 adjusting element/1illuminated field) symbol (R)





NGP 1000

NGP  
NGP 300 P



**X-RAY FILM VIEWERS SELF ACTING**

- version for a standard radiograms and mammograms
- capacity for 400 standard radiograms or for 1600 mammograms
- high reliability perpendicular belt system
- very silent work
- high uniformity of screen luminance over a whole viewing area
- wide range of luminance adjustment
- easy service - steering digital
- in the mammo version the automatic adaptation of highlighted field to the format of radiograms
- optionally with automatic shutters
- X-ray film viewers have all necessary certificates



**MOBILE STANDS FOR X-RAY FILM VIEWERS**

- suitable for all types of the NGP series x-ray film viewers
- angle of inclination adjustable within a wide range
- antielectrostatic wheels with brakes

**Dental type x-ray film viewers**

**PANORAM 01**

Dental type x-ray film viewer for pantomograms; standing or pendant make.  
Screen 285 x 255 mm  
Dimension 358x172x65 mm



**CEFALOM 01**

Cephalometric x-ray film viewer  
Screen 240 x 300 mm  
Dimension 370x310x70 mm





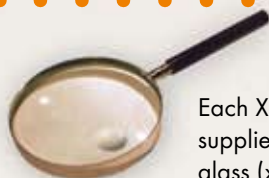
Halogen Spotlight **HGP 10P**      Halogen Spotlight **HGP 10L**

- suitable for any type of a-ray viewer
- luminance variable from 0 to 30000 cd/m<sup>2</sup>
- 60 mm light spot diameter

**NGP 400 Z**

**X-ray film viewers with shutters for glare-free reading of radiographs**

- 4 freely moving shutters for glare-free film reading
- edge sharp collimation even of small image areas
- flicker free, energy saving high-frequency light for film reading without eyestrain
- infinitely variable adjustment of luminance within the range from 10 to 100% of maximum luminance
- collimation combined with luminous density control dramatically improves identification of even the tiniest details (microcalcifications), a feature of decisive diagnostic relevance in mammography
- excellent uniformity of the luminous density
- brilliant daylight, approx. 6500°K
- compact neatly styled sheet steel housings with screwless panel, RAL 9002, structured powder-coated finish, resistant to commercially available disinfectants



Each X-ray viewer is supplied with a magnifying glass (x2, x4)



**High Frequency converters**

- very quick ignition of fluorescent lamps
- completely eliminated flickering effect
- infinitely variable adjustment of luminance within the range from 10% to 100% of maximum luminance
- energy saving up to 25%



TYPE	SCREEN	Luminance adjustment	DIMENSION (mm)	MASS
NGP 100 Z	1 field - 40x43 cm	+	720 x 690 x 120 mm	23 kg
NGP 200 Z	1 field - 80x43 cm	+	1060 x 690 x 120 mm	41 kg
NGP 300 Z	1 field - 105x43 cm	+	1380 x 690 x 120 mm	49 kg
NGP 400 Z	1 field - 140x43 cm	+	1700 x 690 x 120 mm	57 kg





**NGP 31 mZ**



**NGP 41 mZ**



**NGP 31 mZU  
with mobile  
holder**



**NGP 41 mZU  
with mobile  
holder**



**NGP 21 mZ**

## X-ray film viewers with shutters for glare-free reading of radiographs

- 4 freely moving shutters for glare-free film reading
- edge sharp collimation even of small image areas
- high luminous flux density **> 7000 cd/m<sup>2</sup>** (greater than in conventional viewers)
- flicker free, energy saving high-frequency light for film reading without eyestrain
- infinitely variable adjustment of luminance within the range from 10 to 100% of maximum luminance
- collimation combined with luminous density control dramatically improves identification of even the tiniest details (microcalcifications), a feature of decisive diagnostic relevance in mammography
- excellent uniformity of the luminous density
- brilliant daylight, approx. 6500°K
- compact neatly styled sheet steel housings with screwless panel, RAL 9002, structured powder-coated finish, resistant to commercially available disinfectants
- mobile holder

Mobile holder



Mobile magnifying glass for each kind of x-ray viewer with shutters

TYPE	SCREEN	Luminance adjustment	DIMENSION (mm)	MASS
NGP 31 mZ	2 fields - 96x30 cm	+	1280 x 940 x 120 mm	57 kg
NGP 31 mZU with mobile holder	1 field - 96x60 cm	+	1280 x 940 x 120 mm	58 kg
NGP 41 mZ	2 fields - 108x30 cm	+	1400 x 940 x 120 mm	63 kg
NGP 41 mZU with mobile holder	1 field - 108x60 cm	+	1400 x 940 x 120 mm	64 kg

**DICO®**

**Digital and analog images viewing station (PACS,HIS)**



CD/DVD drive integrated



2 x USB sockets protected against flooding



Easy to disinfection medical keyboard with touchpad, having an anti-bacterial coating. Can be folded.



Built-in version



Wall mounted or table standing version



On mobile stand version

- DICO station is a complete computer device with a medical washable keyboard with a touchpad (mouse can be connected).
- High-class computer
- Monitor protected by anti-reflex coated glass (over 8-time reduction of reflected rays)
- Intended for work in an operating room (easy disinfection, washing)
- Wall mounted, build in or on mobile stand versions available.
- DICO station makes it possible to look through medical images downloaded from LAN network, DVD station or through USB ports of other data storage devices.
- DICO station will solve the problems of browsing CDs with tests of own or other hospitals patients.
- DICO station passed electromagnetic conformity tests. DICO stations comply with the norms PN-EN 60601-1:1999 (safety of medical devices) and PN-EN 60601-1-2:2002 (electromagnetic compatibility), are medical devices registered in the Medical Devices Register.
- DICO stations are available in a basic version with 21" monitors. There are also versions with bigger monitors 24";30";40; 46"
- Viewing station of high frequency with light intensity regulation, of monitor's size 40x 40cm or 80x40 cm, constitutes an analogue part of the station.

The variety of configurations meets individual requirements of the user

DICO 1M	1 monitor		DICO 2M/1B	2 monitors 1 film viewer with shutters	
DICO 2M	2 monitors		DICO 1M/2B	1 monitor 2 films viewer with shutters	
DICO 1M/1B	1 monitor 1 film viewer with shutters		DICO 2M/2B	2 monitors 2 films viewer with shutters	

Optional – other diagonals of the EIZO monitors





## X-ray film viewer NGP 301 WS for operating theatre



- designed for operating theatre and surgery cabinet
- power supply: high frequency
- the front panel made from inox steel
- easy to disinfection (sealed up)
- optional adjustment of luminance

TYPE	SCREEN	Dimension of the niche	Dimension of the viewer	Bulb
NGP 100 WS	360x440 mm	445x495x75 mm	505x555x84	4x15W TLD
NGP 200 WS	720x440 mm	805x495x75 mm	865x555x84	8x15W TLD
NGP 300 WS	1080x440 mm	1285x495x75 mm	1345x555x84	4x36W TLD
NGP 400 WS	1440x440 mm	1645x495x75 mm	1705x555x84	4x58W TLD

DICO 1M (40")



DICO 1M (21")

DICO 1M (40")



DICO 1M (30")



DICO 2M (56"/17")

DICO 1M (21")





## OUR OFFER:

### FOTOVITA

Therapy with the use of bright light synchronizes biological rhythms regulating secretion of melatonin and restores health. Various illnesses caused by disturbance of the internal biological rhythms include such troubles as:

- winter depression
- sleep disturbance resulting from changes of falling asleep time
- sleep disturbance caused by multi-shift work
- "jet lag" syndrome



### GERMICIDAL LAMPS

The use of germicidal lamps and flow germicidal lamps **NBVE**<sup>®</sup> is one of the most effective methods of disinfection.

They emit the UV-C radiation of 253.7 nm wavelength.

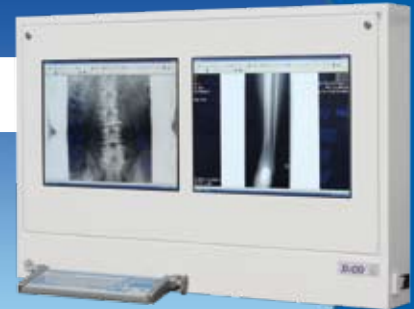
This is the wavelength region of the greatest germicidal efficacy, it irrevocably destroys bacteria, viruses, moulds, fungi and any other microorganisms. Due to their high effectiveness germicidal lamps are used in places where sterile conditions are required and quality of services and safety of both patients and personnel depend on microbiological purity.



### DIGITAL AND ANALOG IMAGES VIEWING STATION (PACS,HIS)

**DICO**<sup>®</sup>

- DICO station is a complete computer device with a medical washable keyboard with a touchpad (mouse can be connected).
- High-class computer
- Monitor protected by anti-reflex coated glass (over 8-time reduction of reflected rays)
  - Built-in version
  - Wall mounted or table standing version
  - On mobile stand version



### X-RAY FILM VIEWERS SLIM VERSION



**ULTRAVIOL**

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