VIDEO ISOLATION AMPLIFIER
ISOMED II

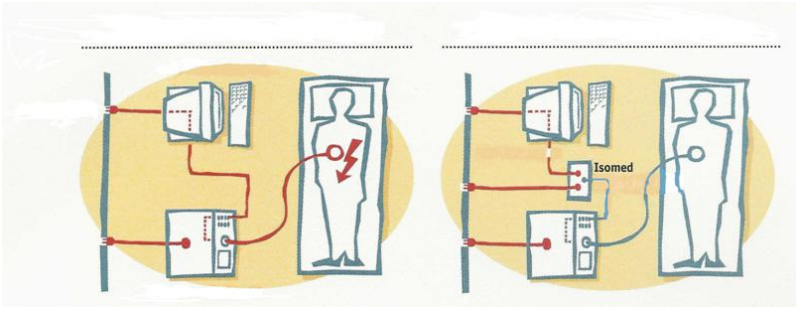
Medical devices in the areas of ultrasound, X-ray and NMR comply with the safety standards of the German Medical Regulation or the European standards of the Medical Devices Law, which has been in effect since 1. January 1995.

Auxiliary devices, such as video printers, video monitors or the video input on the PC, are not subject to the strict standards of medical devices. If medical devices are connected to such auxiliary devices over an interface that is not electrically isolated, the operating license for the medical device is invalidated.

The phase of the public power supply can reach the patient via the interface connection and a defective power supply unit on the auxiliary device.

Directives and standards dictate that such video signals must be separated in a way that there are no conducting connections between the input and output sides.

Furthermore, a minimum distance to the power network of 8mm (creepage distance) must be guaranteed.



This safety precaution guarantees that the health of your patients will not be put at risk, even if a peripheral device should fail (1st failure) and result in a potential voltage of up to 4,000 volts between the inputs and outputs of the isolation amplifier.

Without the isolation amplifier, there is a risk that leakage currents that are too high can flow over the patient, or that he or she comes into contact with the line voltage through a defective auxiliary device.

Video signals are electrically isolated from one another with the ISOMED II Video Isolation Amplifier.
The isolation amplifier is available in a

- **One-channel version for Composite and S-Video**
- **Two-channel version for S-Video and YC video signals**
- **Four-channel version for RGB and sync video signals**
- **One-channel version for SDI-High Definition.**

Fritz Pauker Ingenieure GmbH . Paul-Lenz-Str. 5 . 86316 Friedberg . GERMANY
TEL: 0821 – 26898-20 . www.pauker-ingenieure.de

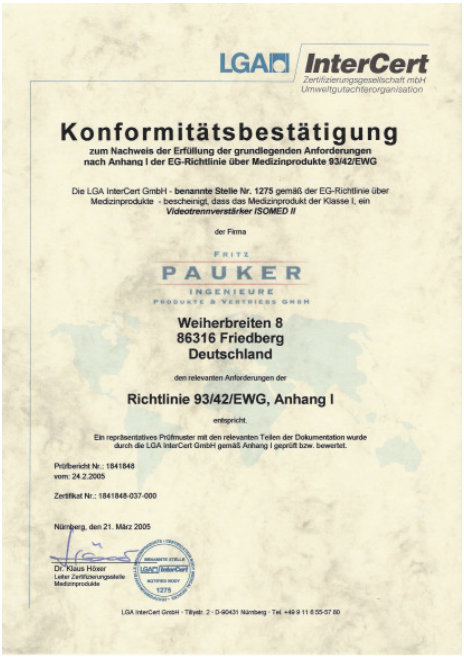
The two- and four-channel versions have additionally a RS232 interface which is also electrically isolated, and an electrically isolated switch channel (i.e. for the foot pedal).

The highest level of EM compatibility is guaranteed by the isolated screening of input and output amplifiers.

The ISOMED II isolation amplifier meets the requirements for protection class 1, protection degree B.

Its metal housing is power-coated and its front panels are made of POM plastic.

CERTIFICATION



LGA InterCert
Zertifizierungsgesellschaft mbH
Umweltgutachterorganisation

Konformitätsbestätigung

zum Nachweis der Erfüllung der grundlegenden Anforderungen nach Anhang I der EG-Richtlinie über Medizinprodukte 93/42/EWG

Die LGA InterCert GmbH - benannte Stelle Nr. 1275 gemäß der EG-Richtlinie über Medizinprodukte - bescheinigt, dass das Medizinprodukt der Klasse I, ein
Videotrennverstärker ISOMED II

der Firma

FRITZ PAUKER INGENIEURE PRODUKTE & VERTRIEBS GMBH

Weiherbreiten 8
86316 Friedberg
Deutschland

den relevanten Anforderungen der

Richtlinie 93/42/EWG, Anhang I

entspricht.

Ein repräsentatives Prüfmuster mit den relevanten Teilen der Dokumentation wurde durch die LGA InterCert GmbH gemäß Anhang I geprüft bzw. bewertet.

Prüfbericht Nr.: 1841848
vom: 24.2.2005

Zertifikat Nr.: 1841848-037-000

Nürnberg, den 21. März 2005

Dr. Klaus Höxer
Leiter Zertifizierungsstelle Medizinprodukte

LGA InterCert GmbH · Tillystr. 2 · D-90431 Nürnberg · Tel. +49 9 11 6 55-57 80

GENERAL DATA

Weight	1,8 Kg (2ch.+4ch.) 1,45 Kg (1ch.+1ch. SDI)
Size	340x157x48mm (2ch.+4ch.) 240x157x48mm (1ch.+1ch. SDI)
Utilization category	„B"
Class of protection	IP 30
Models	2 channels SVHS 4 channels BNC 1 channel SVHS 1 channel BNC 1 channel SDI-HD

TECHNICAL SPECIFICATION

Power supply unit		
	Supply voltage	230V AC 50/60 Hz
	Power consumption	7,2 VA
Video		
Video input channels	Input impedance	75 Ohm
	Input voltage	1,0 Vss 0,8 Vss for SDI
	Coupling	AC
Video output channels	Output impedance	75 Ohm
	Amplification	1 an 75 Ohm
	Coupling Delay	AC 60 ns
Isolation	Creepage distance Dielectric strength	8 mm 4000 V
Switch channel (for 2- and 4 channels)		
Switch channel input	Relay input switching to ground (5mA)	
Switch channel output	Relay contact, normally open contact	
	RS232 (for 2- and 4 channels)	
Input	D-Sub9-pin connector Baud rate	1:1 cable
Output	D-Sub9-pin socket	Null modem
Isolation	Creepage distance Dielectric strength	8 mm 4000 V
PIN-assignments	RXD, TXD, CTS, RTS, DTR, DST	