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Epoch 600 operating manual

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DMTA-10007-01EN [U8778365] — Revision A May 2010 EPOCH 600 Basic Operation Manual Olympus NDT, 48 Woerd Avenue, Waltham, MA 02453, USA This manual and the product and the programs it describes are protected by the Copyright Act (R. S., 1985, chapter C-42), by laws of other countries, and by international treaties, and therefore may not be reproduced in whole or in part, whether for sale or not, without the prior written consent from Olympus. Under copyright law, copying includes translation into another language or format. © 2010 by Olympus.



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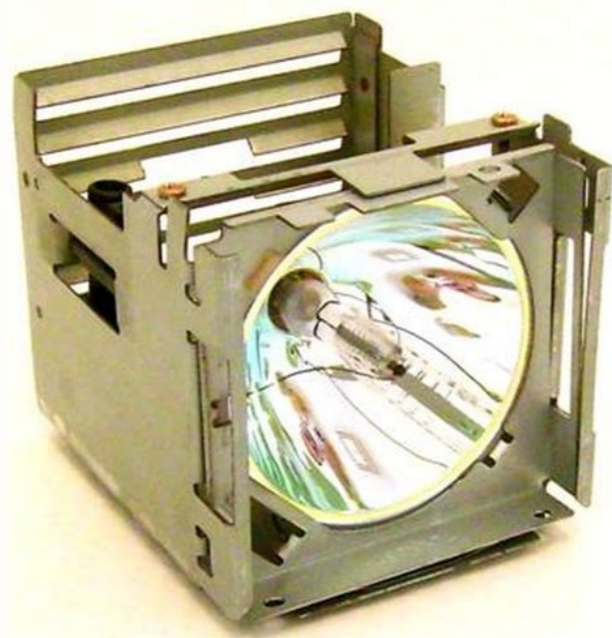
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DMTA-10007-01EN [U8778365], Rev. A, May 2010 List of Abbreviations AC alternating currentBIP beam index pointDC direct currentEFUP environmental friendly usage pe- riodEMC electromagnetic compatibility R receiveRoHS restriction of hazardous substan- cesTR transmit/receiveWEEE waste electrical and electronic equipment List of Abbreviations v DMTA-10007-01EN [U8778365], Rev. A, May 2010 v List of Abbreviations DMTA-10007-01EN [U8778365], Rev. A, May 2010 Labels and Symbols A rating label with safety-related symbols is attached to the instrument at the location shown in the following figure. The serial number label is located at the bottom of the instrument. If labels are missing or illegible, please contact Olympus. Location of rating labels(see Table 1 on page 2) Labels and Symbols 1 DMTA-10007-01EN [U8778365], Rev. A, May 2010 Table 1 Contents of the rating and the serial number labels Rating plate label: Contains: The CE marking is a declaration that this product conforms to all the applicable directives of the European Community. See the Declaration of Conformity for details. The WEEE symbol indicates that the product must not be disposed of as unsorted municipal waste, but should be collected separately. The C-Tick label indicates that the product complies with the applicable standard and establishes a traceable link between the equipment and the manufacturer, importer or their agent responsible for compliance and for placing it on the Australian market. The China RoHS mark indicates the product's Environmental Friendly Usage Period (EFUP). The EFUP is defined as the number of years for which listed controlled substances will not leak or chemically deteriorate while in the product. The EFUP for the EPOCH 600 has been determined to be 15 years. Note: The Environmental Friendly Usage Period (EFUP) is not meant to be interpreted as the period assuring functionality and product performance. The direct current symbol 2 Labels and Symbols DMTA-10007-01EN [U8778365], Rev. A, May 2010 SERIAL The serial number is a 9-digit number in the following format: ynnnnmm where y Production year nnnmm Unit number manufactured that month mm Production month For example, the 100000504 serial number indicates that the fifth unit (00005) was produced in April 2010. Table 1 Contents of the rating and the serial number labels (continued) Labels and Symbols 3 DMTA-10007-01EN [U8778365], Rev. A, May 2010 Do not touch the inner conductor of the BNC (or LEMO) connectors to avoid risks of an electric shock. Up to 400 V can be present on the inner conductor. Warnings General Warnings Read the instructions contained in the user's manual prior to powering on the instrument. • Keep the user's manual in a safe place for further reference. • Follow the installation and operation procedures. 8 Important Information — Please Read Before Use Intended Use The EPOCH 600 instrument is designed to perform nondestructive inspections of industrial and commercial materials. Do not use the EPOCH 600 instrument for any purpose other than its intended use. Instruction Manual This instruction manual contains essential information on using this Olympus product safely and effectively. Before use, thoroughly review this instruction manual and use the product as instructed. Keep this instruction manual in a safe, accessible location. Instrument Compatibility Only use the EPOCH 600 instrument with the following ancillary equipment: • Rechargeable lithium-ion (Li-ion) battery pack (PN: 600-BAT-L [U8760056]) Important Information — Please Read Before Use 5 DMTA-10007-01EN [U8778365], Rev. A, May 2010 • Optional stand-alone external battery charger (PN: EPXT-EC-X) (varies by configuration; must select power cord) • Charger/adaptor (PN: EP-MCA-X) (varies by configuration; must select power cord) Using incompatible equipment can result in a malfunction and/or in equipment damage. Repair and Modification The EPOCH 600 instrument does not contain any user-serviceable parts. Do not disassemble, modify, or attempt to repair the instrument to prevent human injury and/or equipment damage. Safety Symbols The following safety symbols may appear on the instrument and in the instruction manual: General warning symbol: This symbol is used to alert you to potential hazards. All safety messages that follow this symbol should be obeyed to avoid possible harm. 6 Important Information — Please Read Before Use DMTA-10007-01EN [U8778365], Rev. A, May 2010 High voltage warning symbol: This symbol is used to alert you to potential electric shock hazards higher than 1,000 volts. All safety messages that follow this symbol should be obeyed to avoid possible harm. Safety Signal Words The following safety symbols are used on the instrument: The DANGER signal word indicates an imminently hazardous situation. It calls attention to a procedure, practice, or the like, which, if not correctly performed or adhered to, could result in death or serious personal injury. Do not proceed beyond a DANGER signal word until the indicated conditions are fully understood and met. The WARNING signal word indicates a potentially hazardous situation. It calls attention to a procedure, practice, or the like, which, if not correctly performed or adhered to, could result in death or serious personal injury. Do not proceed beyond a WARNING signal word until the indicated conditions are fully understood and met. The CAUTION signal word indicates a potentially hazardous situation. It calls attention to an operating procedure, practice, or the like, which, if not correctly performed or adhered to, could result in minor or moderate personal injury, material damage, particularly to the product, destruction of part or all of the product, or loss of data. Do not proceed beyond a CAUTION signal word until the indicated conditions are fully understood and met. Important Information — Please Read Before Use 7 DMTA-10007-01EN [U8778365], Rev. A, May 2010 Notes Signal Words The following safety symbols may appear in the documentation of the instrument: The IMPORTANT signal word calls attention to a note that provides important information or information essential to the completion of a task. The NOTE signal word calls attention to an operating procedure, practice, or the like that requires special attention. A note also denotes related, parenthetical information that is useful but not imperative. The TIP signal word calls attention to a type of note that helps you apply the techniques and procedures described in the manual to your specific needs, or that provides hints on how to use effectively the capabilities of the product. Safety Before applying power to the EPOCH 600, verify that the correct safety precautions have been taken (see following warnings). In addition, note the external markings on the instrument that are described in the "Important Information — Please Read Before Use" section. Warnings General Warnings Read the instructions contained in the user's manual prior to powering on the instrument. • Keep the user's manual in a safe place for further reference. • Follow the installation and operation procedures. 8 Important Information — Please Read Before Use DMTA-10007-01EN [U8778365], Rev. A, May 2010 • It is imperative to respect the safety warnings on the instrument and in the user's manual. • If the equipment is used in a manner not specified by the manufacturer, the protection provided by the manufacturer, the protection provided by the equipment could be impaired. • Do not install substitute parts or perform any unauthorized modification to the instrument. • Service instructions, when applicable, are for trained service personnel. To avoid a dangerous electric shock, do not perform any service unless qualified to do so. For any problem or question regarding this apparatus, contact Olympus or an authorized Olympus representative. • Before turning on the instrument, you must connect the protective earth terminal of the charger/adaptor to the protective conductor of the (mains) power cord. The mains plug shall only be inserted in a socket outlet provided with a protective earth contact. Never negate the protective action by using an extension cord (power cable) without a protective conductor (grounding). • Whenever it is likely that the ground protection is impaired, you must turn off the instrument and secure it against any unintended operation. • You must connect the instrument only to a power source corresponding to the type indicated on the rating plate. WEEE Directive In accordance with European Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE), this symbol indicates that the product must not be disposed of as unsorted municipal waste, but should be collected separately. Refer to your local Olympus distributor for

