

VIDAR NDT*PRO*Industrial Film Digitizer

Installation Guide For Use with Windows 7, 8, & 10

(Serial Numbers 370,000 to 379,999)



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Emergo Europe Prinsessegracht 20 2514 AP, The Hague The Netherlands Caution: No operator-serviceable parts inside. Refer servicing to qualified personnel.

Achtung: Gehäuse nicht öffnen. Wartung uno reparatur nur durch eletrofachkräfte.

Attention: Aucune piece ne peut etre remplacee par l'utilisateur. Toute operation de maintenance doit etre effectuee par une personne qualiee.

Atencion: Acceso interno solo autorizado a personal tecnico cualificado.

Attenzione: Non appire. Rivolgersi a personale qualificado.

Radio Frequency Emissions

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area can cause harmful interference, in which case the user will be required to correct the interference at his or her own expense.

Product compliance testing was conducted using VIDAR shielded cables. Modifications to the digitizer or the VIDAR shielded cables or the use of cables other than those available from VIDAR could void the user's authority to operate the equipment.

Acceptable shipping conditions

■ Temperature: -18° to $+60^{\circ}$ C (0° to $+140^{\circ}$ F)

■ Relative humidity: 20% to 85%, non-condensing

■ Atmospheric pressure: 500 to 106 hPa (+18,000 to -1,200ft)

Operating conditions

■ Temperature: 10°C to 30°C (60°F to 85°F)

■ Relative humidity: 20% to 85%, non-condensing

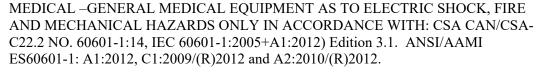
■ Atmospheric pressure: 696 to 1013hPa (10,000 to 0 ft)

Electrical supply

Voltage: 100 to 240 VAC
 Current: 0.75 to 1.5 A
 Frequency: 47 to 63 Hz

Safety and compliance information





5RA9

Accessory equipment connected to the analog and digital interfaces must be certified according to the respective IEC standards (i.e. IEC 60950 for data processing equipment and IEC 60601-1 for medical equipment). Furthermore all configurations shall comply with the system standard IEC 60601-1-1 or IEC 60601-1 Edition 3.1.

Everybody who connects additional equipment to the signal input part or signal output part configures a medical system, and is therefore responsible that the system complies with the requirements of IEC 60606-1-1 or IEC 60601-1 Edition 3.1. If in doubt, consult the technical services department or your local representative.

This product is rated for continuous use.

This product is in the Ordinary Equipment Class. It provides no protection against the ingress of water.

This product is not suitable for use in the presence of flammable anesthetic mixtures with air or with oxygen or with nitrous oxide.

Class I Medical Device; No Applied Parts. This product provides Class I medical device protection against electrical shock.

WARNING: To avoid the risk of electric shock, this equipment must only be connected to a supply mains with protective earth.

Grounding reliability can only be achieved when the equipment is connected to an equivalent receptacle marked "HOSPITAL ONLY" or "HOSPITAL GRADE".

WARNING: Do not modify this equipment without authorization of the manufacturer.

Do not position the product so that it is difficult to access the disconnect switch (power switch) on the back of the unit.

Mains power may be removed from the product by turning off the power switch on the back of the unit.

Power cords used with this device in North America must be rated by Underwriters Laboratories for hospital use.

Power cords used with this device in Europe must meet the requirements of IEC 227 Designation 53 or IEC 245 Designation 53.

Correct and safe operation of the digitizer requires familiarity with information that is not marked on the product. The following symbols indicate that the operator should consult the manual for additional information:

This Class 1 LED device is safe under reasonably foreseeable conditions of operation.

The LED illumination system consists of 16 Class 1 LEDs, a mirror system to spread the light, and a diffuser to distribute the light approximately uniformly across an area of 2.4 sq. in (15.5 sq. cm). Light from the LED illuminator may be indirectly observed in the digitizer's film entry and exit areas.







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Intended Use

The NDT*PRO* Industrial Film Digitizer is intended for making digital copies of x-ray films for non-destructive testing applications. This device is not intended for medical use.

Unpack

In this chapter, you will:

- Unpack and inspect the digitizer's parts.
- Identify the digitizer's parts.

1. Look for Damage

Before unpacking the Digitizer, examine the shipping carton for damage.

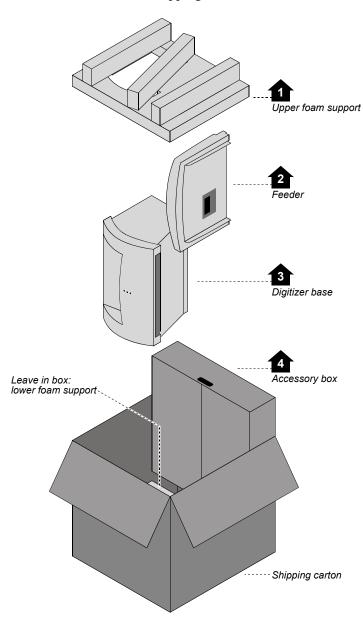
If the carton is damaged:

- Notify the shipper immediately.
- Take photographs of the damage.
- Send pictures and description of damage to: <u>medtech@3dsystems.com</u>.
- Notify VIDAR Support at 1-703-471-7070.

2. Unpack the shipping carton

IMPORTANT: Save all the packing materials. If you need to ship the digitizer later, you should repack the digitizer in the original materials by reversing the procedure described here. Failure to properly pack, or failure to use VIDAR authorized shipping materials, will void the product's warranty, and will likely result in costly repairs.

Remove items from the shipping carton in the order shown below.

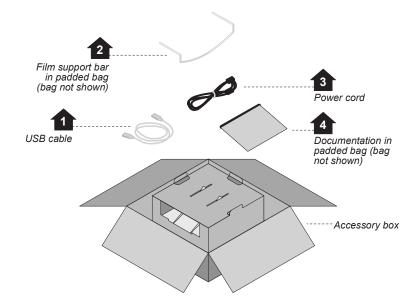


Note: For clarity, this illustration does not show the plastic bags surrounding the digitizer and feeder.

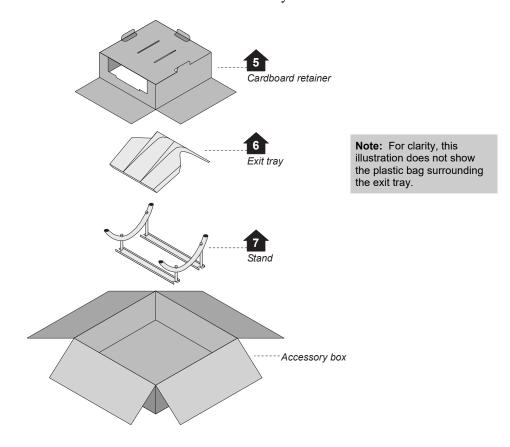
IMPORTANT: Save all the packing materials. If you need to ship the digitizer later, you should repack the digitizer in the original materials by reversing the procedure described here. Failure to properly pack, or failure to use VIDAR authorized shipping materials, will void the product's warranty, and will likely result in costly repairs.

3. Unpack the Accessory Box

a. Remove these items from the accessory box:

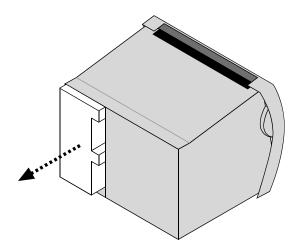


b. Then remove these items from the accessory box:



4. Unwrap

- a. Unwrap all items.
- b. Remove the foam block from the rear of the digitizer base:



IMPORTANT: Save the carton and all packing materials. If you need to ship the digitizer later, you **must** repack it using the original wire ties, plastic bags, foam supports and cartons. Instructions for repacking are provided in the "Packing the film digitizer for shipment" section of this manual.

5. Identify the Components

| ✓ | Item |
|---|--|
| | Digitizer base |
| | Exit tray |
| | Film feeder |
| | Film support bar |
| | Stand |
| | Power cord: 115V (p/n 4043-001) or 230V (p/n 2104-006) |
| | Quick setup card |
| | USB cable: 6 foot (p/n 4618) |
| | VIDAR NDT <i>PRO</i> Industrial Film Digitizer CD |



Digitizer Base



Exit Tray



Film Support bar





Film Feeder

6. If Anything Is Missing...

Immediately contact your VIDAR supplier.

7. Activate Your Product Warranty

- a. Locate the "Warranty information card" form on the NDTPRO Industrial Film Digitizer CD.
- b. Print the "Warranty information card."
- c. In the "Product information" section, record this information:
 - Digitizer serial number.
- d. Complete the form.
- e. Mail or fax the form to VIDAR Systems Corp.

If your digitizer needs service, this information should be on file at VIDAR.

Contact VIDAR Technical Support if you have any questions about installing or using your VIDAR film digitizer:

Phone: +1.800.471.SCAN (+1.800.471.7226)

+1.703.471.7070 outside the U.S.

E-mail: medtech@3dsystems.com

NEXT: Go to "Setting up" ⇒

Setting Up

The digitizer must be placed on a counter or tabletop.

SAFETY WARNING

Never place the digitizer on the floor.

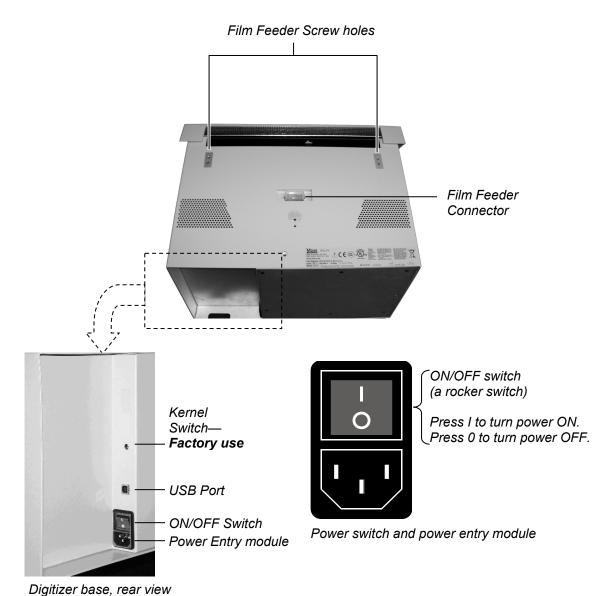






1. Identify Important Features

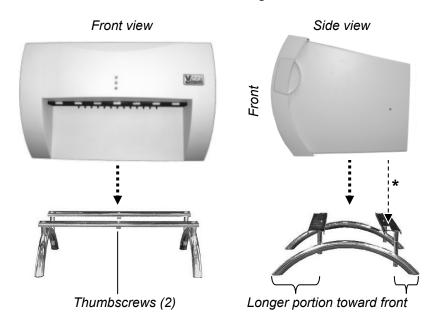
Look over the digitizer base and locate the features shown in this section. You will need to know where these features are when you assemble the digitizer.



_.g.u_c. 20.00, .cu. ..c..

2. Assemble the Digitizer

- 1. Place the stand on a solid, flat surface (such as a table).
- 2. Place the digitizer base on the stand as shown below. Tighten the thumbscrews on the bottom of the stand to secure it to the digitizer.

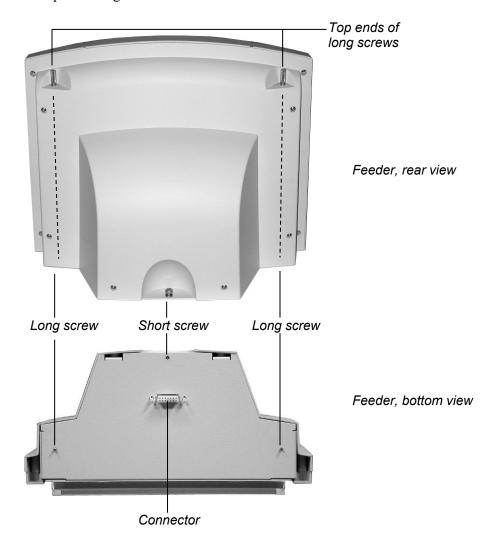


*Vent in bottom of base must be over cutout in stand

3. Attach the feeder to the digitizer:

a. Note the three screws protruding from the bottom of the feeder. These mate to holes in the digitizer base. Two of the screws are very long—their tops ends are near the top of the feeder.

Also note the connector on the bottom of the feeder. It mates to the connector on top of the digitizer base.



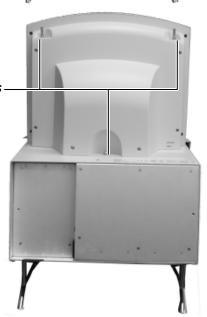
b. Place the feeder on top of the digitizer, and slide the feeder connector into the digitizer connector.



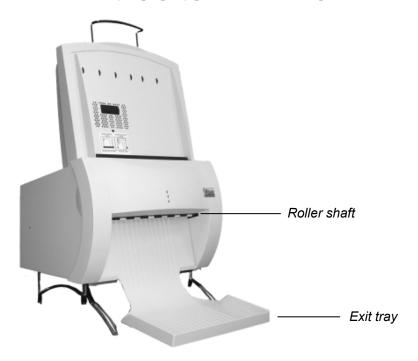


- c. On the rear of the feeder, tighten the three screws to secure the feeder to the digitizer base.

 Screws-
 - You may need to move the feeder slightly to get the screws started in the holes.
 - Tighten each screw a few turns, then repeat until all are finger tight.

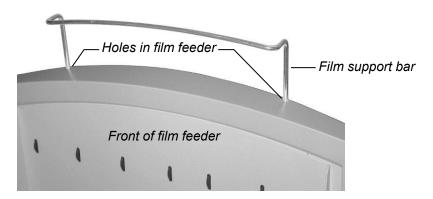


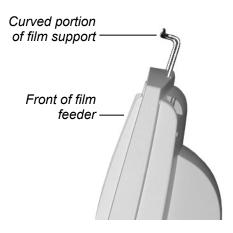
4. Install the exit tray by hooking it over the notched plastic edge just below the rollers. When the exit tray is properly positioned, it will be parallel to the roller shaft.



Properly installed exit tray

5. Insert the film support bar legs into the two holes on the film feeder's top edge. The film support bar's curved center portion must face the front of the film feeder.





IMPORTANT: Do not lift or carry the digitizer using the film support bar.

Warning

Before you begin the installation procedure, turn off all power to the computer and peripherals.

Précaution

Avant de commencer la connexion, assurez vous que votre ordinateur soit bien éteint.

Advertencia

Antes de continuar con la instalación, favor de apagar su computadora y periférico.

Warnung

Vor dem Installieren den Computer und angeschlossene Geräte ausschalten.

3. Connect the Power Cord

1. Connect the power cord to the digitizer's Power Entry Module (PEM), located on the rear of the digitizer.



2. Connect the other end of the power cord to a grounded power outlet.

Note: The film digitizer has an auto-sensing power supply. When you apply power, the digitizer will detect the voltage and set itself for proper operation.

NEXT: "Device Driver Installation" □

Device Driver Installation

Install Device Drivers for Windows 7, 8, and 10

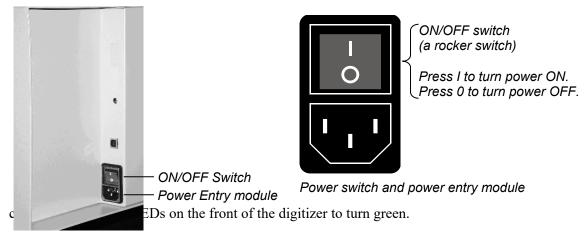
The USB driver is required for all installations to assure that the computer communicates with the digitizer.

1. Apply Power to the Digitizer

a. Ensure the PC is turned off.

Note: Always turn on the digitizer before turning on the computer. This enables the computer to recognize the digitizer.

b. Turn on the digitizer. The on/off switch is located on the back of the digitizer.



Digitizer base, rear view

2. About the VIDAR Drivers

The VIDAR driver is designed to provide compatibility between VIDAR NDT*PRO* Digitizers and Windows 7, 8, & 10. Features of this driver include:

■ Installation/setup wizard for easy and consistent installation.

3. Install the VIDAR Drivers

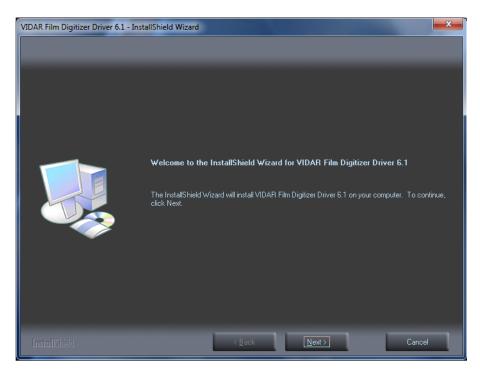
Note: The computer must be running Windows 7, 8, & 10 Professional 32-bit or 64-bit.

Note: These instructions have been successfully tested on a wide range of Windows 7, 8, & 10 systems. In rare instances, you may have difficulty installing the VIDAR driver. If that happens, try again after logging on as Administrator, or as a user with Administrator rights.

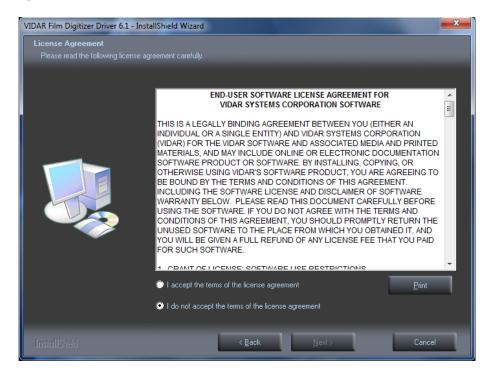
You will need the VIDAR NDTPRO Industrial Film Digitizer CD.

- a. Be sure the digitizer is turned ON and all three LEDs are green, but that it is NOT connected to the PC. Wait until you are prompted to connect the digitizer to the PC.
- b. Turn on the PC.
- c. Insert the **VIDAR NDT***PRO* **Industrial Film Digitizer CD** into the CD-ROM drive. Browse to the CD and double-click on *19090-003 VIDAR_Driver_6.1 Online Install Package.exe* on the CD to install the driver.

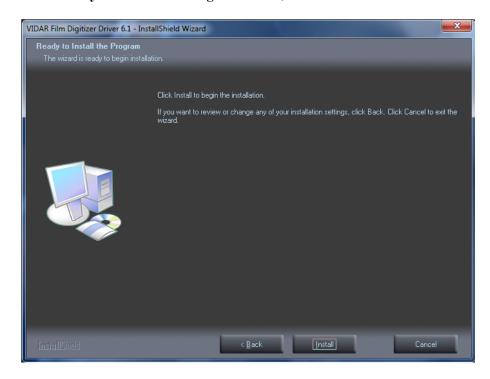
d. In the first screen, click Next >.



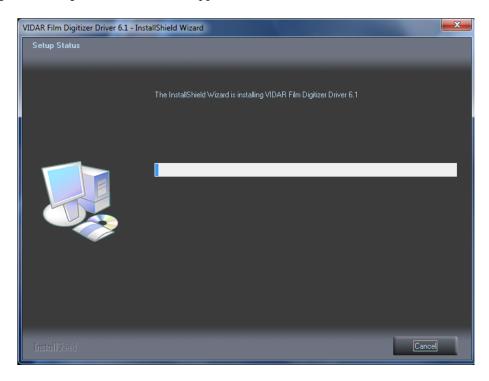
e. In the License Agreement screen, activate I accept the terms of the license agreement, then click Next >.







g. The Setup Status screen will appear. Wait while the files are installed.



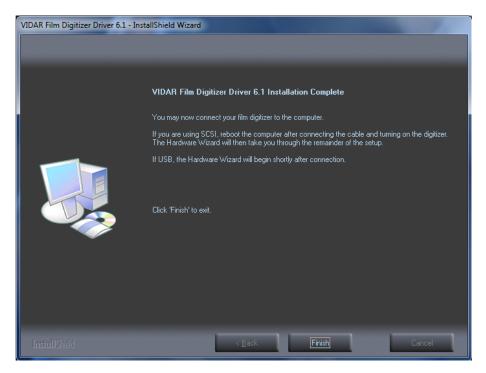
h. When prompted "Would you like to install this device software?" Click Install. When installing on Windows 7, 8, & 10, 64 bit the name will appear as Jungo



i. When installing on Windows 7, 8, & 10, 32 bit the name will appear as VIDAR



j. InstallShield will indicate that installation is complete. However, the driver installation is not complete.



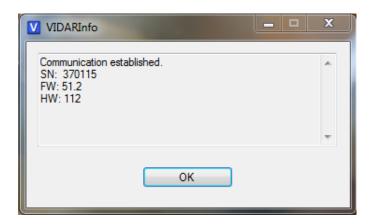
k. Earlier, you connected a USB cable to the digitizer. Now, attach the connector on the other end of that cable to a USB 2.0 or 3.0 port on the computer.

Note: Wait 30 seconds after you connect the digitizer before you launch the VIDARInfo program. This ensures the computer has recognized the new hardware and has installed the driver properly.

1. When using Windows 7, 8, & 10 64 bit - On the desktop, double-click the **VIDARINFO** icon.



m. The window shown below will appear. This indicates that the digitizer is communicating with the computer.



n. Click "OK" if the Digitizer Information is present on the Screen.

- 1. Start > Control Panel > Scanners and Cameras.
- 2. In the device window, <u>right</u>-click **VIDAR Film Digitizer**, then click **Properties** in the pop-up menu.
- 3. In the VIDAR Film Digitizer Properties window, click the VIDAR Properties tab. If the driver is properly installed, the properties will appear and if the digitizer is ready to digitize its serial number will appear. If Not Ready appears the digitizer is normalizing.



Note that:

- The digitizer will report as "VXR-12" for backward compatibility.
- You may not see the same firmware and hardware version as shown in the window above.
- The serial number will not report if the digitizer was just powered on.

The digitizer is now ready to operate. Please refer to the "User's Guide for VIDAR NDT*PRO* Digitizers" found on the **VIDAR NDT***PRO* **Industrial Film Digitizer CD** for operating instructions.

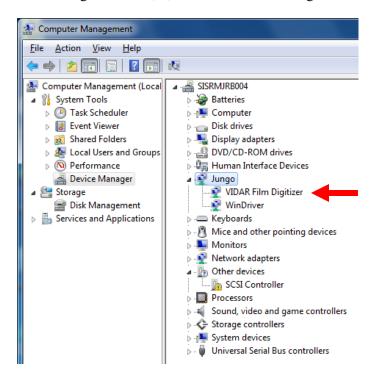
You may need to install other scanning application software to run the digitizer.

Note: While the digitizer works with both 32-bit and 64-bit versions of Windows 7, 8, & 10, it only works with 32-bit image processing applications.

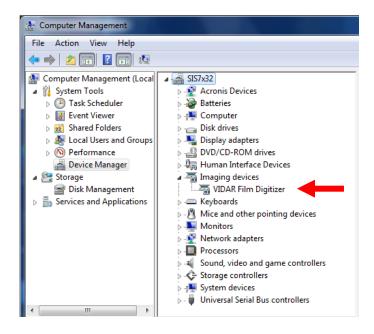
o. Additional communication testing can be found on the next page if VIDARInfo does not properly populate as expected above.

In the **Computer Management** window, the digitizer is listed under different name depending on the Bit of the OS.

When using Window 7, 8, & 10 64 Bit OS the Digitizer is listed under Jungo



When using Window 7, 8, & 10 32 Bit OS the Digitizer will be listed under **Imaging Devices**



Appendix:Electromagnetic Guidance

Caution: Medical electrical equipment.

EMC (Electro Magnetic Compatibility) must be considered before any medical electrical equipment is installed or put into service. Follow the information in the accompanying documentation when installing and operating the VIDAR Digitizer.

Caution: Portable or mobile RF communication equipment can effect Medical Electrical equipment.

Caution: Using the Digitizer adjacent to or stacked with other equipment may cause interference between the equipment. Before utilizing stacked or adjacent equipment, verify proper functionality of all equipment in the actual configuration in which it will operate.

Caution: Connecting the Digitizer to equipment that is not rated CISPR 11 class A or class B may alter the electromagnetic characteristics.

Caution: In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

| Guidance and manufacturer's declaration – electromagnetic equipment | | |
|---|------------|---|
| Emissions test | Compliance | Electromagnetic environment - guidance |
| RF Emissions | Group 1 | The Digitizers use RF energy only for their internal functions. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment. |
| CISPR11 | Class A | The Digitizers are suitable for use in all establishments other than domestic and those directly connected to the public low voltage power supply network that supplies buildings used for domestic purposes. |

Guidance And Manufacturer's Declaration – Electromagnetic Immunity Enclosure Port

The VIDAR NDTPRO Industrial Film Digitizer is intended for use in the electromagnetic environment specified below. The customer or end user of the Digitizer should assure that it is used in such an environment.

| Immunity test | Test method | Immunity Test Levels Professional healthcare facility environment |
|--|---------------|---|
| Electrostatic Discharge (ESD) | IEC 61000-4-2 | ± 8 kV contact ± 2 kV, ±4 kV, ± 8 kV, ± 15 kV air |
| Radiated RF EM fields | IEC 61000-4-3 | 3 V/m 80 MHz – 2,7 GHz 80% AM at 1 kHz |
| Proximity fields from RF wireless communications equipment | IEC 61000-4-3 | See Table A |
| Rated power frequency magnetic fields | IEC 61000-4-8 | 30 A/m 50 or 60 Hz |

Guidance And Manufacturer's Declaration - Electromagnetic Immunity - Input a.c. power

The VIDAR NDTPRO Industrial Film Digitizer is intended for use in the electromagnetic environment specified below. The customer or end user of the Digitizer should assure that it is used in such an environment.

| Immunity test | Test method | Immunity Test Levels Professional healthcare facility environment |
|--|--------------------------------|---|
| Electrical fast transient / bursts a) I) o) | IEC 61000-4-4 | ± 2 kV 100 kHz repetition frequency |
| Surges a) b) j) o) Line-to-line | IEC 61000-4-5 | ± 0,5 kV, ± 1 kV |
| Surges a) b) j) k) o) Line-to-ground | IEC 61000-4-5 | ± 0,5 kV, ± 1 kV, ±2 kV |
| Conducted disturbances induced by RF fields c)d)o) | IEC 61000-4-6 | 3 V $^{\rm m)}$ 0,15 MHz $-$ 80 MHz 6 V $^{\rm m)}$ in ISM bands between 0,15 MHz and 80 MHz $^{\rm n)}$ 80 % AM at 1 kHz $^{\rm e)}$ |
| | | 0 % <i>U</i> _T ; 0,5 cycle ^{g)} At 0°, 45°, 90°, 135°, 180°, 225°, 270°, and 315° ^{q)} |
| Voltage dips ^{f) p) r)} | IEC 61000-4-11 | $0~\%~U_T;1$ cycle and $70~\%~U_T;25/30$ cycles $^{h)}$ Single phase: at 0° |
| Voltage interruptions f) i) o) r) | IEC 61000-4-11 | 0 % <i>U</i> _T ; 250/300 cycle ^{h)} |
| Note: U⊤ is the A.C. mains voltage | ge prior to application of the | e test level. |

Guidance And Manufacturer's Declaration – Electromagnetic Immunity - Input a.c. power Continued:

- a) The test may be performed at any one power input voltage within the ME Equipment or ME SYSTEM RATED voltage range. If the ME EQUIPMENT or ME SYSTEM is tested at one power input voltage, it is not necessary to re-test at additional voltages.
- b) All the ME EQUIPMENT and ME SYSTEM cables are attached during the test.
- c) Calibration for current injection clamps shall be performed in a 150 Ω system.
- d) If the frequency stepping skips over an ISM or amateur band, as applicable, an additional test frequency shall be used in the ISM or amateur radio band. This applies to each ISM and amateur radio band within the specified frequency range.
- e) Testing may be performed at other modulation frequencies identified by the RISK MANAGEMENT PROCESS.
- f) ME EQUIPMENT and ME SYSTEMS with a d.c. power input intended for use with a.c.- to d.c. converters shall be tested using a converter that meets the specifications of the MANUFACTURER of the ME EQUIPMENT or ME SYSTEM. THE IMMUNITY TEST LEVELS are applied to the a.c. power input of the converter.
- g) Applicable only to ME EQUIPMENT and ME SYSTEMS connected to single-phase a.c. mains.
- h) E.g. 10/12 means 10 periods at 50 Hz or 12 periods at 60 Hz.
- i) ME EQUIPMENT and ME SYSTEMS with RATED input current greater than 16 A / phase shall be interrupted one for 250/300 cycles at any angle and at all phases at the same time (if applicable). ME EQUIPMENT and ME SYSTEMS with battery backup shall resume line power operation after the test. For ME EQUIPMENT and ME SYSTEMS with RATED input current not exceeding 16 A, all phases shall be interrupted simultaneously.
- j) ME EQUIPMENT and ME SYSTEMS that do not have a surge protection device in the primary power circuit may be tested only at ± 2kV line(s) to earth and ± 1 kV line(s) to line(s).
- k) Not applicable to CLASS II ME EQUIPMENT and ME SYSTEMS.
- I) Direct coupling shall be used.
- m) r.m.s., before modulation is applied.
- n) The ISM (industrial, scientific and medical) bands between 0,15 MHz and 80 MHz are 6,765 MHz to 6,795 MHz; 13,553 MHz to 13,567 MHz; 26,957 MHz to 27,283 MHz; and 40,66 MHz to 40,70 MHz. The amateur radio bands between 0,15 MHz and 80 MHz are 1,8 to 2,0 MHz, 3,5 MHz to 4,0 MHz, 5,3 MHz to 5,4 MHz, 7 MHz to 7,3 MHz, 10,1 MHz to 10,15 MHz, 14 MHz to 14,2 MHz, 18,07 MHz to 18,17 MHz, 21,0 MHz to 21,4 MHz, 24,89 MHz to 24,99 MHz, 28,0 MHz to 29,7 MHz and 50,0 MHz to 54,0 MHz.
- o) Applicable to ME EQUIPMENT and ME SYSTEMS with RATED input current less than or equal to 16 A / phase and ME EQUIPMENT and ME SYSTEMS with RATED input current greater than 16 A / phase.
- p) Applicable to ME EQUIPMENT and ME SYSTEMS with RATED input current less than or equal to 16 A / phase.
- q) At some phase angles, applying this test to ME EQUIPMENT with transformer mains power input might cause an overcurrent protection device to open. This can occur due to magnetic flux saturation of the transformer core after the voltage dip. If this occurs, the ME EQUIPMENT or ME SYSTEM shall provide BASIC SAFETY during and after the test.
- r) For ME EQUIPMENT and ME SYSTEMS that have multiple voltage settings or auto ranging voltage capability, the test shall be performed at the minimum and maximum RATED input voltage. ME EQUIPMENT and ME SYSTEMS with a RATED input voltage range of less than 25 % of the highest RATED input voltage shall be tested at one RATED input voltage within the range.

Immunity to proximity fields form RF wireless communications equipment

The ENCLOSURE PORT of ME EQUIPMENT and ME SYSTEMS shall be tested as specified in Table A using the test methods specified in IEC 61000-4-3.

The frequencies and services listed in Table A are representative examples that are based on RF communications equipment in use at the time of publication of this collateral standard. The test specification does not attempt to cover every frequency and service used in every country. The RISK MANAGEMENT PROCESS should take current communications services into account. Testing should be performed at the additional frequencies identified that are not represented in Table A.

While communication might not be possible when ME EQUIPMENT that includes radio equipment is tested in its bandwidth, the ME EQUIPMENT or ME SYSTEM shall still be able to provide its BASIC SAFETY and ESSENTIAL PERFORMANCE.

Table A- Test specifications for Enclosure Port immunity to RF wireless communications equipment.

The customer or the user of the VIDAR NDTPRO Industrial Film Digitizer can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Digitizer as recommended below, according to the maximum output power of the communications equipment.

| Test frequency (MHz) | Modulation ^{a)} | Maximum power (W) | Distance (m) | Immunity Test Level (V/m) |
|-------------------------|--|----------------------|-----------------|---------------------------------|
| 385 | Pulse modulation 18 Hz | 1,8 | 0,3 | 27 |
| 450 | FM ^{b)} ±5 kHz deviation 1 kHz sine | 2 | 0,3 | 28 |
| 710 | Pulse modulation 217 Hz | 0,2 | 0,3 | 9 |
| 745 | | | | |
| 780 | | | | |
| 810 | Pulse modulation 18 Hz | | | |
| 870 | | 2 | 0,3 | 28 |
| 930 | | | | |
| 1 720 | Pulse modulation 217 Hz | | | |
| 1 845 | | 2 | 0,3 | 28 |
| 1 970 | | | | |
| 2 450 | Pulse modulation 217 Hz | 2 | 0,3 | 28 |
| 5 240 | Pulse modulation 217 Hz | | | |
| 5 500 | | 0,2 | 0,3 | 9 |
| 5 785 | | | | |

NOTE: If necessary to achieve the Immunity Test Level, the distance between the transmitting antenna and the ME Equipment or ME System may be reduced to 1 m. The 1 m test distance is permitted by IEC 61000-4-3

- a) The carrier shall be modulated using a 50% duty cycle square wave signal.
- b) As an alternate to FM modulation, 50% pulse modulation at 18 Hz may be used because while it does not represent actual modulation, it would be worst case.

The Manufacturer should consider reducing the minimum separation distance, based on RISK MANAGEMENT, and using higher IMMUNITY TEST LEVELS that are appropriate for the reduced minimum separation distance. Minimum separation distances for higher IMMUNITY TEST LEVELS shall be calculated using the following equation:

$$E = \frac{6}{d} \sqrt{P}$$

Where P is the maximum power in W, d is the minimum separation distance in m, and E is the IMMUNITY TEST LEVEL in V/m.

If the ME EQUIPMENT or ME SYSTEM complies with the higher IMMUNITY TEST LEVELS for this test, the 30 cm minimum separation distance (per above table) may be replaced with minimum separation distances calculated from the higher IMMUNITY TEST LEVELS.

Appendix: Symbols

| Symbol | Description |
|--------------|---|
| <u></u> | Indicates the need for the user to consult the instructions for use for important cautionary information such as warnings and precautions that cannot, for a variety of reasons, be presented on the device itself. |
| i | Indicates the need for the user to consult the instructions for use. |
| C UL US 5RA9 | Underwriters Laboratories classification symbol |
| CE | Compliance to EU Directives |
| EC REP | Authorized Representative in the European Community |
| | Indicates the Device Manufacturer |
| | This symbol on the product indicates that this product must not be disposed of as unsorted municipal waste. Instead it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for recycling of waste electrical and electronic equipment. For more information about where you can dispose of your waste equipment for recycling please contact your local city office, your household waste disposal service or the shop where you purchased the product. |





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