

// Integra Mini 300

Kompaktblitzgerät

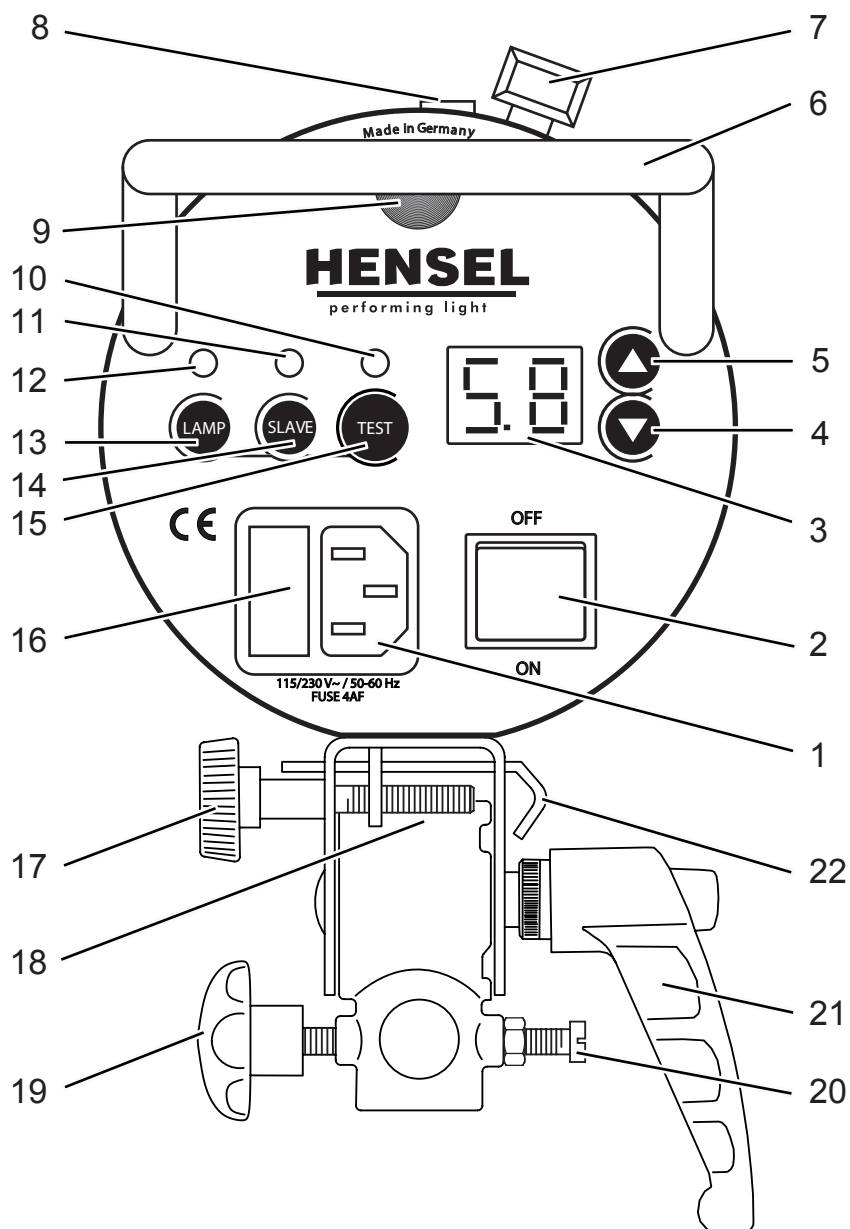
Compact flash



BEDIENUNGSANLEITUNG //
USER MANUAL

WWW.HENSEL.DE

HENSEL
performing light





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Printing errors excepted and subject to modifications of technical data. The listed data are standard values and are not to be misconstrued as guaranteed values in a legal sense. Values can deviate depending on component tolerance.

98.0005.00

Effective date: 03/2011

1 Preface

Dear Photographer,

By purchasing a Hensel-Visit compact flash unit **Integra Mini 300**, you have purchased a high-quality and high-performance product.

We want you to use this product successfully for years to come and the following user information will provide you with the necessary information.

Only by observing this information do you keep the warranty effective, prevent damages, and extend the useful life of this product.

The company Hensel-Visit took great care and observed all pertinent regulations in order to manufacture a safe product of highest quality. Stringent quality management procedures ensure our high quality level, also regarding our large-scale production series.

Please add your part and handle this unit with the necessary care.

Do not hesitate to contact us if you have questions regarding the use of this product.

We wish you great success and “good light”.

HENSEL-VISIT International GmbH

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3 Safety indication

In addition to the general rules for the use of electrical equipment, the following cautionary measures must be observed.

Please read and observe the following information before use.

Supply a copy of the safety information when selling, leasing, or otherwise distributing this device.



ATTENTION!

Improper use of this device, disregard of the safety instructions, or manipulation of the safety features can cause damage, bodily harm, electric shock, or even death.

Proper use The compact flash unit Integra Mini 300 is intended for professional use by a photographer. It is only intended to be used with the HENSEL-VISIT approved accessories listed in this manual.

Improper use The unit is not to be used for applications other than those described herein, especially not for other electrical applications.

Set-up and initial use

- Do not use the flash unit in environments that include explosion hazards.
- Make sure that the power supply corresponds with the information on the labelling.
- Compact flash units and generators must only be connected to a grounded power supply.
- Check the protective conductor function before initial use.
- Only use plugs/connectors with intact contacts. Burned or corroded plug-contacts can be the cause of fires. Defective plugs can cause substantial damage to sockets.
- Do not connect accessories manufactured by other companies even when these look similar or alike.
- Avoid placing the cables on the studio floor to prevent tripping points and damage. If this cannot be avoided, make

sure that the cables cannot be damaged by vehicles, ladders etc.

- Damaged housings and cables need to be replaced immediately by an authorized service point.
- Keep minimum distances free surrounding the device to ensure proper ventilation.
- Make sure ventilation slots are kept free during use to ensure proper ventilation.
- Do not place any objects into ventilation slots.
- Do not place any objects (coffee cups, containers filled with liquids, etc.) on top of the device.
- Protect the device from moisture, dripping or splashing water.
- Choose safe locations for placement of the device and make sure that it cannot fall into pools or bodies of water.
- Keep sufficient safety distance from flammable materials like decorations, papers, etc. to prevent a possible fire.
- Secure the unit with a back up support when attaching it to the ceiling or an extension rod. Use the safety screw **20** inside the tilting bracket and also secure the device with an arresting cable. Arresting cables can be ordered from HENSEL-VISIT, see „11 Accessories“ on page 26.

Generators, compact flash units, and flash heads



ATTENTION!

Defective flash tubes and false handling can pose a mortal danger.

A damaged flash tube can mean mortal danger because you could come in contact with the electrodes conducting high voltage. Therefore, never touch unprotected electrodes inside the flash tube!

Before replacing the flash tube or modeling light, the unit must be switched off and disconnected from the power supply. Even when the unit is disconnected from the power supply, in case of a malfunction the condensers could still be highly charged. This means touching the device could pose a life-threatening danger.

Halogen lamps and flash tubes can burst which is why they must only be used with properly mounted safety cover.



ATTENTION!

Contact with capacitor voltage can pose a mortal danger.

Repairs or opening the housing must only be done by an authorized customer service provider.

Working with the device

- Do not flash directly into someone's eyes from a short distance since this can lead to eye damage.
- Do not look directly into the flash tube or the reflector. The flash could be triggered accidentally.
- Ventilate rooms regularly and sufficiently when using flash units to prevent accumulation of high ozone levels which may be caused by the operation of strong flash units.
- Cover devices not in use with a proper dust guard when working in dusty environments.

4 General

Description

The **Integra Mini 300** is a high-performance, entry-level compact flash unit. A bright, proportional modeling light, adjustable in 6 f-stops, high-quality performance electronics and an EH-reflector connector are built-in to a sturdy metal housing.

Scope of delivery

Please check the scope of delivery before initial use.

Note:

The scope of delivery may vary depending on order configuration and country of delivery. Please see corresponding information on your delivery documents and order forms.

Standard scope of delivery includes:

- Flash tube, single-coated, plug-in type
- Modeling light, enclosed
- Tilting bracket, including umbrella holder
- Set of cables: power cord and sync cord
- Transport cap
- User manual

5 Technical data

Unit series/ unit type	Integra Mini 300
Performance output:	300 J
Lead aperture 100 ASA, t 1/60, 12"-Reflektor, 100% performance 1 m distance / 2 m distance:	f 64 3/10 / f 32 3/10
Flash duration time (t 0,5s) in seconds at 100% performance output:	1/1900 s
Flash tube:	Item.-No. 9450401: plug-in type, single-coated
Minimum recharge time:	.25 s
Recharge time at 100% performance output:	1.2 s
Flash performance adjustment:	10 - 5 = 6 f-Stop / 300 bis 9 J
Modeling light:	300W/G6.35/115V bzw. 300W/G6.35/230V
Modeling light adjustment:	OFF / proportional / AUTORED
Sync-plug/ -voltage:	6.3 jack plug, Mono / 5 VDC
Fuses:	F 4 A H
Power supply :	Multivoltage 110-230 V
Weight:	approx. 2.3 kg
Dimensions in cm (only casing):	LxWxH 23x12,3x14
Dimensions in cm overall:	LxWxH 26x12,3x18
Additional features:	Thermal check of performance electronics
- Daily flash counter/ reset function:	yes
- Integrated ventilator:	yes
- Photo cell, switchable:	yes
- Protective glass cover:	optional
- Display:	2x7-segment for flash performance/ daily flash count/ AUTORED/error codes
- User surface	Foil with touch keys, luminescent, HENSEL-user-logic
Item No.:	8370
<i>Technical modifications excepted. The listed data consists of typical values which can deviate depending on component tolerance.</i>	

6 Summary of control elements

- 1 Power connector plug
- 2 Power switch
- 3 Display for selected energy/flash counter
- 4 Adjustment key DOWN
- 5 Adjustment key UP
- 6 Handle bar
- 7 Locking mechanism reflector holder
- 8 Sync-plug
- 9 Photo cell
- 10 Display flash ready
- 11 Display Slave (photo cell)
- 12 Display modeling light
- 13 Modeling light
- 14 Slave (photo cell on/off)
- 15 Test trigger flash
- 16 Fuse and spares
- 17 Locking mechanism umbrella holder
- 18 Compartment for spare fuses
- 19 Locking mechanism for stand
- 20 Safety screw for suspended mounting
- 21 Locking mechanism tilting-bracket
- 22 Umbrella holder

7 Initial use



ATTENTION!

Please make sure that the unit is not connected to any power supply when preparing for initial use.

Acclimatization

When relocating the device from and to locations with marked temperature differences, place the unit inside the room where it is to be used and first let it sit for some time. This prevents moisture built-up which can cause creeping currents.

Removal of transport cap

The transport cap protects the flash tube / protective glass cover during transport and when stored without a reflector.

- ➡ Push the locking mechanism of the reflector holder **7** against the spring resistance up to the arrester.
- ➡ Pull the protective transport cap straight out from the holder.



ATTENTION!

Do not switch on the device when the transport cap is attached. The heat development of the modeling light could cause a fire.

Protective glass cover



ATTENTION!

Make sure that the flash tube and modeling light do not become damaged during installation or removal.

The protective glass cover snaps into place via three pre-mounted springs.

Mount

- ➡ Tilt the protective glass cover slightly and insert it into one of the springs.
- ➡ Then snap the protective glass cover into the second spring by applying light pressure, and continue this procedure until it snaps securely into the third spring.

- Disassemble**
- ➡ Tilt the protective glass cover slightly until it releases from the first and then the second spring.
 - ➡ Remove the protective glass cover by gently pulling it straight out of the last spring.

Note:

Protective glass covers are available in different types. They can change the color temperature as well as the light characteristics!

Insert flash tube

Compact flash units and the majority of flash units have plug-in flash tubes which you can replace yourself. Please make sure and observe all safety precautions.

Replacing the flash tube is described in detail in the chapter on maintenance; see „Replacement of flash tube“ on page 20.

Inserting halogen lamp for modeling light

The halogen lamp for the modeling light is plug-in style. Observe the following instructions when inserting the enclosed halogen lamp:



Note:

Avoid handling the lamp with your bare hands to prevent contaminating the glass of the lamp with the oil of your skin. This would reduce the operational life of the lamp. Please use cotton gloves.

Make sure you do not damage the flash tube when inserting it.

- ➡ Place the pins in the lamp socket and carefully push down, alternating the pressure on both pins until engaging the arrester of the lamp socket.

Set-up



ATTENTION!

Please regard the general safety instructions reference set-up location and surrounding area in the chapter „Set-up and initial use“ on page 5.

Compact flash units can be used regardless of tilting angle. Please note that extremely angled positions can cause faster heat built-up in the device, especially in connection with long, tubular attachments. In severe cases, this can trigger the automatic thermal switch-off function!

Power supply



ATTENTION!

Make sure that the power supply corresponds to the information on the labelling/ technical data sheet before connecting the compact flash unit.

Compact flash units must only be connected to a grounded power supply.

The type label is located at the bottom side of the housing. The compact flash unit **Integra Mini 300** is solely approved for use with 115 V/230 V/ 50-60 Hz operation.

It features Multivoltage technology which means the unit automatically adjusts to the applicable voltage.

Fuse protection, building

Power sockets intended for the connection of devices have to be protected with a minimum of 10 A.

Fuse protection, modeling light

The safety fuse ensures the protection of the modeling light.

The compact flash unit **Integra Mini 300** is protected by a 4 A fuse which reacts quickly (F 4 A H).

The listed safety values are valid when the device is used with a 300 W halogen lamp.

(Please note „Replacing the fuses“ on page 19).

Fuse protection, device

The inside of the unit contains a built-in fuse. When this fuse responds, the unit is damaged.



ATTENTION!

Only authorized dealers may replace this fuse, see „10 Customer service points“ on page 25.

8 Operation

Switch on/off

The main switch **ON/OFF 2** turns the compact flash unit on or off. The unit is ready to flash when the ready indicator **10** lights up.



ATTENTION!

The power switch must be accessible and operational at all times.

When you turn on the unit, it defaults to the last settings used. This means, the unit “remembers” the settings at turn-off.

Modeling light

The modeling light is switched on by using the key **LAMP 13**. The setting is indicated by LED **12** above the touch pad. If the LED lights up permanently, the modeling light is always available at full power, independent of the flash performance output. After pressing the LAMP key a second time, the LED blinks slowly and the light output of the modeling light is proportional to the flash performance output. One more push of the key turns the modeling light off. If you press the key for one second, the AUTORED function is activated (see below), no matter what mode you are currently using.

Automatic modeling light reduction (AUTORED)

The compact flash unit's modeling light is equipped with an energy saving mode. After a pre-selected time, the light is automatically reduced to level 9 when the setting is between 9.1 and 10. The default set by the manufacturer is 35 min. This conserves energy and extends the lamp's life span. If the modeling light settings are lower than the above listed values, the light is not dimmed. The original output is restored when you touch any key.

This is how you set the switch-off time:

- Press the key **LAMP 13** for one second.

The LED **12** starts blinking. The current switch-off time is displayed in display **3**.

- ➡ Change the time with the keys ▼ 4 and ▲ 5 in 5-minute steps, up to a maximum of 90 minutes.
Selecting „--“ turns the function off completely.

Normal operation is resumed automatically 5 sec. after the last use of any key.



Note:

Turn off the modeling light during longer breaks to conserve energy and to extend the life span of the lamp.

Performance output adjustment

The keys ▼ 4 und ▲ 5 are used to adjust the flash output in steps covering a performance output range of 6 f-stops. ▲ increases the output, ▼ reduces the flash unit's output.

- A **short** push on the touch key changes the output in 0.1 f-stop increments
- A **longer** push on the touch key changes the output in full f-stops

The LED display 3 shows the selected settings from 5.0 (lowest output) to 10 (maximum output).

Note:

When the performance output is reduced to a lower setting, the stored energy has to be dumped before using the flash. To do this, use the test trigger function.

Test flash

The touch key **TEST 15** allows you to manually trigger the test flash. The unit flashes with fastest flash sequence when the touch key is pressed longer.

Flash ready

The green LED 10 above the **TEST** key 15 indicates that the flash is ready.

Synchronization via cable

The compact flash unit is connected to the camera via synchronization cable by connecting the jack plug to the sync plug **8** on the camera.

The synchronizing process employs the latest semiconductor technology and warrants reliable triggering of the flash unit even when using older camera models with mechanical contacts. The lower voltage of the sync plug makes safe and reliable operation possible, also with the use of modern digital cameras.



Note:

Based on the multitude of possible electronic circuits in different cameras which are used for the synchronization, we are not liable for possible damage to a camera used for flash triggering. Please contact the camera's manufacturer before using a non-standard camera for such purpose.

Synchronization via slave

The built-in slave **9** triggers the flash when light from another flash is detected (slave-mode).

This mode of operation is activated/deactivated by using the touch key **SLAVE 14**. The active setting is indicated via LED **11** above the touch pad.

The slave is an impulse photo cell. It only triggers the flash when the striking light is brighter than the ambient light.



Note:

Make sure that no other bright, ambient light reaches the photo cell. If this cannot be avoided, please use a cable or radio transmitter for synchronization.

Synchronization via radio transmitter

The optional radio-control set **Strobe Wizard Plus** Set can be used to conveniently synchronize camera and flash unit via radio remote control. See „11 Accessories“ on page 26.

- In this set-up, you have to switch off the slave function with the touch key **SLAVE 14**.

Daily flash count

The number of flashes which were triggered since last resetting the counter is displayed on LED-display **3**.

This is how you read the daily flash count:

- ➡ Hold down the touch key **SLAVE 14** for one second.
The LED **11** is blinking and Display **3** shows the number of flashes.

The range of the counter is up to 9999. The double-digit LED display **3** indicates the number in two steps. The numbers from 00 to 99 are shown in the first setting. The two additional digits are shown when pressing the key **▲ 5**. The touch keys **▲ 5** and **▼ 4** allow you to cycle through the double digit settings.

Example:

2. Setting	1. Setting	Total
00	22	22 flashes
21	47	2147 flashes
01	01	101 flashes

This is how you re-set the daily flash count:

- ➡ While in flash count mode, hold down the touch key **LAMP 13**
The display **3** is reset to 00.

9 Maintenance

ATTENTION!

The device must be disconnected from any power supply before attempting any maintenance procedure.

The compact flash unit **Integra Mini 300** does not require much maintenance.

The outside of the unit must be regularly cleaned of dust and dirt to guarantee the electrical safety of the device.



Note:

Only clean the unit with a dry cloth!

Regular maintenance intervals

National safety regulations require the maintenance and inspection of any electric device and equipment in regular intervals. Compact flash units, generators, and accessories must be inspected in regular intervals to ensure safe operation. An annual inspection of such devices ensures safe operation and retains equipment value.

Replacing the fuses



ATTENTION!

Fuses must not be „patched up“ or otherwise bypassed. Only use spare fuses that meet the below listed requirements and have a fast response rating.

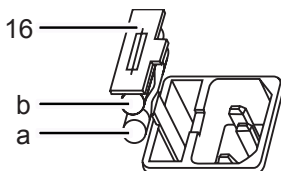
The compact flash unit must be disconnected from any power supply before replacing a fuse.

Safety fuses for use with 300W halogen lamps: F 4 A H.

Only use fuses with a high switch-off capacity, labelling „H“, according to EN 60127-2/1 or IEC 127-2/1. A wrong fuse can increase the danger of the halogen lamp bursting and the glow filament can burn out.

This is how you replace a fuse:

- ➡ Open the fuse drawer **16** with the help of a small screwdriver and pull it out.



Note:

The drawer can only be pulled out approximately 1 cm.

The drawer contains two fuses. The rear fuse **a** is the active fuse, the front fuse **b** is the spare fuse.

- ➡ Remove the blown fuse **a**
- ➡ Remove the spare fuse **b** and insert it into the rear slot
- ➡ Carefully push the drawer back into place until it locks in position.



Note:

*The tilting bracket **18** of the compact flash unit contains additional spare fuses.*

Refill your fuse supply and replace the missing spare fuse as soon as possible.

Replacement of flash tube

The flash tube of the compact flash is plug-in style. In case of a defect, it can be replaced by the operator.



ATTENTION!

Turn the unit off and disconnect it from any power supply before replacing the flash tube. Wait at least 15 minutes before continuing the procedure and until any remaining condenser voltage has dissipated.

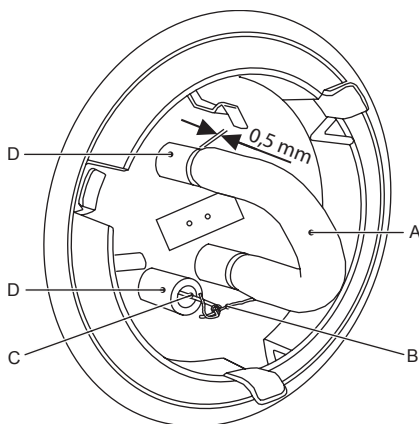
Avoid handling the flash tube with your bare hands to prevent contaminating the flash tube with the oil of your skin. This would reduce the operational life of the flash tube. Please use cotton gloves.

- ➡ Remove the protective glass cover; see „Protective glass cover“ on page 11.



ATTENTION!

Should the glass body of the flash tube be broken, do not touch the electrodes under any circumstance! In this case, use a fully insulated pair of pliers to remove the damaged flash tube.



- ➡ Unwind the ignition wire **B** from the connector pin **C**.
- ➡ Carefully pull the flash tube **A** out of the plug-in base **D**.
- ➡ Insert a new flash tube of the proper type into the plug-in base **D** and push the flash tube into position until the arresters engages.
- ➡ Now pull out the flash tube approximately 0.5 mm so that the glass body can expand when heating up.
- ➡ Wind ignition wire **B** around the connector pin **C**.

Fitting flash tubes for the compact flash unit **Integra Mini 300** can be found in the chapter „11 Accessories“ on page 26.

Replacement of modeling light

The halogen lamp for the compact flash unit's modeling light is plug-in style. In case of a defect, the lamp can be replaced by the operator.



ATTENTION!

Turn the unit off and disconnect it from any power supply before replacing the modeling light. Wait at least 15 minutes before continuing the procedure and until the halogen lamp has cooled off.

Avoid handling the lamp with your bare hands to prevent contaminating the glass of the lamp with the oil of your skin. This would reduce the operational life of the lamp. Please use cotton gloves.

- ➡ Remove the protective glass cover; see „Protective glass cover“ on page 11
- ➡ Carefully remove the lamp from the plug socket
- ➡ Insert a new lamp of the correct type

Please make sure the lamp is properly secured when replacing the modeling light; see „Replacing the fuses“ on page 19 .

Maximum modeling lights to be used are:

300W/G6.35/115V or 300W/G6.35/230V

The modeling light to be inserted has to match the power voltage.

Error messages

In case of an error, an error code is displayed in Display **3**. In such an event, follow these steps:

- ➡ Turn the unit off
- ➡ Wait a few seconds
- ➡ Turn the unit on again

Should the error code persist, use the following checklist to see if the malfunction can be corrected or contact a customer service point; see „10 Customer service points“ on page 25.

Error E4 Unit didn't flash.

In case of multiple flash units in operation, the misfiring of individual units is displayed.

Possible causes can be a burned out flash tube or a fault inside the unit.

- ➡ Replace the flash tube if necessary or send the unit to an authorized service dealer.

The error message disappears after a short while on its own.

Error E5 Unit is overheated.

When this error appears, the modeling light shuts off and the unit stops flashing.

Possible causes can be extensive flash triggering, high surrounding temperature with full modeling light output, covered air vents, ill fitted reflectors, or a defective ventilator (check by listening).

- ➡ Keep the unit switched on so that the ventilator continues to cool the flash unit.
Switching off the modeling light can improve things.

The error message disappears as soon as the unit has cooled off again.

Error E1 Unit related errors.

Error E3 This error code indicates a severe problem. The problem can only be corrected by an authorized service dealer.

Error E6

- ➡ Switch off the unit immediately and discontinue using it.
- ➡ Send the unit to the next available service point and indicate the error code.

Warranty

The warranty period for **Integra Mini 300** depends on the country of delivery.

You can obtain information pertaining warranty periods on the web pages of the distributing companies.

Normal usage, meeting the safety requirements in the instruction manual, and adhering to the information therein, are prerequisites for this warranty. Unauthorized manipulation and tampering with the unit void any warranty claim.

Flash tubes, modeling lamps, protective glass covers, and defective power cables are excluded from any warranty.

The warranty includes replacement of faulty parts and the time required for installation by a qualified technician.



Note:

You may send the unit free of charge to one of the customer service points; see „10 Customer service points“ on page 25. Please include a short description of the defect.



Disposal

The packing materials need to be sorted and recycled as necessary.

Retired and defective electronic equipment must be recycled in accordance with regulation.

10 Customer service points

Manufacturer's service

with 24-hour-express-service:

HENSEL-VISIT International GmbH
Robert-Bunsen-Str. 3
97076 Würzburg
Tel.: +49 (0)931 278 810
Fax: +49 (0)931 278 815 0
E-Mail: info@hensel.de

Service points listed in the Internet

Additional national and international service and distribution addresses can be found on the web page of HENSEL-VISIT International:

www.hensel.de

11 Accessories

Protective glass covers

Item No. 9454638: transparent, uncoated

Item No. 9454637: transparent, single coating

Item No. 9454639: matt, uncoated

Flash tube

Item No. 9450401: plug-in style, single coating

Halogen lamp for modeling light

Item No. 128 : 300 W/230 V

Item No. 1280 : 300 W/115 V

Reflectors and soft boxes

With small connector diameter (10 cm) for EH/Expert/Integra line

Umbrellas

Spare fuses

Item No. 9412400 : Safety fuses F 4 A H

Sync cable

different length

Radio remote

Strobe Wizard Plus

Profoto Air

Arresting cable

Item No.: 769

Additional information concerning accessories can be found on the web page of HENSEL-VISIT International: **www.hensel.de**

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13 Declaration of Conformity

for Electromagnetic Compatibility and Safety

Manufacturer: HENSEL Studiotechnik GmbH & Co.KG
Robert-Bunsen-Str. 3
97076 Würzburg
Germany

Owner of Certification: HENSEL Studiotechnik GmbH & Co.KG
Robert-Bunsen-Str. 3
97076 Würzburg
Germany

Test Report: of December 7, 2010

Product: **Integra Mini 300**

Description: **Emission and Interference Resistance**

Standards: EN 61000-6-2:2005
EN 61000-6-3:2007

This declaration of conformity is made by the above mentioned manufacturer according to article 10, paragraph 1, of the governing EU- directives 2004/108/EC referring to electromagnetic compatibility and safety for bringing the statutory instruments of the Member States into lines with each other. This declaration does not make any statement according to requirements of other provisions concerning the electromagnetic compatibility and safety.

Description: **Low Voltage Directive**

Standards: EN 60065:2002+A1:2006+Cor.:2007+A11:2008
EN 60598-1:2008+A11:2009
EN 60598-2-9:1989+A1:1994

This declaration of conformity is made by the above mentioned manufacturer according to article 10, paragraph 1, of the Governing EU- directives 2006/95/EC referring to electrical items for usage within specified voltage limits.

This declaration of conformity is the result of testing samples of the products submitted, in accordance with the provisions of the relevant specific standards.

Date: December 7, 2010

Manufacturer


E. Stumpf
-Managing Director -
HENSEL Studiotechnik GmbH & Co.KG

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