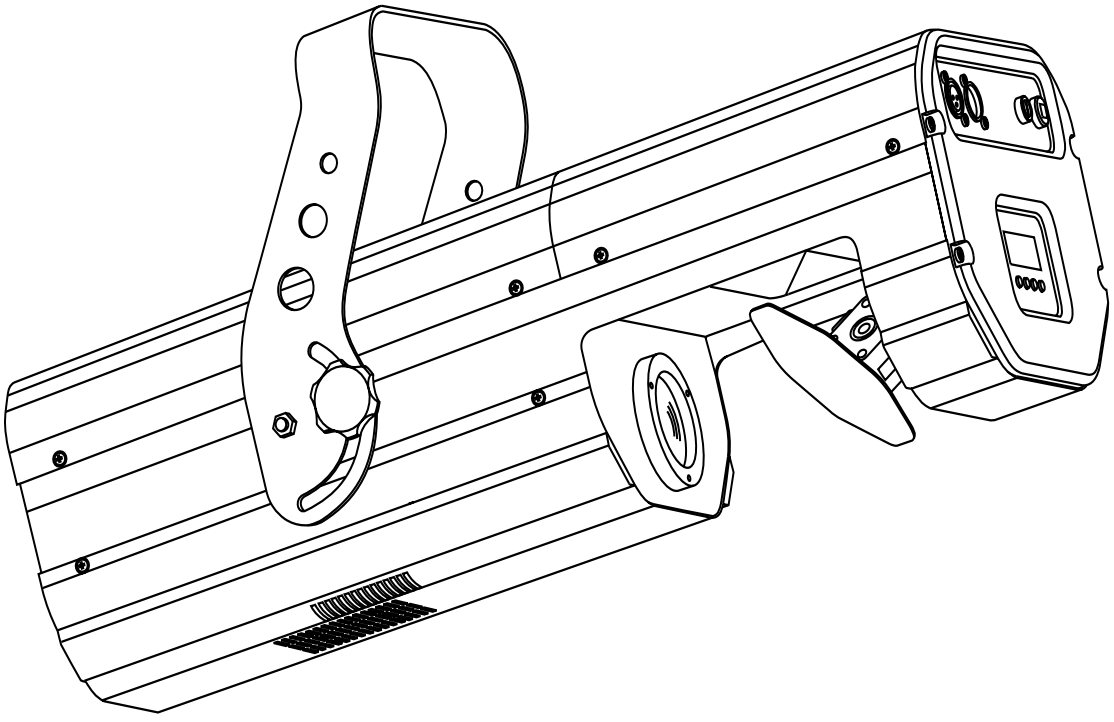
VISION 575

USER MANUAL



Version 1.0

VISION 575

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CAUTION!
Keep this device away from rain and moisture!
Unplug mains lead before opening the housing!

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOU INITIAL START - UP!

1. Safety instructions

Every person involved with installation and maintenance of this device have to:
- be qualilfied
- follow the instructions of this manual

CAUTION!
Be careful with your operations. With a high voltage you can suffer a dangerous electric shock when touching the wires!

This device has left our premises in absolutely perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

Important:
The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

Please consider that damages caused by manual modifications to the device are not subject to warranty.

Never let the power-cord come into contact with other cables! Handle the power-cord and all connections with the mains with particular caution!

Always plug in the power plug least. The power-plug has to be accessable after installing the device.

Make sure that the power-cord is never crimped or damaged by sharp edges. Check the device and the power-cord from time to time.

Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord.

This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.

The electric connection, repairs and servicing must be carried out by a qualified employee.
Do not connect this device to a dimmer pack.

Do not switch the fixture on and off in short intervals as this would reduce the lamp's life.

During the initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective.

Do not touch the device's housing bare hands during its operation (housing becomes hot)!
For replacement use lamps and fuses of same type and rating only.

CAUTION ! EYEDAMAGES !
Avoid looking directly into the light source (meant especially for epileptics) !

2. Operating determinations

This device was designed for indoor use only.

If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.

When taking the device into operation, please make sure that the housing is closed firmly with all the necessary screws tightened up.

Never run the device without lamp!

Do not shake the device. Avoid brute force when installing or operating the device.

When choosing the installation-spot, please make sure that the device is not exposed to extreme heat, moisture or dust. There should not be any cables lying around. You endanger your own and the safety of others!

The minimum distance between light-output and the illuminated surface must be more than 1 m.

Make sure that the area below the installation place is blocked when rigging, derigging or servicing the fixture.

Always fix the fixture with an appropriate safety-rope. Fix the safety-rope at the correct holes only.

Only operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastened.

The lamp must never be ignited if the objective-lens or any housing-cover is open, as discharge lamps may explose and emit a high ultraviolet radiation, which may cause burns.

The maximum ambient temperature t_a = 45° C must never be exceeded. Otherwise, the lamp is switched off and the fixture is out of operation for 5 minutes.

CAUTION!
The lens has to be replaced when it is obviously damaged, so that its function is impaired, e. g. due to cracks or deep scratches!

Operate the device only after having familiarized with its functions. Do not permit operation by persons not qualified for operating the device. Most damages are the result of unprofessional operation!

CAUTION!
The lamp has to be replaced when it is damaged or deformed due to the heat!

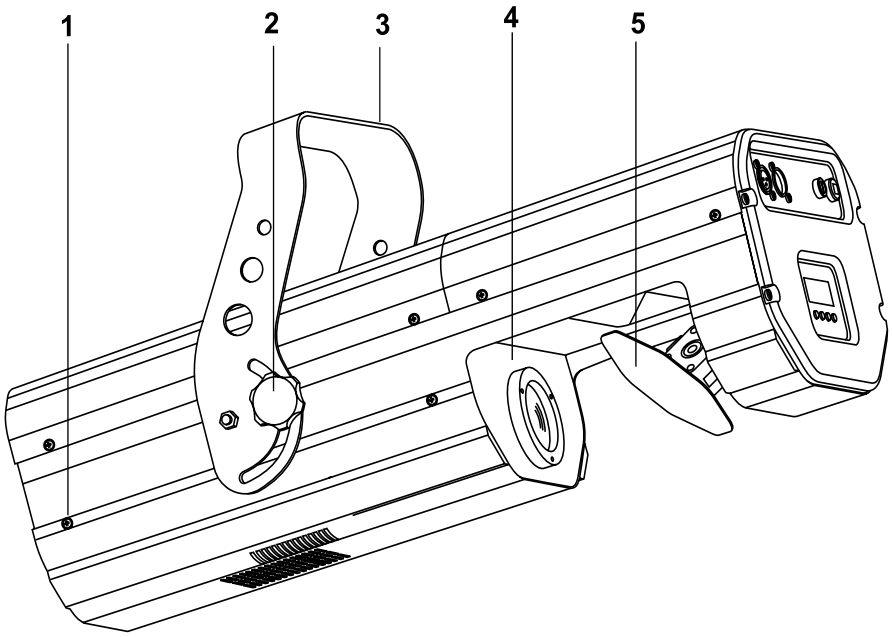
Wait at least 15 minutes before remowing the lamp.

Please use the original packaging if the device is to be transported.

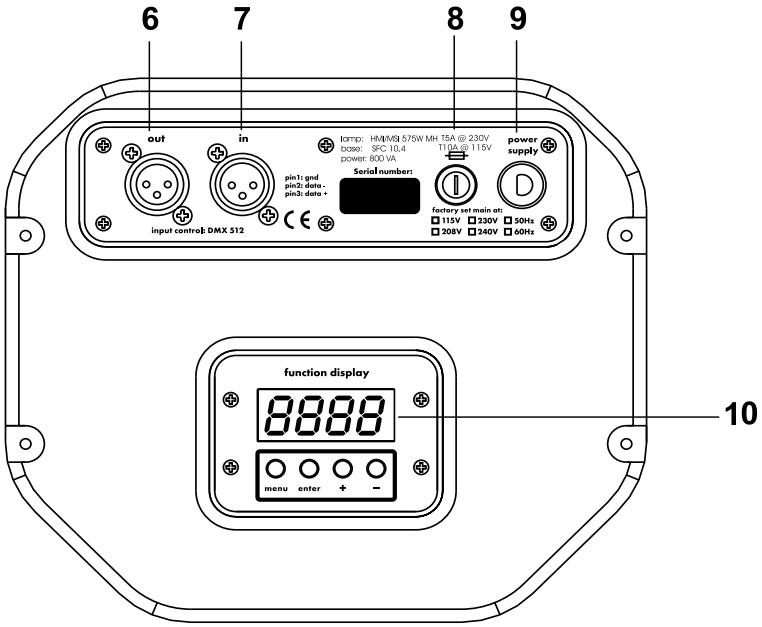
Please consider that unauthorized modifications on the device are forbidden due to safety reasons!

If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to dangers like short-circuit, burns, electric shock, burns due to ultraviolet radiation, lamp explosion, crash etc.

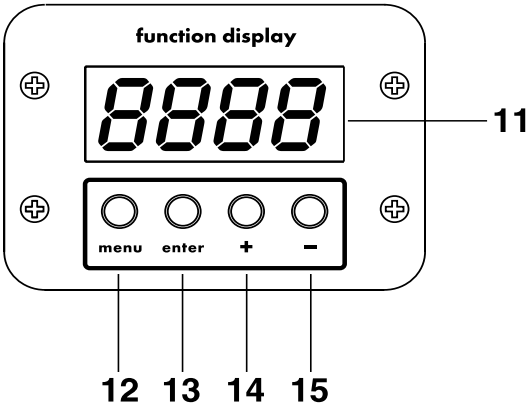
3. Description of the device



1 - Fastening screws
2 - Fixation screw for bracket
3 - Bracket
4 - Objective
5 - Mirror



Front panel:
6 - DMX Output
7 - DMX Input
8 - Fuseholder
9 - Powercord
10 - Control board



Control board:
11 - Display
12 - Menu-button
13 - Enter-button
14 - Up-button
15 - Down-button

4. Installation

4.1Fitting the lamp

DANGER !
Install the lamps with the device switched off only.
Unplug from mains before !

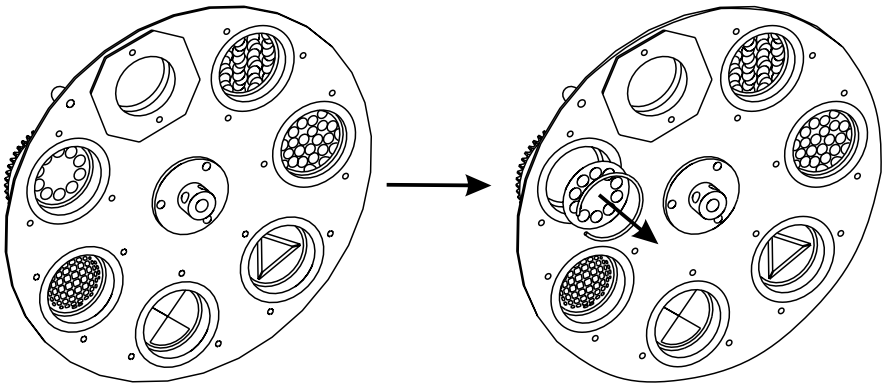
To insert the lamp (HMI 575) open the cover by loosening the fastening screws at the sides of the cover.
Do not install a lamp with a higher wattage! A lamp like this generates temperatures the device is not designed for. Damages caused by non-observance are not subject to warranty.
Insert the lamp now. Do not touch the glass-bulb with bare hands during the installation! Please follow the lamp manufacturer‘s notes!
Before you close the cover again, make sure that the lamp is installed tightly into the lampholder system.
Reclose the housing and tighten the fastening screws.
Before striking the lamp, reset the **"LAti"** counter in the main menu of the Control Board, by pressing the **"+"** and **"-"** buttons at the same time and then confirming with the **Enter**-button.

Do not operate this fixture with opened housing-cover!

4.2 Inserting/Exchanging rotating gobos

DANGER!
Install the gobos with the device switched off only.
Unplug from mains before!

If you wish to use other forms and patterns as the standard-gobos, or if the gobos are to be exchanged, remove the fixation-ring with an appropriate tool. Remove the gobo and insert the new gobo. Press the fixation-ring together and insert it in the front of the gobo.



CAUTION!
Never unscrew the screws of the rotating gobo
as the ball bearing will otherwise be opened!

4.3 Rigging the fixture

Danger of fire !
When installing the device, make sure there is no highly inflammable material (decoration articles, etc.) in between a distance of min. 0,5 m.

The VISION 575 can be installed in any position without altering its operation characteristics
Install a safety wire that can hold at least 10 times the weight of the fixture. Never use the carrying handles for secondary attachment.

Make sure that the device is fixed properly! Ensure that the structure to which you are attaching the projectors is secure.

For fixing the projectors use the hole provided in the bracket. The hole in the adjustable mounting bracket has a diameter of 10 mm.
For overhead use, fit a safety chain or cord.

4.4 Connection to the mains

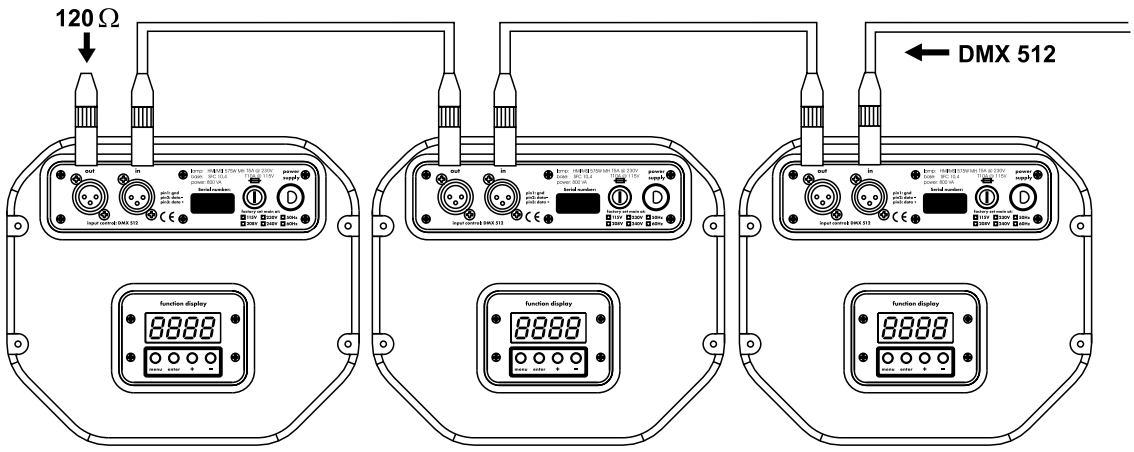
Connect the fixture to the mains with the enclosed power-plug.
The earth has to be connected!

The occupation of the connection-cables is as follows:

Cable	Pin	International
Brown	Live	L
Blue	Neutral	N
Yellow/Green	Earth	⏚

4.5 DMX-512 connection/connection between fixtures

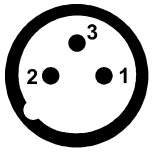
The wires must not come into contact with each other, otherwise the fixtures will not work at all, or will not work properly.



Only use a stereo shielded cable and 3-pin XLR-plugs and connectors in order to connect the controller with the fixture or one fixture with another.

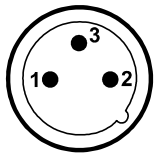
Occupation of the XLR-connection:

DMX - output
XLR mounting-socket:



1 - Ground
2 - Signal (-)
3 - Signal (+)

DMX-input
XLR mounting-plug:



1 - Ground
2 - Signal (-)
3 - Signal (+)

If you are using the standard DMX-controllers, you can connect the DMX-output of the controller directly with the DMX-input of the first fixture in the DMX-chain. If you wish to connect DMX-controllers with other XLR-outputs, you need to use adapter-cables.

Building a serial DMX-chain:

Connect the DMX-output of the first fixture in the DMX-chain with the DMX-input of the next fixture. Always connect one output with the input of the next fixture until all fixtures are connected.
Caution: At the last fixture, the DMX-cable has to be terminated with a terminator. Solder a 120 Ω resistor between Signal (–) and Signal (+) into a 3-pin XLR-plug and plug it in the DMX-output of the last fixture.

5. DMX PROTOCOL

Channel 16 bit	Channel 8 bit	Value	Function	Type of control
1	**1**		**Pan**	
		0-255	Coarse control of the pan movement	proportional
2	**2**		**Tilt**	
		0-255	Coarse control of the tilt movement	proportional
3			**Pan fine**	
		0-255	Fine control of the pan movement	proportional
4			**Tilt fine**	
		0-255	Fine control of the tilt movement	proportional
5	**3**		**Speed of PAN/TILT movement**	
		0	Max. speed	step
		249	Min. speed	proportional
		250-255	Max. speed,black-out while PAN,TILT moving	step
6	**4**		**Lamp on/off,reset,fan speed control**	
		0-127	From max.speed of fan to min. speed of fan	proportional
		128-139	Lamp on,reset	step
		140-229	No function	step
		230-239	Lamp off after 3 sec	step
		240-255	No function	step
7	**5**		**Colours**	
		0	Open/white	proportional
		10	Turquoise	proportional
		21	Red	proportional
		32	Cyan	proportional
		42	Green	proportional
		53	Magenta	proportional
		64	Light blue	proportional
		74	Yellow	proportional
		85	Green	proportional
		96	Pink	proportional
		106	Blue	proportional
		117	Orange	proportional
		128-190	Forwards rainbow effect from fast to slow	proportional
		191-192	No rotation	step
		193-255	Backwards rainbow effect from slow to fast	proportional
8	**6**		**Static gobos**	
		0-63	Open	step
		64-95	Forward gobo-wheel rotation from fast to slow	proportional
		96	No rotation	step
		97-127	Backward gobo-wheel rotation from slow to fast	proportional
		128-134	Gobo 1 (multicolor dichro)	step
		135-140	Gobo 2 (dichro)	step
		141-153	Gobo 3 (dichro)	step
		154-166	Gobo 4	step
		167-179	Gobo 5	step
		180-191	Gobo 6	step
		192-204	Gobo 7	step
		205-217	Gobo 8	step
		218-230	Gobo 9	step
		231-243	Gobo 10	step
		244-255	Gobo 11	step

Channel 16 bit	Channel 8 bit	Value	Function	Type of control
9	**7**		**Frost,cor. filters,3-facet prism**	
		0-95	Open position (hole)	step
		96-127	Frost filter	step
		128-159	3-facet prism	step
		160-191	3200 K correction filter	step
		192-223	5600 K correction filter	step
		224-255	UV filter	step
10	**8**		**3-facet prism rotation control**	
		0	No rotation	step
		1-126	Forwards rotation from fast to slow	proportional
		127-128	No rotation	step
		129-255	Backwards rotation from slow to fast	proportional
11	**9**		**Rotating gobos,cont.rotation**	
		0-31	Open	step
		32-63	Rot. gobo 1 (dichroic)	step
		64-95	Rot. gobo 2 (glass)	step
		96-127	Rot. gobo 3 (glass)	step
		128-159	Rot. gobo 4 (glass)	step
		160-191	Rot.gobo 5 (glass)	step
		192-223	Rot.gobo 6 (glass)	step
		224-255	Rot. gobo wheel cont. rotation from slow to fast	proportional
12	**10**		**Rotating gobo index,rotating gobo rotation**	
		0-127	Gobo indexing	proportional
		128-191	Forwards gobo rotation from fast to slow	proportional
		192	No rotation	step
		193-255	Backwards gobo rotation from slow to fast	proportional
13	**11**		**Iris**	
		0	Open	step
		1-179	Max.diameter to min.diameter	proportional
		180-191	Closed	step
		192-223	Pulse closing slow to fast	proportional
		224-255	Pulse opening fast to slow	proportional
14	**12**		**Focus**	
		0-255	Proportional focus control	proportional
15	**13**		**Shutter,strobe**	
		0-31	Shutter closed	step
		32-63	No function (shutter open)	step
		64-95	Strobe-effect from slow to fast (max.10 flashes/s)	proportional
		96-127	No function (shutter open)	step
		128-159	Pulse-effect in sequences	proportional
		160-191	No function (shutter open)	step
		192-223	Random strobe-effect from slow to fast	proportional
		224-255	No function (shutter open)	step
16	**14**		**Dimmer intensity**	
		0-255	Gradual adjustment of the dimmer intensity from 0 to 100%	proportional

6. Addressing

The control board on the front panel of the VISION 575 allows you to assign the DMX fixture address, which is defined as the first channel from which the VISION 575 will respond to the controller.
If you set, for example, the address to channel 5, the VISION 575 will use the channel 5 to 20 for control.
Please, be sure that you don't have any overlapping channels in order to control each VISION 575 correctly and independently from any other fixture on the DMX data link.
If two, three or more VISION 575 are addressed similarly, they will work similarly.

For address setting follow this procedure:

1. Switch On the VISION 575 and wait until the fixture reset has finished (**"rSt"** is flashing at the display).
2. Press the **[Menu]** key in order to access the main menu. Browse through the menu by pressing the **[+]** and **[-]** keys until the display shows **"A001"**. Confirm by pressing **[Enter]** key and the letter **"A"** will flash.
3. Use the **[+]** and **[-]** keys to select the desired address.
4. Confirm by pressing **[Enter]** or **[Menu]** to cancel.

Controlling:

After having addressed all VISION 575 , you may now start operating these via your lighting controller.
Note: After switching on, the VISION 575 will automatically detect whether DMX 512 data is received or not. If there is no data received at the DMX-input, the display will start to flash **"A001"** with actually set address.
This situation can occur if:
- the 3 PIN XLR plug (cable with DMX signal from controller) is not connected with the input of the VISION 575
- the controller is switched off or defective, if the cable or connector is defective or the signal wires are swap in the input connector.

Note: It's necessary to insert the XLR termination plug (with 120 Ohm) in the last lighting in the link in order to ensure proper transmission on the DMX data link.

7. Remotely controllable functions

7.1 Lamp

The VISION 575 is run with a HMI 575 lamp.
A relay inside of the VISION 575 allows you to switch On and Off the lamp via itself control board on the front panel or via your controller without affecting the rest of the lighting.

7.2 Switching On and Off the lamp by the control board

1. Switch On the VISION 575 and wait until the fixture reset has finished.
2. Press the **[Menu]** key in order to access the main menu. Browse through the menu by pressing the **[+]** and **[-]** keys until the display shows **„LAMP"**. Confirm by pressing **[Enter]** key.
3. Use the **[+]** and **[-]** keys to select **"On"** for switch On the lamp and **"Off"** for switch Off the lamp and press **[Enter]** to confirm or **[Menu]** to cancel.

Note: It is also important to note, that the discharge lamp is cold restrike types, that means, that they have to be cold before re-striking. For this reason, you have to wait 5 minutes (max. speed of fan must be adjusted) after having switched Off the lamp before you can switch it back On again. If you try to switch On the lamp within 5 minutes after having switched it Off, the VISION 575 will store this information and automatically ignite the lamp when the 5 minutes period has expired. The message **"HEAt"** will appear on the control board display . If the ignition of the lamp is seven times unsuccessful, on the display will appear **"LA.Er"**, meaning that the lamp could be damaged or even missed, or there could be a failure on the ignitor or ballast.

7.3 Colour wheel

The SC-780 has one colour wheel with 12 color positions - 11 of these with dichroic colors and the last one open. The wheel can be positioned between two adjacent colors in any position. It is also possible to rotate the color wheel continuously at different speed „Rainbow effect".

7.4 Static gobo wheel

This wheel has 8 metal gobos + 2 dichroic gobo + 1 multicolor-dichro gobo + open position. Multicolor dichroic gobo (containing C,M,Y colors) is mixable with color wheel especially with cyan, magenta and yellow colours in order to obtain several different multicolor beams.

7.5 Rotating gobo wheel

1 metal gobo, 4 glass gobos and 1 dichroic gobo rotating in both dirrections, indexable, rotating gobo wheel cont. rotation slow to fast.The rotating gobos are interchangeable.

7.6 Iris

Motorized iris for different beam diameters

7.7 Effect wheel

This wheel has both hot and cold color temperature filters (3200 K and 5600 K). Total numbers of color combinations are 36. Also wash light and UV effect are provided by the special effect wheel.

7.8 3-facet rotating prism

3-facet prism rotating in both directions at different speed is situated at the special effect wheel.

7.9 Focus

Motorized focus enables the beam to be focused anywhere on stage.

7.10 Dimmer / Shutter / Strobe

Smooth 0 - 100 % dimming is provided by the combined mechanical dimmer / shutter unit. This unit may also be used for strobe effect (1 - 10 flashes per second)

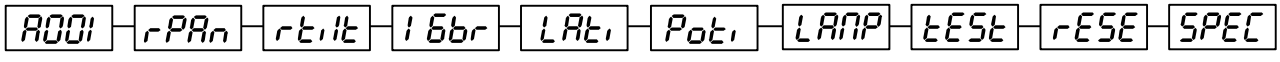
7.11 Fan

The VISION 575 is cooled by axial fan situated at the rear side of the lighting. The speed of the fan (of course the noice) can be continuously reduced if very quiet performance is required.
By the control board using the **"FAnS"** function you can choose 4 types of low fan speed operating:

1. "HIGH" - high (max) speed of fan
The cooling fan works on max. speed (max. cooling)
2. "reG" - continuous controlling of the fan speed
the fan automatically raises its speed in order to control inside temperature of the lighting, if the temperature inside increases about certain level (the low fan speed reduces the cooling of the lighting). This cycle can repeat several times until the temperature inside is on suitable level.
3. "LoOF" - low speed/Switch Off the lamp operating
the fan keeps the adjusted low speed until the temperature exceeds max. inside temp. Then the VISION 575 automatically switch Off the lamp.
4. "loHi" - low/high speed of the fan operating
the fan keeps the adjusted low speed until the temperature exceeds max. inside temp. of the fixture, then the VISION 575 automatically switch from low to high the fan speed.

8. Control Board

The control board situated on the front panel of the VISION 575 offers several features. You can simply set the lighting address, read the number of lamp or unit hours, switch On and Off the lamp, run test show, make a reset and also use special functions for manual, demo and service purposes.
The main menu is accessed by pressing the **[Menu]** key - press this one so many times until the display shows message **"A001"** (with actually stored address). Browse through the menu by the pressing **[+]** and **[-]** keys - the display shows step by step these messages: **A001, rPAn, rTilt, 16br, Lati, Poti, LAMP, tESt, rESE, SPEC**. Press **[Enter]** if you wish to select one of them. The functions provided are described in the following sections and the function hierarchy is shown below.



8.1 Main functions

DMX 512 Address settings

The letter **"A"** flashes. Use the **[+]** and **[-]** keys to select required address (001 - 497) and press **[Enter]** to confirm or **[Menu]** to cancel and return to the main menu.

Pan reverse

This function allows you to invert the pan movement. Use the **[+]** and **[-]** keys to select **"On"** if you wish this feature or **"Off"** if you don't wish this feature and press **[Enter]** to confirm or **[Menu]** to cancel and return to the main menu.

Tilt reverse

This function allows you to invert the tilt movement. Use the **[+]** and **[-]** keys to select **"On"** if you wish this feature or **"Off"** if you don't wish this feature and press **[Enter]** to confirm or **[Menu]** to cancel and return to the main menu.

Movement resolution

By this function you can adjust the desired movement resolution 8 or 16 bit. Use the **[+]** and **[-]** keys to select **"On"** if you wish the 16 bit high resolution or **"Off"** if you wish only 8 bit resolution and press **[Enter]** to confirm or **[Menu]** to cancel and return to the main menu.

Note: If you adjust the 16 bit resolution the fixture will occupy 16 DMX channels, if you adjust the 8 bit resolution, the fixture will be operated by only 14 DMX channels. Please, check the DMX protocol.

Lamp On time

This option enables you to read the total number of hours that the lamp has been powered On. Press **[Enter]** or **[Menu]** to return to the main menu. In order to reset the counter to 0, you have to hold the **[+]** and **[-]**-button and press the **[Enter]**-button.

Power On time

By this option you can read the total number of hours that the VISION 575 has been powered On. Press **[Enter]** or **[Menu]** to return to the main menu.

Switch On/Off the lamp

Use the **[+]** and **[-]** keys to select **"On"** if you wish the switch On the lamp or **"Off"** if you wish switch Off the lamp and press **[Enter]** to confirm or **[Menu]** to cancel and return to the main menu.

Test program

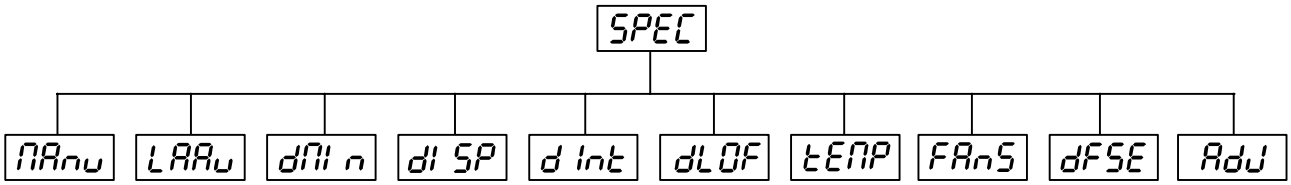
This function allows you to run a special test program without an external controller, which will show you some possibilities of using VISION 575. Press the **[Enter]** key to run the test program.

Reset Function

Press **[Enter]** key to run reset. This option enables the VISION 575 to index all effects (functions) and return to their standard positions.

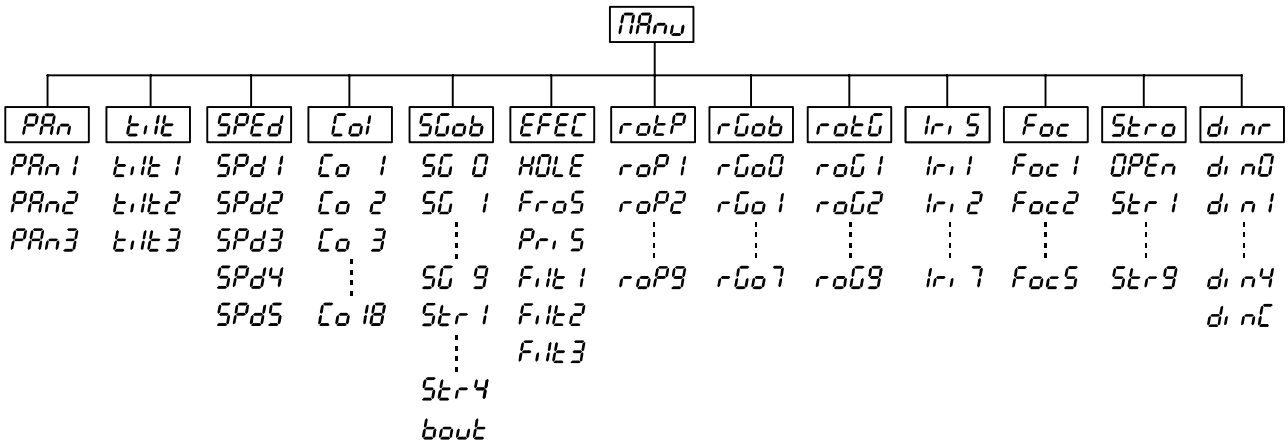
8.2 SPEC -Special functions

Use the **[+]** and **[-]** keys to browse through the special functions and select the one by pressing **[Enter]**.



Manual control of effects

This function allows you to control manually the channel functions of the fixture. Use the **[+]** and **[-]** keys to select desired function and press **[Enter]** to adjust the effect or **[Menu]** to cancel and return to the menu.

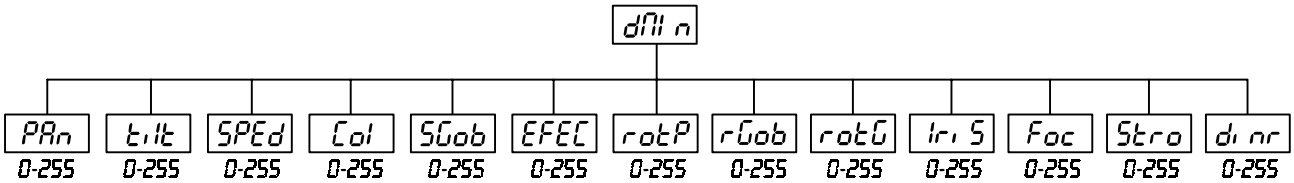


Lamp On automatically

This function enables to switch On the lamp automatically after switching On the fixture. Use the **[+]** and **[-]** keys to select **"On"** if you wish to switch On the lamp automatically after switching On the fixture or **"Off"** if you wish the lamp off after switching On the fixture and press **[Enter]** to confirm or **[Menu]** to cancel and return to the menu.

DMX values

Readout DMX values of each channel received by the fixture. Use the **[+]** and **[-]** keys to select desired channel and press **[Enter]** to read its value coming to the fixture or **[Menu]** to cancel and return to the menu.



Automatic blackout of Display

This function allows you to keep the display On or to turn Off automatically 2 minutes after last pressing any key on the control board. Use the **[+]** and **[-]** keys to select **"On"** if you wish to keep the display On or **"Off"** if you wish to turn Off automatically 2 minutes after last pressing any key on the control board and press **[Enter]** to confirm or **[Menu]** to cancel and return to the menu.

Display intensity

By this function you can adjust from 20% to 100% the intensity of the display. Use the **[+]** and **[-]** keys to select the level of the display intensity and press **[Enter]** to confirm or **[Menu]** to cancel and return to the menu.

Lamp Off via DMX

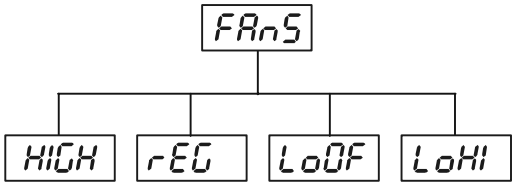
This function allows you to switch Off the lamp by DMX. Use the **[+]** and **[-]** keys to select **"On"** if you want to switch Off the lamp by DMX or **"Off"** if you don't want to switch Off the lamp by DMX and press **[Enter]** to confirm or **[Menu]** to cancel and return to the menu.

Temperature

Temperature readouts of fixture inside in Celsius. Inside temperatures below 70° C are not critical. 70° C and more lead to the lamp being switched off. Please note that the outside temperature should not exceed 45° C.

Low fan speed operating

By using this function you can choose 4 types of low fan speed operating. Browse through this menu by the pressing **[+]** and **[-]** keys - the display shows step by step these messages: **"HIGH, reG, LoOF, Lo.HI,"**. Press **[Enter]** if you wish to select one of them or **[Menu]** to cancel and return to the menu.



high (max) speed of fans

The cooling fan works on max. speed (max. cooling)

continuous controlling of the fan speed

the fan automatically raises its speed in order to control inside temperature of the lighting,
if the temperature inside increases about certain level (the low fan speed reduces the cooling of the lighting). This cycle can repeat several times until the temperature inside is on suitable level.

low speed/Switch Off the lamp operating

the fan keeps the adjusted low speed until the temperature exceeds max. inside temp., then the VISION 575 automatically switch Off the lamp.

low/high speed of the fan operating

the fan keeps the adjusted low speed until the temperature exceeds max. inside temp.of the fixture, then the VISION 575 automatically switch from low to high the fan speed.

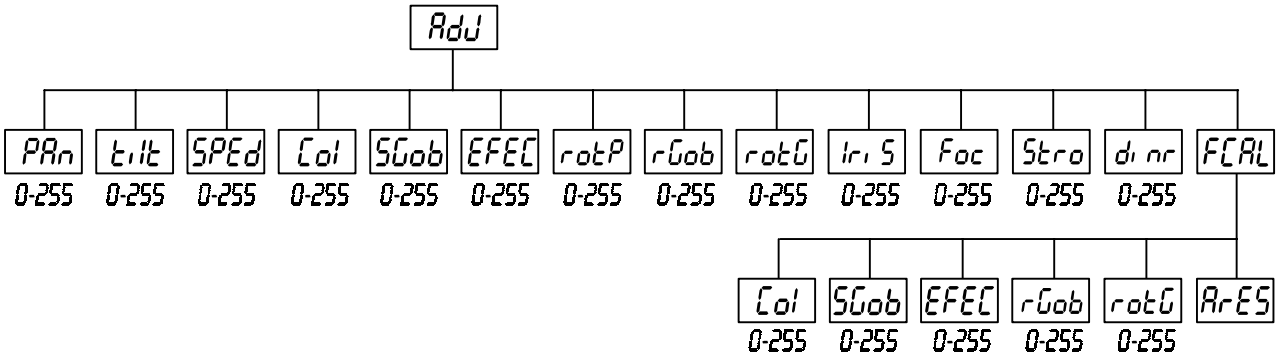
Default settings

Press **[Enter]** to reset all fixture personalities (not the adjusting functions) to the default values. On the display will appear **"rSt"** meaning that the fixture makes the reset. See the table of personality setting and their default positions.

Personality	**Display**	**Default values** (SHADED)
Pan reverse	rPAn	On
		OFF
Tilt reverse	rtilt	On
		OFF
Movement resolution	16br	On
		OFF
Lamp on automatically	LAAu	On
		OFF
Automatic blackout of display	dISP	On
		OFF
Display intensity	d Int	20 40 60 80 100
Lamp Off via DMX	dLOF	On
		OFF
Low fan speed operating	FAnS	HIGH
		rEG
		LoOF
		LoHI

Adjusting the default positions of colour,gobo and effect wheels

By this function you can calibrate and adjust the colour and CMY to their standard/right positions. Use the **[+]** and **[-]** keys to browse through the adjusting menu - the display shows step by step these messages: **" PAn, Tilt, SPEd, Col, SGob, EFEC, rotP,rGob, rotG, IriS,Foc, Stro, dimr, FCAL"** by which you can adjust the fixture to the required/desired position (0-255) before the function calibration. Then when the positioning is finished use the last **"FCAL"** function (Fixture calibration).



1. Calibration via the control board

Press **[Enter]** and the **[+]** and **[-]** keys in order to display the following messages: **"Col, SGob, EFEC, rGob, rotG,"** for very smooth function calibration. Select one of them, press **[Enter]** and use the **[+]** and **[-]** keys in order to adjust their right value from 0 to 255. Then press **[Enter]** to confirm or **[Menu]** to cancel and return to the menu. This can be repeated for each calibration parameter if it is required. When the calibration is finished, it is necessary to use the **"ArES"** function in order to write the calibration values to the memory (EPROM) and to make a reset in order to check the newly adjusted positions of the colour, gobo and effect wheels. When the reset of the fixture is finished, the display will show the **"FCAL"** message. Press **[Enter]** to repeat the calibration or **[Menu]** to return to the **"AdJ"** menu.

2. Calibration via the external controller

Press **[Enter]** and the **[+]** and **[-]** keys in order to display the following messages: **"Col,SGob, EFEC, rGob, rotG,"** - calibration parameters. Select one of them and press **[Enter]**.
Now you can calibrate the the colour, gobo and effect wheel by your controller. The DMX calibration protocol is described in the table.

DMX Calibration protocol:

DMX chanel	Function		
1	Colour	Smooth microstep movement	Calibration 0-255
2	SGOB		Calibration 0-255
3	Effect		Calibration 0-255
4	Rotating gobo		Calibration 0-255
5	Gobo rotating		Calibration 0-255
6	No function		
7	Colours	Standart protocol	
8	Static gobos	Standart protocol	
9	Effect	Standart protocol	
10	Prism rotation	Standart protocol	
11	Rotating gobos	Standart protocol	
12	Gobo rotation	Standart protocol	
13	Iris	Standart protocol	
14	Focus	Standart protocol	
15	Strobo	Standart protocol	
16	Dimmer	Standart protocol	

After having calibrated required functions press **[Enter]** to confirm (or **[Menu]** to cancel and return to the menu without reset by the **"ArES"** function) and use the **"ArES"** function in order to write the calibration values to the memory (EEPROM) and to make a reset in order to check the new adjusted positions of the colour,gobo ,effect and rot.gobo wheels and gobo indexing .

9. Error and information messages

HEAt

This message appears if you try to switch on the lamp within 5 minutes after having switched it off (the lamp is too hot). The message will appear on the display if the lamp doesn't ignite within 28 seconds. The VISION 575 will store this information and automatically ignite the lamp when the 5 minutes period has expired.

LAEr

The ignition of the lamp is seven times unsuccessful (the HEAt message appeared six times before), and the display shows **"*LAEr*"**, meaning that the lamp could be damaged or even missed, the fixture is overheating (this can occur if the ambient temperature is 45° C or more) or there could be a failure on the ignitor or ballast. Please place or replace the lamp, check the ambient temperature or contact your dealer if the situation was not caused by the lamp.

FAn

The message informs you that the fixture was overheating and switched off. This message will appear on the display if the fan speed operating "LOOF" was selected.

MbEr

This messsage informs you that the main PCB does not communicate correctly with the Control Board.

***CoEr* (color-wheel error)**

This messsage will appear after the reset of the fixture if the magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepping-motor is defective (or its driver circuit on the main PCB). The color-wheel is not located in the default position after the reset.

SGEr (static gobo wheel error)

This messsage will appear after the reset of the fixture if the magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepper motor is failed (or its driver circuit on the main PCB). The static gobo wheel is not after the reset in the default position.

rGEr (rotating gobo wheel error)

This messsage will appear after the reset of the fixture if the magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepper motor is failed (or its driver circuit on the main PCB). The rotating gobo wheel is not after the reset in the default position.

IGEr (rotating gobo indexing error)

This messsage will appear after the reset of the fixture if the magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepper motor is failed (or its driver circuit on the main PCB). The rotating gobo is not after the reset in the default position.

***EFEr* (effect wheel error)**

This messsage will appear after the reset of the fixture if the magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepper motor is failed (or its driver circuit on the main PCB). The effect wheel is not after the reset in the default position.

FtEr

This error message informs you that the fixture was overheating (occured if the ambient temperature is 45° C or more) and that the relay switched off the lamp. This message will appear on the display until the temperature will be on a suitable level, then the display will show the "*HEAt*" message meaning the lamp is too hot (explanation see above).

SnEr

This message appears if the lamp lighting sensor is failed.

PoEr

This message will appear if the fixture was shortly disconnect from the main.

FrEr

It will appear if the frequency of the main is not standard 50 or 60Hz.

10. Technical specifications

Power supply:

-Voltage.....100/115/208/230 V AC, 50/60 Hz ~
-Fuse.....T 5 A@ 230 V
-Fuse.....T 10 A@115V
-Power consumption.....800 VA

Motors:

-12 high quality stepping-motors controlled by microprocessors

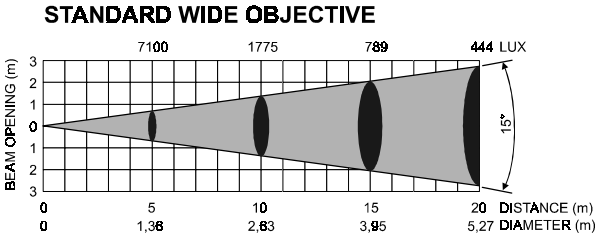
Lamp:

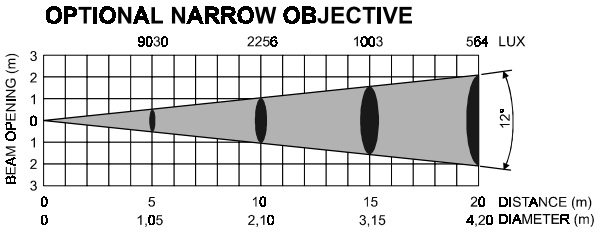
-HMI 575

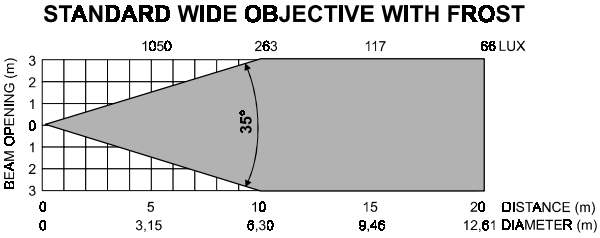
Optical system:

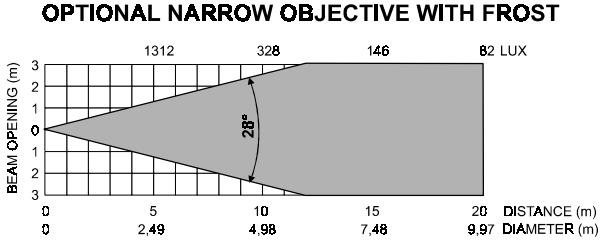
-Double condensor lens with high efficiency parabolic mirror

Beampath:









Colours:

- 11 interchangeable dichroic-filters plus white
- Colour-wheel with variable rotation speed

Static gobos:

- 8 metal gobos plus full circle
- 1 Multicolor dichroic gobo, 2 dichroic gobos

Rotating gobos:

- 1 metal gobo, 4 glass gobos and 1 dichroic gobo rotating in both dirrections at different speeds
- gobo indexing
- rotating gobo wheel cont. rotation

Strobe:

- Strobe effect with variable speed (1 - 10 flashes per second)

Dimmer:

-Smooth dimmer from 0 - 100 %

Effects:

- Special effect wheel with frost filter, color temperature filters 3200 K and 5600 K, UV filter

Prisma:

- 3 facet prism rotating in both dirrections at different speeds situated on effect wheel

Iris:

-Motorized iris for different beam diameters

Focus:

-Motorized focus from near to far

Electronics:

-Addressing, special functions setting, effects calibration via control panel with 4-digit LED display
-Readout fixture and lamp usage, receiving DMX values, temperature, etc
-Built-in analyzer for easy fault finding,error messages
-Remotely switching of the lamp
-Bilt-in demo sequences
-Silent fans cooling, remotely controllable speed of fans
-Self-resetable thermo-fuse
-Digital serial input DMX-512
-DMX-control via every standard DMX controller
-14 DMX-channels (8 bit Pan/Tilt movement resolution)
-16 DMX-channels (16 bit Pan/Tilt movement resolution):

Channel 1: Horizontal mirror-movement 8 bit
Channel 2: Vertical mirror-movement 8 bit
Channel 3: Fine Horizontal mirror-movement 16 bit
Channel 4: Fine Vertical mirror-movement 16 bit
Channel 5: Pan/Tilt speed
Channel 6: Fan speed, lamp On/Off, reset
Channel 7: Colours
Channel 8: Static gobos
Channel 9: Frost,correction filters,3-facet prism
Channel 10: Prism rotation
Channel 11: Rotating gobos
Channel 12:Gobo rotation,gobo indexing
Channel 13: Iris
Channel 14: Focus
Channel 15: Shutter, strobe
Channel 16: Dimmer

Temperatures:

-Maximum ambient temperature t_a: 45° C
-Maximum housing temperature t_B (steady state): 80° C

Minimum distances:

-Min.distance from flammable surfaces: 0,5m
-Min.distance to lighted object: 1,0m

Housing

- Easy access to lamp and main components thanks to large opening cover and the projector‘s modular construction.

Dimensions and weight:

LxWxH: 670x240x210 mm

Weight:

28 kg

11. Maintenance and cleaning

It is absolutely essential that the fixture is kept clean and that dust, dirt and smoke-fluid residues must not build up on or within the fixture. Otherwise, the fixture‘s light-output will be significantly reduced. Regular cleaning will not only ensure the maximum light-output, but will also allow the fixture to function reliably throughout its life.
A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should alcohol or solvents be used!

DANGER !
Disconnect from the mains before starting any maintenance work

The front mirror and objective lens will require weekly cleaning as smoke-fluid tends to building up residues, reducing the light-output very quickly. The cooling-fan should be cleaned monthly.

The gobos may be cleaned with a soft brush. The interior of the projector should be cleaned at least annually using a vacuum-cleaner or an air-jet.
The dichroic colour-filters, the gobo-wheel and the internal lenses should be cleaned monthly.

To ensure a proper function of the gobo-wheel, we recommend lubrication in six month intervals. The quantity of oil must not be excessive in order to avoid that oil runs out when the gobo-wheel rotates.

12. Appendix

We believe you will enjoy your VISION 575. We assure you will enjoy this product for years if you follow the instructions given in this manual.

If you have any questions and comments, please do not hesitate to contact us.

Please note: errors and omissions for every information given in this manual excepted. Every information is subject to change without prior notice. Any claim due to missing or wrong information in this manual is herewith excluded!