

**VMU5.30 VideoMirrorUnit for NEC LT35/30/25/20 - V4.0**



Thank you for choosing our VideoMovingSystem to fulfil your needs concerning brand new video technology. We sincerely hope that your new product will provide you with years of trouble-free service. In the event that anything does go wrong, you can rest assured that the VMS network is available to support you.

Our extensive dealer network can provide technical service and sales support no matter where you are in the world, and the VMS team is always available for support and advice. Visit the VMS website [www.vms-at.com](http://www.vms-at.com), contact one of our regional market managers or talk to us personally +43 1 505 76 04.

Once again thank you for choosing VMS!

Thomas Kühne & Udo Kapeller  
VMS CEO

### **SECURITY ADVICES**

**Connected load:** ~230V/50Hz

**Attention!** This equipment is not appropriate for homebound usage. This product may be danger to life or physical condition, as electric shock and fall. Read manual before connecting or assembling the equipment. If you have any questions concerning save usage of this equipment, please contact your dealer.

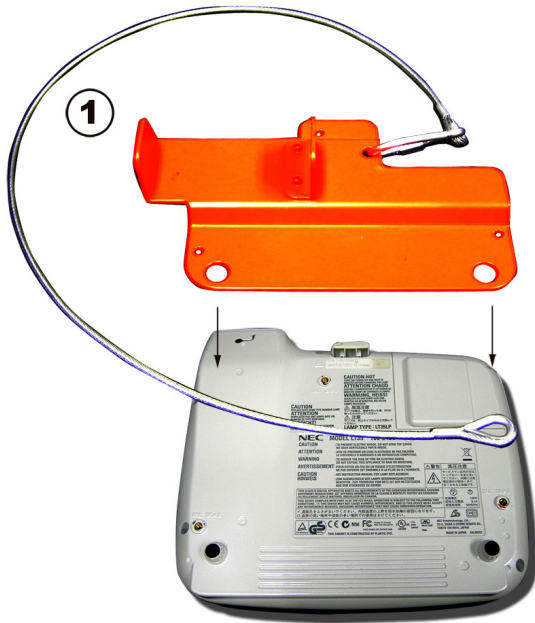
### **PROTECTION FROM ELECTRIC SHOCK**

- Separate the equipment all pole from the power system, if not in use and before removing or installing fuses or other components
- Always earth the equipment electrically, before opening the chassis.
- Only use power supply units being up to local and general safety regulations and fused with overload protection and fuse.
- Never expose this equipment to rain or humidity.
- Leave all maintenance work not described in the manual to qualified technicians.
- Always use an extra fall protection for the equipment, for example a safety rope
- Close off work area underneath the equipment when assembling or disassembling

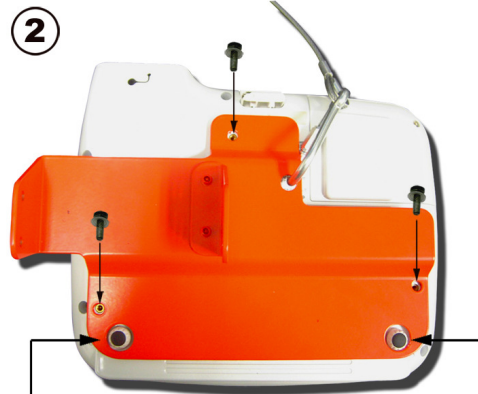
<b>ATTENTION:</b> TO AVOID FIRE AND ELECTRIC SHOCK NEVER EXPOSE THIS EQUIPMENT TO RAIN OR HUMIDITY. NEVER USE THE CONNECTOR OF THIS EQUIPMENT WITH EXTENSION CORDS OR POWER OUTLETS IN WHICH NOT ALL PINS CAN BE INSERTED.
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### **VMU 5.30 mirror unit – technical details:**

Mirror control	DMX 512 1x in,1x out, 16 bit
Pan-range	180°
Tilt-range	90° superior end position = shutter position
Weight	4.5 Kg
Dimensions	HxWxD = 455x112x210 mm



Put the NEC LT35/30/25/20 projector upside down. Pay attention that the safety rope is attached to the basis plate.



Attach the three provided M4x8 screws to the projector's basis plate.

Pay attention that both projector's feet are arranged central in the holes.



Put the VideoMirrorUnit – VMU onto the basis plate. Now mount the VMU with the four screws on the basis plate loosely.

Then carefully move the VMU forward as far as possible and tighten the screws.



Mount the spigot (optional globe joint) and super clamp onto the holder.

Attention: Remove the protection film from the mirror!

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Attach the RS232 Out cable, Mini DIN 8, from the mirror unit to the projector's PC control connector.

Attach the mirror unit's 230V Power Out cable to the projector's AC IN connector.

The projector's power supply cable is used for the whole unit's power supply.

### **Practical tips for NEC LT35/30/25/20 projectors used as VideoMovingProjector.**

As it is required by certain menu functions, the projector should be attached to a video source.

Auto-Keystone has to be inactive  
Auto-Focus has to be inactive  
Background color black  
Adjustment of screen alignment

General → Auto-Keystone → Off  
Options → Auto-Focus → Off  
Installation → Background → Black  
installation → Orientation →  
choice between 4 options

## DMX- and RS232 assignment

The DMX-addresses are selected using "**UP**" and "**DOWN**" and can be saved by pressing the "**STORE**"-button.



The **VMU5** provides two operational modes:

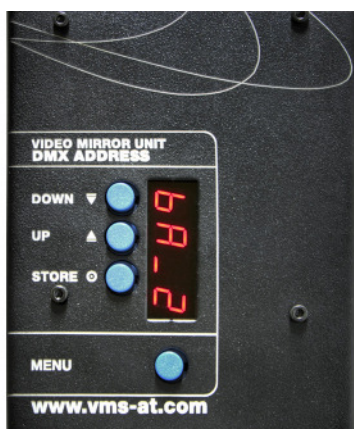
### **Mode 1 "bA\_1":**

5 channels – mirror control, 16 bit pan/tilt and Mirror Reset.

### **Mode 2 "bA\_2":**

13 channels – mirror unit functions and several RS232-commands for the projector, it must be pointed out that the projector is able to run those commands.

You can switch between the two operational modes on the display as following:  
Selection by pressing the "**MENU**"-button twice. On the selection screen the appropriate operational mode is chosen by using "**UP**" and "**DOWN**" and saved by pressing the "**STORE**"-button.



**Mode 1: "bA 1" 5 channels: 16 bit mirror**

<b>DMX Channel</b>	<b>Function</b>
<b>01</b>	<b>Pan</b>
<b>02</b>	<b>Pan fine</b>
<b>03</b>	<b>Tilt</b>
<b>04</b>	<b>Tilt fine</b>
<b>05</b>	<b>Mirror Reset, value 255</b>

**Mode 2: "bA 2" 13 channels: 16 bit mirror and RS 232 assignment over DMX for NEC LT20/25/30/35 + LT 265/245**

<b>DMX Channel</b>	<b>Function</b>
<b>01</b>	<b>Pan</b>
<b>02</b>	<b>Pan fine</b>
<b>03</b>	<b>Tilt</b>
<b>04</b>	<b>Tilt fine</b>
<b>05</b>	<b>Mirror Reset, value 255</b>
<b>06</b>	<b>Picture mute, value 0 off, value 255 on</b>
<b>07</b>	<b>Picturte freeze, value 0 off, value 255 on</b>
<b>08</b>	<b>Digital Zoom, value 0 -255, not supported by LT20/25/30/35</b>
<b>09</b>	<b>Keystone horizontal: value 0 is - 32, 128 is Keystone 0, 255 is +32 not supported by LT20/25/30/35</b>
<b>10</b>	<b>Keystone vertical: value 0 is - 32, 128 is Keystone 0, 255 is +32 not supported by LT20/25/30/35</b>
<b>11</b>	<b>Orientation: 4 values, splitted to 4 x 64 values, Desktop Front, Ceiling Rear, Desktop Rear, Ceiling Front. Not supported by LT20/25/30/35</b>
<b>12</b>	<b>Source Select 3 options: 0 - 64 Video, 128 - 150 S-Video, 192 - 255 Computer</b>
<b>13</b>	<b>Lamp on/off - on is between 128 and 192, off is 255 - must be pressed at least 2 seconds</b>