







LMA i-Interactor Users Manual

I.	i -Interactor System	01
II.	i-Cam User Instruction	02
III.	i-Pen User Instruction	03
	"i -Interactor Control Panel" Instruction	
٧.	"Screen Pen" Instruction	10
	FAQvww.conceptum.g	



I. LMA -Interactor System

- 1. *i*-Cam
- 2. *i*-Pen



- 3. USB cable
- 4. Manual and driver CD
- 5. Hosting bracket
- 6. LMA-tool (may be provided as a download file)



II. *i*-Cam User Instruction

- 1. Lens: Adjust the lens to get clear images.
- 2. Screw: Lossen it and rotate i –Cam to make sure i –Cam can see the whole projection field. And then, fasten screw and lock current i –Cam position.
- 3. Suckers: Press i –Cam , it can stick on the flat table steady.
- 4. USB port: Connecting i-cam with PC.





- **Nomal Hositing:** As shown in left above figure, wrap the metal strap around the projector steeve and connect with the bolt.
- **Upside down Hoisting:** As shown in right above figure, remove the i —Cam screw firstly. Upsidedown the i —Cam. Install the screw again and the other operation is same with

normal hositing.

III. i-Pen User Instruction



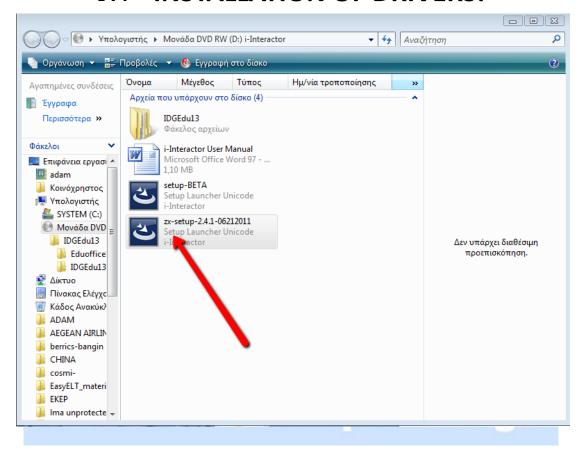
- 1. LED: Infared LED with a scuff sleeve, make sure i —Cam can see it when writing.
- 2. The latest all the direction touch switch: ensure naturally and smooth writing. .
- 3. Right mouse key: Press it and send a right mouse message to PC.
- 4. PageUp key.
- PageDown key.
- 6. Battery cell: Using 2-AAA batteries.

W W G O M G E P É U IM G I Operation Mode:

- ◆ Touching operation: Touch the penpoint on wall or screen slightly.
- lacktriangle Touchless operation: Press the penpoint with finger, make sure the penpoint is visible to i –Cam. Well working within a distanc 10 cm to the screen or wall.
- ◆ The scuff sleeve is removable when it is badly weared.



IV. INSTALLATION OF DRIVERS:

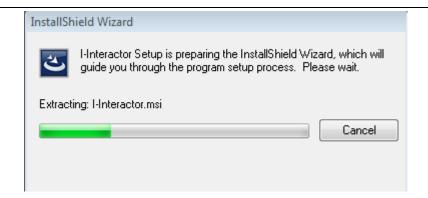


Run the driver



Choose language

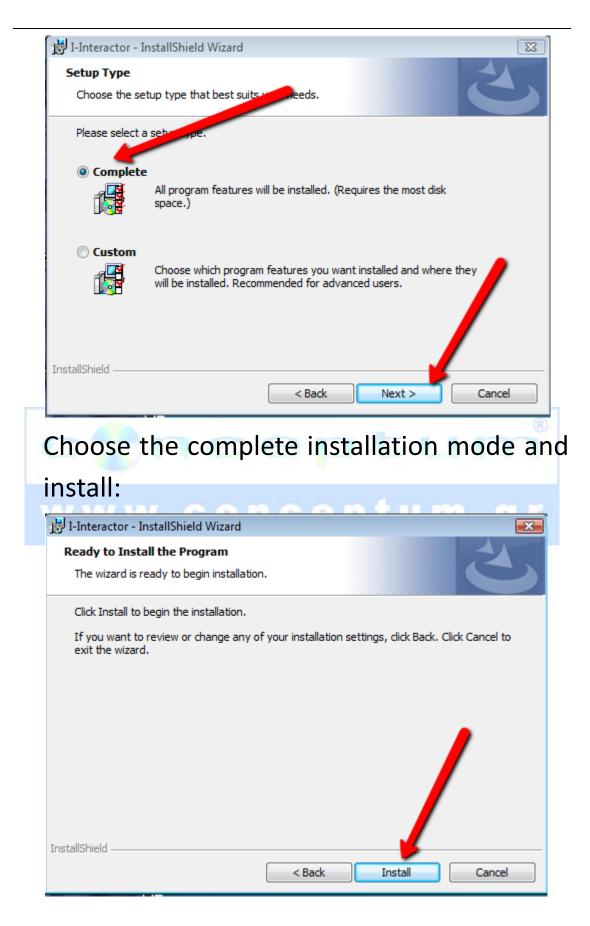






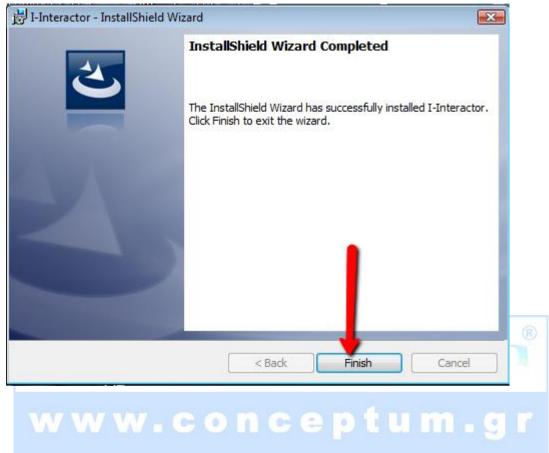
Follow the Next steps







"i -Interactor Control Panel" Instruction



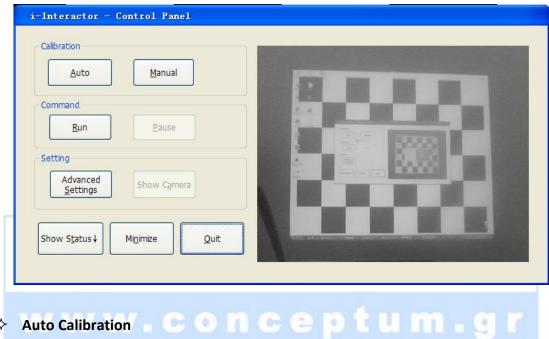
Press Finish to complete and see the icon on your desktop.





1. Calibration

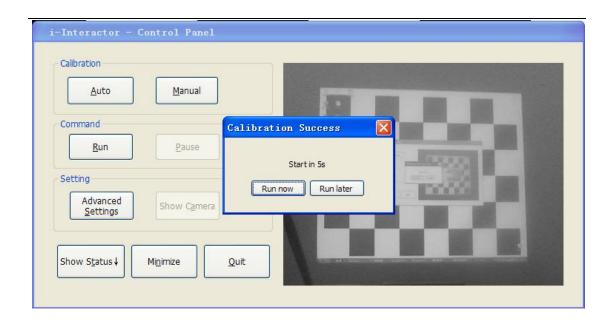
Open the "i-Interactor Control Panel" and adjust it position to let it see the entire projection field as shown in the following picture:.



<u>A</u>uto , the projector will display an 8×6 chess-board picture for automatically Press calibration. If the calibration is completed successfully, one dialog box will appear for the user selection. In default, the system will start in 5 seconds. If the calibration failed, it will turn to Manually Calibration automatically.

Note: Do not block the projection field when doing calibration.





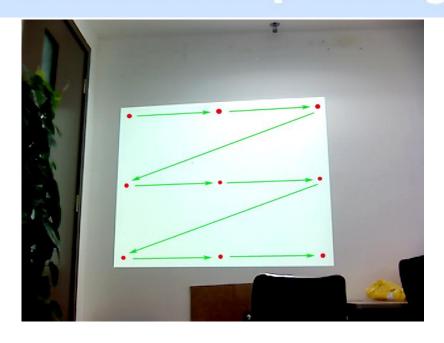
♦ Manually Calibration

When the Auto. Calibration procedure failed, please use the Manu function instead by pressing

Manual

In this procedure, the projector will display 9 calibration Red points sequentially. The user is required to click these points' centers one by one with the pen.

When all the points have been clicked, the system can be calibrated ready.





Note: When the system is calibrated ready. Do not move i—Cam or projector. Otherwise, you have to re-calibrate the system.





СН 🛗 🤻

MANUAL - User's manual

2. Run

When the system has been calibrated, it will start in 5 seconds, or the user can run it by pressing instead. And the control panel will be hided to the bottom toolbar.

| i-Interactor - Control Panel | X |
| Double click here to show the window | Doubl

Under the Running status, the interactive pen is active. The user can use it as a mouse. If you want to use the control panel, just double click the icon on the bottom toolbar.





The Status contains: current frame rate, the pen's coordinate, status of left mouse key and the speckle size etc. The sample time slider is used to adjust the frame rate value.

■ Note:

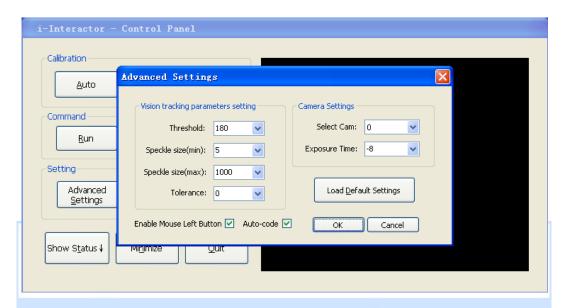
1. Do not display the camera picture when system is running to improve system speed.



2. According to the user's computer performance, please adjust the *Sample Time* value to make the *Frame Rate* between 30-40, and get the best system performance.

4. Advanced Settings

Press Advanced Settings dialog will be displayed as :



- If your PC connects with more than one camera, please select the camera of i –Cam.
- Exposure Time: Control the exposure time of i —Cam. Smaller value gets darker picture and vice versa. Default value is -8. When the value is changed, calibration is required.
- Threshold: Small value means the IR speckle or pen can be detected easier. But it also
 increases the possibility of ambient light disturbance. The suggestion adjust range is
 150-200, default value is 180.
- Speckle size (min): Minimum size of the IR speckle size (in pixel) that the system can detect.
 smaller value can improve the system sensitivity but also increases the possibility of ambient light disturbance. Default value is 5.
- Speckle size (max): Maximum size of the IR speckle size (in pixel unit) that the system can detect. It is designed to filter some big high reflection region. Default value is 1000.
- Tolerance: Improve this value can increase the stability of the system, but also decreases its sensitivity. Default value is 0.



- Enable left mouse button: Default, when the pen is pressed down, it is assumed as the left mouse button down.
- Auto-code: When the pen is pressed down, it will send a authentication code to the i-Cam.
- **Note:** General users are NOT suggested to modify these parameters.



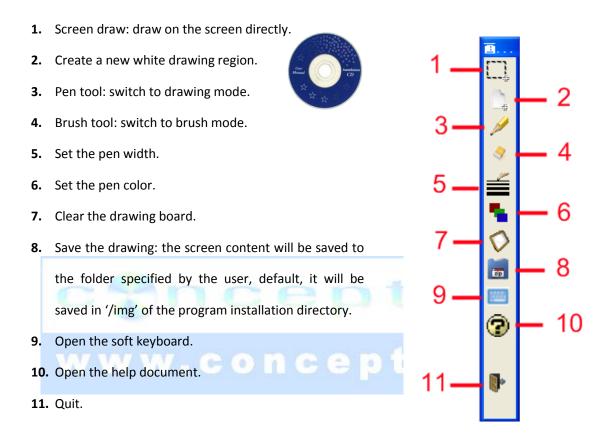


V. ScreenPen User Instruction



• Double click the icon

, the user interface as shown below:



■ Note: To the Windows7 users, please set the program compatibility of the *ScreenPen* as follows: Right click on icon of Screen Pen \rightarrow Select properties \rightarrow Select the compatibility tab \rightarrow Check 'Disable desktop composition'.

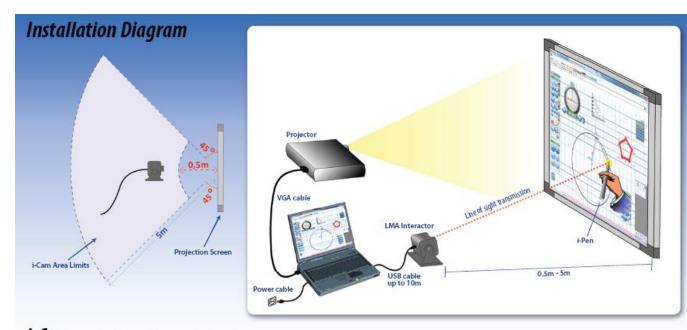
VI. FAQ

- ◆ Under the running status, if the pen is not touched the screen, the video picture should be very dark or black. If it is not, please adjust the Exposure Time to make it darker.
- ◆ When the pen has touched the screen, there should be a bright spot on the video picture, if it is not, please adjust the Exposure Time to a greater value.
- ◆ If the system cannot detect the pen position, please try a smaller Threshold or a smaller Speckle size (min)
- ◆ When the projection distance or projection screen is small, and the system cannot work correctly, the user can adjust the exposure time lower, say -9 or -10.
- When the exposure time has been changed, the user should calibrate the system again to active the exposure setting.
- ◆ If the there is frequent delay in the pen buttons, and the penpoint is not damaged, please consider change the new battery.
- There will be abrasion to the penpoint in the touching operation. But it will not affect its usage.

If there are many 2.4G devices in the environment, it may affect the use of the system. The user can disable the 'Advanced Setting→ Auto-code'. Then, the buttons on the pen may ineffective, but will not affect the writing function of the pen.



How to locate LMA-interactor



www.conceptum.gr

DISTRIBUTOR

CONCEPTUM S.A.

12 Cheyden str 104 34 Athens Greece

Tel. +30 210 88 38 858 Fax +30 210 88 38 691

support@lmatool.com