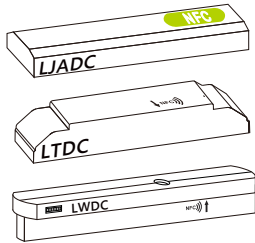


⊙ Equipments

① LED drivers supported NFC function

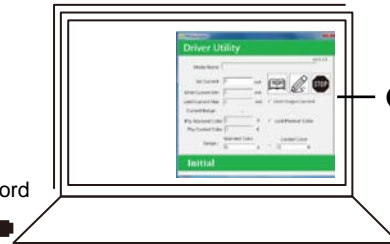


② SANF-B, SANF-G



③ USB extension cord

④ Desktop Computer / Laptop



⑤ NFC Application software

⊙ Installations of NFC Application

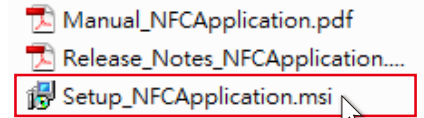
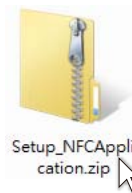
(1) Go to address of HEP website and click 'Download PC version'

www.hepgroup.net/en/product/electronic/led-driver/accessories-app/hepxnfc-sanf

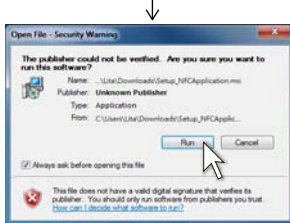


※ In case of failure on file downloading, please contact HEP Sales Rep for further assistance.

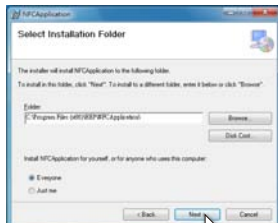
(2) As loading all files is completed, unzip folder of 'Setup_NFCApplications.zip'. Choose and click on file of 'Setup_NFCApplication.msi'.



(3) While programs installing, warning icons may jump up for security check. Just click on confirm or execution for continuous installation. (Remark- Different brands of PC may display similar icons during file execution)



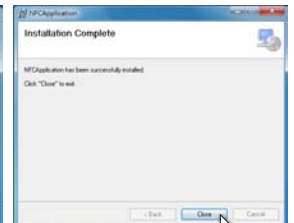
Click 'Next'



Confirm folder downloaded address and click 'Next'



Click 'Next'

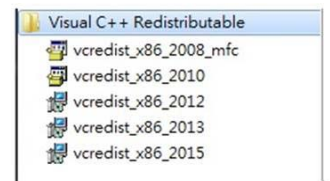


As installation is finished, click 'Close'

(4) For good operations, there are five patch files loaded in a folder of 'Visual C++ Redistributable', which should be installed as well. Access address listed following.

<https://www.hepgroup.net/archive/apk/Visual%20C++%20Redistributable.zip>

※ Click for installation of each patch program, respectively, to ensure NFC Application software working functionally.

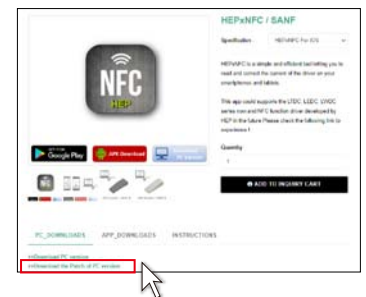


▲ Failure of complete installations with all patch files, PC may display error messages during execution of NFCApplication.



▲ All patch files also are downloaded available from HEP official website, just click 'Download the Patch of PC version'

www.hepgroup.net/en/product/electronic/led-driver/accessories-app/hepxnfc-sanf



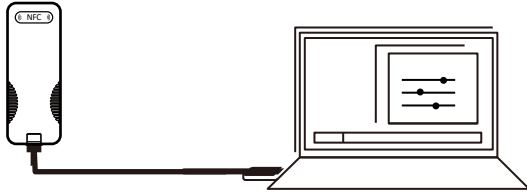
(5) As all programs well executed, an icon 'NFCApplication' for quick access would display on desktop. (operation procedure: start > program > NFC Application)



NFCApplication

◎ Operation Instructions

(1) Linking Reader SANF To PC



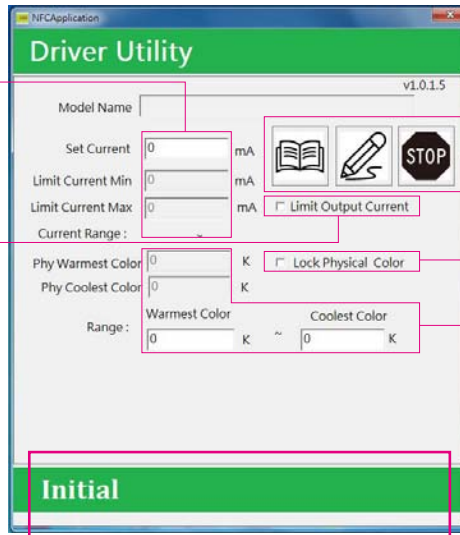
- ❶ Insert square connector of USB extension cord at the end of reader and plug USB side of extension cord to PC.
- ❷ Ensure device of NFC reader well equipped on PC .

(2) Initial / Main Operation Window

(4) Set Up Output Current / Current Range On LED Drivers

- ※ Determine a desired output current and range of mini & max current applied to 'Set Current'.
- ※ 'Current Range'- applicable design specs of output currents for setup from a chosen LED driver.

(4-1) Activate ON / OFF Setting Of 'Limit Output Current'



▲ Reader Status

※ Operation mode

- (3) Read Out Data From LED Driver
- (6) Write Data To LED Driver
- ※ Stop Operation

(5) Set UP Color Temperature Range, CT

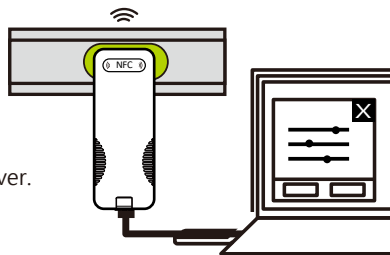
- ※ Assign warmest & coolest color temperatures, performing on LED light source, to candidate drivers.
- ※ 'Physical Warmest & Coolest Color'- applicable color temperature range for setup from a chosen LED driver.

(5-1) Activate ON / OFF setting of 'Lock Physical Color'

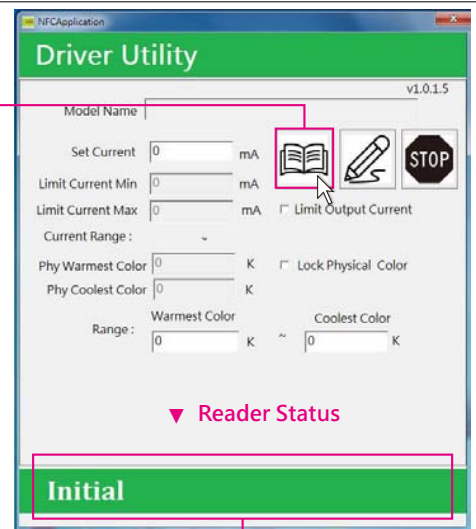
(3) Read Out Data From LED Driver

- ❶ Click on and NFC reader is ready for reading data from LED drivers in every 3 seconds.

- ❷ Put antenna area of reader as closely as possible to NFC location of a chosen LED driver.



- ※ Please refer demonstration diagrams from auxiliary instructions in last page.
- ※ It is unnecessary to power on LED driver while reader scans the driver for a reading or writing.



▼ Reader Status

Ready to read

- ❸ Waiting for a reading from LED driver.

Wrong

- ❹ Reading error, please check out equipments, antenna location, and scan again.

Success

- ❺ Successfully read out data.

- ※ Main window displays all information preset in LED driver, including, O/P current, current range, warmest & coolest color temperature, and color range.

- ❻ Click on to stop process of reading data.

Stop

- ※ Remark: If failure on finding the chosen LED driver by reader, user may download the latest version of reader program from HEP website for renewing data base of LED driver.

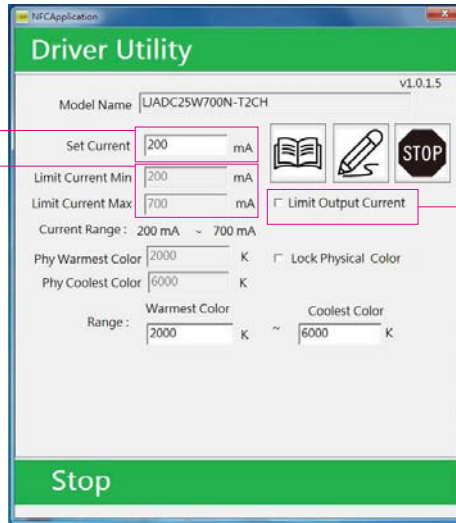
© Operation Instructions

(4) Set Up Output Current / Current Range On LED Drivers

(4-1) Activate ON/OFF Setting Of 'Limit Output Current'

1 Set output current to LED drivers

※ Data of 'Set Current' must be within applicable current specs of a chosen LED driver. Any desired current out of from 'Current Range' is unable to set to candidate drivers.

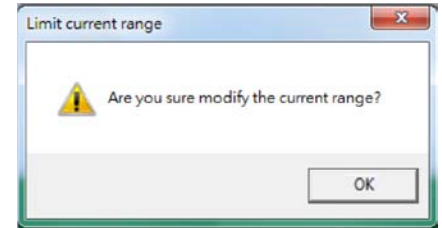


2 Limit Output Current

If not clicking 'Limit Output Current', preset 'Limit Current Min' & 'Limit Current Max' are unable to change.

3 Limit Output Current

If clicking on 'Limit Output Current', preset 'Limit Current Min' & 'Limit Current Max' are ready to modify.



4 Set up limit current min. & max.

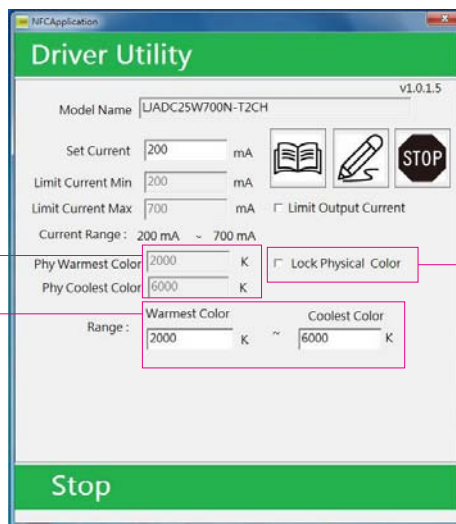
- ※ As choosing 'Limit Output Current', entering data on columns of Limit Current Min & Max must comply with applicable current specs of LED light source used in luminaires, but not over 'Current Range' of a chosen LED driver.
- ※ To avoid setting inappropriate output current and burning out LED light source, user is highly recommended to click on 'Limit Output Current' and enter proper value to 'Limit Current Max' for purpose of protection on light source.
- ※ As long as current setting is completed, just keep ON status of 'Limit Output Current' in order to save data.

(5) Set Up Color Temperature Range, CT

(5-1) Activate ON/OFF Setting Of 'Lock Physical Color'

1 Set up desired tuning range of color temperatures performed by luminaires.

Setting the warmest & coolest color temperatures must be within range between 'Physical Warmest Color' and 'Physical Coolest Color'.
 ※ Design default on 'Physical Warmest Color' - 2000K;
 ※ Design default on 'Physical Coolest Color' - 10000K;

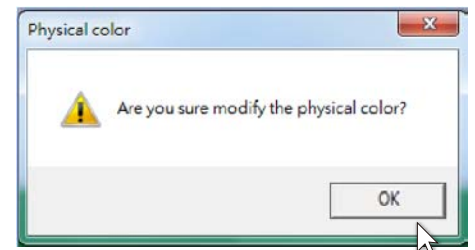


2 Lock Physical Color

If not clicking 'Lock Physical Color', preset 'Physical Warmest Color' and 'Physical Coolest Color' are unable to change.

3 Lock Physical Color

If clicking on 'Lock Physical Color', preset 'Physical Warmest Color' and 'Physical Coolest Color' are ready to modify.




4 Set up physical warmest & coolest color

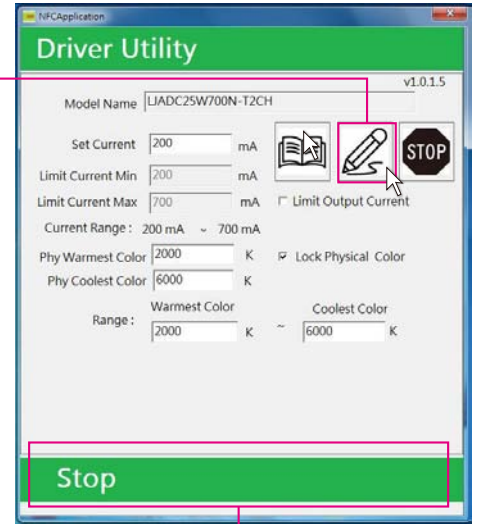
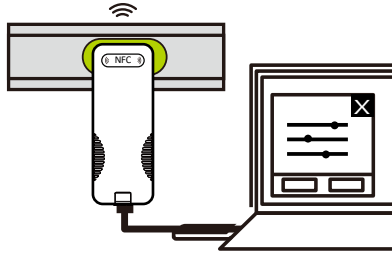
- ※ As choosing 'Lock Physical Color', entering values on columns must comply with applicable color temperatures of tunable-white LED light source used in luminaires.
- ※ To avoid setting inappropriate data and conducting error performance of LED light color, user is highly recommended to click on 'Lock Physical Color' and input proper values, which distribute exactly same color range as LED light source.
- ※ As long as CT setting is completed, just keep ON status of 'Lock Physical Color' in order to save data.

◎ Operation Instructions

(6) Write Data To LED Driver

- 1 Click on  and NFC reader is ready for writing data to LED drivers in every 3 seconds.

- 2 Put antenna area of reader as closely as possible to NFC location of a chosen LED driver.



Ready to write

- 3 Waiting for writing data to LED driver.

Wrong

- 4 Writing error, please check out equipments, antenna location, and scan again.

Success

- 5 Successfully write data.
6 Quickly writing data to multiple candidate LED drivers. Parallel all candidate drivers in line of NFC location and move reader to each other, respectively.

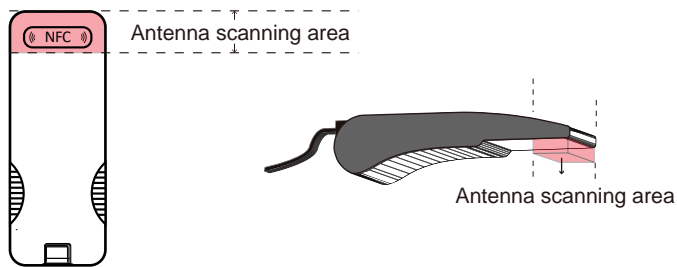
- 7 Click on  to stop process of writing data.

Stop

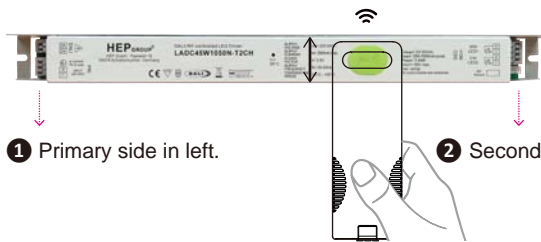
◎ Auxiliary Instructions

- (1) LED driver built in metal case may shield NFC transmissions or occur disturbances sometimes, while reader scanning it. Here are recommended demonstrations for user's reference.
(2) Please ensure applicable NFC area of each LED driver from its product specs sheet as well, if a chosen model not applying on this instruction.

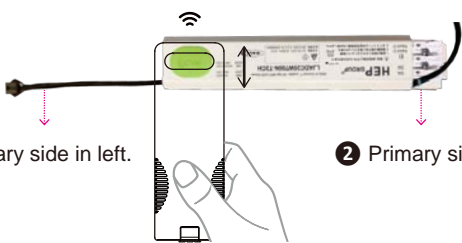
※ Antenna Location of Reader, SNAF-B & SNAF-G



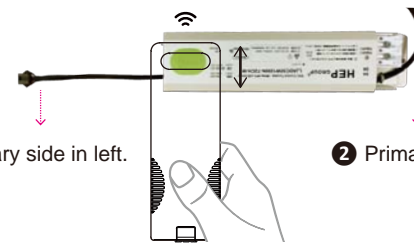
※ LADC45W1050N-T2CH / SANF-01

- 
- 1 Primary side in left. 2 Secondary side in right.
- 3 Put antenna area of reader entirely covering NFC location of LED driver. If no reaction, just move reader back and forth slowly along NFC location until main window displaying 'Success'.

※ LJADC25W700N-T2CH / SANF-01

- 
- 1 Secondary side in left. 2 Primary side in right.
- 3 Put antenna area of reader entirely covering NFC location of LED driver. If no reaction, just move reader back and forth slowly along NFC location until main window displaying 'Success'.

※ LJADC50W1200N-T2CH / SANF-01

- 
- 1 Secondary side in left. 2 Primary side in right.
- 3 Put antenna area of reader entirely covering NFC location of LED driver. If no reaction, just move reader back and forth slowly along NFC location until main window displaying 'Success'.