

PJLink test manual

Change log

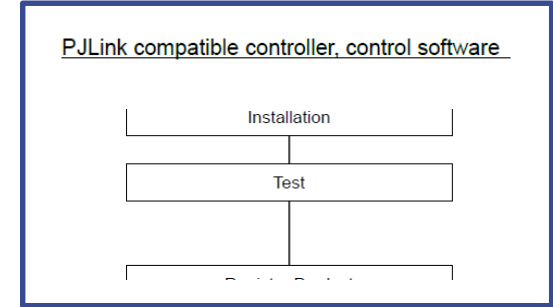
Revision	Change log	Date
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1. About this document

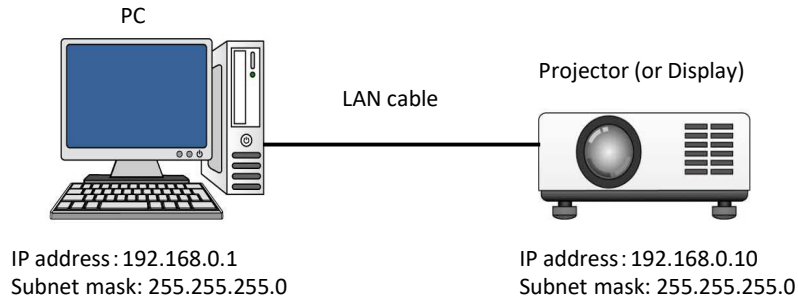
- This document explains about requisite procedure to execute “Test”.
- Enter the test results(Pass/Fail) and communication logs in Excel(PJLinkTestSheet.xlsx)



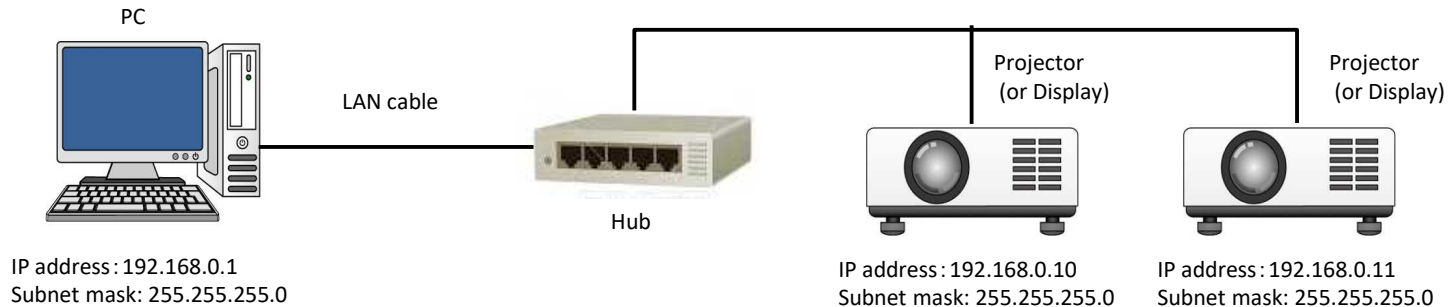
Command functions						
	PJLinkTEST4PJ button	Parameter	Command from PJLinkTEST4PJ	Sample reply	Remark/Projector behavior	Pass/Fail
	GET_ALL	-	%1POWR ?	%1POWR=1		Pass
		-	%1INPT ?	%1INPT=14		Pass
		-	%1AVMT ?	%1AVMT=31		Pass
		-	%1ERST ?	%1ERST=000000		Pass
		-	%1LAMP ?	%1LAMP=8253 1 13442 1		Pass
		-	%1INST ?	%1INST=11 22 33 44 1A 2Z 3E		Pass
		-	%1NAME ?	%1NAME=PJLinkProjector		Pass
		-	%1INFO ?	%1INFO=PJLink		Pass
		-	%1INF1 ?	%1INF1=JBMIA		Pass
		-	%1INF2 ?	%1INF2=PJLinkProjector		Pass
		-	%1CLASS ?	%1CLASS=2		Pass
		-	%2INPT ?	%2INPT=14		Pass
		-	%2INST ?	%2INST=11 22 33 44 1A 2Z 3E		Pass
		-	%2SNUM ?	%2SNUM=1234abcd		Pass

2.1 Environment: Connection diagram

Connection diagram



Note: Set PCs and Projectors/Displays as the same network address.

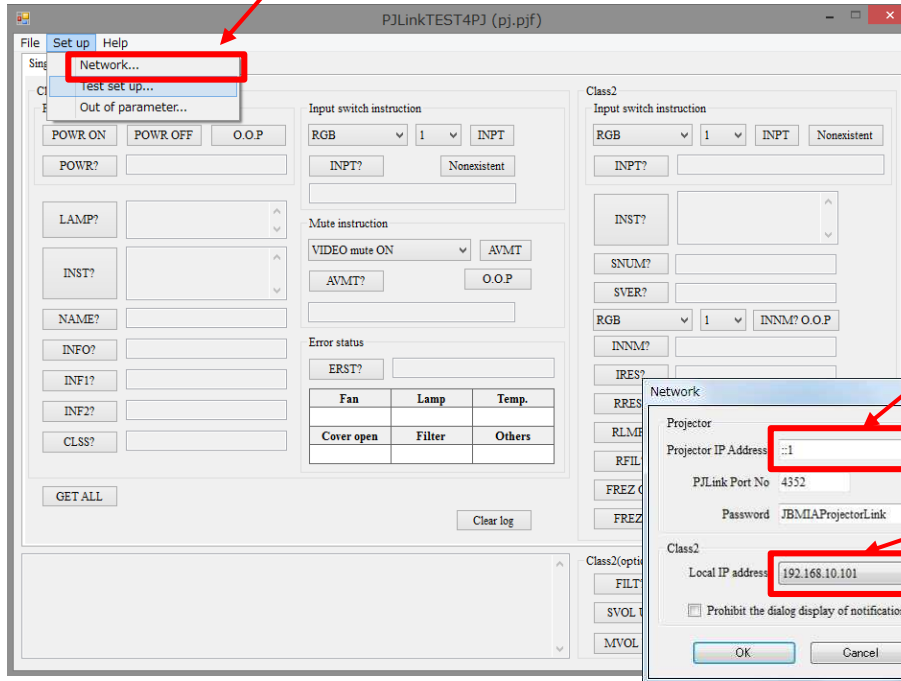


2.1 Tool setup Environment



i. Start PjLinkTEST4PJ.exe

ii. Select Network



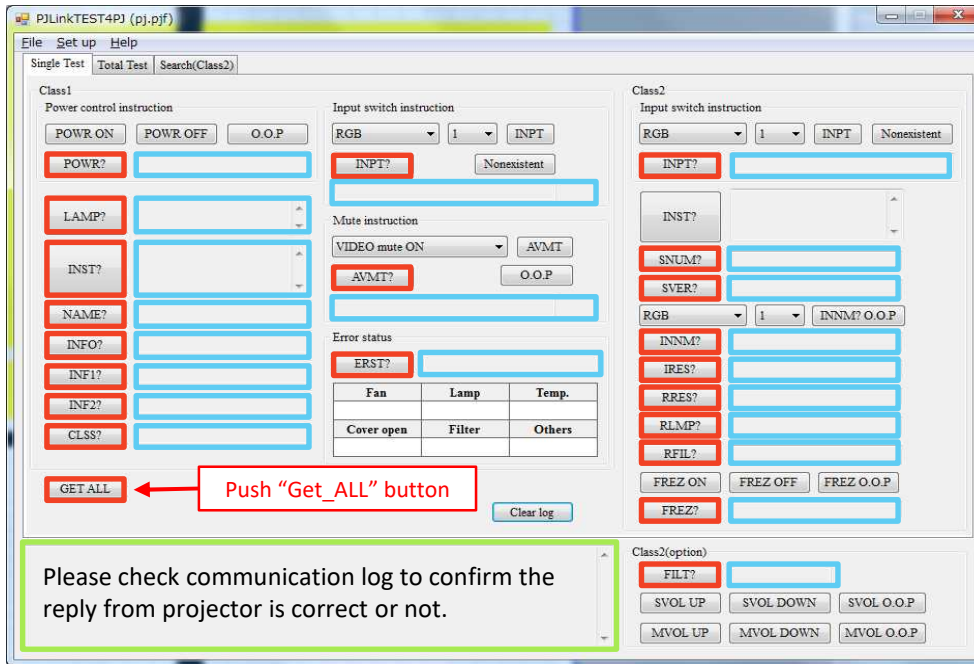
- i. Start PjLinkTEST4PJ.exe
- ii. Press "Set up" tab and select "Network" button.
- iii. Input Projector/display's IP address
- iv. Select Local IP address for Search and Status Notifications.

iii. Input Projector/display's IP address

iv. Select Local IP address

3.1.1. GET_ALL Get commands

Please confirm all of the query commands work correctly as specified by PJLink specifications.



- i. Push “GET_ALL” button.
- ii. Confirm each reply and communication log.
- iii. If there are any errors or unexpected reply had come, please check the command behavior one by one with each query button.

Query button

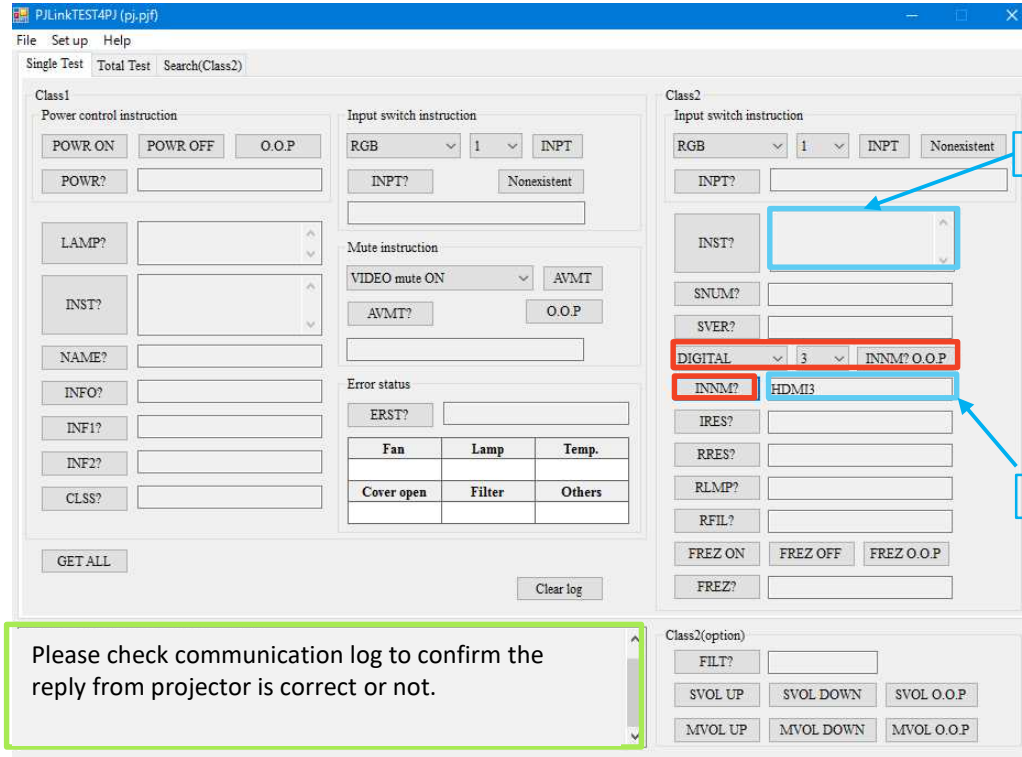
Reply

Communication log

3.1.2 INNMM? Get commands

Input terminal name query (INNMM?)

This command has many parameters. It related to the reply of "INST?" Query command.



INNMM? command parameter is different in each projector/display. Please confirm the reply of "INST?" query command to know the supported parameter at first.

The reply of "INST?"

e.g.) If the reply of "INST?" is

No.1	11	No.2	12
No.3	31	No.4	32
No.5	51	No.6	52

Then, the following INNMM? parameters are available.

- RGB 1
- DIGITAL 1
- NETWORK 1
- RGB 2
- DIGITAL 2
- NETWORK 2

* Please refer to "Guidelines for Input Terminals" in details

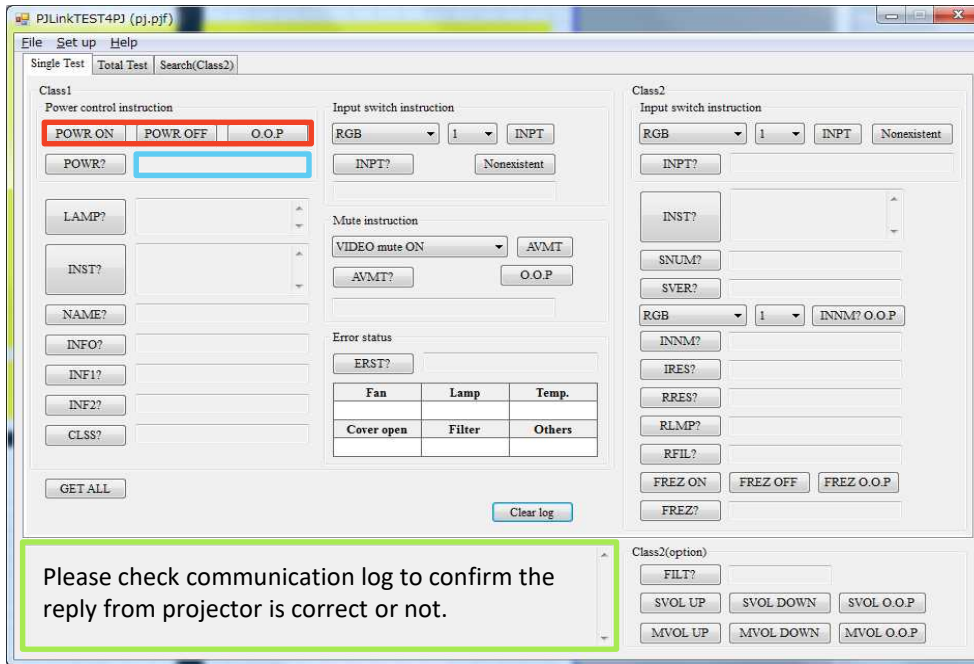
The reply of "INNMM?"

- i. Push "INNMM?" button with each parameter your projector/display support.
- ii. Confirm the reply from the projector/display is correct by checking communication log.
- iii. Push "INNMM? O.O.P" button.
- iv. Confirm the reply from the projector/display is "ERR2" by checking communication log.

 Query button Reply Communication log

3.2.1 POWR Set commands

Power control instruction command (POWR)



- i. Push POWR ON button.
- ii. Confirm the projector turn on correctly.
- iii. Confirm the reply from projector/display is correct by checking communication log.
- iv. Push POWR OFF button.
- v. Confirm the projector/display turn off correctly.
- vi. Confirm the reply from projector/display is correct by checking communication log.
- vii. Push O.O.P button
- viii. Confirm the projector/display do nothing.
- ix. Confirm the reply from projector/display is "ERR2" by checking communication log.

Instruction button

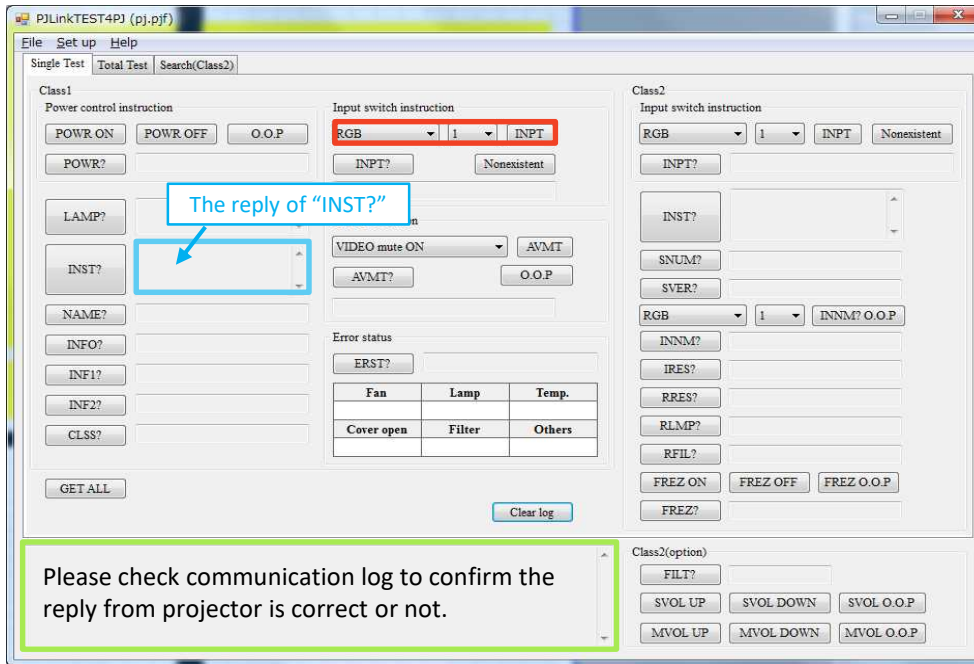
Reply

Communication log

3.2.2. INPT(CLASS1) Set commands

Input switch instruction command (INPT)

This command has many parameters. It related to the reply of “INST?” Query command.



Instruction button

Reply

Communication log

INPT command parameter is different in each projector/display. Please confirm the reply of “INST?” query command to know the supported parameter at first.

e.g.) If the reply of “INST?” is

No.1	11	No.2	12
No.3	31	No.4	32
No.5	51	No.6	52

Then, the following INPT parameters are available.

RGB 1	RGB 1
DIGITAL 1	DIGITAL 2
NETWORK 1	NETWORK 2

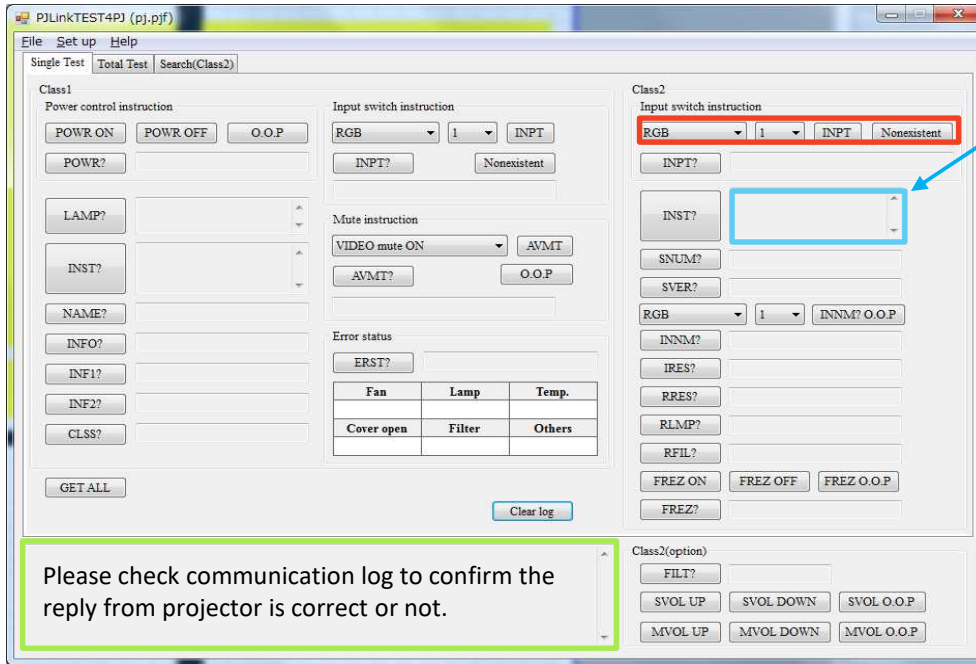
* Please refer to “Guidelines for Input Terminals” in details

- i. Push “INPT” button with each parameter your projector/display support.
- ii. Confirm the reply from the projector/display is correct by checking communication log.
- iii. Push “Nonexistent” button
- iv. Confirm the reply from the projector/display is “ERR2” by checking communication log.

3.2.3. INPT(CLASS2) Set commands

Input switch instruction command (INPT)

This command has many parameters. It related to the reply of “INST?” Query command.



INPT command parameter is different in each projector/display. Please confirm the reply of “INST?” query command to know the supported parameter at first.

The reply of “INST?”

e.g.) If the reply of “INST?” is

No.1	11	No.2	12
No.3	31	No.4	32
No.5	51	No.6	52

Then, the following INPT parameters are available.

RGB 1	RGB 2
DIGITAL 1	DIGITAL 2
NETWORK 1	NETWORK 2

* Please refer to “Guidelines for Input Terminals” in details

- i. Push “INPT” button with each parameter your projector/display support.
- ii. Confirm the reply from the projector/display is correct by checking communication log.
- iii. Push “Nonexistent” button.
- iv. Confirm the reply from the projector/display is “ERR2” by checking communication log.

Instruction button

Reply

Communication log

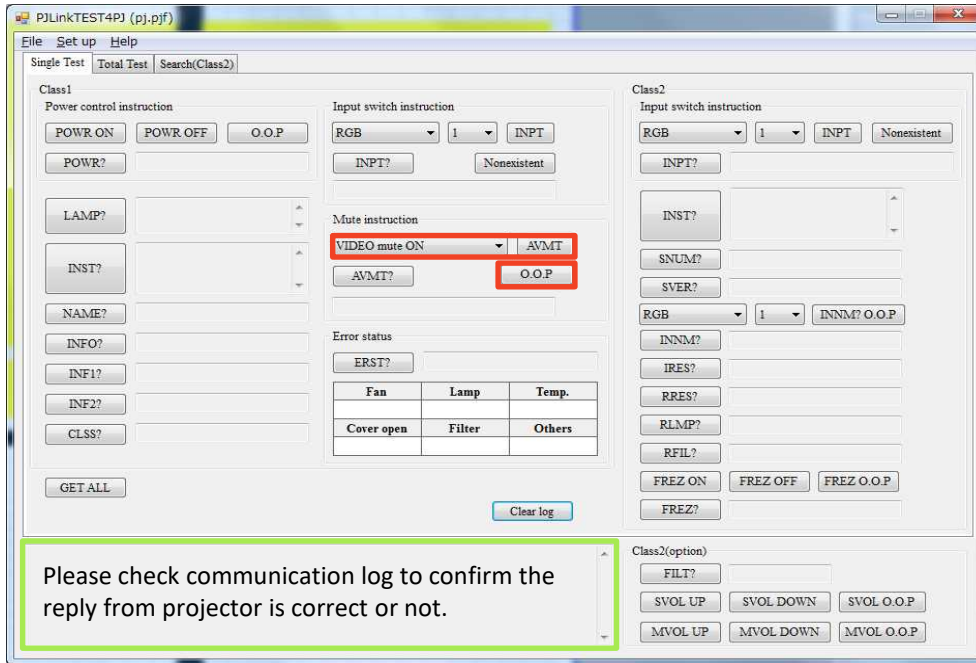
3.2.4. AVMT Set commands

Mute instruction command (AVMT)

This command has 6 parameters. Not all parameters are supported.

This command has following parameters.

- Video mute ON
- Video mute OFF
- Audio mute ON
- Audio mute OFF
- Video and Audio mute ON
- Video and Audio mute OFF



Supported parameters depends on the projector/display.

If the projector/display doesn't support the parameter,

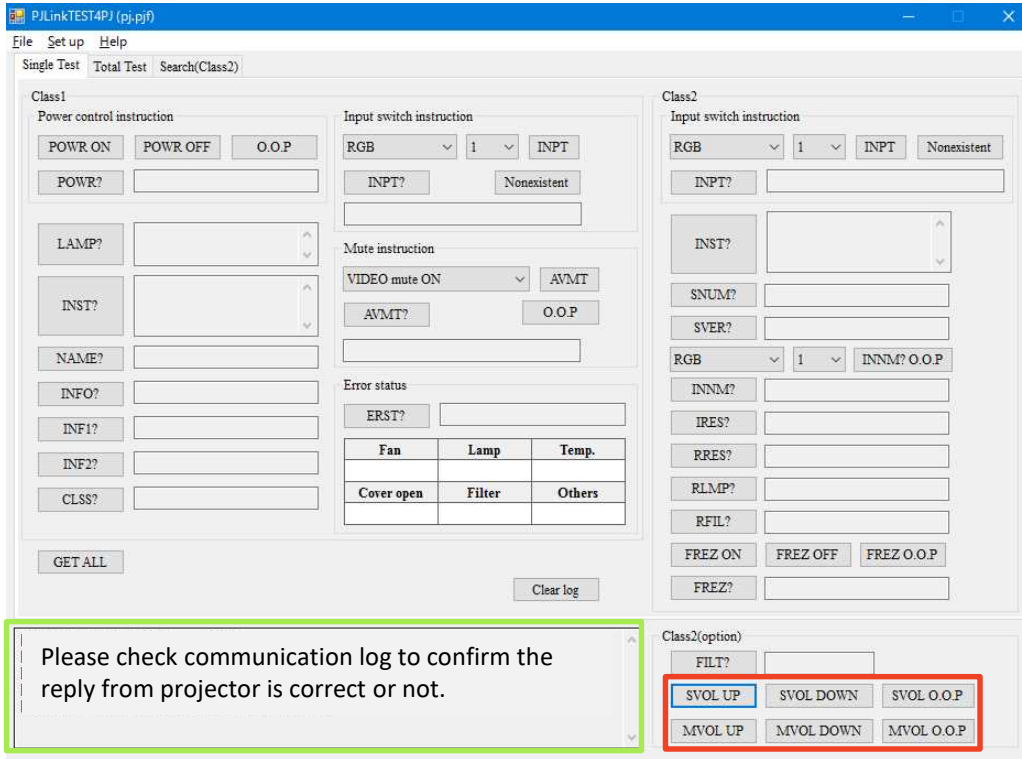
The projector shall reply "ERR2".

- i. Push AVMT button with each parameter. (total 6 trial)
- ii. Confirm the reply from projector/display is correct by checking communication log.

Instruction button Reply Communication log

3.2.5 SVOL/MVOL Set commands

Speaker/Microphone volume adjustment command (SVOL/MVOL)

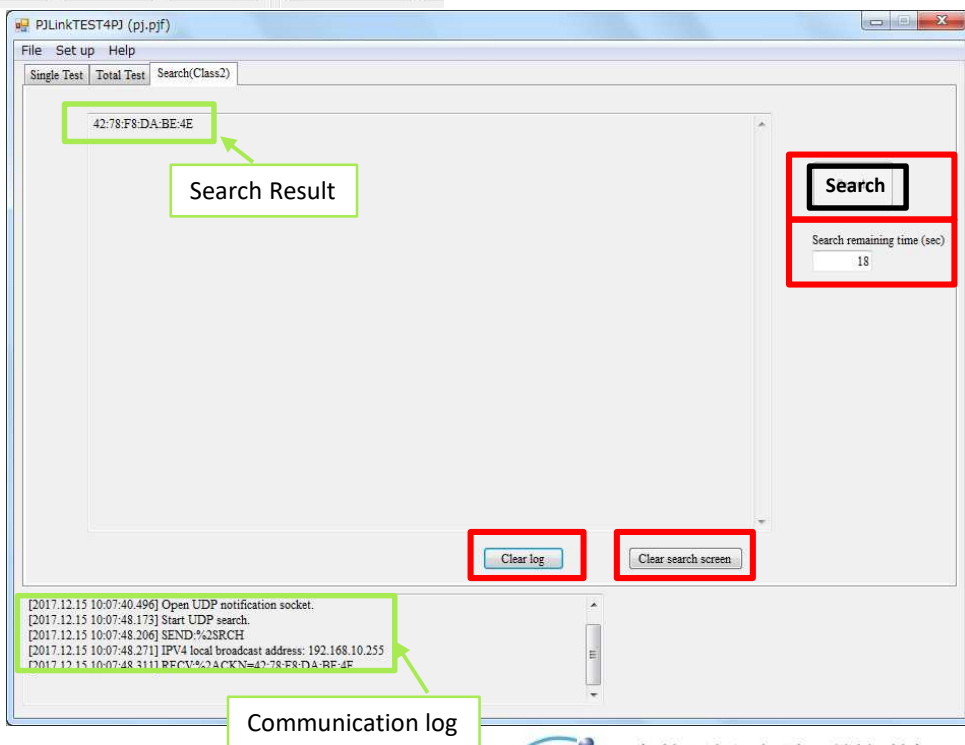
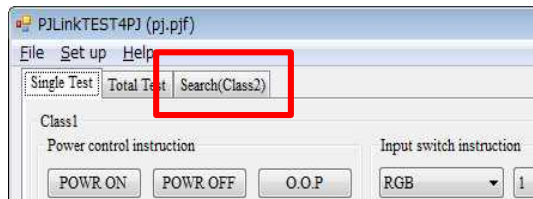


Instruction button
 Reply
 Communication log

- i. Push “SVOL UP” button.
- ii. Confirm the reply from the projector/display is correct by checking communication log.
- iii. Push “SVOL DOWN” button.
- iv. Confirm the reply from the projector/display is correct by checking communication log.
- v. Push SVOL O.O.P button.
- vi. Confirm the reply from the projector/display is “ERR2” by checking communication log.
- vii. Push “MVOL UP” button.
- viii. Confirm the reply from the projector/display is correct by checking communication log.
- ix. Push “MVOL DOWN” button.
- x. Confirm the reply from the projector/display is correct by checking communication log.
- xi. Push MVOL O.O.P button.
- xii. Confirm the reply from the projector/display is “ERR2” by checking communication log.

If the projector/display doesn’t support Speaker or Microphone, the projector/display shall reply “ERR1”.

4. Search function



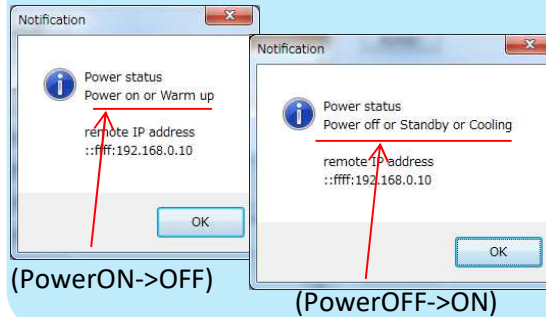
- i. Push Search(CLASS2) button.
- ii. It changes to Search function mode.
- iii. Push search button.
- iv. Search function starts.
- v. Results are indicated by MAC address.
- vi. Search doesn't restart until Search remaining time is zero.
- vii. Push Clear log button.
- viii. It clears the communication log.
- ix. Push Clear search screen button.
- x. It clears the search results.

5. Status Notification function

i-1. [Link Up]



i-2. [Power]



Confirm the following notifications displayed on your computer screen

i-1. [Link Up]

Connects the projector/display to the network.

i-2. [Power]

Switches projector/display's power status.
(ON ->OFF / OFF -> ON)

i-3. [Error status]

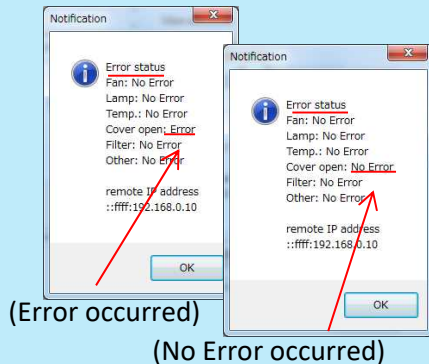
Switches projector/display's error status.
(Error -> No error / No Error -> Error)

Example: Open the projector/display's cover to cause the cover open error.

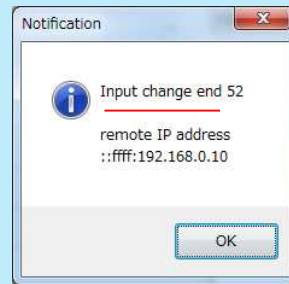
i-4. [Input change end]

Changes the projector/display's input source.

i-3. [Error status]

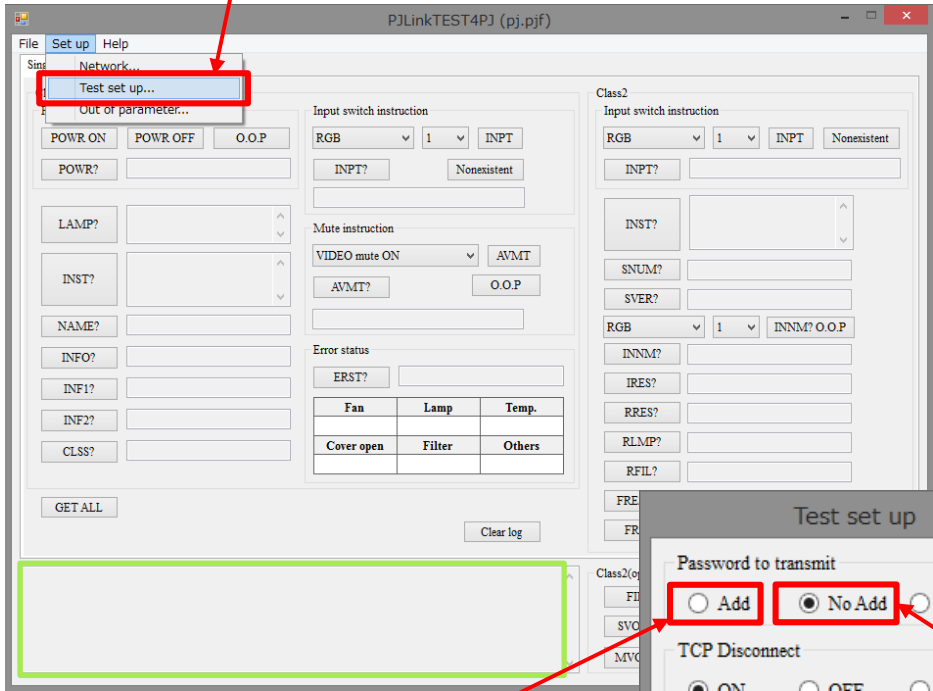


i-4. [Input change end]

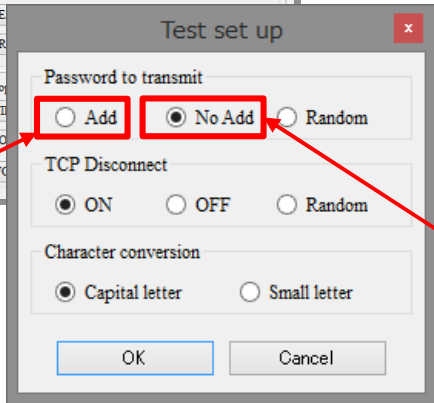


6. Authentication function

i. Test set up...



ii. set to Add



iii. set to No Add

- i. Select Test set up... of PC Application
- ii. Password to transmit set to Add
 - ii-1 Match with the projector/display 's password
 - ii-2 Mismatch with the projector/display 's password
- iii. Password to transmit set to NoAdd
 - iii-1 Match with the projector/display 's password
 - iii-2 Mismatch with the projector/display 's password

Instruction button Communication log