



DATA PROJECTOR

MODEL

PG-F255W

SETUP MANUAL

Connecting Pin Assignments 2

RS-232C Specifications and Commands 4

Setting up the Projector Network Environment ... 9

1. Connecting the Projector to a Computer 10

2. Setting an IP Address for the Computer 11

3. Setting up a Network Connection for the Projector .. 13

Controlling the Projector via LAN 15

Controlling the Projector Using Internet Explorer
(Version 5.0 or later) 15

Confirming the Projector Status (Status) 16

Controlling the Projector (Control) 16

Setting and Adjusting the Projector
(Settings & Adjustments) 17

Setting the Security (Network – Security) 17

Making General Settings for the Network
(Network – General) 18

Setting for Sending E-mail when an Error Occurs
(Mail – Originator Settings) 18

Setting Error Items and Destination Addresses
to which E-mail is to be Sent when an
Error Occurs (Mail – Recipient Settings) ... 19

Setting Error Items and the URL that are to be
Displayed when an Error Occurs
(Service & Support – Access URL) 19

Setting up the Projector Using RS-232C or Telnet20

When Connecting Using RS-232C 20

When Connecting Using Telnet 21

SETUP MENU (Main Menu) 22

ADVANCED SETUP MENU 22

View Setting Detail List ([V]View All Setting) 23

Set Items 23

Save Settings and Quit ([S]Save & Quit) 24

Quit without Saving Settings ([Q]Quit Unchanged) .. 24

IP Address Setting ([1]IP Address) 25

Subnet Mask Setting ([2]Subnet Mask) 25

Default Gateway Setting ([3]Default Gateway) 25

User Name Setting ([4]User Name) 25

Password Setting ([5>Password) 26

RS-232C Baud Rate Setting
([6]RS-232C Baud Rate) 26

Projector Name Setting ([7]Projector Name) 26

DHCP Client Setting ([8]DHCP Client) 26

Disconnecting All Connections
([D]Disconnect All) 27

Entering ADVANCED SETUP MENU
([A]Advanced Setup) 27

Setting Auto Logout Time
(ADVANCED[1]Auto Logout Time) 27

Data Port Setting (ADVANCED[2]Data Port) 27

Carrying out Network Ping Test
(ADVANCED[5]Network Ping Test) 28

Setting of Accept IP Address (ADVANCED[6]Accept
IP Addr(1) – [8]Accept IP Addr(3)) 28

Accepting All IP Addresses
(ADVANCED[9]Accept All IP Addr) 28

Setting of Search Port
(ADVANCED[0]Search Port) 29

Return to Default Settings
(ADVANCED[I]Restore Default Setting) 29

Return to Main Menu
(ADVANCED[Q]Return to Main Menu) 29

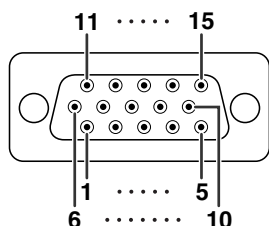
Resetting the Lamp Timer of the Projector

via LAN 30

Troubleshooting 32

Connecting Pin Assignments

COMPUTER/COMPONENT input and COMPUTER/COMPONENT output Terminals : mini D-sub 15 pin female connector



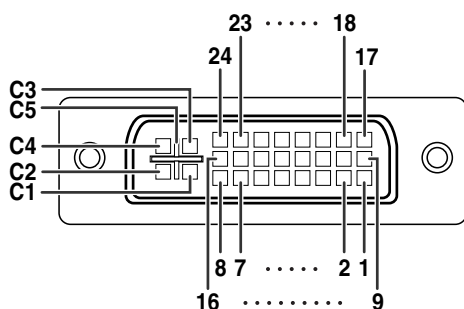
COMPUTER Input/Output

Pin No.	Signal
1.	Video input (red)
2.	Video input (green/sync on green)
3.	Video input (blue)
4.	Not connected
5.	Not connected
6.	Earth (red)
7.	Earth (green/sync on green)
8.	Earth (blue)
9.	Not connected
10.	GND
11.	Not connected
12.	Bi-directional data
13.	Horizontal sync signal: TTL level
14.	Vertical sync signal: TTL level
15.	Data clock

COMPONENT Input/Output

Pin No.	Signal
1.	PR (CR)
2.	Y
3.	PB (CB)
4.	Not connected
5.	Not connected
6.	Earth (PR)
7.	Earth (Y)
8.	Earth (PB)
9.	Not connected
10.	Not connected
11.	Not connected
12.	Not connected
13.	Not connected
14.	Not connected
15.	Not connected

DVI-I Terminal : 29 pin connector



• DVI Digital Input

Pin No.	Signal
1.	T.M.D.S data 2-
2.	T.M.D.S data 2+
3.	T.M.D.S data 2 shield
4.	Not connected
5.	Not connected
6.	DDC clock
7.	DDC data
8.	Not connected
9.	T.M.D.S data 1-
10.	T.M.D.S data 1+
11.	T.M.D.S data 1 shield
12.	Not connected
13.	Not connected
14.	+5V power
15.	Ground

Pin No.	Signal
16.	Hot plug detection
17.	T.M.D.S data 0-
18.	T.M.D.S data 0+
19.	T.M.D.S data 0 shield
20.	Not connected
21.	Not connected
22.	T.M.D.S clock shield
23.	T.M.D.S clock+
24.	T.M.D.S clock-
C1.	Not connected
C2.	Not connected
C3.	Not connected
C4.	Not connected
C5.	Ground

• DVI Analog RGB Input

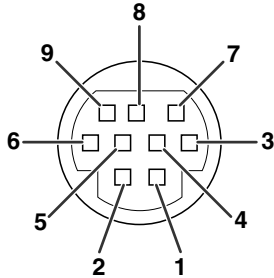
Pin No.	Signal	Pin No.	Signal
1.	Not connected	16.	Hot plug detection
2.	Not connected	17.	Not connected
3.	Not connected	18.	Not connected
4.	Not connected	19.	Not connected
5.	Not connected	20.	Not connected
6.	DDC clock	21.	Not connected
7.	DDC data	22.	Not connected
8.	Vertical sync	23.	Not connected
9.	Not connected	24.	Not connected
10.	Not connected	C1.	Analog input Red
11.	Not connected	C2.	Analog input Green (Sync On Green)
12.	Not connected	C3.	Analog input Blue
13.	Not connected	C4.	Horizontal sync (Composite Sync)
14.	+5V power	C5.	Ground
15.	Ground		

• DVI Analog Component Input

Pin No.	Signal	Pin No.	Signal
1.	Not connected	16.	Not connected
2.	Not connected	17.	Not connected
3.	Not connected	18.	Not connected
4.	Not connected	19.	Not connected
5.	Not connected	20.	Not connected
6.	Not connected	21.	Not connected
7.	Not connected	22.	Not connected
8.	Not connected	23.	Not connected
9.	Not connected	24.	Not connected
10.	Not connected	C1.	Analog input Pr/Cr
11.	Not connected	C2.	Analog input Y
12.	Not connected	C3.	Analog input Pb/Cb
13.	Not connected	C4.	Not connected
14.	Not connected	C5.	Ground
15.	Ground		

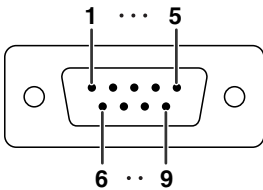
Connecting Pin Assignments

RS-232C Terminal : mini DIN 9 pin female connector



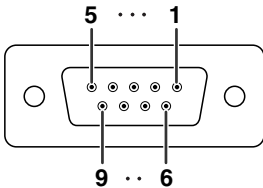
Pin No.	Signal	Name	I/O	Reference
1.				Not connected
2.	RD	Receive Data	Input	Connected to internal circuit
3.	SD	Send Data	Output	Connected to internal circuit
4.				Not connected
5.	SG	Signal Ground		Connected to internal circuit
6.				Not connected
7.	RS	Request to Send		Connected to CS in internal circuit
8.	CS	Clear to Send		Connected to RS in internal circuit
9.				Not connected

RS-232C Terminal : D-sub 9 pin male connector of the DIN-D-sub RS-232C adaptor



Pin No.	Signal	Name	I/O	Reference
1.				Not connected
2.	RD	Receive Data	Input	Connected to internal circuit
3.	SD	Send Data	Output	Connected to internal circuit
4.				Not connected
5.	SG	Signal Ground		Connected to internal circuit
6.				Not connected
7.	RS	Request to Send		Connected to CS in internal circuit
8.	CS	Clear to Send		Connected to RS in internal circuit
9.				Not connected

RS-232C Cable recommended connection : D-sub 9 pin female connector



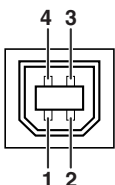
Pin No.	Signal		Pin No.	Signal
1.	CD		1.	CD
2.	RD		2.	RD
3.	SD		3.	SD
4.	ER		4.	ER
5.	SG		5.	SG
6.	DR		6.	DR
7.	RS		7.	RS
8.	CS		8.	CS
9.	CI		9.	CI

Note

- Depending on the controlling device used, it may be necessary to connect Pin 4 and Pin 6 on the controlling device (e.g. computer).

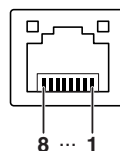


USB Terminal : Type B USB connector



Pin No.	Signal	Name
1.	VCC	USB power
2.	USB-	USB data-
3.	USB+	USB data+
4.	SG	Signal Ground

LAN Terminal : LAN (RJ-45)



Pin No.	Signal	Pin No.	Signal
1.	TX+	5.	
2.	TX-	6.	RX-
3.	RX+	7.	
4.		8.	

RS-232C Specifications and Commands

Computer control

A computer can be used to control the projector by connecting an RS-232C serial control cable (cross type, commercially available) to the projector. (See page 24 of the projector's operation manual for connection.)

Communication conditions

Set the serial port settings of the computer to match that of the table.

Signal format: Conforms to RS-232C standard.

Parity bit: None

Baud rate*: 9,600 bps / 115,200 bps

Stop bit: 1 bit

Data length: 8 bits

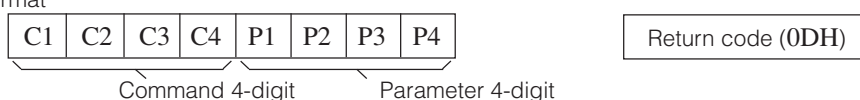
Flow control: None

*Set the projector's baud rate to the same rate as used by the computer.

Basic format

Commands from the computer are sent in the following order: command, parameter, and return code. After the projector processes the command from the computer, it sends a response code to the computer.

Command format



Response code format

Normal response



Problem response (communication error or incorrect command)



Info

- When controlling the projector using RS-232C commands from a computer, wait for at least 30 seconds after the power has been turned on, and then transmit the commands.
- After sending an input selection or picture adjustment command and then receiving an "OK" response code, the projector may take some time to process the command. If a second command is sent while the projector is still processing the first command, you may receive an "ERR" response code. If this happens, try resending the second command.
- When more than one code is being sent, send each command only after the response code for the previous command from the projector is verified.
- "POWR????", "TABN ___ 1", "TLPS ___ 1", "TPOW ___ 1", "TLPN ___ 1", "TLTT ___ 1", "TLTM ___ 1", "TLTL ___ 1", "TNAM ___ 1", "MNRD ___ 1", "PJNO ___ 1"
 - When the projector receives the special commands shown above:
 - * The on-screen display will not disappear.
 - * The "Auto Power Off" timer will not be reset.
 - The special commands are available for applications that require continuous polling.

Note

- If an underbar (_) appears in the parameter column, enter a space.
- If an asterisk (*) appears in the parameter column, enter a value in the range indicated in brackets under Control Contents.

PJLink™ Compliant:

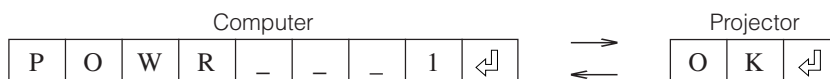
This product conforms with the PJLink standard Class 1 and all Class 1 commands are implemented.

This product confirms with the PJLink standard specification version 1.00.

For additional information, visit "<http://pjlink.jbmia.or.jp/english/>".

Commands

Example: When turning on the projector, make the following setting.



CONTROL CONTENTS			COMMAND		PARAMETER			RETURN	
								Power ON	Standby mode (or 30-second startup time)
Power	On		P	O	W	R	- - - 1	OK or ERR	OK
	Off		P	O	W	R	- - - 0	OK	OK or ERR
	Status		P	O	W	R	? ? ? ? 1		0
Projector Condition			T	A	B	N	- - - 1	0: Normal 1: Temp High 8: Lamp Life 5% or less 16: Lamp Burn-out 32: Lamp Ignition Failure	0: Normal 1: Temp High 2: Fan Error 4: Cover Open 8: Lamp Life 5% or less 16: Lamp Burn-out 32: Lamp Ignition Failure 64: Temp Abnormally High
Lamp	Status		T	L	P	S	- - - 1	0:Off, 1:On, 2:Retry 3:Waiting, 4:Lamp Error	0:Off, 4:Lamp Error
	Power Status		T	P	O	W	- - - 1	1:On, 2:Cooling	0:Standby
	Quantity		T	L	P	N	- - - 1	1	
	Usage Time(Hour)		T	L	T	T	- - - 1	0 - 9999(Integer)	
	Usage Time(Minute)		T	L	T	M	- - - 1	0, 15, 30, 45	
	Life(Percentage)		T	L	T	L	- - - 1	0% - 100%(Integer)	
Name	Model Name Check		T	N	A	M	- - - 1	PGF255W	
	Model Name Check		M	N	R	D	- - - 1	PG-F255W	
	Projector Name Setting 1 (First 4 characters) *1		P	J	N	1	* * * *	OK or ERR	
	Projector Name Setting 2 (Middle 4 characters) *1		P	J	N	2	* * * *	OK or ERR	
	Projector Name Setting 3 (Last 4 characters) *1		P	J	N	3	* * * *	OK or ERR	
	Projector Name Check		P	J	N	0	- - - 1	Projector Name	
Input Change	Computer		I	R	G	B	- - - 1	OK or ERR	ERR
	DVI		I	R	G	B	- - - 2	OK or ERR	ERR
	DVI-D-Computer select *2		I	B	D	S	- - - 1	OK or ERR	ERR
	DVI-D-Video select *2		I	B	D	S	- - - 2	OK or ERR	ERR
	DVI-Analog select *2		I	B	D	S	- - - 3	OK or ERR	ERR
	S-Video		I	V	E	D	- - - 1	OK or ERR	ERR
	Video		I	V	E	D	- - - 2	OK or ERR	ERR
	Input RGB Check		I	R	G	B	? ? ? ? 1	1: Computer, 2: DVI or ERR	ERR
	Input Video Check		I	V	E	D	? ? ? ? 1	1: S-Video, 2: Video or ERR	ERR
	Input Mode Check		I	M	O	D	? ? ? ? 1	1: RGB, 2: Video	ERR
	Input Check		I	C	H	K	? ? ? ? 1	1: Computer 2: DVI 3: S-Video 4: Video	ERR
Volume	Volume(0 - 60)		V	O	L	A	- - * *	OK or ERR	ERR
	Volume up/down(-10 - +10)		V	O	U	D	- * * *	OK or ERR	ERR
Keystone	-80 - +80		K	E	Y	S	* * * *	OK or ERR	ERR
AV Mute	On		I	M	B	K	- - - 1	OK or ERR	ERR
	Off		I	M	B	K	- - - 0	OK or ERR	ERR
Freeze	On		F	R	E	Z	- - - 1	OK or ERR	ERR
	Off		F	R	E	Z	- - - 0	OK or ERR	ERR
Auto Sync	Start		A	D	J	S	- - - 1	OK or ERR	ERR
Resize	Computer	Normal	R	A	S	R	- - - 1	OK or ERR	ERR
		Stretch	R	A	S	R	- - - 2	OK or ERR	ERR
		Dot By Dot	R	A	S	R	- - - 3	OK or ERR	ERR
		Full	R	A	S	R	- - - 5	OK or ERR	ERR
		Area Zoom	R	A	S	R	- - 1 0	OK or ERR	ERR
		V-Stretch	R	A	S	R	- - 1 1	OK or ERR	ERR
	DVI	Normal	R	B	S	R	- - - 1	OK or ERR	ERR
		Stretch	R	B	S	R	- - - 2	OK or ERR	ERR
		Dot By Dot	R	B	S	R	- - - 3	OK or ERR	ERR
		Full	R	B	S	R	- - - 5	OK or ERR	ERR
		Area Zoom	R	B	S	R	- - 1 0	OK or ERR	ERR
		V-Stretch	R	B	S	R	- - 1 1	OK or ERR	ERR

RS-232C Specifications and Commands

CONTROL CONTENTS			COMMAND	PARAMETER	RETURN	
					Power ON	Standby mode (or 30-second startup time)
Resize	S-Video	Normal	R A S V	- - - 1	OK or ERR	ERR
		Stretch	R A S V	- - - 2	OK or ERR	ERR
		Area Zoom	R A S V	- - 1 0	OK or ERR	ERR
		V-Stretch	R A S V	- - 1 1	OK or ERR	ERR
	Video	Normal	R B S V	- - - 1	OK or ERR	ERR
		Stretch	R B S V	- - - 2	OK or ERR	ERR
		Area Zoom	R B S V	- - 1 0	OK or ERR	ERR
		V-Stretch	R B S V	- - 1 1	OK or ERR	ERR
ALL Reset			A L R E	- - - 1	OK or ERR	ERR
Computer INPUT	Picture Mode	Standard	R A P S	- - 1 0	OK or ERR	ERR
		Presentation	R A P S	- - 1 1	OK or ERR	ERR
		Movie	R A P S	- - 1 2	OK or ERR	ERR
		Game	R A P S	- - 1 3	OK or ERR	ERR
		sRGB	R A P S	- - 1 4	OK or ERR	ERR
	Contrast	-30 ~ +30	R A P I	- * * *	OK or ERR	ERR
	Bright	-30 ~ +30	R A B R	- * * *	OK or ERR	ERR
	Red	-30 ~ +30	R A R D	- * * *	OK or ERR	ERR
	Blue	-30 ~ +30	R A B E	- * * *	OK or ERR	ERR
	Color	-30 ~ +30	R A C O	- * * *	OK or ERR	ERR
	Tint	-30 ~ +30	R A T I	- * * *	OK or ERR	ERR
	Sharp	-30 ~ +30	R A S H	- * * *	OK or ERR	ERR
	CLR Temp	-1 ~ +1	R A C T	- - * *	OK or ERR	ERR
	BrilliantColor™	0 ~ +2	R A W E	- - - *	OK or ERR	ERR
	Progressive	2D Progressive	R A I P	- - - 0	OK or ERR	ERR
		3D Progressive	R A I P	- - - 1	OK or ERR	ERR
		Film Mode	R A I P	- - - 2	OK or ERR	ERR
	DNR	Off	R A N R	- - - 0	OK or ERR	ERR
		Level 1	R A N R	- - - 1	OK or ERR	ERR
		Level 2	R A N R	- - - 2	OK or ERR	ERR
	Picture Reset		R A R E	- - - 1	OK or ERR	ERR
	Signal Type	Auto	I A S I	- - - 0	OK or ERR	ERR
		RGB	I A S I	- - - 1	OK or ERR	ERR
		Component	I A S I	- - - 2	OK or ERR	ERR
		Audio Input	Audio 1	R A A I	- - - 1	OK or ERR
	Audio 2		R A A I	- - - 2	OK or ERR	ERR
DVI INPUT	Picture Mode	Standard	R B P S	- - 1 0	OK or ERR	ERR
		Presentation	R B P S	- - 1 1	OK or ERR	ERR
		Movie	R B P S	- - 1 2	OK or ERR	ERR
		Game	R B P S	- - 1 3	OK or ERR	ERR
		sRGB	R B P S	- - 1 4	OK or ERR	ERR
	Contrast	-30 ~ +30	R B P I	- * * *	OK or ERR	ERR
	Bright	-30 ~ +30	R B B R	- * * *	OK or ERR	ERR
	Red	-30 ~ +30	R B R D	- * * *	OK or ERR	ERR
	Blue	-30 ~ +30	R B B E	- * * *	OK or ERR	ERR
	Color	-30 ~ +30	R B C O	- * * *	OK or ERR	ERR
	Tint	-30 ~ +30	R B T I	- * * *	OK or ERR	ERR
	Sharp	-30 ~ +30	R B S H	- * * *	OK or ERR	ERR
	CLR Temp	-1 ~ +1	R B C T	- - * *	OK or ERR	ERR
	BrilliantColor™	0 ~ +2	R B W E	- - - *	OK or ERR	ERR
	Progressive	2D Progressive	R B I P	- - - 0	OK or ERR	ERR
		3D Progressive	R B I P	- - - 1	OK or ERR	ERR
		Film Mode	R B I P	- - - 2	OK or ERR	ERR
	DNR	Off	R B N R	- - - 0	OK or ERR	ERR
		Level 1	R B N R	- - - 1	OK or ERR	ERR
		Level 2	R B N R	- - - 2	OK or ERR	ERR
	Picture Reset		R B R E	- - - 1	OK or ERR	ERR
	Signal Type	Auto	I B S I	- - - 0	OK or ERR	ERR
		RGB	I B S I	- - - 1	OK or ERR	ERR
		Component	I B S I	- - - 2	OK or ERR	ERR
	Audio Input	Audio 1	R B A I	- - - 1	OK or ERR	ERR
		Audio 2	R B A I	- - - 2	OK or ERR	ERR
	Dynamic Range	Auto	H M B D	- - - 0	OK or ERR	ERR
		Standard	H M B D	- - - 1	OK or ERR	ERR
		Enhanced	H M B D	- - - 2	OK or ERR	ERR

RS-232C Specifications and Commands

CONTROL CONTENTS			COMMAND	PARAMETER	RETURN	
					Power ON	Standby mode (or 30-second startup time)
S-Video INPUT	Picture Mode	Standard	V A P S	- - 1 0	OK or ERR	ERR
		Presentation	V A P S	- - 1 1	OK or ERR	ERR
		Movie	V A P S	- - 1 2	OK or ERR	ERR
		Game	V A P S	- - 1 3	OK or ERR	ERR
	Contrast	-30 ~ +30	V A P I	- * * *	OK or ERR	ERR
	Bright	-30 ~ +30	V A B R	- * * *	OK or ERR	ERR
	Red	-30 ~ +30	V A R D	- * * *	OK or ERR	ERR
	Blue	-30 ~ +30	V A B E	- * * *	OK or ERR	ERR
	Color	-30 ~ +30	V A C O	- * * *	OK or ERR	ERR
	Tint	-30 ~ +30	V A T I	- * * *	OK or ERR	ERR
	Sharp	-30 ~ +30	V A S H	- * * *	OK or ERR	ERR
	CLR Temp	-1 ~ +1	V A C T	- * * *	OK or ERR	ERR
	BrilliantColor™	0 ~ +2	V A W E	- - *	OK or ERR	ERR
	Progressive	2D Progressive	V A I P	- - 0	OK or ERR	ERR
		3D Progressive	V A I P	- - 1	OK or ERR	ERR
		Film Mode	V A I P	- - 2	OK or ERR	ERR
	DNR	Off	V A N R	- - 0	OK or ERR	ERR
		Level 1	V A N R	- - 1	OK or ERR	ERR
		Level 2	V A N R	- - 2	OK or ERR	ERR
	Picture Reset		V A R E	- - 1	OK or ERR	ERR
	Audio Input	Audio 1	V A A I	- - 1	OK or ERR	ERR
		Audio 2	V A A I	- - 2	OK or ERR	ERR
Video INPUT	Picture Mode	Standard	V B P S	- - 1 0	OK or ERR	ERR
		Presentation	V B P S	- - 1 1	OK or ERR	ERR
		Movie	V B P S	- - 1 2	OK or ERR	ERR
		Game	V B P S	- - 1 3	OK or ERR	ERR
	Contrast	-30 ~ +30	V B P I	- * * *	OK or ERR	ERR
	Bright	-30 ~ +30	V B B R	- * * *	OK or ERR	ERR
	Red	-30 ~ +30	V B R D	- * * *	OK or ERR	ERR
	Blue	-30 ~ +30	V B B E	- * * *	OK or ERR	ERR
	Color	-30 ~ +30	V B C O	- * * *	OK or ERR	ERR
	Tint	-30 ~ +30	V B T I	- * * *	OK or ERR	ERR
	Sharp	-30 ~ +30	V B S H	- * * *	OK or ERR	ERR
	CLR Temp	-1 ~ +1	V B C T	- * * *	OK or ERR	ERR
	BrilliantColor™	0 ~ +2	V B W E	- - *	OK or ERR	ERR
	Progressive	2D Progressive	V B I P	- - 0	OK or ERR	ERR
		3D Progressive	V B I P	- - 1	OK or ERR	ERR
		Film Mode	V B I P	- - 2	OK or ERR	ERR
	DNR	Off	V B N R	- - 0	OK or ERR	ERR
		Level 1	V B N R	- - 1	OK or ERR	ERR
		Level 2	V B N R	- - 2	OK or ERR	ERR
	Picture Reset		V B R E	- - 1	OK or ERR	ERR
	Audio Input	Audio 1	V B A I	- - 1	OK or ERR	ERR
		Audio 2	V B A I	- - 2	OK or ERR	ERR
C.M.S. Setting	On	C M C S	- - 1 1	OK or ERR	ERR	
	Off	C M C S	- - 0 0	OK or ERR	ERR	
C.M.S.	Hue	Red	C M H R	- * * *	OK or ERR	ERR
		Yellow	C M H Y	- * * *	OK or ERR	ERR
		Green	C M H G	- * * *	OK or ERR	ERR
		Cyan	C M H C	- * * *	OK or ERR	ERR
		Blue	C M H B	- * * *	OK or ERR	ERR
		Magenta	C M H M	- * * *	OK or ERR	ERR
		Reset	C M R E	- - 2	OK or ERR	ERR
	Saturation	Red	C M S R	- * * *	OK or ERR	ERR
		Yellow	C M S Y	- * * *	OK or ERR	ERR
		Green	C M S G	- * * *	OK or ERR	ERR
		Cyan	C M S C	- * * *	OK or ERR	ERR
		Blue	C M S B	- * * *	OK or ERR	ERR
		Magenta	C M S M	- * * *	OK or ERR	ERR
		Reset	C M R E	- - 3	OK or ERR	ERR
	Value	Red	C M V R	- * * *	OK or ERR	ERR
		Yellow	C M V Y	- * * *	OK or ERR	ERR
		Green	C M V G	- * * *	OK or ERR	ERR
		Cyan	C M V C	- * * *	OK or ERR	ERR
		Blue	C M V B	- * * *	OK or ERR	ERR
		Magenta	C M V M	- * * *	OK or ERR	ERR
		Reset	C M R E	- - 4	OK or ERR	ERR
	C.M.S. All Reset		C M R E	- - 1	OK or ERR	ERR
Clock	-150 ~ +150	I N C L	- * * *	OK or ERR	ERR	
Phase	-30 ~ +30	I N P H	- * * *	OK or ERR	ERR	
H-position	-150 ~ +150	I A H P	- * * *	OK or ERR	ERR	
V-position	-60 ~ +60	I A V P	- * * *	OK or ERR	ERR	
Fine Sync Adjustment Reset		I A R E	- - 1	OK or ERR	ERR	

RS-232C Specifications and Commands

CONTROL CONTENTS			COMMAND	PARAMETER	RETURN	
					Power ON	Standby mode (or 30-second startup time)
Image Shift	-40 ~ +40		L N D S	- * * *	OK or ERR	ERR
OSD Display	On		I M D I	- - - 1	OK or ERR	ERR
	Off		I M D I	- - - 0	OK or ERR	ERR
Video System	Auto		M E S Y	- - - 1	OK or ERR	ERR
	PAL		M E S Y	- - - 2	OK or ERR	ERR
	SECAM		M E S Y	- - - 3	OK or ERR	ERR
	NTSC4.43		M E S Y	- - - 4	OK or ERR	ERR
	NTSC3.58		M E S Y	- - - 5	OK or ERR	ERR
	PAL-M		M E S Y	- - - 6	OK or ERR	ERR
	PAL-N		M E S Y	- - - 7	OK or ERR	ERR
	PAL-60		M E S Y	- - - 8	OK or ERR	ERR
Background	Logo		I M B G	- - - 1	OK or ERR	ERR
	Blue		I M B G	- - - 3	OK or ERR	ERR
	None		I M B G	- - - 4	OK or ERR	ERR
Lamp Setting	Bright		T H M D	- - - 0	OK or ERR	ERR
	Eco + Quiet		T H M D	- - - 1	OK or ERR	ERR
Auto Sync	On		A A D J	- - - 1	OK or ERR	ERR
	Off		A A D J	- - - 0	OK or ERR	ERR
Auto Power Off	On		A P O W	- - - 1	OK or ERR	ERR
	Off		A P O W	- - - 0	OK or ERR	ERR
Auto Restart	On		A R E S	- - - 1	OK or ERR	ERR
	Off		A R E S	- - - 0	OK or ERR	ERR
STANDBY Mode	Standard		M O U T	- - - 1	OK or ERR	ERR
	Eco		M O U T	- - - 0	OK or ERR	ERR
PRJ Mode	Reverse	On	I M R E	- - - 1	OK or ERR	ERR
		Off	I M R E	- - - 0	OK or ERR	ERR
	Invert	On	I M I N	- - - 1	OK or ERR	ERR
		Off	I M I N	- - - 0	OK or ERR	ERR
Language	English		M E L A	- - - 1	OK or ERR	ERR
	Deutsch		M E L A	- - - 2	OK or ERR	ERR
	Español		M E L A	- - - 3	OK or ERR	ERR
	Nederlands		M E L A	- - - 4	OK or ERR	ERR
	Français		M E L A	- - - 5	OK or ERR	ERR
	Italiano		M E L A	- - - 6	OK or ERR	ERR
	Svenska		M E L A	- - - 7	OK or ERR	ERR
	日本語		M E L A	- - - 8	OK or ERR	ERR
	Português		M E L A	- - - 9	OK or ERR	ERR
	汉语		M E L A	- - - 10	OK or ERR	ERR
	한국어		M E L A	- - - 11	OK or ERR	ERR
	Русский		M E L A	- - - 12	OK or ERR	ERR
	عربي		M E L A	- - - 13	OK or ERR	ERR
	polski		M E L A	- - - 14	OK or ERR	ERR
	Türkçe		M E L A	- - - 15	OK or ERR	ERR
	فارسی		M E L A	- - - 16	OK or ERR	ERR
	Magyer		M E L A	- - - 17	OK or ERR	ERR
Setup Guide	On		S E G U	- - - 1	OK or ERR	ERR
	Off		S E G U	- - - 0	OK or ERR	ERR
System Sound	On		S S N D	- - - 1	OK or ERR	ERR
	Off		S S N D	- - - 0	OK or ERR	ERR
Internal Speaker	On		A S P K	- - - 1	OK or ERR	ERR
	Off		A S P K	- - - 0	OK or ERR	ERR
RGB Frequency Check	Horizontal		T F R Q	- - - 1	kHz(***.* or ERR)	ERR
	Vertical		T F R Q	- - - 2	Hz(***.* or ERR)	ERR
Fan Mode	Normal		H L M D	- - - 0	OK or ERR	ERR
	High		H L M D	- - - 1	OK or ERR	ERR
Lamp Timer Reset *3			L P R E	0 0 0 1	ERR	OK or ERR

*1 For setting the projector name, send the commands in the order of PJN1, PJN2 and PJN3.

*2 This command should be sent only after the “IRGB ___ 2” command is sent and an “OK” response code is received.

*3 The Lamp Timer Reset command is available only in standby mode.

Setting up the Projector Network Environment

This section describes the basic procedure for using the projector via the network.

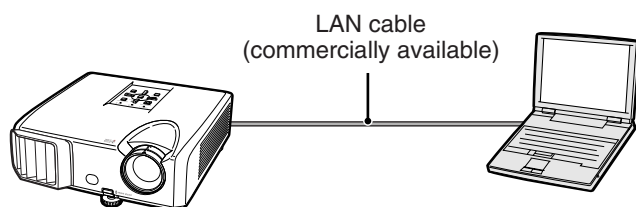
If the network is already constructed, the projector's network settings may need to be changed. Please consult your network administrator for assistance with these settings.

You can make network settings both on the projector and on the computer. The following procedure is for making settings on the computer.

Network settings on the computer

1. Connecting the projector to a computer

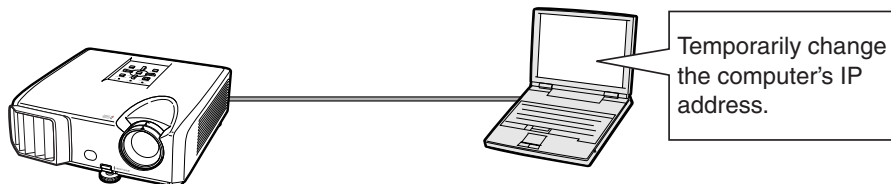
Connect a LAN cable (Category 5, cross-over type) between the computer and projector.



➡ Page 10

2. Setting an IP address for the computer

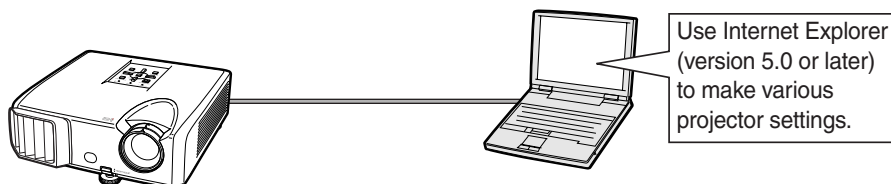
Adjust the IP settings of the computer to enable one-to-one communications with the projector.



➡ Pages 11, 12

3. Setting up a network connection for the projector

Adjust the projector network settings to conform to your network.



➡ Page 13

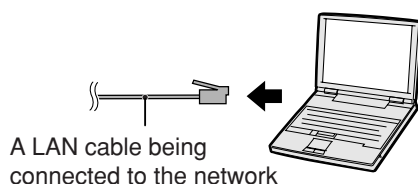
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Setting up the Projector Network Environment

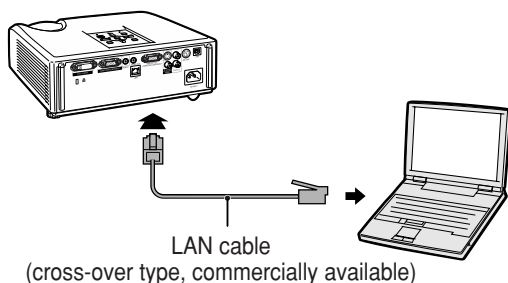
1. Connecting the Projector to a Computer

Establishing a one-to-one connection from the projector to a computer. Using a commercially available LAN cable (UTP cable, Category 5, cross-over type) you can configure the projector via the computer.

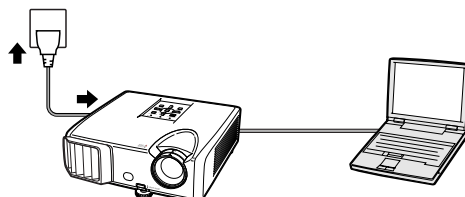
- 1 Disconnect the computer's LAN cable from the existing network.



- 2 Connect a commercially available LAN cable (UTP cable, Category 5, cross-over type) to the projector's LAN terminal and connect the other end of the cable to the computer's LAN terminal.



- 3 Plug the power cord into the AC socket of the projector.



- 4 Turn on the computer.



Info

Confirm that the LINK LED on the rear of the projector illuminates. If the LINK LED does not illuminate, check the following :

- The LAN cable is properly connected.
- The power switches of both the projector and the computer are on.

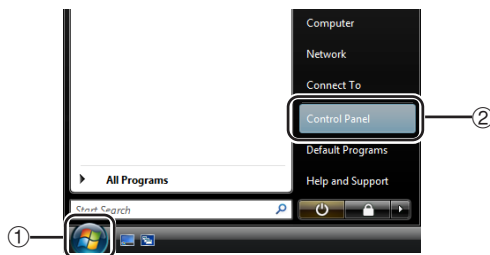
This completes the connection. Now proceed to “2. Setting an IP Address for the Computer”.

2. Setting an IP Address for the Computer

The following describes how to make settings in Windows Vista®.

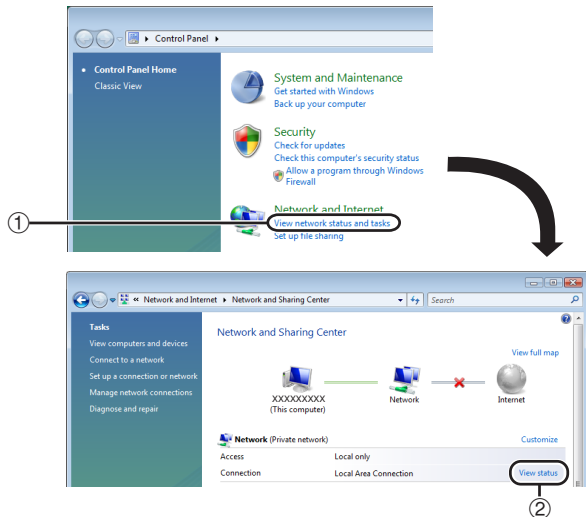
1 Log on the network using the administrator's account for the computer.

2 Click "start", and click "Control Panel".



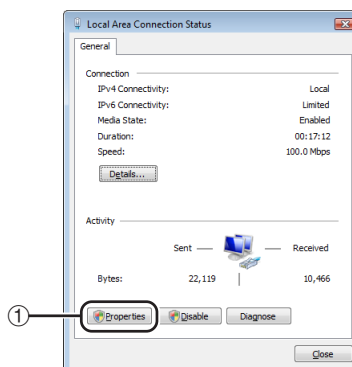
3 Click "View network status and tasks" of "Network and Internet", and click "View status" in the new window.

- This manual uses examples to explain the operations in Category View. If you are using Classic View, double-click "Network and Sharing Center".



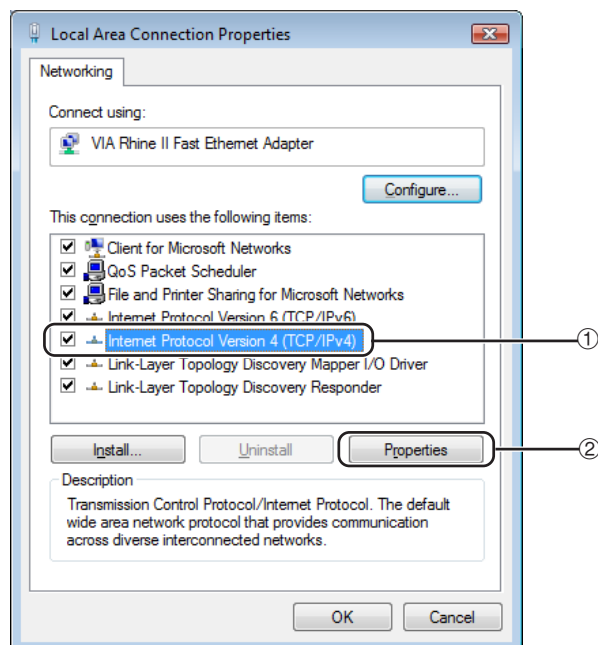
4 Click "Properties".

- When the user account control display is displayed, Click "Continue".



Setting up the Projector Network Environment

- 5** Click “Internet Protocol Version 4 (TCP/IPv4)”, and click the “Properties” button.



- 6** Confirm or change an IP address for the setup computer.

- ① Confirm and note the current IP address, Subnet mask and Default gateway.

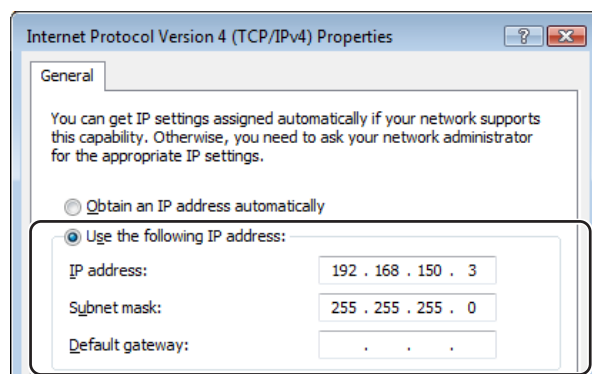
Make sure to note the current IP address, Subnet mask and Default gateway as you will be required to reset them later.

- ② Set temporarily as follows :

IP address : 192.168.150.3

Subnet mask : 255.255.255.0

Default gateway : (Do not input any values.)



Note

- The factory default settings for the projector are as follows:
DHCP Client : OFF
IP address : 192.168.150.2
Subnet mask : 255.255.255.0
Default gateway : 0.0.0.0

- 7** After setting, click the “OK” button, and then restart the computer.

After confirming or setting, proceed to “3. Setting up Network Connection for the Projector”.

3. Setting up a Network Connection for the Projector

Settings for such items as the projector's IP address and subnet mask are compatible with the existing network.

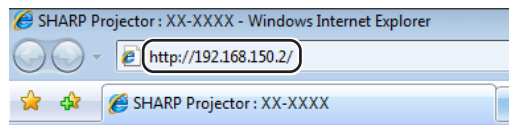
Set each item on the projector as follows. (See page 50 of the projector's operation manual for setting.)

DHCP Client : Off

IP Address : 192.168.150.002

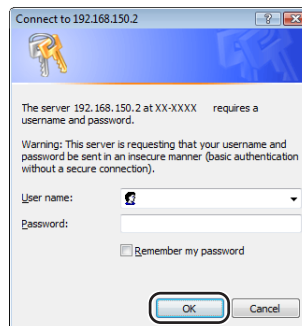
Subnet Mask : 255.255.255.000

1 Start Internet Explorer (version 5.0 or later) on the computer, and enter "http://192.168.150.2/" in "Address", and then press the "Enter" key.

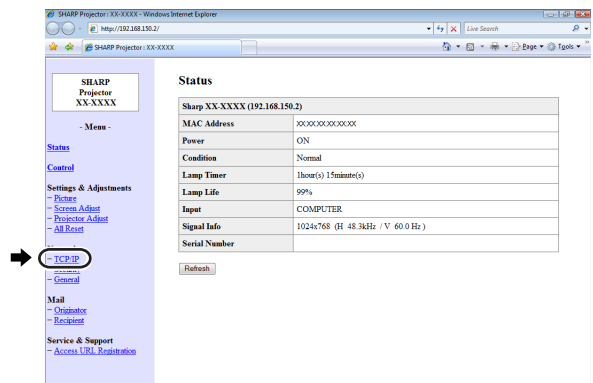


2 If a user name and a password have not yet been set, just click the "OK" button.

- If a user name and a password have been set, input the user name and the password, and click the "OK" button.
- If the user name or password is entered incorrectly three times, an error message will be displayed.
- When you are using Internet Explorer 7, other setup screen may be displayed. In this case, make the proper adjustments for the setup screen.



3 When the screen as shown on the right appears, click "TCP/IP".



Setting up the Projector Network Environment

4 The TCP/IP setting screen appears, ready for network settings for the projector.

Items	Setting example / Remarks
New Password	You can set the password to protect the TCP/IP setting.
DHCP Client	Select "ON" or "OFF" to determine whether to use DHCP Client.
IP Address	You can set this item when "DHCP Client" is set to "OFF". Factory default setting: 192.168.150.2 Enter an IP address appropriate for the network.
Subnet Mask	You can set this item when "DHCP Client" is set to "OFF". Factory default setting: 255.255.255.0 Set the subnet mask to the same as that of the computer and equipment on the network.
Default Gateway	You can set this item when "DHCP Client" is set to "OFF". Factory default setting: 0.0.0.0 * When not in use, set to "0.0.0.0".
DNS Server	Factory default setting: 0.0.0.0 * When not in use, set to "0.0.0.0".

Note

- Confirm the existing network's segment (IP address group) to avoid setting an IP address that duplicates the IP addresses of other network equipment or computers. If "192.168.150.2" is not used in the network having an IP address of "192.168.150.XXX", you don't have to change the projector IP address.
- For details about each setting, consult your network administrator.

5 Click the "Apply" button.

6 The set values appear. Confirm that the values are set properly, and then click the "Confirm" button.

- Close the browser.
- This completes the network settings.
- After setting items, wait for about 15 seconds and then re-access.
- Change the IP address of the setting computer back to its original address, which you have noted down in Step 6-① on page 12, and then connect the computer and the projector to the network.

Network - TCP/IP

New Password	
	(4 digits)
Reconfirm	

This password is for protection of the TCP/IP setting.

DHCP Client	☒ OFF ☐ ON
IP Address	192 168 150 2
Subnet Mask	255 255 255 0
Default Gateway	0 0 0 0 * "0.0.0.0" means "Using no default gateway."
DNS Server	0 0 0 0 * "0.0.0.0" means "Using no DNS server."

Network - TCP/IP

New Password	
	(4 digits)
Reconfirm	

This password is for protection of the TCP/IP setting.

DHCP Client	☒ OFF ☐ ON
IP Address	192 168 150 2
Subnet Mask	255 255 255 0
Default Gateway	0 0 0 0 * "0.0.0.0" means "Using no default gateway."
DNS Server	0 0 0 0 * "0.0.0.0" means "Using no DNS server."

→

Network - TCP/IP

The TCP/IP settings will be changed as below.

DHCP Client : OFF
IP Address : 192.168.150.2
Subnet Mask : 255.255.255.0
Default Gateway : 0.0.0.0
DNS Server : 0.0.0.0

Do you want to change the TCP/IP settings?

→

After you click "Confirm", if you want to continue to operate this projector via the network, please wait for about 15 seconds and then re-access to "192.168.150.2".

Controlling the Projector via LAN

After connecting the projector to your network, enter the projector IP address in “Address” on Internet Explorer (version 5.0 or later) using a computer on the network to start a setup screen that will enable control of the projector via the network.

Controlling the Projector Using Internet Explorer (Version 5.0 or later)

Complete connections to external equipment before starting the operation. (See pages 21-25 of the projector’s operation manual.)
Complete the AC cord connection. (See page 25 of the projector’s operation manual.)

Note

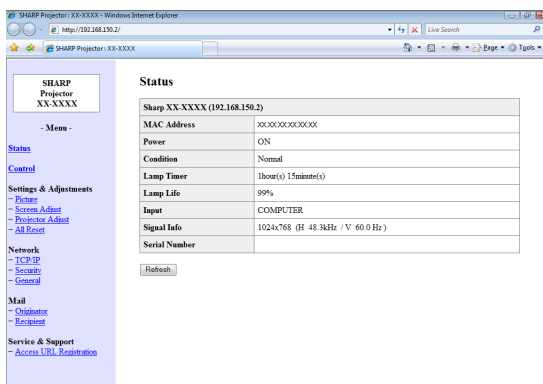
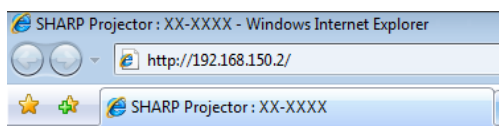
- When connecting the projector to the LAN, use a commercially available LAN cable (UTP cable, Category 5, cross-over type). When connecting the projector to a hub, use a straight-through cable.

1 Start Internet Explorer (version 5.0 or later) on the computer.

2 Enter “http://” followed by the projector IP address set by the procedure on page 14 followed by “/” in “Address”, and then press the “Enter” key.

- When “DHCP Client” is set to “OFF” on the projector, IP address is 192.168.150.2. If you did not change the IP address in “3. Setting up a Network Connection for the Projector” (pages 13-14), enter “http://192.168.150.2”.

3 A screen for controlling the projector appears, ready for performing various status conditions, control, and settings.



Confirming the Projector Status (Status)

Status

Sharp XX-XXXX (192.168.150.2)	
MAC Address	XXXXXXXXXX
Power	ON
Condition	Normal
Lamp Timer	1hour(s) 15minute(s)
Lamp Life	99%
Input	COMPUTER
Signal Info	1024x768 (H 48.3kHz / V 60.0 Hz)
Serial Number	

Refresh

On this screen, you can confirm the projector status. You can confirm the following items :

- MAC Address
- Power
- Condition
- Lamp Timer
- Lamp Life
- Input
- Signal Info
- Serial Number

Note

- If you click the “Refresh” button before the screen is displayed completely, an error message (“Server Busy Error”) will be displayed. Wait for a moment and then operate again.
- For details about each item, refer to the projector’s operation manual.

Controlling the Projector (Control)

Control

Power	☐ STANDBY ☒ ON
Input Select	COMPUTER
Volume	1
AV Mute	☒ OFF ☐ ON

Refresh

On this screen, you can perform projector control. You can control the following items :

- Power
- Input Select
- Volume
- AV Mute

Note

- If you click the “Refresh” button before the screen is displayed completely, an error message (“Server Busy Error”) will be displayed. Wait for a moment and then operate again.
- You cannot operate this page while the projector is warming up.
- While the projector is in standby mode, you can only control “Power ON”.
- For details about each item, refer to the projector’s operation manual.

Setting and Adjusting the Projector (Settings & Adjustments)

Example: "Picture" screen display for COMPUTER
Settings & Adjustments -Picture COMPUTER

Picture Mode	Presentation ▾
CLR Temp	0 ▾
BrilliantColor™	2 ▾
Lamp Setting	Bright ▾

Reset

Signal Type	Auto ▾
-------------	--------

Refresh

On these screens, you can make projector settings or adjustments. You can set or adjust the following items :

- Picture Mode
- CLR Temp
- BrilliantColor™
- Progressive
- DNR
- Lamp Setting
- Resolution Setting
- Signal Type
- Video System
- Dynamic Range
- Resize
- OSD Display
- Background
- Setup Guide
- Projection Mode
- OSD Language
- Auto Sync
- Auto Power Off
- Auto Restart
- System Sound
- Internal Speaker
- Audio Input
- RS-232C Speed
- Fan Mode
- All Reset

Note

- If you click the "Refresh" button before the screen is displayed completely, an error message ("Server Busy Error") will be displayed. Wait for a moment and then operate again.
- You cannot operate this page while the projector is warming up.
- For details about each item, refer to the projector's operation manual.

Setting the Security (Network - Security)

Network - Security

User Name	 (MAX 8 characters)
Password	 (MAX 8 characters)

This user name / password is for accessing via Web browser and Telnet.

*You will need to re-login with the new user name / new password after you change the user name / password.

Accept IP Address	☒ All IP Addresses
	☐ From only specific IP addresses
	Address 1
	Address 2
	Address 3

Apply

Refresh

On this screen, you can make settings relating to security.

Items	Description
User Name	Setting of user name for security protection.
Password	Setting of password for security protection.
Accept IP Address	It is possible to set up to three IP addresses allowing connection to the projector.
All IP Addresses	No limits are set to IP addresses connecting to the projector.
From only specific IP addresses	For security improvement, only an IP address set by "Address 1-3" can be connected to the projector.

Note

- User Name and Password can be up to 8 characters.
- You can input the characters below :
a-z, A-Z, 0-9, -, _

Controlling the Projector via LAN

Making General Settings for the Network (Network - General)

Network - General

Projector Name	XX-XXXX (MAX 12 characters)
Auto Logout Time	5 minute(s) (0-65535) * If the set value is made 0, the Auto Logout function is disabled.
Data Port	10002 (1025-65535)
Search Port	5006 (1025-65535)

Apply

Refresh

On this screen, you can make general settings relating to the network.

Items	Description
Projector Name	Setting the projector name.
Auto Logout Time	Setting the time interval in which the projector will be automatically disconnected from the network in units of a minute (from 1 to 65535 minutes). If the set value is made 0, the Auto Logout function is disabled.
Data Port	Setting the TCP port number used when exchanging data with the projector (from 1025 to 65535).
Search Port	Setting the port number used when searching for the projector (from 1025 to 65535).

After clicking the “Apply” button, the set values appear. Confirm that the values are set properly, and then click the “Confirm” button.

Note

- After setting items, wait for about 15 seconds and then re-access.
- Projector Name can be up to 12 characters.
- You can input the characters below :
A-Z, 0-9, -, _ , (,) , space
(When “a-z” are input, they are converted to “A-Z” automatically.)

Setting for Sending E-mail when an Error Occurs (Mail – Originator Settings)

Mail - Originator Settings

SMTP Server	 (MAX 64 characters)
Originator E-mail Address	 (MAX 64 characters)
Originator Name	 (MAX 64 characters)

Apply

Refresh

On this screen, you can make settings for sending e-mail to report when the projector has generated an error.

Items	Setting example / Remarks
SMTP Server	Setting an SMTP server address for e-mail transmission. e.g.1 : 192.168.150.253 e.g.2 : smtp123.sharp.co.jp * When using a domain name, make settings for the DNS server.
Originator E-mail Address	Setting the projector's e-mail address. The e-mail address set here becomes Originator E-mail Address.
Originator Name	Setting the sender's name. The name set here appears in the “Originator Name” column of the body of the message.

Note

- SMTP Server, Originator E-mail Address and Originator Name can be up to 64 characters.
- You can input the characters below:
SMTP Server and Originator E-mail Address :
a-z, A-Z, 0-9, !, #, \$, %, &, *, +, -, /, =, ?, ^, {, |, }, ~, _ , ' , , @, ` ,
(You can input “@” only one time for “Originator E-mail Address”.)
Originator Name : a-z, A-Z, 0-9, -, _ , (,) , space
- If the settings of “3. Setting up a Network Connection for the Projector” on pages 13 and 14 are incorrectly set, e-mail will not be send.

Setting Error Items and Destination Addresses to which E-mail is to be Sent when an Error Occurs (Mail – Recipient Settings)

Mail – Recipient Settings

Recipient Addresses	E-mail Address (MAX 64 characters)	Error Mail				Test
		Lamp	Temp	Fan	Cover	
1		☐	☐	☐	☐	Test
2		☐	☐	☐	☐	Test
3		☐	☐	☐	☐	Test
4		☐	☐	☐	☐	Test
5		☐	☐	☐	☐	Test

On this screen, you can input e-mail destinations to which error notification (error items) e-mails are sent.

Items	Description
E-mail Address	Set addresses to which error notification e-mail is sent. You can set up to five addresses.
Error Mail (Lamp, Temp, Fan, Cover)	Error e-mail is sent on the error items checked in their check boxes.
Test	Send test e-mail. This allows you to confirm that the settings for e-mail transmission are properly set.



Note

- E-mail Address can be up to 64 characters.
- You can input the characters below :
a-z, A-Z, 0-9, !, #, \$, %, &, *, +, -, /, =, ?, ^, {, |, }, ~, _ , ' , . , @ , ` (You can input "@" only one time.)
- For details about error items, refer to the projector's operation manual.

Setting Error Items and the URL that are to be Displayed when an Error Occurs (Service & Support – Access URL)

Service & Support – Access URL Registration

Access URL	(MAX 64 characters)	Condition				Test	
		Always	Lamp	Temp	Fan		Cover
1		☐	☐	☐	☐	☐	Test
2		☐	☐	☐	☐	☐	Test
3		☐	☐	☐	☐	☐	Test
4		☐	☐	☐	☐	☐	Test
5		☐	☐	☐	☐	☐	Test

On this screen, you can make settings of the URL and error items that are to be displayed when the projector has generated an error.

Items	Description
Access URL	Set the URL that is to be displayed when an error occurs. You can set up to five addresses.
Condition (Always, Lamp, Temp, Fan, Cover)	The URL is displayed when an error checked in their check boxes occurs.
Test	The set URL site is test-displayed. This allows you to confirm that the URL site is properly displayed.

Example of the display when an error occurs Status

Sharp XX-XXXX (192.168.150.2)	
MAC Address	XXXXXXXXXXXXXX
Power	STANDBY
Condition	The cooling fan is not operating.
	Access URL 1 http://www.sharp-world.com/projector/
Lamp Timer	1hour(s) 15minute(s)
Lamp Life	99%
Input	----
Signal Info	----
Serial Number	1234567

Setting up the Projector Using RS-232C or Telnet

Connect the projector to a computer using RS-232C or Telnet, and open the SETUP MENU on the computer to carry out various settings for the projector.

When Connecting Using RS-232C

1 Launch general purpose terminal emulator.

2 Input settings for the RS-232C port of the terminal emulator as follows.

Baud Rate : 9600 bps*
Data Length : 8 bit
Parity Bit : None
Stop Bit : 1 bit
Flow Control : None

* This is the factory default setting. If the value of Baud Rate for the projector has been changed, set Baud Rate here according to the changed value on the projector.

3 Input “PJS11234” and press the “Enter” key.

4 “OK” is displayed. Input “PJS25678” and press the “Enter” key within 10 seconds.

5 “User Name:” is displayed. Input the user name and press the “Enter” key.

• If a user name has not yet been set, just press the “Enter” key.

6 “Password:” is displayed. Input the password and press the “Enter” key.

• If a password has not yet been set, just press the “Enter” key.

7 Input “setup” and press the “Enter” key.

• SETUP MENU will be displayed.

▼SETUP MENU

```
-----SETUP MENU-----
[1]IP Address      [2]Subnet Mask    [3]Default Gateway
[4]User Name       [5>Password
[6]RS-232C Baud Rate [7]Projector Name  [8]DHCP Client
[A]Advanced Setup   [D]Disconnect All
[V]View All Setting [S]Save & Quit     [Q]Quit Unchanged

setup>
```

Note

- User name and password are not set in the factory default settings.
- If the user name or password is entered incorrectly three times, SETUP MENU will be quit.

When Connecting Using Telnet

1 Click “Start” from the Windows® desktop and select “Run”.

2 Enter “telnet 192.168.150.2” in the text box that opens up. (If the IP address of the projector is 192.168.150.2.)

3 Click the “OK” button.

4 “User Name:” is displayed. Input the user name and press the “Enter” key.

- If a user name has not yet been set, just press the “Enter” key.

5 “Password:” is displayed. Input the password and press the “Enter” key.

- If a password has not yet been set, just press the “Enter” key.

6 Input “setup” and press the “Enter” key.

- SETUP MENU will be displayed.

▼SETUP MENU

```
-----SETUP MENU-----
[1]IP Address      [2]Subnet Mask    [3]Default Gateway
[4]User Name       [5]Password
[6]RS-232C Baud Rate [7]Projector Name  [8]DHCP Client
[A]Advanced Setup  [D]Disconnect All
[V]View All Setting [S]Save & Quit     [Q]Quit Unchanged

setup>
```

Note

- If the IP address has been changed, be sure to enter the new IP address in step 2.
- User name and password are not set in the factory default settings.
- If the user name or password is entered incorrectly three times in steps 4 or 5, SETUP MENU will be quit.

Setting up the Projector Using RS-232C or Telnet

SETUP MENU (Main Menu)

▼ SETUP MENU

-----SETUP MENU-----		
[1]IP Address	[2]Subnet Mask	[3]Default Gateway
[4]User Name	[5>Password	
[6]RS-232C Baud Rate	[7]Projector Name	[8]DHCP Client
[A]Advanced Setup		[D]Disconnect All
[V]View All Setting	[S]Save & Quit	[Q]Quit Unchanged
setup>		

[1]IP Address

IP address settings. (Page 25)

[2]Subnet Mask

Subnet mask settings. (Page 25)

[3]Default Gateway

Default gateway settings. (Page 25)

[4]User Name (Factory default setting : Not Required)

Setting of user name for security protection. (Page 25)

[5>Password (Factory default setting : Not Required)

Setting of password for security protection. (Page 26)

[6]RS-232C Baud Rate (Factory default setting : 9600 bps)

Baud rate settings for the RS-232C terminals. (Page 26)

[7]Projector Name

It is possible to assign a projector name. (Page 26)

[8]DHCP Client

DHCP Client settings. (Page 26)

[A]Advanced Setup

Enters ADVANCED SETUP MENU. (Page 27)

[D]Disconnect All

Disconnect all connections. (Page 27)

[V]View All Setting

Displays all setting values. (Page 23)

Can also be used with ADVANCED SETUP MENU.

[S]Save & Quit

Save set values and quit menu. (Page 24)

[Q]Quit Unchanged

Quit menu without saving setting values. (Page 24)



Note

- When “DHCP Client” is set to “OFF” on the projector:
IP address : 192.168.150.2
Subnet mask : 255.255.255.0
Default gateway : 0.0.0.0

ADVANCED SETUP MENU

▼ ADVANCED SETUP MENU

***** ADVANCED SETUP MENU *****		
[1]Auto Logout Time	[2]Data Port	
[5]Network Ping Test		
[6]Accept IP Addr(1)	[7]Accept IP Addr(2)	[8]Accept IP Addr(3)
[9]Accept All IP Addr	[0]Search Port	
[!]Restore Default Setting		
[Q]Return to Main Menu		
advanced>		

[1]Auto Logout Time (Factory default setting : 5 minutes)

Setting of time until automatic disconnection of network connection. (Page 27)

[2]Data Port (Factory default setting : 10002)

Setting the TCP port number used when exchanging data. (Page 27)

[5]Network Ping Test

It is possible to confirm that a network connection between the projector and a computer etc. is working normally. (Page 28)

[6]Accept IP Addr(1)

[7]Accept IP Addr(2)

[8]Accept IP Addr(3)

[9]Accept All IP Addr (Factory default setting : Accept All)

For improved security, it is possible to set up to three IP addresses allowing connection to the projector. Set IP addresses can be cancelled using [9] Accept All IP Addr. (Page 28)

[0] Search Port (Factory default setting : 5006)

Setting the port number used when searching for the projector. (Page 29)

[!] Restore Default Setting

Restores all setting values that can be set using the menu to the default state. (Page 29)

[Q]Return to Main Menu

Return to the main SETUP MENU. (Page 29)

Setting up the Projector Using RS-232C or Telnet

Enter number or symbol of item to be selected on the **SETUP MENU**. When setting, input the details to be set. Setting is carried out one item at a time, and saved at the end.

View Setting Detail List ([V]View All Setting)

▼SETUP MENU

```
-----SETUP MENU-----
[1]IP Address      [2]Subnet Mask  [3]Default Gateway
[4]User Name       [5]Password   [6]RS-232C Baud Rate
[7]Projector Name  [8]DHCP Client
[A]Advanced Setup  [D]Disconnect All
[V]View All Setting [S]Save & Quit   [Q]Quit Unchanged

setup>v
Model Name       : XX-XXXX
Projector Name   : XX-XXXX
MAC Address      : XX:XX:XX:XX:XX:XX
DHCP Client      : Disable
IP Address       : 192.168.150.2
Subnet Mask      : 255.255.255.0
Default Gateway  : Not Used
RS-232 Baud Rate : 9600 bps
Password         : Not Required
***** (Advanced Status) *****
Data Port        : 10002
Accept IP Address : Accept All
Auto Logout Time : 5 minutes
Search Port      : 5006
```

- ① Enter “v” and press the “Enter” key.
Display all setting values(*).

Set Items

Example: When setting IP Address (change from 192.168.150.2 to 192.168.150.3)

▼SETUP MENU

```
-----SETUP MENU-----
[1]IP Address      [2]Subnet Mask  [3]Default Gateway
[4]User Name       [5]Password   [6]RS-232C Baud Rate
[7]Projector Name  [8]DHCP Client
[A]Advanced Setup  [D]Disconnect All
[V]View All Setting [S]Save & Quit   [Q]Quit Unchanged

setup>1
IP Address       : 192.168.150.2
Please Enter     : 192.168.150.3
(change)  -> 192.168.150.3

-----SETUP MENU-----
[1]IP Address      [2]Subnet Mask  [3]Default Gateway
[4]User Name       [5]Password   [6]RS-232C Baud Rate
[7]Projector Name  [8]DHCP Client
[A]Advanced Setup  [D]Disconnect All
[V]View All Setting [S]Save & Quit   [Q]Quit Unchanged

setup>v
Model Name       : XX-XXXX
Projector Name   : XX-XXXX
MAC Address      : XX:XX:XX:XX:XX:XX
DHCP Client      : Disable
IP Address       : 192.168.150.3
Subnet Mask      : 255.255.255.0
Default Gateway  : Not Used
RS-232 Baud Rate : 9600 bps
Password         : Not Required
***** (Advanced Status) *****
Data Port        : 10002
Accept IP Address : Accept All
Auto Logout Time : 5 minutes
Search Port      : 5006
```

- ① Enter “1” (number of item to be set), and press the “Enter” key.
Display current IP address (*1).
- ② Enter IP address to be set and press the “Enter” key.
Display IP address after change (*2).
- ③ Enter “v” and press the “Enter” key to verify setting detail list.
IP address is being changed (*3).

Note

- Verification of setting detail list can be omitted.
- Setting details are not effective until they have been saved. (Page 24)
- If an invalid number is entered, an error message (“Parameter Error!”) will be displayed.

Setting up the Projector Using RS-232C or Telnet

Save Settings and Quit ([S]Save & Quit)

Save set values and quit menu.

▼SETUP MENU

-----SETUP MENU-----		
[1]IP Address	[2]Subnet Mask	[3]Default Gateway
[4]User Name	[5]Password	
[6]RS-232C Baud Rate	[7]Projector Name	[8]DHCP Client
[A]Advanced Setup	[D]Disconnect All	
[V]View All Setting	[S]Save & Quit	[Q]Quit Unchanged
setup>s		
All Connection will be disconnect.		
Continue(y/n)? y		
Apply New setting...Done.		

①

②

- ① Enter “s” and press the “Enter” key.
- ② Enter “y” and press the “Enter” key.

Quit without Saving Settings ([Q]Quit Unchanged)

Quit menu without saving setting values.

▼SETUP MENU

-----SETUP MENU-----		
[1]IP Address	[2]Subnet Mask	[3]Default Gateway
[4]User Name	[5]Password	
[6]RS-232C Baud Rate	[7]Projector Name	[8]DHCP Client
[A]Advanced Setup	[D]Disconnect All	
[V]View All Setting	[S]Save & Quit	[Q]Quit Unchanged
setup>q		
Quit Without Saving(y/n)? y		
Setting Unchanged.		

①

②

- ① Enter “q” and press the “Enter” key.
- ② Enter “y” and press the “Enter” key.

Setting up the Projector Using RS-232C or Telnet

The setting procedure for each item will be explained. For the basic procedure, please refer to “Set Items” on page 23.

IP Address Setting ([1]IP Address)

Setting of IP address.

setup>1	①
IP Address :192.168.150.2	
Please Enter :192.168.150.3	②
(change) —> 192.168.150.3	*

- ① Enter “1” and press the “Enter” key.
- ② Enter numerical value to be set and press the “Enter” key.
Display IP address after change (*).

Subnet Mask Setting ([2]Subnet Mask)

Setting subnet mask.

setup>2	①
Subnet Mask :255.255.255.0	
Please Enter :255.0.0.0	②
(change) —> 255.0.0.0	*

- ① Enter “2” and press the “Enter” key.
- ② Enter numerical value to be set and press the “Enter” key.
Display subnet mask after change (*).

Default Gateway Setting ([3]Default Gateway)

Setting default gateway.

setup>3	①
note: “0.0.0.0” means “Using no default gateway.”	
Gateway Address :0.0.0.0	
Please Enter :192.168.150.1	②
(change) —> 192.168.150.1	*

- ① Enter “3” and press the “Enter” key.
- ② Enter numerical value to be set and press the “Enter” key.
Display gateway address after change (*).



Note

- If the values for IP Address, Subnet Mask or Gateway of the projector have been changed via Telnet, the computer cannot be connected to the projector depending on the computer's network settings.

User Name Setting ([4]User Name)

Carrying out security protection using user name.

setup>4	①
User Name :	
Please Enter : XX-XXXX	②
(change) —> XX-XXXX	*

- ① Enter “4” and press the “Enter” key.
- ② Enter user name and press the “Enter” key.
Display set user name (*).



Note

- User name can be up to 8 characters.
- You can input the characters below :
a-z, A-Z, 0-9, -, _
- In the default state, user name is not set.

Setting up the Projector Using RS-232C or Telnet

Password Setting ([5]Password)

Carrying out security protection using password.

```
setup>5
Password      :
(Please Enter : sharppi)
(change)  ->  sharppi *
```

- ① Enter “5” and press the “Enter” key.
- ② Enter password and press the “Enter” key.
Display set password (*).

Note

- Password can be up to 8 characters.
- You can input the characters below :
a-z, A-Z, 0-9, -, _
- In the default state, the password is not set.

RS-232C Baud Rate Setting ([6]RS-232C Baud Rate)

Setting of baud rate for RS-232C terminals.

```
setup>6
0 ... 9600 bps
2 ... 115200 bps
(Baud Rate Select[0, 2]:2)
RS-232C Baud Rate : 115200 bps *
```

- ① Enter “6” and press the “Enter” key.
- ② Select and enter the number 0 or 2 and press the “Enter” key.
Display set baud rate (*).

Note

- Set the projector's baud rate to the same rate as that used by the computer.

Projector Name Setting ([7]Projector Name)

It is possible to assign a projector name.

```
setup>7
Projector Name : XX-XXXX
(Please Enter  : MY XX-XXXX)
(change)  ->  MY XX-XXXX *
```

- ① Enter “7” and press the “Enter” key.
- ② Enter projector name.
Display set projector name (*).

Note

- Projector name can be up to 12 characters.
- You can input the characters below :
A-Z, 0-9, -, _, (,), space
(When “a-z” are input, they are converted to “A-Z” automatically.)
- It is the same as the name which can be confirmed or set, using RS-232C commands “PJN0”, “PJN1”, “PJN2” and “PJN3”.

DHCP Client Setting ([8]DHCP Client)

Setting DHCP Client to “Enable” or “Disable”.

Example: When setting DHCP Client to “Enable”

```
setup>8
note: It sets DHCP Client.
0 ... Disable
1 ... Enable
(DHCP Select[0-1]:1)
DHCP Client : Enable

Success get data from DHCP server.
[MAC Address   ] : [XX:XX:XX:XX:XX:XX]
[IP Address    ] : [192.168.150.2]
[Subnet Mask   ] : [255.255.255.0]
[Default Gateway] : [0.0.0.0]
[DHCP IP Address] : [192.168.150.1] *
```

- ① Enter “8” and press the “Enter” key.
- ② Enter “1” and press the “Enter” key.
Display the obtained values (*).

Disconnecting All Connections ([D]Disconnect All)

It is possible to disconnect all the TCP/IP connections currently recognized by the projector. Even if the COM Redirect port is fixed in the Busy status due to a problem, it is possible to force the Ready status back by carrying out this disconnection.

```

setup>d
Disconnect All Connections(y/n)?y
Now Disconnecting...
    
```

- ① Enter “d” and press the “Enter” key.
- ② Enter “y” and press the “Enter” key.

Note

- If Disconnect All is performed, the connection to the projector via network will be forcibly disconnected.

Entering ADVANCED SETUP MENU

([A]Advanced Setup)

Enters ADVANCED SETUP MENU.

```

setup>a
***** ADVANCED SETUP MENU *****
[1]Auto Logout Time  [2]Data Port
[5]Network Ping Test
[6]Accept IP Addr(1)  [7]Accept IP Addr(2)  [8]Accept IP Addr(3)
[9]Accept All IP Addr  [0]Search Port

[!]Restore Default Setting
[Q]Return to Main Menu

advanced>
    
```

- ① Enter “a” and press the “Enter” key.

Setting Auto Logout Time (ADVANCED[1]Auto Logout Time)

If there is no input after a fixed time, the projector automatically disconnects network connection using the Auto Logout function. It is possible to set the time until the projector is automatically disconnected in units of a minute (from 1 to 65535 minutes).

```

advanced>1
Valid range      : 0 to 65535 (minute)
note: if you enter "0", auto logout function will be disable.
Auto Logout Time : 5
Please Enter      :15
(change)         -> 15
    
```

- ① Enter “1” and press the “Enter” key.
- ② Enter numerical value and press the “Enter” key.
Display set numerical value (*).

Note

- If the set value is made 0, the Auto Logout function is disabled.
- If an invalid number is entered, an error message (“Parameter Error!”) will be displayed and the screen returns to the ADVANCED SETUP MENU.

Data Port Setting

(ADVANCED[2]Data Port)

Setting of TCP port number. It is possible to set in the range of 1025 to 65535.

```

advanced>2
Valid range      :1025 to 65535
Data Port        :10002
Please Enter      :10005
(change)         -> 10005
    
```

- ① Enter “2” and press the “Enter” key.
- ② Enter numerical value and press the “Enter” key.
Display set numerical value (*).

Note

- Set according to need. Normally, use with the factory default setting.

Carrying out Network Ping Test (ADVANCED[5]Network Ping Test)

It is possible to confirm that a network connection between the projector and a computer etc. is working normally.

```
advanced>5
Ping Test IP addr :192.168.150.1
Please Enter :192.168.150.152
(change) -> 192.168.150.152
32 bytes from 192.168.150.152: icmp_seq = 1, time = 0 ms
32 bytes from 192.168.150.152: icmp_seq = 2, time = 0 ms
32 bytes from 192.168.150.152: icmp_seq = 3, time = 0 ms
32 bytes from 192.168.150.152: icmp_seq = 4, time = 0 ms
```

- ① Enter “5” and press the “Enter” key.
- ② Enter IP address of device to be tested and press the “Enter” key.
Display entered IP address (*1).
Display test result (*2).

Note

- If the “Enter” key is pressed without entering an IP address, the Ping Test IP address used previously is entered.
- If there is a fault with the connection, “Error: No answer” is displayed after a 5 second retry. In this case, please confirm the settings for the projector and the computer, and contact your network administrator.

Setting of Accept IP Address (ADVANCED[6]Accept IP Addr(1) - [8]Accept IP Addr(3))

It is possible to improve security of the projector by allowing connection from only a prescribed IP address. It is possible to set up to three IP addresses allowing connection to the projector.

```
advanced>6
Accept IP Addr(1) : 0.0.0.0
Please Enter : 192.168.150.152
(change) -> 192.168.150.152
```

- ① Enter “6”, “7” or “8” and press the “Enter” key.
- ② Enter numerical value and press the “Enter” key.
Display set numerical value (*).

Note

- To invalidate the Accept IP Address being currently set, enter “0.0.0.0”.
- If there is one or more Accept IP Addr being set, no connections are allowed from IP addresses that are not yet set. They can be cancelled using [9]Accept All IP Addr.

Accepting All IP Addresses (ADVANCED[9]Accept All IP Addr)

Removes IP addresses set with “Accept IP Addr”.

```
advanced>9
Accept All IP Addresses(y/n)? y
```

- ① Enter “9” and press the “Enter” key.
- ② Enter “y” and press the “Enter” key.

Note

- At the point in time where “y” was entered, the numerical values for Accept IP Addr(1)-(3) are reset to “0.0.0.0”.
- If “n” is entered, setting is not altered.

Setting of Search Port (ADVANCED[0]Search Port)

Sets the port number used when searching for the projector from the network.

```

advanced>0
Please Enter Port Number for Search from Computer.
Valid range      : 1025 to 65535
Search Port      : 5006
Please Enter      : 5004
(change)  -> 5004
    
```

- ① Enter “0” and press the “Enter” key.
- ② Enter numerical value and press the “Enter” key.
Display set numerical value (*).

Note

- Set according to need. Normally, use with the factory default setting.

Return to Default Settings (ADVANCED[!]Restore Default Setting)

Returns all menu setting values to the default state.

```

advanced>!
Restore All Setting to Default(y/n)? y
— User Setting Initialized —
    
```

- ① Enter “!” and press the “Enter” key.
- ② Enter “y” and press the “Enter” key.

Note

- If the values for IP Address, Subnet Mask or Gateway of the projector have been returned to the default settings via Telnet, the computer cannot be connected to the projector depending on the computer's network settings.

Return to Main Menu (ADVANCED[q]Return to Main Menu)

Returns to the main SETUP MENU.

```

advanced>q
-----SETUP MENU-----
[1]IP Address      [2]Subnet Mask   [3]Default Gateway
[4]User Name       [5]Password
[6]RS-232C Baud Rate [7]Projector Name [8]DHCP Client
[A]Advanced Setup   [D]Disconnect All
[V]View All Setting [S]Save & Quit     [Q]Quit Unchanged
setup>
    
```

- ① Enter “q” and press the “Enter” key.
Returns to the SETUP MENU.

Resetting the Lamp Timer of the Projector via LAN

When the projector is connected to a network, you can use the communications program to send a command to reset the lamp timer. The example below uses Windows® XP as the operating system. When you use Windows Vista®, use other communications program referring to the following steps, because Windows Vista® does not come with HyperTerminal.

1 Click “Start” – “All Programs” – “Accessories” – “Communications” – “HyperTerminal”.

- If you do not have HyperTerminal installed, see the operation manual of your computer.
- Depending on the settings of your computer, you may be required to enter your area code and other details. Enter the information as required.

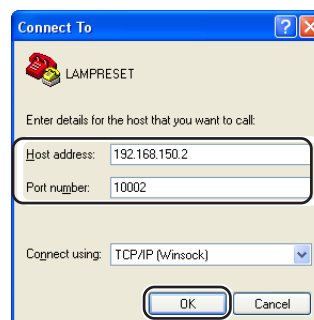
2 Enter a name in the “Name” field, and click “OK”.



3 If you are required to enter the area code, enter it in the “Area code” field. From the “Connect using” drop-down menu, select “TCP/IP (Winsock)”, and click “OK”.



4 Enter the IP address of the projector in the “Host address” field (see “TCP/IP” on the “Network” menu of the projector), and enter the data port of the projector in the “Port number” field (“10002” is the factory default setting), and click “OK”.



Resetting the Lamp Timer of the Projector via LAN

5 Click “Properties” on the “File” menu.

6 Click the “Settings” tab, and then click “ASCII Setup”.

7 Select the check boxes next to “Send line ends with line feeds”, “Echo typed characters locally”, and “Append line feeds to incoming line ends”, and click “OK”.

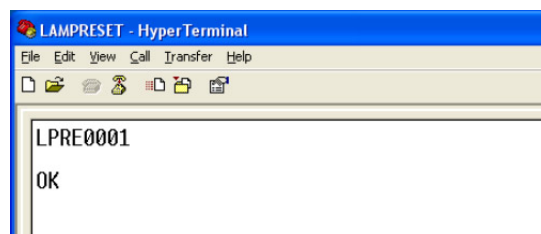
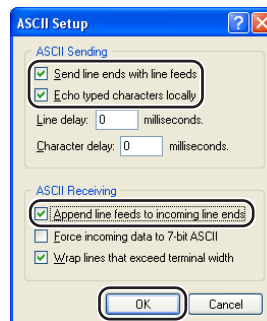
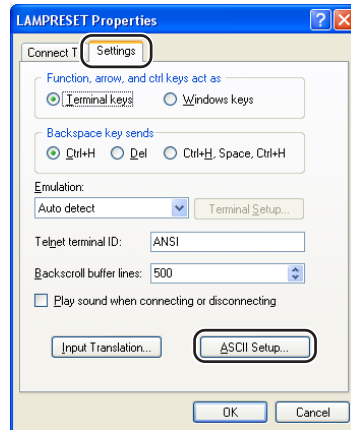
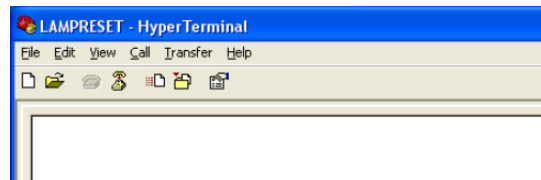
- The LAMPRESET Properties window appears, click “OK”.

8 If a user name and/or password is set for the projector, enter the user name and password.

9 Send the lamp reset command “LPRE0001”.

- This command can only be sent when the projector is in standby mode.
- When “OK” is received, this indicates that the lamp was successfully reset.

10 Close HyperTerminal.



Communication cannot be established with the projector

When connecting the projector using serial-connection

- ◀ Check that the RS-232C terminal of the projector and a computer or the commercially available controller are connected correctly.
- ◀ Check that the RS-232C cable is a cross-over cable.
- ◀ Check that the RS-232C port setting for the projector corresponds to the setting for the computer or the commercially available controller.

When connecting the projector to a computer using network (LAN)-connection

- ◀ Check that the cable's connector is firmly inserted in the LAN terminal of the projector.
- ◀ Check that the cable is firmly inserted into a LAN port for a computer or a network device such as a hub.
- ◀ Check that the LAN cable is a Category 5 cable.
- ◀ Check that the LAN cable is a cross-over cable when connecting the projector to a computer directly.
- ◀ Check that the LAN cable is a straight-through cable when connecting the projector with a network device such as a hub.
- ◀ Check that the power supply is turned on for the network device such as a hub between the projector and a computer.

Check the network settings for the computer and the projector

- ◀ Check the following network settings for the projector.
 - IP Address
Check that the IP address for the projector is not duplicated on the network.
 - Subnet Mask
When the gateway setting for the projector is "0.0.0.0" (Not Used), or the gateway setting for the projector and the default gateway setting for the computer are the same:
 - The subnet masks for the projector and the computer should be the same.
 - The IP address parts shown by the subnet mask for the projector and the computer should be the same.(Example)
When the IP address is "192.168.150.2" and the subnet mask is "255.255.255.0" for the projector, the IP address for the computer should be "192.168.150.X" (X=3-254) and the subnet mask should be "255.255.255.0".
 - Gateway
When the gateway setting for the projector is "0.0.0.0" (Not Used), or the gateway setting for the projector and the default gateway setting for the computer are the same:
 - The subnets for the projector and the computer should be the same.
 - The IP address parts shown by the subnet mask for the projector and the computer should be the same.(Example)
When the IP address is "192.168.150.2" and the subnet mask is "255.255.255.0" for the projector, the IP address for the computer should be "192.168.150.X" (X=3-254) and the subnet mask should be "255.255.255.0".



Note

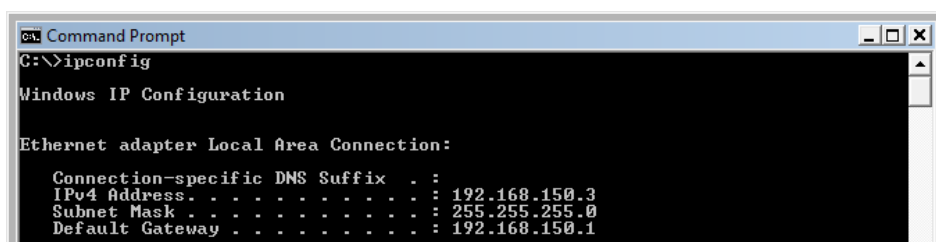
- When "DHCP Client" is set to "OFF" on the projector
IP address : 192.168.150.2
Subnet mask : 255.255.255.0
Gateway address : 0.0.0.0 (Not Used)
- For network settings for the projector, refer to page 13.

- ◀ Take the following steps for checking the network settings for the computer.
1. Open a command prompt.
 - In the case of Windows® 2000: click “start” → “Programs” → “Accessories” → “Command Prompt” in order.
 - In the case of Windows® XP, Windows Vista®: click “start” → “All Programs” → “Accessories” → “Command Prompt” in order.
 2. After launching the command prompt, enter the command “ipconfig”, and press the “Enter” key.

Note

- Communication may not be established even after carrying out the network settings for the computer. In such cases, restart your computer.

C:\>ipconfig



```
Command Prompt
C:\>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : 
    IPv4 Address. . . . . : 192.168.150.3
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.150.1
```

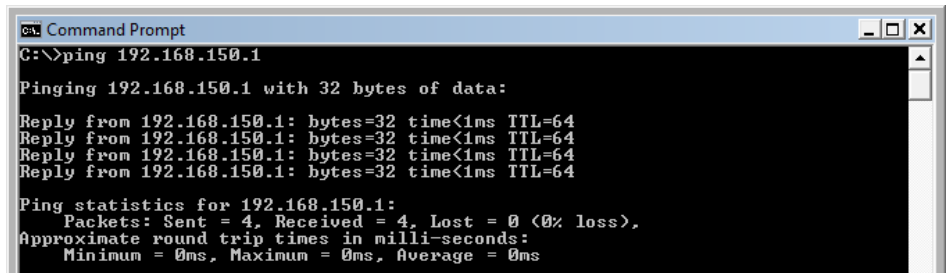
Note

- Usage examples of ipconfig
 - C:\>ipconfig /? displays how to use “ipconfig.exe”.
 - C:\>ipconfig displays the set IP address, subnet mask and default gateway.
 - C:\>ipconfig /all displays all the setting information related to TCP/IP.

3. To return to the Windows® screen, enter “exit” and press the “Enter” key.

Troubleshooting

- ◀ Check if the "TCP/IP" protocol is operating correctly using the "PING" command. Also, check if an IP address is set.
 1. Open a command prompt.
 - In the case of Windows® 2000: click "start" → "Programs" → "Accessories" → "Command Prompt" in order.
 - In the case of Windows® XP, Windows Vista®: click "start" → "All Programs" → "Accessories" → "Command Prompt" in order.
 2. After launching the command prompt enter a command "PING".
Entry example C:\>ping XXX.XXX.XXX.XXX
"XXX.XXX.XXX.XXX" should be entered with an IP address to be connected to, such as the projector.
 3. When connecting normally, the display will be as follows.
(The screen may be slightly different depending on the OS type.)
<Example> when the IP address connected to is "192.168.150.1"



```
C:\> Command Prompt
C:\>ping 192.168.150.1

Pinging 192.168.150.1 with 32 bytes of data:

Reply from 192.168.150.1: bytes=32 time<1ms TTL=64
Reply from 192.168.150.1: bytes=32 time<1ms TTL=64
Reply from 192.168.150.1: bytes=32 time<1ms TTL=64
Reply from 192.168.150.1: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.150.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

4. When a command cannot be sent, "Request time out" will be displayed.
Check the network setting again.
If communication can still not be established properly, contact your network administrator.
 5. To return to the Windows® screen, enter "exit" and then press the "Enter" key.
- ◀ When the projector cannot be connected, even though the "PING" command is checked:
 1. When "Accept IP Address" is set on the projector, set the IP address of the PC to be connected.
 2. When a security software is installed on the PC, or when a fire wall has been set up for the network system, connection may not be possible. Consult the system administrator when, for example, you want to change the settings to enable use of the TCP port set as the data port.
 3. When neither of the above two items applies, change the settings for the data port.

A connection cannot be made because you have forgotten your user name or your password.

- ◀ Initialize the settings. (See page 51 of the projector's operation manual.)
- ◀ After the initialization, carry out setting again.