EIKI

DLP™ PROJECTOR
MODEL
EIP-3500

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### Screen Size and Projection Distance

The projection screen size varies according to the distance from the lens of the projector to the screen. Install the projector so that projected images are projected onto the screen at the optimum size by referring to the table below. Use the values in the table as a reference when installing the projector.

#### NORMAL Mode (4:3)

<table>
<thead>
<tr>
<th>Diag. [in]</th>
<th>Width</th>
<th>Height</th>
<th>Minimum [L1]</th>
<th>Maximum [L2]</th>
<th>Distance from the bottom of the image to the lens center [H]</th>
</tr>
</thead>
<tbody>
<tr>
<td>300&quot; (762 cm)</td>
<td>610 cm (240&quot;)</td>
<td>457 cm (180&quot;)</td>
<td>9.1 m (29 9&quot;)</td>
<td>13.7 m (44 9&quot;)</td>
<td>–10.2 cm (–4 1/8&quot;)</td>
</tr>
<tr>
<td>250&quot; (635 cm)</td>
<td>508 cm (200&quot;)</td>
<td>381 cm (150&quot;)</td>
<td>7.6 m (24 9&quot;)</td>
<td>11.4 m (37 4&quot;)</td>
<td>–8.5 m (–3 1/8&quot;)</td>
</tr>
<tr>
<td>200&quot; (508 cm)</td>
<td>406 cm (160&quot;)</td>
<td>305 cm (120&quot;)</td>
<td>6.0 m (19 10&quot;)</td>
<td>9.1 m (29 10&quot;)</td>
<td>–6.8 m (–2 4/8&quot;)</td>
</tr>
<tr>
<td>160&quot; (406 cm)</td>
<td>305 cm (120&quot;)</td>
<td>229 cm (90&quot;)</td>
<td>4.5 m (14 10&quot;)</td>
<td>6.8 m (22 5&quot;)</td>
<td>–5.1 m (–2 1/8&quot;)</td>
</tr>
<tr>
<td>120&quot; (305 cm)</td>
<td>203 cm (80&quot;)</td>
<td>152 cm (60&quot;)</td>
<td>3.0 m (9 11&quot;)</td>
<td>4.6 m (14 11&quot;)</td>
<td>–3.4 m (–1 1/8&quot;)</td>
</tr>
<tr>
<td>84&quot; (213 cm)</td>
<td>171 cm (67&quot;)</td>
<td>128 cm (50&quot;)</td>
<td>2.5 m (8 4&quot;)</td>
<td>3.8 m (12 6&quot;)</td>
<td>–2.9 m (–1 9&quot;)</td>
</tr>
<tr>
<td>72&quot; (183 cm)</td>
<td>146 cm (58&quot;)</td>
<td>110 cm (43&quot;)</td>
<td>2.2 m (7 2&quot;)</td>
<td>3.3 m (10 9&quot;)</td>
<td>–2.4 cm (–3&quot;)</td>
</tr>
<tr>
<td>60&quot; (152 cm)</td>
<td>122 cm (48&quot;)</td>
<td>91 cm (36&quot;)</td>
<td>1.8 m (5 1&quot;)</td>
<td>2.7 m (8 1&quot;)</td>
<td>–2.0 cm (–5&quot;)</td>
</tr>
<tr>
<td>40&quot; (102 cm)</td>
<td>81 cm (32&quot;)</td>
<td>61 cm (24&quot;)</td>
<td>1.2 m (4 0&quot;)</td>
<td>1.8 m (6 0&quot;)</td>
<td>–1.4 cm (–17&quot;)</td>
</tr>
</tbody>
</table>

The formula for picture size and projection distance

<table>
<thead>
<tr>
<th>[m/cm]</th>
<th>[Feet/inches]</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1 (m) = 0.0302χ</td>
<td>L1 (ft) = 0.0302χ / 0.3048</td>
</tr>
<tr>
<td>L2 (m) = 0.0455χ</td>
<td>L2 (ft) = 0.0455χ / 0.3048</td>
</tr>
<tr>
<td>H (cm) = –0.034χ</td>
<td>H (in) = –0.034χ / 2.54</td>
</tr>
</tbody>
</table>

#### STRETCH Mode (16:9)

<table>
<thead>
<tr>
<th>Diag. [in]</th>
<th>Width</th>
<th>Height</th>
<th>Minimum [L1]</th>
<th>Maximum [L2]</th>
<th>Distance from the bottom of the image to the lens center [H]</th>
</tr>
</thead>
<tbody>
<tr>
<td>250&quot; (635 cm)</td>
<td>553 cm (218&quot;)</td>
<td>311 cm (123&quot;)</td>
<td>8.2 m (26 7&quot;)</td>
<td>12.4 m (40 8&quot;)</td>
<td>–61.1 cm (–24 1/8&quot;)</td>
</tr>
<tr>
<td>225&quot; (572 cm)</td>
<td>498 cm (196&quot;)</td>
<td>280 cm (110&quot;)</td>
<td>7.4 m (24 3&quot;)</td>
<td>11.2 m (36 7&quot;)</td>
<td>–55.0 cm (–21 1/4&quot;)</td>
</tr>
<tr>
<td>200&quot; (508 cm)</td>
<td>443 cm (174&quot;)</td>
<td>249 cm (98&quot;)</td>
<td>6.6 m (21 7&quot;)</td>
<td>9.9 m (32 6&quot;)</td>
<td>–48.9 cm (–18 1/4&quot;)</td>
</tr>
<tr>
<td>160&quot; (406 cm)</td>
<td>332 cm (131&quot;)</td>
<td>187 cm (74&quot;)</td>
<td>4.9 m (16 2&quot;)</td>
<td>7.4 m (24 5&quot;)</td>
<td>–36.7 cm (–14 1/8&quot;)</td>
</tr>
<tr>
<td>133&quot; (338 cm)</td>
<td>294 cm (116&quot;)</td>
<td>166 cm (65&quot;)</td>
<td>4.4 m (14 4&quot;)</td>
<td>6.5 m (21 8&quot;)</td>
<td>–32.5 cm (–12 3/8&quot;)</td>
</tr>
<tr>
<td>108&quot; (279 cm)</td>
<td>235 cm (92&quot;)</td>
<td>132 cm (52&quot;)</td>
<td>3.5 m (11 5&quot;)</td>
<td>5.3 m (17 3&quot;)</td>
<td>–25.9 cm (–10 3/8&quot;)</td>
</tr>
<tr>
<td>100&quot; (254 cm)</td>
<td>221 cm (87&quot;)</td>
<td>125 cm (49&quot;)</td>
<td>3.3 m (10 10&quot;)</td>
<td>5.0 m (16 3&quot;)</td>
<td>–24.5 cm (–9 1&quot;)</td>
</tr>
<tr>
<td>92&quot; (234 cm)</td>
<td>204 cm (80&quot;)</td>
<td>113 cm (45&quot;)</td>
<td>3.0 m (9 1&quot;)</td>
<td>4.6 m (15 0&quot;)</td>
<td>–22.5 cm (–8 5/8&quot;)</td>
</tr>
<tr>
<td>84&quot; (213 cm)</td>
<td>186 cm (73&quot;)</td>
<td>105 cm (41&quot;)</td>
<td>2.8 m (9 1&quot;)</td>
<td>4.2 m (13 8&quot;)</td>
<td>–20.5 cm (–8 3/8&quot;)</td>
</tr>
<tr>
<td>72&quot; (183 cm)</td>
<td>159 cm (63&quot;)</td>
<td>90 cm (35&quot;)</td>
<td>2.4 m (7 9&quot;)</td>
<td>3.6 m (11 9&quot;)</td>
<td>–17.6 cm (–6 15/16&quot;)</td>
</tr>
<tr>
<td>60&quot; (152 cm)</td>
<td>133 cm (52&quot;)</td>
<td>75 cm (29&quot;)</td>
<td>2.0 m (6 6&quot;)</td>
<td>3.0 m (9 9&quot;)</td>
<td>–14.7 cm (–5 15/16&quot;)</td>
</tr>
<tr>
<td>40&quot; (102 cm)</td>
<td>89 cm (35&quot;)</td>
<td>50 cm (20&quot;)</td>
<td>1.3 m (4 4&quot;)</td>
<td>2.0 m (6 6&quot;)</td>
<td>–9.8 cm (–3 5/8&quot;)</td>
</tr>
</tbody>
</table>

The formula for picture size and projection distance

<table>
<thead>
<tr>
<th>[m/cm]</th>
<th>[Feet/inches]</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1 (m) = 0.0329χ</td>
<td>L1 (ft) = 0.0329χ / 0.3048</td>
</tr>
<tr>
<td>L2 (m) = 0.04957χ</td>
<td>L2 (ft) = 0.04957χ / 0.3048</td>
</tr>
<tr>
<td>H (cm) = –0.24459χ</td>
<td>H (in) = –0.24459χ / 2.54</td>
</tr>
</tbody>
</table>

### Note

- There may be an error of ± 3% in the above values.
- Values with a minus (–) sign indicate that the lens center is lower than the bottom of the image.
Connecting Pin Assignments

**INPUT 1/INPUT 2 and OUTPUT RGB Signal Terminal:** 15-pin Mini D-sub female connector

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Signal Name</th>
<th>I/O</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>VCC</td>
<td>USB power</td>
<td>Connected to internal circuit</td>
</tr>
<tr>
<td>2</td>
<td>USB–</td>
<td>USB data–</td>
<td>Connected to internal circuit</td>
</tr>
<tr>
<td>3</td>
<td>USB+</td>
<td>USB data+</td>
<td>Connected to internal circuit</td>
</tr>
<tr>
<td>4</td>
<td>SG</td>
<td>GND</td>
<td>Not connected</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td>Not connected</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td>Not connected</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
<td>Not connected</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td></td>
<td>Not connected</td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
<td>Not connected</td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td>Not connected</td>
</tr>
<tr>
<td>11</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Component Input**

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Signal Name</th>
<th>I/O</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Pn (Cn)</td>
<td>Input</td>
<td>Connected to internal circuit</td>
</tr>
<tr>
<td>2</td>
<td>V</td>
<td>Output</td>
<td>Connected to internal circuit</td>
</tr>
<tr>
<td>3</td>
<td>Pn (Cn)</td>
<td>Output</td>
<td>Connected to internal circuit</td>
</tr>
<tr>
<td>4</td>
<td>Not connected</td>
<td></td>
<td>Not connected</td>
</tr>
<tr>
<td>5</td>
<td>Not connected</td>
<td></td>
<td>Not connected</td>
</tr>
<tr>
<td>6</td>
<td>Earth (red)</td>
<td></td>
<td>Not connected</td>
</tr>
<tr>
<td>7</td>
<td>Earth (green/sync on green)</td>
<td></td>
<td>Not connected</td>
</tr>
<tr>
<td>8</td>
<td>Earth (blue)</td>
<td></td>
<td>Not connected</td>
</tr>
<tr>
<td>9</td>
<td>Not connected</td>
<td></td>
<td>Not connected</td>
</tr>
<tr>
<td>10</td>
<td>GND</td>
<td></td>
<td>Not connected</td>
</tr>
<tr>
<td>11</td>
<td>Not connected</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Bi-directional data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Horizontal sync signal: TTL level</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Vertical sync signal: TTL level</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Data clock</td>
<td></td>
<td>Not connected</td>
</tr>
</tbody>
</table>

**RS-232C Terminal:** 9-pin Mini DIN female connector

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Signal Name</th>
<th>I/O</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>RD</td>
<td>Receive Data</td>
<td>Not connected</td>
</tr>
<tr>
<td>2</td>
<td>SD</td>
<td>Send Data</td>
<td>Connected to internal circuit</td>
</tr>
<tr>
<td>3</td>
<td>SG</td>
<td>Signal Ground</td>
<td>Connected to internal circuit</td>
</tr>
<tr>
<td>4</td>
<td>RS</td>
<td></td>
<td>Not connected</td>
</tr>
<tr>
<td>5</td>
<td>CS</td>
<td></td>
<td>Connected to Pin 8</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td>Connected to Pin 7</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
<td>Not connected</td>
</tr>
</tbody>
</table>

**DIN-D-sub RS-232C adaptor:** 9-pin D-sub male connector

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Signal Name</th>
<th>I/O</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>RD</td>
<td>Receive Data</td>
<td>Not connected</td>
</tr>
<tr>
<td>2</td>
<td>SD</td>
<td>Send Data</td>
<td>Connected to internal circuit</td>
</tr>
<tr>
<td>3</td>
<td>SG</td>
<td>Signal Ground</td>
<td>Connected to internal circuit</td>
</tr>
<tr>
<td>4</td>
<td>RS</td>
<td></td>
<td>Not connected</td>
</tr>
<tr>
<td>5</td>
<td>CS</td>
<td></td>
<td>Connected to internal circuit</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td>Connected to internal circuit</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
<td>Connected to internal circuit</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td></td>
<td>Connected to internal circuit</td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
<td>Not connected</td>
</tr>
</tbody>
</table>

**Note**

• Pin 8 (CS) and Pin 7 (RS) are short circuited inside the projector.

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

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Signal Name</th>
<th>Pin No.</th>
<th>Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CD</td>
<td>1</td>
<td>CD</td>
</tr>
<tr>
<td>2</td>
<td>RD</td>
<td>2</td>
<td>RD</td>
</tr>
<tr>
<td>3</td>
<td>SD</td>
<td>3</td>
<td>SD</td>
</tr>
<tr>
<td>4</td>
<td>ER</td>
<td>4</td>
<td>ER</td>
</tr>
<tr>
<td>5</td>
<td>SG</td>
<td>5</td>
<td>SG</td>
</tr>
<tr>
<td>6</td>
<td>DR</td>
<td>6</td>
<td>DR</td>
</tr>
<tr>
<td>7</td>
<td>RS</td>
<td>7</td>
<td>RS</td>
</tr>
<tr>
<td>8</td>
<td>CS</td>
<td>8</td>
<td>CS</td>
</tr>
<tr>
<td>9</td>
<td>CI</td>
<td>9</td>
<td>CI</td>
</tr>
</tbody>
</table>

**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:** 4-pin B-type USB female connector

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Signal Name</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>USB–</td>
<td>USB power</td>
</tr>
<tr>
<td>2</td>
<td>USB+</td>
<td>USB data+</td>
</tr>
<tr>
<td>3</td>
<td>SG</td>
<td>GND</td>
</tr>
</tbody>
</table>

**LAN Terminal:** 8-pin RJ-45 modular connector

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Signal Name</th>
<th>Pin No.</th>
<th>Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TX+</td>
<td>1</td>
<td>RX+</td>
</tr>
<tr>
<td>2</td>
<td>TX–</td>
<td>2</td>
<td>RX–</td>
</tr>
<tr>
<td>3</td>
<td>RX+</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>RX–</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>
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 27 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.
Baud rate*: 9,600 bps / 115,200 bps
Parity bit: None
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

```
<table>
<thead>
<tr>
<th>C1</th>
<th>C2</th>
<th>C3</th>
<th>C4</th>
<th>P1</th>
<th>P2</th>
<th>P3</th>
<th>P4</th>
</tr>
</thead>
</table>
```

Return code (0DH)

Response code format

Normal response

```
OK
```

Problem response (communication error or incorrect command)

```
ERR ERR
```

Info

- When controlling the projector using RS-232C commands from a computer, wait at least 30 seconds after the power has been turned on, and then transmit the commands. After putting the projector into standby mode, wait at least 90 seconds until the cooling fan stops, and then transmit the commands.
- If more than one command will be sent to the projector, wait for projector reply before sending next command.

Note

- When the projector receives the following commands, the on-screen display will not disappear and these commands will not reset the “Auto Power Off” function timer when no signal is present.
- POWER????, TABN___1, TLPS___1, TLTT___1, TLTL___1

Commands

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

```
POWR_ _ _ _ 1
```

```
OK
```

Control Contents | Command | Parameter | Return
---|---|---|---
Standby | POWR | _ _ _ _ 0 | OK or ERR
Power On | POWR | _ _ _ _ 1 | OK or ERR
Power Status | POWR | _ _ _ _ 9 | Standby: 0, On: 1
Projector Status | TABN | _ _ _ _ 0 | Normal: 0, Temp High: 1, Fan Err: 2, Lamp Life 5% or less: 8, Lamp Burnt-out: 16, Lamp Ignition Failure: 32, Temp Abnormally High: 64
Lamp Status | TLPS | _ _ _ _ 0 | OFF: 0, On: 1, Retry: 2, Waiting: 4, Lamp Error: 32
Volume (0-60) | VOLA | _ _ _ _ 0 | OK or ERR
AV Mute: Off | TIMB | _ _ _ _ 0 | OK or ERR
AV Mute: On | TIMB | _ _ _ _ 1 | OK or ERR
Keystone (-127 ~ +127) | KEY S | _ _ _ _ 0 | OK or ERR
INPUT 1 (RGB1) | IRGB | _ _ _ _ 0 | OK or ERR
INPUT 2 (RGB2) | IRGB | _ _ _ _ 1 | OK or ERR
INPUT 3 (Video) | IVED | _ _ _ _ 1 | OK or ERR
INPUT 4 (S-Video) | IVED | _ _ _ _ 2 | OK or ERR
Freeze: Off | FREQ | _ _ _ _ 0 | OK or ERR
Freeze: On | FREQ | _ _ _ _ 1 | OK or ERR
Auto Sync Start | ADJS | _ _ _ _ 0 | OK or ERR
### RS-232C Specifications and Commands

<table>
<thead>
<tr>
<th>Control Contents</th>
<th>Command</th>
<th>Parameter</th>
<th>Return</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lamp Usage Time (hour)</td>
<td>L T T</td>
<td></td>
<td>0 - 9999</td>
</tr>
<tr>
<td>Remaining Lamp Life (Percentage)</td>
<td>L T L</td>
<td></td>
<td>0 - 100</td>
</tr>
<tr>
<td>OSD Display : Off</td>
<td>M D I</td>
<td></td>
<td>0 or ERR</td>
</tr>
<tr>
<td>OSD Display : On</td>
<td>M D I</td>
<td></td>
<td>1 or ERR</td>
</tr>
<tr>
<td>Video System : Auto</td>
<td>M E S Y</td>
<td></td>
<td>1 or ERR</td>
</tr>
<tr>
<td>Video System : PAL</td>
<td>M E S Y</td>
<td></td>
<td>1 or ERR</td>
</tr>
<tr>
<td>Video System : SECAM</td>
<td>M E S Y</td>
<td></td>
<td>3 or ERR</td>
</tr>
<tr>
<td>Video System : NTSC4.43</td>
<td>M E S Y</td>
<td></td>
<td>4 or ERR</td>
</tr>
<tr>
<td>Video System : NTSC3.58</td>
<td>M E S Y</td>
<td></td>
<td>5 or ERR</td>
</tr>
<tr>
<td>Video System : PAL-M</td>
<td>M E S Y</td>
<td></td>
<td>6 or ERR</td>
</tr>
<tr>
<td>Video System : PAL-N</td>
<td>M E S Y</td>
<td></td>
<td>7 or ERR</td>
</tr>
<tr>
<td>Video System : PAL-60</td>
<td>M E S Y</td>
<td></td>
<td>8 or ERR</td>
</tr>
<tr>
<td>Background : Logo</td>
<td>MBG</td>
<td></td>
<td>1 or ERR</td>
</tr>
<tr>
<td>Background : Blue</td>
<td>MBG</td>
<td></td>
<td>4 or ERR</td>
</tr>
<tr>
<td>Background : None</td>
<td>MBG</td>
<td></td>
<td>6 or ERR</td>
</tr>
<tr>
<td>Auto Focus Start</td>
<td>A F S T</td>
<td></td>
<td>1 or ERR</td>
</tr>
<tr>
<td>Eco Mode : Standard</td>
<td>T H M D</td>
<td></td>
<td>1 or ERR</td>
</tr>
<tr>
<td>Eco Mode : Eco</td>
<td>T H M D</td>
<td></td>
<td>1 or ERR</td>
</tr>
<tr>
<td>Auto Power Off : Disable</td>
<td>AP OW</td>
<td></td>
<td>0 or ERR</td>
</tr>
<tr>
<td>Auto Power Off : Enable</td>
<td>AP OW</td>
<td></td>
<td>1 or ERR</td>
</tr>
<tr>
<td>Auto Focus : Off</td>
<td>T A F</td>
<td></td>
<td>0 or ERR</td>
</tr>
<tr>
<td>Auto Focus : On</td>
<td>T A F</td>
<td></td>
<td>1 or ERR</td>
</tr>
<tr>
<td>Auto Keystone : Off</td>
<td>AT KS</td>
<td></td>
<td>0 or ERR</td>
</tr>
<tr>
<td>Auto Keystone : On</td>
<td>AT KS</td>
<td></td>
<td>1 or ERR</td>
</tr>
<tr>
<td>Speaker : Off</td>
<td>ASPK</td>
<td></td>
<td>0 or ERR</td>
</tr>
<tr>
<td>Speaker : On</td>
<td>ASPK</td>
<td></td>
<td>1 or ERR</td>
</tr>
<tr>
<td>Audio Out : FAO</td>
<td>A O U T</td>
<td></td>
<td>0 or ERR</td>
</tr>
<tr>
<td>Audio Out : VAO</td>
<td>A O U T</td>
<td></td>
<td>1 or ERR</td>
</tr>
<tr>
<td>PRJ Mode : Reverse On</td>
<td>TM R E</td>
<td></td>
<td>1 or ERR</td>
</tr>
<tr>
<td>PRJ Mode : Reverse Off</td>
<td>TM R E</td>
<td></td>
<td>0 or ERR</td>
</tr>
<tr>
<td>PRJ Mode : Invert On</td>
<td>TM I N</td>
<td></td>
<td>1 or ERR</td>
</tr>
<tr>
<td>PRJ Mode : Invert Off</td>
<td>TM I N</td>
<td></td>
<td>0 or ERR</td>
</tr>
<tr>
<td>Monitor Out : Enable</td>
<td>M O U T</td>
<td></td>
<td>1 or ERR</td>
</tr>
<tr>
<td>Monitor Out : Disable</td>
<td>M O U T</td>
<td></td>
<td>0 or ERR</td>
</tr>
<tr>
<td>LANRS232C : Disable</td>
<td>L N R S</td>
<td></td>
<td>0 or ERR</td>
</tr>
<tr>
<td>LANRS232C : Enable</td>
<td>L N R S</td>
<td></td>
<td>1 or ERR</td>
</tr>
<tr>
<td>IL Reset</td>
<td>A L R E</td>
<td></td>
<td>1 or ERR</td>
</tr>
<tr>
<td>Language : English</td>
<td>M E L A</td>
<td></td>
<td>1 or ERR</td>
</tr>
<tr>
<td>Language : Deutsch</td>
<td>M E L A</td>
<td></td>
<td>2 or ERR</td>
</tr>
<tr>
<td>Language : Español</td>
<td>M E L A</td>
<td></td>
<td>3 or ERR</td>
</tr>
<tr>
<td>Language : Français</td>
<td>M E L A</td>
<td></td>
<td>4 or ERR</td>
</tr>
<tr>
<td>Language : Italiano</td>
<td>M E L A</td>
<td></td>
<td>5 or ERR</td>
</tr>
<tr>
<td>Language : Svenska</td>
<td>M E L A</td>
<td></td>
<td>6 or ERR</td>
</tr>
<tr>
<td>Language : 日本語</td>
<td>M E L A</td>
<td></td>
<td>7 or ERR</td>
</tr>
<tr>
<td>Language : Portugues</td>
<td>M E L A</td>
<td></td>
<td>8 or ERR</td>
</tr>
<tr>
<td>Language : 仏語</td>
<td>M E L A</td>
<td></td>
<td>9 or ERR</td>
</tr>
<tr>
<td>Language : 简体中文</td>
<td>M E L A</td>
<td></td>
<td>10 or ERR</td>
</tr>
<tr>
<td>Language : 繁體中文</td>
<td>M E L A</td>
<td></td>
<td>11 or ERR</td>
</tr>
<tr>
<td>Model Name Check 1</td>
<td>T N A M</td>
<td></td>
<td>1 or ERR</td>
</tr>
<tr>
<td>Model Name Check 2</td>
<td>M N R D</td>
<td></td>
<td>1 or ERR</td>
</tr>
<tr>
<td>Projector Name Setting 1 (First four characters)</td>
<td>P J N 1</td>
<td></td>
<td>1 or ERR</td>
</tr>
<tr>
<td>Projector Name Setting 2 (Middle four characters)</td>
<td>P J N 2</td>
<td></td>
<td>1 or ERR</td>
</tr>
<tr>
<td>Projector Name Setting 3 (Last four characters)</td>
<td>P J N 3</td>
<td></td>
<td>1 or ERR</td>
</tr>
</tbody>
</table>

### Note

- If an asterisk (*) appears in the parameter column, enter a value in the range indicated in brackets under Control Contents.
- Parameters of CLR Temp settings are as follows.

<table>
<thead>
<tr>
<th>CLR Temps</th>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>5500K</td>
<td>0 5 5</td>
</tr>
<tr>
<td>6500K</td>
<td>0 6 5</td>
</tr>
<tr>
<td>7500K</td>
<td>0 7 5</td>
</tr>
<tr>
<td>8500K</td>
<td>0 8 5</td>
</tr>
<tr>
<td>9300K</td>
<td>0 9 3</td>
</tr>
<tr>
<td>10500K</td>
<td>1 0 5</td>
</tr>
</tbody>
</table>

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

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

2. **Setting an IP address for the computer**
   Adjust the IP settings of the computer to enable one-to-one communications with the projector.

3. **Setting up a network connection for the projector**
   Adjust the projector network settings to conform to your network.

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**1. Connecting the Projector to a Computer**

Establishing a one-to-one connection from the projector to a computer. Using a LAN 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 LAN cable (a 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. Turn on 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® XP (Professional or Home Edition).

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

2. Click “Start”, and click “Control Panel”.

3. Click “Network and Internet Connections”, and click “Network Connections” in the new window.
   • This manual uses examples to explain the operations in Category View. If you are using Classic View, double-click “Network Connections”.

4. Right-click “Local Area Connection” and select “Properties” from the menu.
5 Click “Internet Protocol (TCP/IP)”, 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 The factory default setting for the projector IP address is “192.168.150.2”, Subnet mask is “255.255.255.0” and Default gateway is “0.0.0.0”.
   Set temporarily as follows:
   IP address: 192.168.150.3
   Subnet mask: 255.255.255.0
   Default gateway: (Do not input any values.)

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.

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.

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

![Internet Explorer window](image)

![Connection to 192.168.150.2](image)

![TCP/IP settings](image)
The TCP/IP setting screen appears, ready for network settings for the projector.

### 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.
- After setting items, wait for 10 seconds and then re-access.

This completes the network settings. Change the IP address of the setting computer back to its original address, and then connect the computer and the projector to the network.
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 21-28 of the projector’s operation manual.) Complete the AC cord connection. (See page 29 of the projector’s operation manual.)

Note
• When connecting the projector to the LAN, use a LAN cable (Category 5). 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 11 followed by “/” in “Address”, and then press the “Enter” key.
  • The factory default setting for 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” (page 10-11), 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)

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

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 via LAN

Controlling the Projector (Control)

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

- Power
- Input Select
- Volume
- AV Mute [OFF] [ON]

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.
Controlling the Projector via LAN

Setting and Adjusting the Projector (Settings & Adjustments)

Example: “Picture” screen display for INPUT 1

Settings & Adjustments - Picture(INPUT1)

<table>
<thead>
<tr>
<th>Picture Mode</th>
<th>Standard</th>
<th>Reset</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bright Boost</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>CLR Temp</td>
<td>7500K</td>
<td></td>
</tr>
<tr>
<td>sRGB</td>
<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td>IRIS</td>
<td>High Bright</td>
<td></td>
</tr>
<tr>
<td>Signal Type</td>
<td>Auto</td>
<td></td>
</tr>
</tbody>
</table>

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

- Picture Mode
- Bright Boost
- CLR Temp
- sRGB [OFF][ON]
- IRIS
- Signal Type
- Auto Sync [OFF][ON]
- Resize (INPUT 1)
- OSD Display [OFF][ON]
- Video System (INPUT 3/4)
- Background
- Eco Mode [OFF][ON]
- Auto Power Off [OFF][ON]
- Auto Focus (Startup) [OFF][ON]
- Auto Keystone [OFF][ON]
- Internal Speaker [OFF][ON]
- Audio Out [OFF][ON]
- Projection Mode
- RS-232C Speed
- Monitor Out (Standby)
- OSD Language

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

Password

Accept IP Address

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.

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

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

Note

- User Name and Password can be up to 8 characters.
- You can input the characters below: a-z, A-Z, 0-9, -, _
Making General Settings for the Network (Network - General)

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

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

<table>
<thead>
<tr>
<th>Items</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Projector Name</td>
<td>Setting the projector name.</td>
</tr>
<tr>
<td>Auto Logout Time</td>
<td>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.</td>
</tr>
<tr>
<td>Data Port</td>
<td>Setting the TCP port number used when exchanging a data with the projector (from 1025 to 65535).</td>
</tr>
<tr>
<td>Search Port</td>
<td>Setting the port number used when searching for the projector (from 1025 to 65535).</td>
</tr>
</tbody>
</table>

Controlling the Projector via LAN

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

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

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

Note

- SMTP Server, Originator E-mail Address and Originator Name 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 “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 10 and 11 are incorrectly set, e-mail will not be send.
Controlling the Projector via LAN

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

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

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

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 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. “OK” is displayed. Press the “Enter” key.

6. “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.

7. “Password:” is displayed. Input the password and press the “Enter” key.
   * If a password has not yet been set, just press the “Enter” key.

8. Input “setup” and press the “Enter” key.
   * SETUP MENU will be displayed.

### SETUP MENU

```
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>[A] Advanced Setup</td>
<td>[D] Disconnect All</td>
<td></td>
</tr>
<tr>
<td>[V] View All Setting</td>
<td>[S] Save &amp; Quit</td>
<td>[Q] Quit Unchanged</td>
</tr>
</tbody>
</table>

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.
Setting the Projector Using RS-232C or Telnet

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.

Note

• If the IP address has been changed, ensure 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 the Projector Using RS-232C or Telnet

SETUP MENU (Main Menu)

► SETUP MENU

<table>
<thead>
<tr>
<th>SETUP MENU</th>
<th>ADVANCED SETUP MENU</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. IP Address (Factory default setting : 192.168.150.2)</td>
<td>[1] Auto Logout Time (Factory default setting : 5 minutes)</td>
</tr>
<tr>
<td>2. Subnet Mask (Factory default setting : 255.255.255.0)</td>
<td>Setting of time until automatic disconnection of network connection. (Page 24)</td>
</tr>
<tr>
<td>3. Default Gateway (Factory default setting : Not Used)</td>
<td>[2] Data Port (Factory default setting : 10002)</td>
</tr>
<tr>
<td>4. User Name (Factory default setting : Not Required)</td>
<td>Setting the TCP port number used when exchanging data. (Page 24)</td>
</tr>
<tr>
<td>5. Password (Factory default setting : Not Required)</td>
<td>[5] Network Ping Test</td>
</tr>
<tr>
<td>6. RS-232C Baud Rate (Factory default setting : 9600 bps)</td>
<td>It is possible to confirm that a network connection between the projector and a computer etc. is working normally. (Page 25)</td>
</tr>
<tr>
<td>7. Projector Name (Factory default setting : EIP-3500)</td>
<td>[6] Accept IP Addr(1)</td>
</tr>
<tr>
<td>8. Accept IP Addr(1)</td>
<td>[7] Accept IP Addr(2)</td>
</tr>
<tr>
<td>9. Accept IP Addr(2)</td>
<td>[8] Accept IP Addr(3)</td>
</tr>
<tr>
<td>9. Accept IP Addr(3)</td>
<td>[9] Accept All IP Addr (Factory default setting : Accept All)</td>
</tr>
<tr>
<td>0. Search Port (Factory default setting : 5006)</td>
<td>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 25)</td>
</tr>
<tr>
<td>[A] Advanced Setup</td>
<td>[!] Restore Default Setting</td>
</tr>
<tr>
<td>[D] Disconnect All</td>
<td>[Q] Return to Main Menu</td>
</tr>
<tr>
<td>[V] View All Setting</td>
<td>setup&gt; advanced&gt;</td>
</tr>
<tr>
<td>[S] Save &amp; Quit</td>
<td>[S] Save &amp; Quit</td>
</tr>
<tr>
<td>[Q] Quit Unchanged</td>
<td>[Q] Quit Unchanged</td>
</tr>
</tbody>
</table>

[1] IP address settings. (Page 22)
[4] Setting of user name for security protection. (Page 23)
[7] It is possible to assign a projector name. (Page 23)
[8] Enters ADVANCED SETUP MENU. (Page 24)
[9] Disconnect all connections. (Page 24)
[20] Displays all setting values. (Page 20)
[21] Save set values and quit menu. (Page 21)
[21] Quit menu without saving setting values. (Page 21)
Controlling 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**

<table>
<thead>
<tr>
<th>Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model Name</td>
<td>EIP-3500</td>
</tr>
<tr>
<td>Projector Name</td>
<td>EIP-3500</td>
</tr>
<tr>
<td>MAC Address</td>
<td>00:0B:2C:01:00:00</td>
</tr>
<tr>
<td>IP Address</td>
<td>192.168.150.2</td>
</tr>
<tr>
<td>Subnet Mask</td>
<td>255.255.255.0</td>
</tr>
<tr>
<td>Default Gateway</td>
<td>Not Used</td>
</tr>
<tr>
<td>RS-232 Baud Rate</td>
<td>9600 bps</td>
</tr>
<tr>
<td>Password</td>
<td>Not Required</td>
</tr>
</tbody>
</table>

**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**

<table>
<thead>
<tr>
<th>Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP Address</td>
<td>192.168.150.2</td>
</tr>
<tr>
<td>Please Enter</td>
<td>192.168.150.3</td>
</tr>
</tbody>
</table>

(change) —> 192.168.150.3

**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 21)  
- If an invalid number is entered, an error message (“Parameter Error!”) will be displayed.
Save Settings and Quit
([S]Save & Quit)

Save set values and quit 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
- [A] Advanced Setup
- [V] View All Setting
- [S] Save & Quit
- [Q] Quit Unchanged

```
setup>s
All Connection will be disconnect.
Continue(y/n)?
Apply New Setting...Done.
```

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

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

```
setup>q
Quit Without Saving(y/n)?
Setting Unchanged.
```

1. Enter “q” and press the “Enter” key.
2. Enter “y” and press the “Enter” key.
Controlling 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 20.

**IP Address Setting ([1]IP Address)**

Setting of IP address.

```
setup>1
IP Address :192.168.150.2
Please Enter :192.168.150.3
(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
Subnet Mask :255.255.255.0
Please Enter :255.0.0.0
(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
Gateway Address :0.0.0.0
Please Enter :192.168.150.1
(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.

---

"0.0.0.0" means “Using no default gateway.”
Controlling the Projector Using RS-232C or Telnet

User Name Setting ([4]User Name)

Carrying out security protection using user name.

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.

Password Setting ([5]Password)

Carrying out security protection using password.

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 (COMPUTER and PROJECTOR) terminals.

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.

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”.

setup>4
User Name :
Pleas Enter : EIP-3500
(change) —> EIP-3500

setup>5
Password :
Pleas Enter : eiki3500
(change) —> eiki3500

setup>6
note: It sets both RS-232C (COMPUTER) and RS-232C (PROJECTOR) terminals.
0 ... 9600 bps
2 ... 115200 bps
Baud Rate Select[0, 2] :2
RS-232C Baud Rate : 115200 bps

setup>7
Projector Name : EIP-3500
Please Enter : MY EIP-3500
(change) —> MY EIP-3500
Controlling the Projector Using RS-232C or Telnet

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.

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.

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

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).

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.

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.

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 destination 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.


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.

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”.

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.
Controlling the Projector Using RS-232C or Telnet

### Setting of Search Port (ADVANCED[0]Search Port)
Sets the port number used when searching for the projector from the network.

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.

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.
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**
- The factory default setting of the network setting for 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 10.
Take the following steps for checking the network settings for the computer.

1. Open a command prompt (MS-DOS Prompt).
   • In the case of Windows® 98 or 98SE: click “START” ➔ “Programs” ➔ “MS-DOS Prompt” in order.
   • In the case of Windows® Me: click “START” ➔ “Programs” ➔ “Accessories” ➔ “MS-DOS Prompt” in order.
   • In the case of Windows® 2000: click “START” ➔ “Programs” ➔ “Accessories” ➔ “Command Prompt” in order.
   • In the case of Windows® XP: click “START” ➔ “All Programs” ➔ “Accessories” ➔ “Command Prompt” in order.

2. After launching the command prompt (MS-DOS Prompt), enter the command “ipconfig”, and press the “Enter” key.

   C:\>ipconfig

   ![Command Prompt window showing ipconfig results]

3. To return to the Windows® screen, enter “exit” 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.

   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.
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 (MS-DOS Prompt).
   • In the case of Windows® 98 or 98SE: click "START" ➔ "Programs" ➔ "MS-DOS Prompt" in order.
   • In the case of Windows® Me: click "START" ➔ "Programs" ➔ "Accessories" ➔ "MS-DOS Prompt" in order.
   • In the case of Windows® 2000: click "START" ➔ "Programs" ➔ "Accessories" ➔ "Command Prompt" in order.
   • In case of Windows® XP: click "START" ➔ "All Programs" ➔ "Accessories" ➔ "Command Prompt" in order.

2. After launching the command prompt (MS-DOS 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 “192.168.150.2”

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.

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

- Initialize the settings. (See page 61 of the projector’s operation manual.)
- After the initialization, carry out setting again.
Units: inches (mm)