EPSON®

Multipurpose Entertainment Projector

EMP-30

Setup Guide

1 **Before Using the Remote Control**

    Using the Remote Control

    Remote Control Operating Range
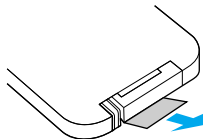
2 **Setup**

    Screen Size and Setting-up Distance

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3 **Connecting to a Video Source**

4 **Connecting to a Computer**

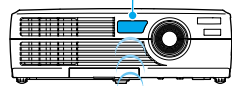**Before Using the Remote Control**

Using the Remote Control

When using the remote control for the first time, pull out the insulating tape that is protruding from the battery holder. When the insulating tape is pulled out, the remote control can then be used.

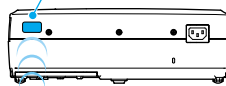The remote control is used in the following way.

Remote control light-receiving area (front)

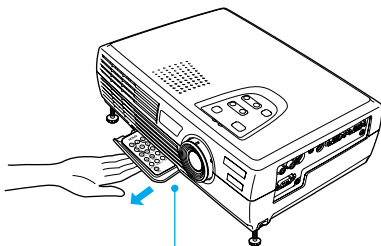Remote control light-receiving area (back)

Point the remote control light-emitting area toward one of the remote control light-receiving areas on the projector and operate the remote control buttons.

Remote control light-emitting area

Do not allow sunlight or light from fluorescent lamps to shine directly onto the projector's remote control light-receiving areas, otherwise it may interfere with the reception of signals from the remote control.
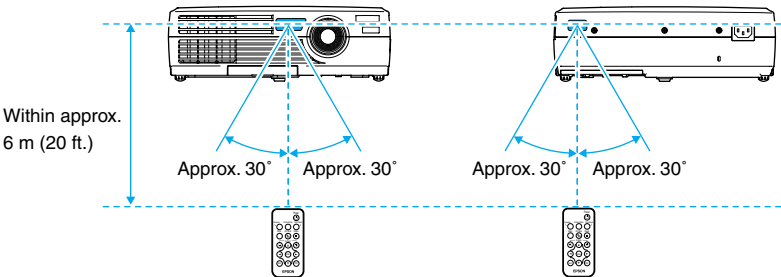
Storing the remote control

When not using the remote control, place it into the remote control holder underneath the projector so that it does not get lost.

Hook your fingers into the handle in the base of the remote control holder and pull straight out.
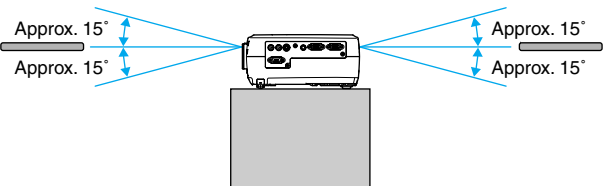
Remote Control Operating Range

Use the remote control within the ranges indicated below. If the distance or angle between the remote control and the remote control light-receiving area is outside the normal operating range, the remote control may not work.

Operating distance	Operating angle
Approx. 6 m (20 ft.)	Approx. ±30˚ horizontally Approx. ±15˚ vertically

Approx. ±30˚ horizontally

Within approx. 6 m (20 ft.)

Approx. 30˚ Approx. 30˚   Approx. 30˚ Approx. 30˚

Approx. ±15˚ vertically

Approx. 15˚   Approx. 15˚
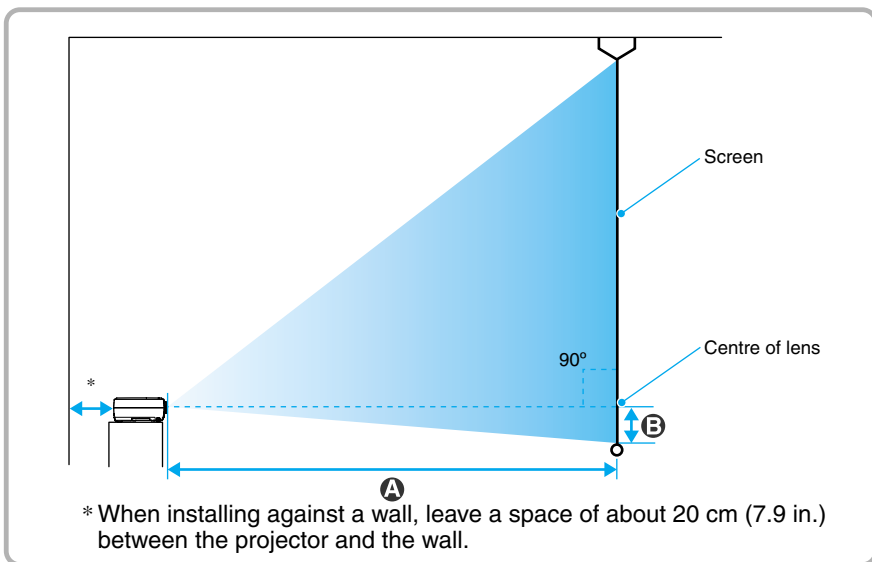Approx. 15˚   Approx. 15˚

Screen Size and Setting-up Distance

The distance between the projector and the screen determines the actual image size.

Recommended distance : 0.9 – 11.3 m (2.9 – 37.0 ft.)

While referring to the table below, position the projector so that the images are projected at the optimum size. The values should be used as a guide for setting up the projector. The actual values will vary depending on projection conditions and the zoom setting.

4:3 Screen size (cm (in.))	Projection distance Ⓐ (m (ft.))	Distance from center of lens to bottom edge of screen Ⓑ (cm (in.))
30" (61 × 46 (24.0 × 18.1))	0.9 – 1.1 (2.9 – 3.6)	4.3 (1.7)
40" (81 × 61 (31.9 × 24.0))	1.2 – 1.5 (3.9 – 4.8)	5.8 (2.3)
60" (120 × 90 (47.2 × 35.4)	1.8 – 2.2 (5.9 – 7.3)	8.6 (3.4)
80" (160 × 120 (63.0 × 47.2))	2.4 – 3.0 (7.9 – 9.8)	11.5 (4.5)
100" (200 × 150 (78.7 × 59.1))	3.0 – 3.7 (9.9 – 12.3)	14.4 (5.7)
200" (410 × 300 (161.4 × 118.1))	6.1 – 7.5 (19.9 – 24.6)	28.8 (11.3)
300" (610 × 460 (240.2 × 181.1))	9.1 – 11.3 (29.8 – 37.0)	43.1 (17.0)

Screen

Centre of lens

90º

Ⓑ

Ⓐ

* When installing against a wall, leave a space of about 20 cm (7.9 in.) between the projector and the wall.

The image size will be reduced when keystone correction is carried out.
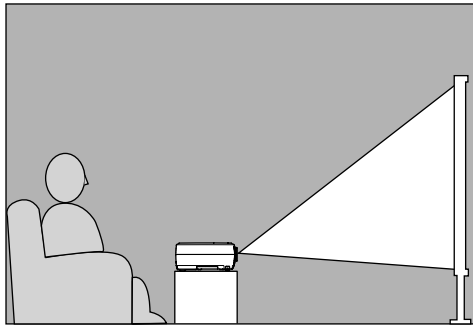
Setting-up Methods

The projector supports the following two different projection methods, allowing you to choose the best method for displaying your images.

After setting up the projector, refer to the *User's Guide* for details on turning on the power and adjusting settings such as the screen size. ("Basic Operations" in *User's Guide*)
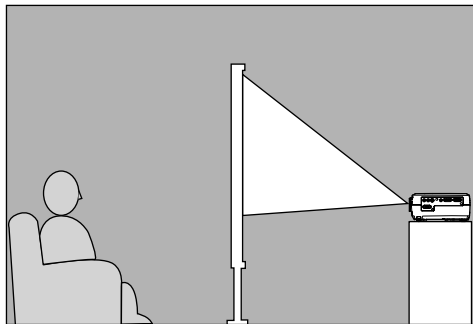
> ! Before setting up the projector, be sure to first read the separate *Safety Instructions/World-Wide Warranty Terms*.

Front projection

Rear projection using a translucent screen

> 💡 When using rear projection using a translucent screen, set the "Rear Proj." command in the "Advanced" menu to match the installation method. ("Advanced" menu in *User's Guide*)

⚠ When connecting the projector to other video sources, take the following precautions.
- Turn off the power for both the projector and the video source before connecting them. If the power for either device is on at the time of connection, damage may result.
- Check the shapes of the cable connectors and the device ports before making the connections. If you try to force a connector to fit a device port with a different shape or number of terminals, a malfunction or damage to the connector or port may result.
- If you select either port when image signals are being input from both the Video port and the S-Video port, unevenness may appear. Turn off the power for the video source that is not projected.

This manual and the separate *User's Guide* use the term "video equipment" to refer to devices such as the following that are equipped with video output ports.

- Video cassette decks
- DVD players
- RGB video equipment
- Game equipment
- Video cameras
- Laser disc players

The cable that is used to connect the video equipment to the projector varies according to the format of the video signals that are output from the video equipment. Some types of video equipment can also output video signals in several different formats. Generally, the quality of the video signal can be ranked in order from left to right as follows.
Component video format > S-Video format > Composite video format

You should refer to the documentation provided with the video equipment being used to check what types of video signal formats the equipment can output. The composite video format is sometimes simply called "video output".
The next pages describe the connection methods that should be used for each type of video signal that is output from video equipment.
Refer to "Appendices: Optional Accessories" in *User's Guide* for details on the optional cables used.

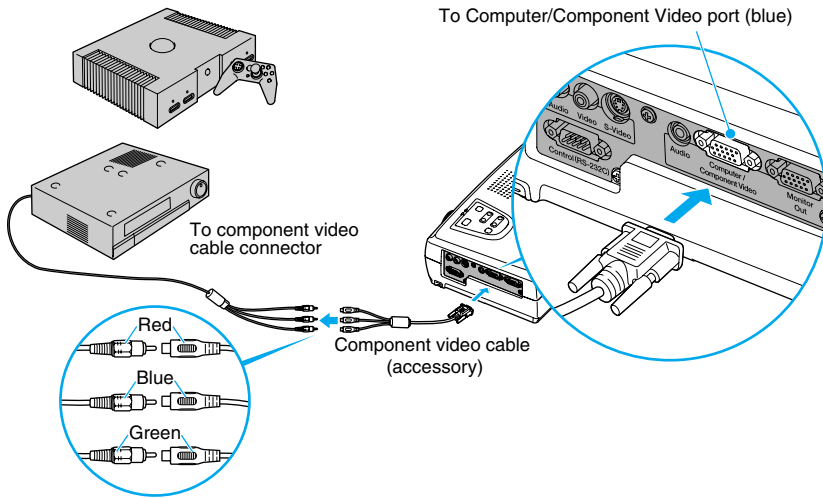> **Getting the best results when projecting movie images**
>
> This projector comes with an accessory EPSON cinema filter.
> When this filter is attached to the projector and the "EPSON Cinema Filter" command in the "Video" menu is set to "ON", images such as movie images are automatically adjusted to the optimum tint for viewing.
> For details on attaching the EPSON cinema filter and changing menu settings ("Using the EPSON Cinema Filter" in *User's Guide*)
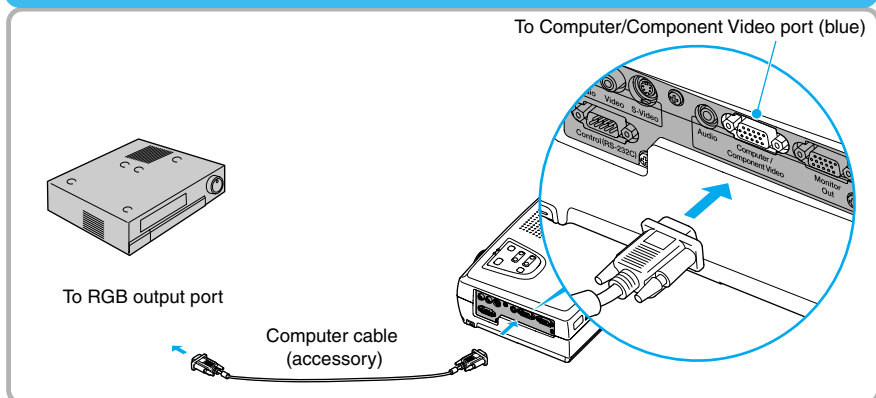
Projecting Component Video Images

If the shape of the connector for the accessory or optional component video cable for the video equipment is a 3RCA male connector

To Computer/Component Video port (blue)

To component video cable connector

Red

Blue

Green
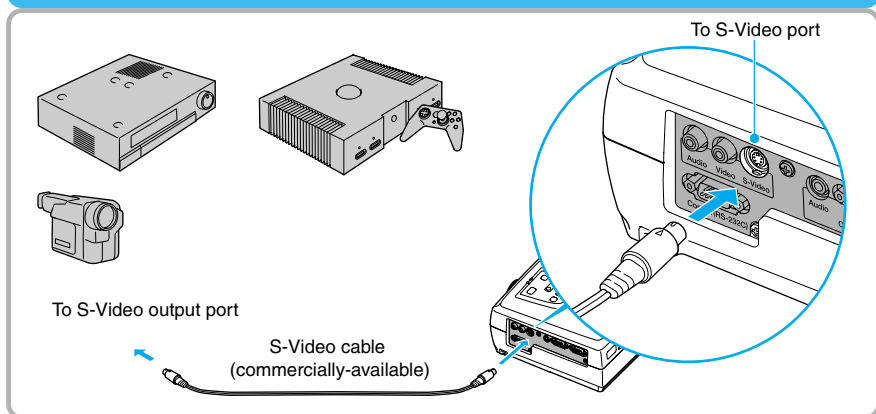
Component video cable (accessory)

- After projection starts, change the "Input Signal" setting in the "Video" menu to either "YCbCr" or "YPbPr" to match the signals from the video equipment. ("Video" menu in *User's Guide*)
- If more than one external component is connected to the projector, use the [Source] button on the projector's control panel or the [Computer] button on the remote control to set the input source to "YCbCr " or "YPbPr ", depending on the type of signal being input. ("Turning On the Projector" in *User's Guide*)

Projecting RGB Video Images

To Computer/Component Video port (blue)

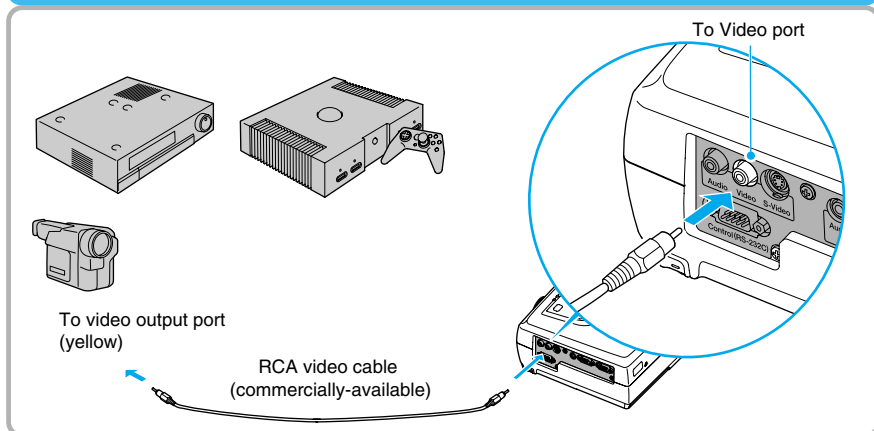To RGB output port

Computer cable
(accessory)

- Change the "Input Signal" setting in the "Video" menu to "RGB" after making the connections.
- For a RGB connection, a commercially available adapter or converter cable might be required.

Projecting S-Video Images

To S-Video port

To S-Video output port

S-Video cable
(commercially-available)

If more than one external component is connected to the projector, use the [Source] button on the projector's control panel or the [S-Video/Video] button on the remote control to select the S-Video port as the input source. ("Turning On the Projector" in *User's Guide*)

Projecting Composite Video Images

To Video port

To video output port
(yellow)
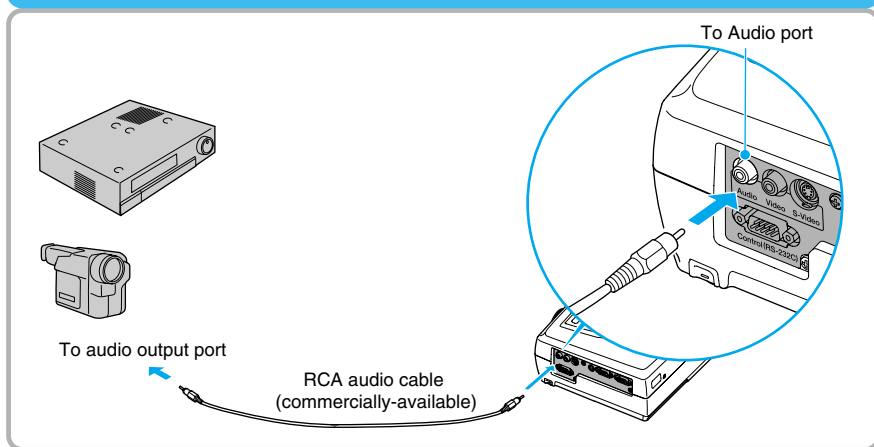
RCA video cable
(commercially-available)

If more than one external component is connected to the projector,
use the [Source] button on the projector's control panel or the [S-
Video/Video] button on the remote control to select the Video port as
the input source. ("Turning On the Projector" in *User's Guide*)

Playing Sound from the Video Equipment

To Audio port

To audio output port

RCA audio cable
(commercially-available)

To adjust the volume, use the "Volume" command in the "Audio"
menu. ("Audio" menu in *User's Guide*)

⚠ When connecting the projector to a computer, be sure to check the following.
- Turn off the power for both the projector and the computer before connecting them. If the power for either device is on at the time of connection, damage may result.
- Check the shapes of the cable connectors and the device ports before making the connections. If you try to force a connector to fit a device port with a different shape or number of terminals, damage to the connector or port may result.

The projector cannot be connected to some types of computer, or projection of images may not be possible even if actual connection is possible. Make sure that the computer you intend to use satisfies the conditions given below.

Condition 1: The computer must have an image signal output port.

Check that the computer has a port such as an "RGB port", "monitor port" or "CRT port" which can output image signals.

If the computer has a built-in monitor, or if using a laptop computer, it may not be possible to connect the computer to the projector, or alternatively you may need to purchase a separate external output port. Refer to the documentation for your computer under a heading such as "Connecting an external monitor" or similar for further details.
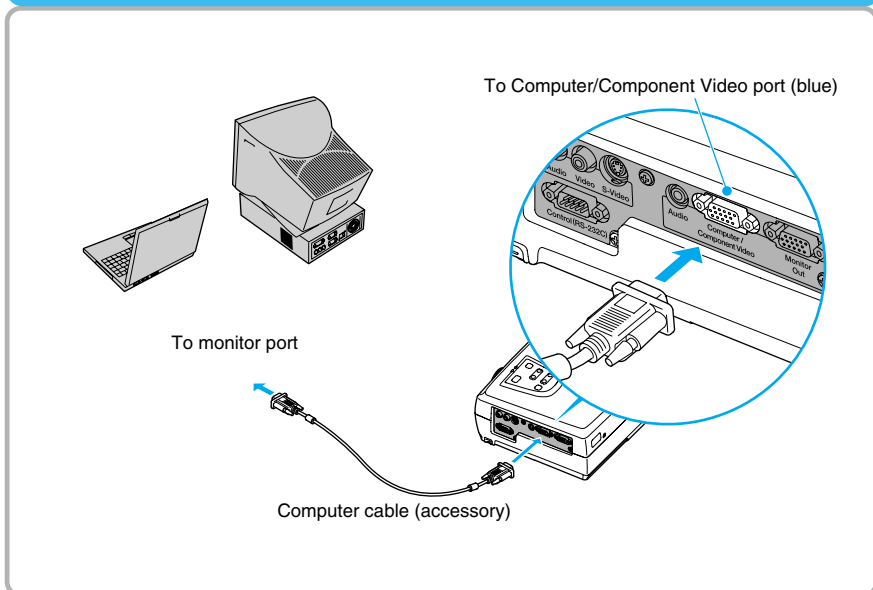
Condition 2: The display resolution and frequency of the computer must be listed in the "List of Supported Monitor Displays". ("Appendices: List of Supported Monitor Displays" in *User's Guide*)

Some computers allow you to change the output resolution, so if necessary, change the resolution to one that matches a setting in the "List of Supported Monitor Displays", while referring to the documentation provided with the computer.
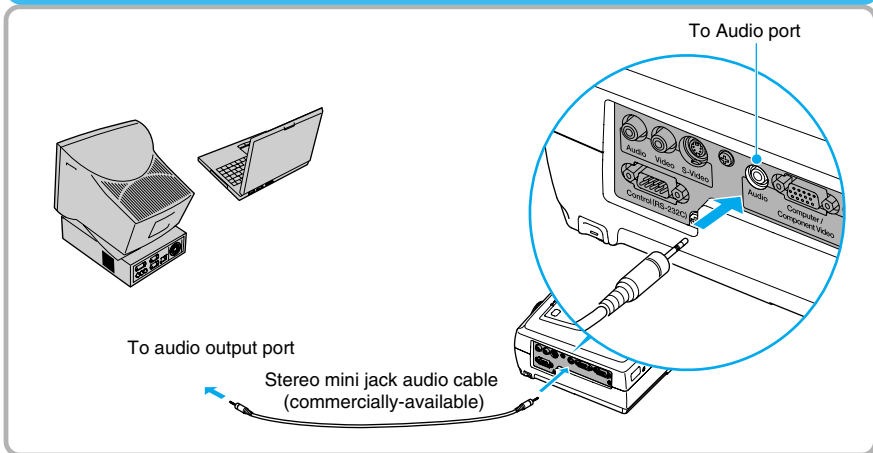
- You may need to purchase a separate adapter depending on the shape of the computer's port. Refer to the documentation provided with the computer for further details.
- If the computer and projector are too far away from each other for the accessory computer cable to reach, use the optional VGA-HD15 PC cable. ("Appendices: Optional Accessories" in *User's Guide*)

Projecting Images from the Computer

To Computer/Component Video port (blue)
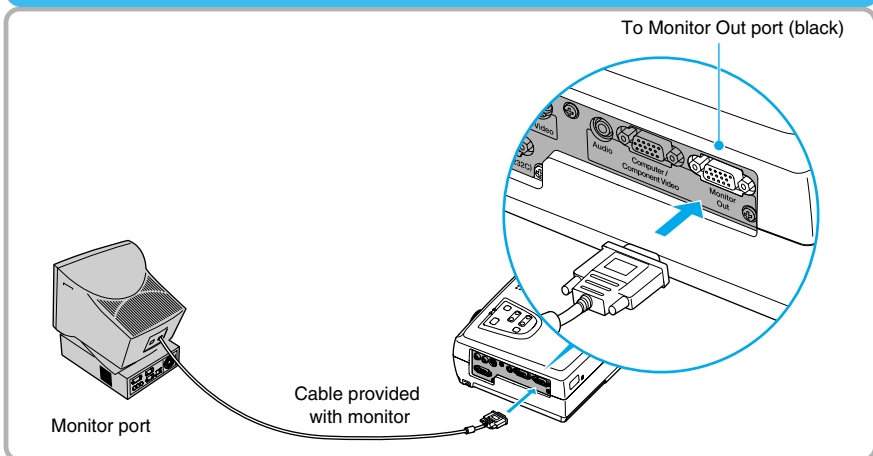
To monitor port

Computer cable (accessory)

● After projection starts, change the "Input Signal" setting in the "Video" menu to "RGB". ("Video" menu in *User's Guide*)

● If more than one external component is connected to the projector, use the [Source] button on the projector's control panel or the [Computer] button on the remote control to select the Computer port as the input source. ("Turning On the Projector" in *User's Guide*)

● Do not bind the power cable and the computer cable together, otherwise image interference or errors in operation may result.

Playing Sound from the Computer

To Audio port

To audio output port

Stereo mini jack audio cable
(commercially-available)

To adjust the volume, use the "Volume" command in the "Audio"
menu. ("Audio" menu in *User's Guide*)

Connecting to an External Monitor

To Monitor Out port (black)

Cable provided
with monitor

Monitor port

• Video images cannot be output to an external monitor.
• The setting gauge for keystone correction and the configuration
  menus and help menus are not output to the external monitor.