

 A&D-3D
best View
ADF-5000

Installation and Operation Guide



Date: Nov. 27, 2013

A&D 3D_Analog and Digital 3D

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SAFETY INSTRUCTIONS

bestView ADF-5000 installs onto existing equipment; please follow all directives from the projector manufacturer in addition to the following safety guidelines.

This equipment is intended for use in a restricted access location. Before installing or operating your bestView ADF-5000, please read this manual thoroughly, and retain it for future reference.

All instructions for operating and use of this equipment should be followed precisely. And preliminary adjustments should be performed by qualified A&D 3D personnel or authorized Installation A&D 3D service dealers.



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To avoid any damage :

- ❖ The rated voltage of ADF-5000 is AC 110 ~ 240V or DC 24 ~ 26V.
Serious problems can occur if the power isn't properly supplied.
- ❖ The bestView ADF-5000 should be placed on proper distance from projector.

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1. Overview

bestView ADF-5000 Technology Highlights

Automatic 2D to 3D changeover

Newly developed technology makes Cinema 3D system much easier. ADF-5000 works Automatically, detecting whether video signal is 3D or not. When, a movie signal is 2D, LCD panel go down and go up onto 3D by itself.

Various projector compatibility

bestView ADF-5000 system fits on digital projectors from most major manufacturers. Including Christie CP2000; BARCO D-Cine premiere DP1500 and DP2000; and NEC NC1600 and NC2500. For support of other projector models, please contact A&D 3D.

Easy installation and removal

ADF-5000 can be added to and removed very easily from projection room equipment.

Low Maintenance cost.

ADF-5000 has longer life with automatic control and use inexpensive circular polarized 3D glasses.

About This Manual

This manual provides instructions for setting the optical alignment of the ADF- 5000, along with recommended daily operation procedures for running a digital projector when ADF-5000 system is installed. Please use this guide in conjunction with the user manual and installation instructions for your projector; all warnings, guidelines, and advisories in the projector's user manual.

- Identification of the components of the bestView ADF-5000 System
- Instructions on cleaning and maintaining the bestView ADF-5000.
- Appendices detailing projector-specific installation hardware and procedures.

1-1. bestView ADF-5000 Requirements

When running the bestView ADF-5000 system

Several important requirements for optimum 3D projection must be met. The following equipment is required for proper functioning of the A&D 3D cinema system. Please contact your A&D 3D representative for a list of approved vendors.

Projector

Any DLP-based cinema projector with EFIB and version 10.0 or higher TI Soft-ware, with:

- **Lamp:** 2.0 KW to 6.5 KW

Server

3D enabled DCI compliant server. Currently, Dolby, Doremi, GDC, and Kodak digital cinema servers satisfy this requirement. Note that the server may require its own rack, depending on booth configuration.

Projection screen

Silver screen size: unlimited, depending on projector model and lamp type.

Projection booth

Space: ADF-5000 system is attached in front of DCP on ceiling. So, extra space is unnecessary for standing.

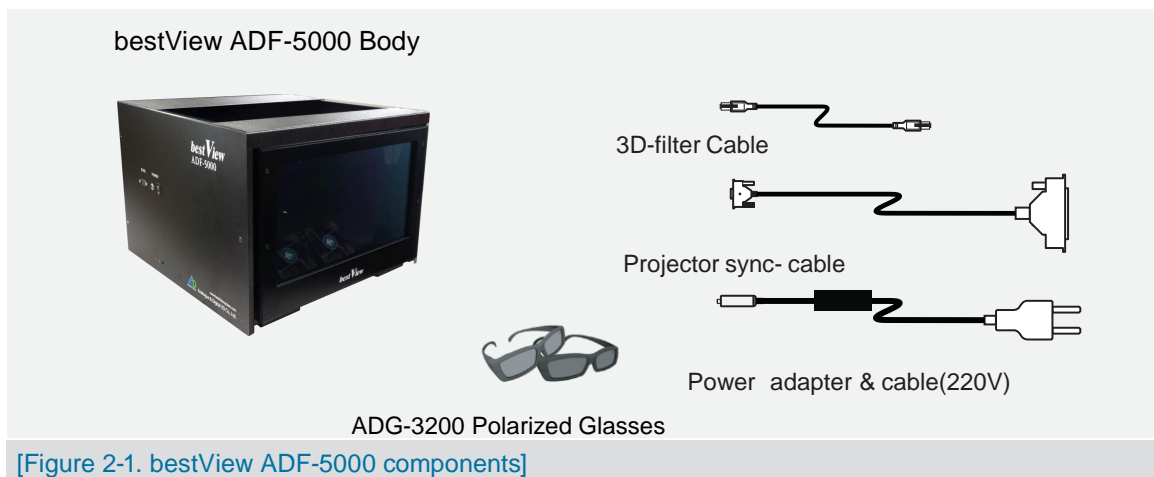
3D Glasses

Only circular polarized 3D glasses work with ADF-5000 system. ADG-3200 would be match with ADF-5000 for clear 3D effect and performance.

2. bestView ADF-5000

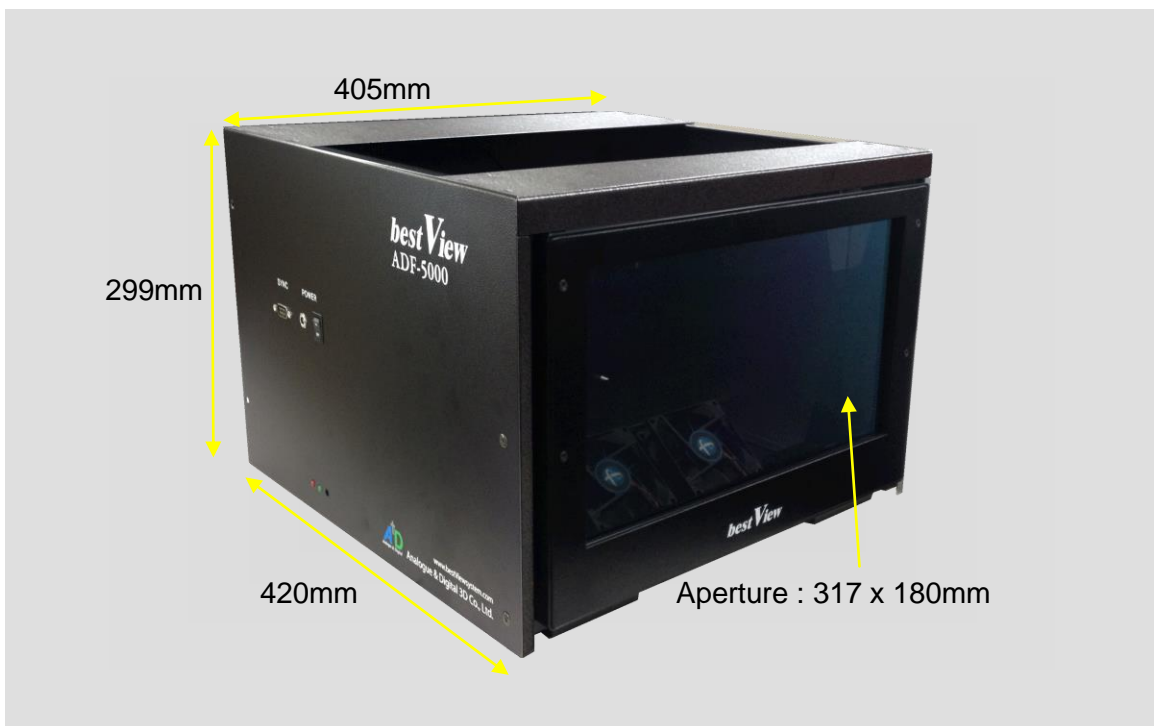
2-1. bestView ADF-5000 Package

- ① bestView ADF-5000 body
- ② 3D-Filter cable
- ③ Projector sync-cable
- ④ Power adapter & cable(220V)
- ⑤ ADG-3200 Polarized Glasses



[Figure 2-1. bestView ADF-5000 components]

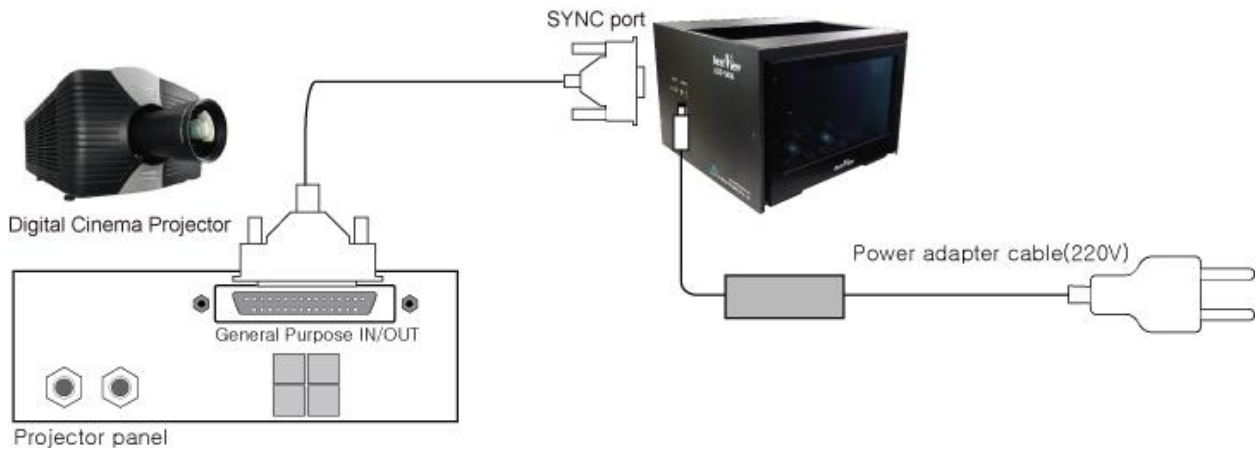
2-1-1. bestView ADF-5000 measurement



[Figure 2-2. bestView ADF-5000 measurement]

2-2. bestView ADF-5000 Connecting Cables

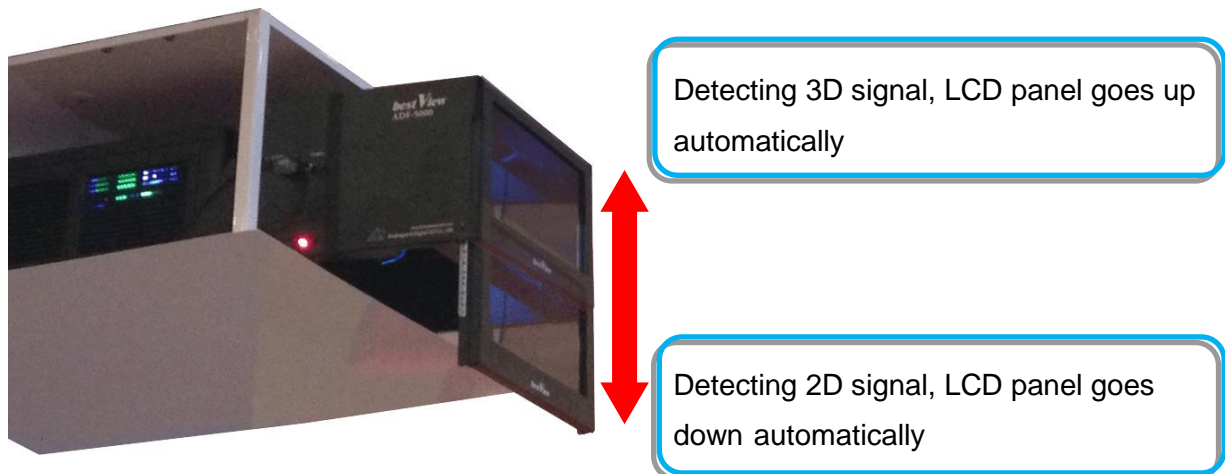
The below Figure 2-3 illustrates the connection cables used to wire the bestView ADF- 5000 components to your projection system. Synchronous cable connects to the GPIO port of the projector. It's very simple connection why ADF-5000 has totally automatic 3D changeover and frame setting function.



[Figure 2-3. Connecting cables]

2-3. bestView ADF-5000 LCD Panel

The LCD panel work automatically, detecting whether video signal is 3D or not by itself. When a video signal is 2D, LCD Panel go down and go up onto 3D automatically.



[Figure 2-4. bestView ADF-5000 operation]



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❖ Please never touch the filter surface with bare hands.

2-4. ADG-3200 3D Glasses for 3D-Filtering Test

Circular polarized glasses utilize circular polarization technology to provide a realistic, full color 3D image. 3D-glasses are disposable and are distributed to the audience. The audience must wear the glasses to see the 3D image.



[Figure 2-5. Circular polarized glasses ADG-3200]

Only ADG-3200 3D-glasses will work with bestView ADF-5000 presentation. The audience cannot use just any pair of glasses.

The polarizing filters in the glasses must match the polarization of the presentation for an optimum 3D effect.

Specification

Polarization rate: 99.9%

Transmittance: 42%

Dimension of lenses: 58mm x 34mm

Shape of glasses arm: Curved



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- ❖ PLEASE DO NOT WEAR 3D-GLASSES OUTSIDE.
 - Polarized filters are NOT the same as lenses used in sunglasses.

3. bestView ADF-5000 Setup & Operation

The procedure in this section will help installers and projectionists (1) to attach the 3D filter onto projector. (2) to set up and test 3D presentation.

3-1. Installation of bestView ADF-5000



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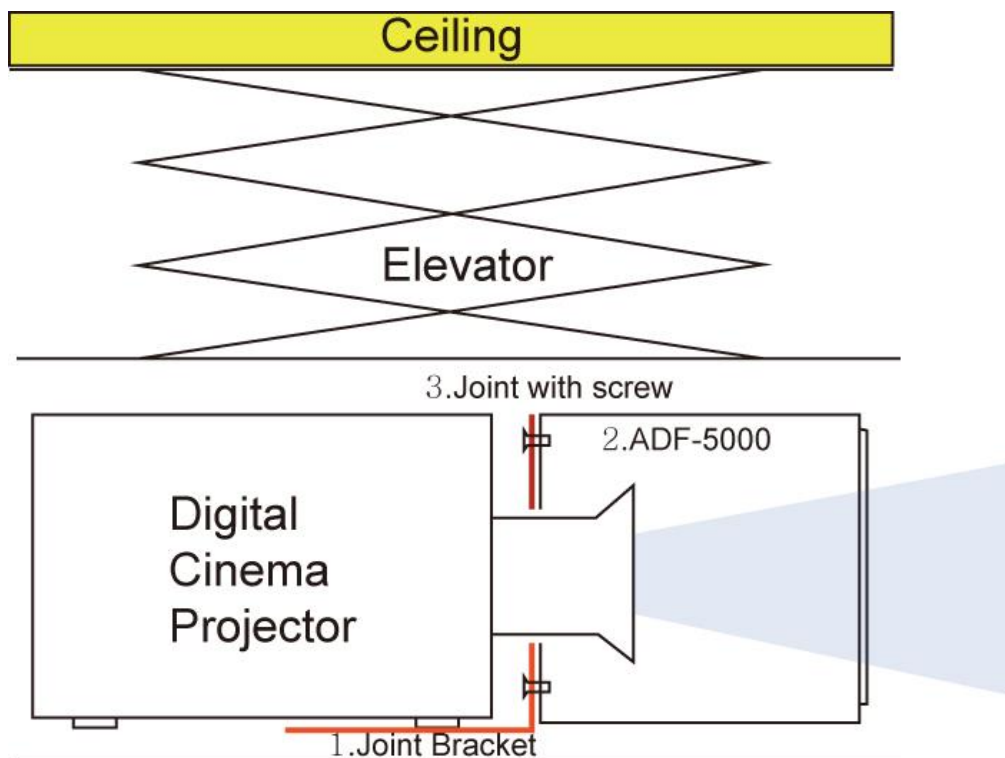


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- ❖ Before going ahead with the installation, please carefully read the previous instructions.
- ❖ Prepare proper space for installing the system between the projector and bestView ADF-3000.

When installers set up projector and bestView ADF-5000 on the ceiling, the bestView must be located in front of joint bracket which is attached to projector.

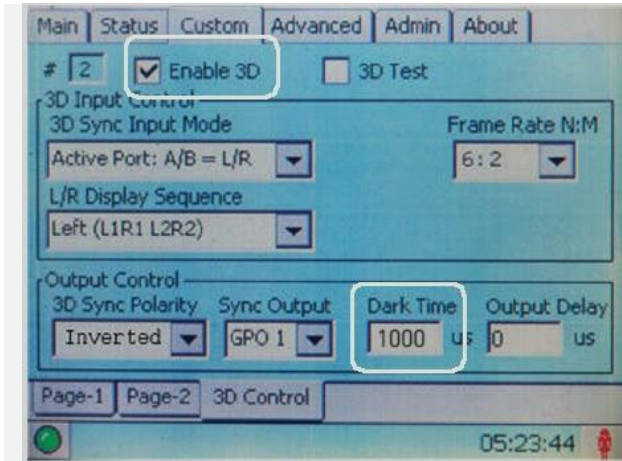


[Figure 3-1. bestView ADF-5000 Joint structure]

- ① Joint Bracket
 - Please locate attached joint bracket under the projector.
- ② ADF-5000
 - Please locate bestView ADF-5000 in front of joint bracket.
- ③ Joint with screw
 - Using the screw, please join between ADF-5000 and bracket.

3-2. Setting the Projector

3D sync polarity depends on the settings of server and projector.



[Figure 3-2. Christie CP2000, 3D-set-up UI]

1. Connect HD projector to 3D server and operate. (Please refer to the manual for more information.)
2. Upload the film, finish all the steps and be ready to push the “play” button on the server. (Projector is in the process of 3D sync signal output.)
3. Set up the 3D mode on the HD projector.
4. Recommended dark time setting is 400 μ s.

3-3. Start and Ending Film

3-3-1. Starting

1. Set up the server and projector in waiting mode. Just push the "play" button, then the 3D film will begin to operate.
2. Check the USB cable connection.
3. Turn the power on using the power button on the setting panel. Then you will see the red LED on. Start the 3D film by pushing the play button on the digital server.
4. If L/R shows reverted on the projector, use the L/R button to correct the problem.

3-3-2. Ending Film

1. End the operation of HD projector and 3D server. (Refer to the projector and server manual for more information.)
2. Push the power off button. 3D-filter will stop operating.

4. OHTERS

4-1. Trouble Shooting

ISSUE	CAUSE	RESOLUTION
Blurry picture, Low contrast, "soft" image	Projection lens is out of focus	Focus projection lens
	Fingerprints or other blemishes on projection lens or 3D-filter	Clean projection lens and 3D-filter
Doesn't look "3D"	Improper projector parameters	Use proper projector parameters
	bestView ADF-5000 is not plugged	Check the cable connection
	Sync cable was not connected between projector and bestView ADF-5000	
	Power supply isn't enough	
Image is "too dark"	Projector lamp has low output, is set at too low a setting, or is not properly sized	Change lamp setting, and/or lamp
ADG-3200 3D-glasses aren't working	Cinema server is not sending signal correctly to projector bestView ADF-5000 is not connected	Check the Power cable connection Check the Sync cable connection
I see 3D, but it just looks wrong	L/R phase was reversed on projector	Push the L/R Button
Misaligned image	3D-filter is not faced perpendicularly with projector	Adjust distance and focus between projector lens and 3D-filter Focus of the lens on projector
Flicker in Image	bestView ADF-5000 setting is incorrect	Turn off the power, start again from the first step.(Refer to the page.5, bestView ADF-5000 connecting cable)
	Content is not 3D	Check the Sync cable connection
	Projector power problem	Check the Sync Cable connection
	Frame rate isn't set-up properly	Set up the frame rate by 6:2 Set up the toggle switch by '144'
	Projector isn't set-up by 3D-mode	Set-up the projector by 3D-mode

4-2. Maintenance

A small amount of dust or dirt on 3D-filter has minimal effect on image quality. Clean 3D-filter only when dust, dirt, oil or other marks are obvious. When doing so, clean the glass according to the instructions in the following sections: Never touch the optical surfaces with bare hands.

Projection room port glass are specially treated with an optical anti-reflective coating. Always use a high-intensity flashlight to check 3D-filter for particles.

4-2-1. Cleaning Dust

Tools :

- Canned air, flashlight

Procedure :

- Use canned air to blow dust off 3D-filter. Use high intensity flashlight to check for smudges.

4-2-2. Fingerprints and Smudges

Tools :

- Microfiber cloth, flashlight

Procedure :

- Remove fingerprints or smudges from 3D-filter by rubbing firmly with microfiber cloth using linear or circular motions. Use high intensity flashlight to check for residue.

4-2-3. Resistant Residue

Tools:

- Microfiber cloth, anti-reflective glass lens cleaning solution, flashlight.

Procedure :

- Apply anti-reflective glass lens cleaning solution to microfiber cloth.
- Use high intensity flashlight to check for streaking.
- Use dry portion of microfiber cloth to remove streaking by rubbing gently in a circular motion.

4-2-4. If Your bestView ADF-5000 System is not Working Properly

- Please don't disassemble and repair ADF-5000 system.
- If operating errors occur abnormally, we will replace your product as the same new product.

4-3. Customer Support Center

Technical support : www.bestviewssystem.com.

Sales support : eric@andkr.co.kr