

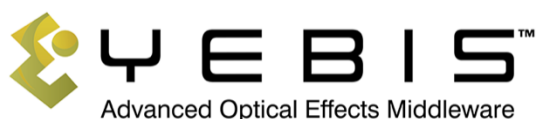
PRESS RELEASE

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**"Black Desert Online" remaster version features
"YEBIS" post effects from Silicon Studio with significant graphical results**

Tokyo, Japan, (Sep. 11, 2018) –Middleware technology and game development company, Silicon Studio Corporation is proud to announce that “Black Desert Online” remaster version from Pearl Abyss Corp. (South Korea) featuring “YEBIS” optical post effect middleware was released with significantly stunning graphical improvements.



"Black Desert" (<https://www.blackdesertonline.com/remastered>) is a high-end RPG with a seamless and vast world and some of the most realistic graphics available. The game attracts tens of thousands of players worldwide with a rich and advanced character creation system, various classes with unique skills performed with fluid realistic animation, and user friendly action based battles. Services are offered in 12 languages and in more than 150 countries/ regions including Korea, Japan, Russia, North America, Europe, Taiwan, South America, Turkey, Thailand, South East Asia and more. The deployment of the remastered graphics and sounds completed implementation on all global servers this August.

The representation of light by the fusion of Pearl Abyss technology and "YEBIS" is characteristic point of graphical remastering done in "Black Desert". Among the "YEBIS" functions implemented, glare and lens flares express dazzling images. Additionally the reflection of light upon various metallic surfaces such as weapons, armor, and equipment contribute heavily to the graphical upgrade.

Official quote from Pearl Abyss

Through our collaboration with Silicon Studio, we are able to realize more fantastical and realistic graphics, making it possible to provide a next level higher user experience. "YEBIS" is able to smoothly connect HDR and PBR environments, utilizing various optical effects and camera simulations, allowing us to diversely and extensively change and maximize the reality and glamor of the world of "Black Desert". It was easy to adjust the quality and performance, and we were able to smoothly set the settings suitable for each platform. Most

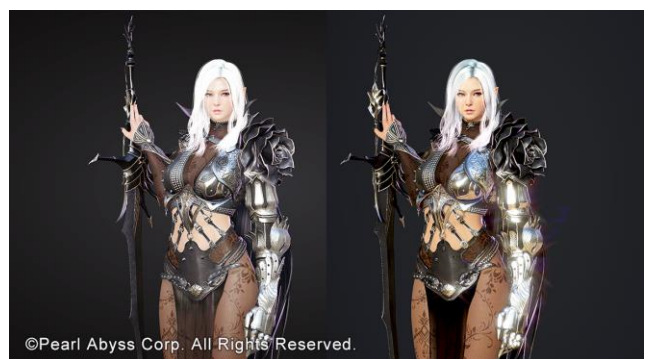
of all, the quality of post-processing itself was much more impressive than other realizations making the decision to use "YEBIS" a crucial one.

Go Gwanghyeon
Lead Programmer, Pearl Abyss Corp.

Example of YEBIS usage in the Black Desert Online Remastered version



Remastered Before (left) and After (right)



About "YEBIS"

YEBIS is the advanced optical effects middleware from Silicon Studio that accurately delivers camera lenses effects such as bokeh, depth of field and glare. YEBIS simulates an actual camera lens to recreate the most realistic and accurate optical effects.

YEBIS is available for the following platforms:



Playstation®4, PlayStation®VR, Playstation®3, PlayStation®Vita, Xbox One, Xbox 360, Windows (DirectX 9/10/11), Nintendo Switch™, iOS, Android™

YEBIS Official Site

<https://www.siliconstudio.co.jp/middleware/yebis/en/>

Black Desert Online Overview

| | |
|------------------------------|---|
| Publisher / Service provider | (Taiwan, Turkey, Thailand, Southeast Asia) Pearl Abyss Corp. (Japan) GameOn Co., Ltd. (South Korea, USA, EU) kakaogames (Russia) GameNet (South America) RedFox |
| Developer | Pearl Abyss Corp. |
| Compatible Platform | Microsoft Windows |
| Genre | MMORPG |
| Official site | https://www.blackdesertonline.com/remastered |
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About Silicon Studio Corporation

Silicon Studio, a Japan-based game engine and middleware company, develops and provides advanced technologies such as "YEBIS" post effects, "Enlighten" real-time global illumination, and "Mizuchi" real-time rendering to major game and entertainment production studios worldwide. These technologies have helped to bring high quality graphics to a large number of successful AAA titles.

* YEBIS is a trademark of Silicon Studio Corporation.

* "PlayStation" is a registered trademark of Sony Interactive Entertainment Inc.

* All other names and trademarks mentioned are the registered trademarks and property of the respective companies.