

INSTALL GUIDE

SWING OPTIX™

for QED Refine/Succeed Users

UNEEKOR

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0.1 INCLUDED ITEMS

The following items are included in the package. Please make sure they are all present and accounted for.

USB 3.0 CABLE (2)



CAMERA (2)



CAMERA LENSE (2)



ACCESSORIES (2 sets)



NOTE:
If any part is missing,
please contact support.

0.2 CAMERA INSTALLATION

STEP ONE

Please find the camera, bracket, and the 4 screws that came with the package.

STEP TWO

Screw in the 4 screws through the bracket onto the camera.

STEP THREE

Attach the camera with the bracket to the tri pod stand. The camera will need to be rotated 90 degrees as shown in the photo. Attach the USB 3.0 power cable to the camera. It is recommended to tie the USB 3.0 power cable to one of the legs of the tri pod.

STEP FOUR

Connect the other end of the USB 3.0 power cable directly to a USB 3.0 port on your PC. Please confirm you see the light blinking next to the "Power" text on the cameras.

NOTE:

The cameras will heat up to 43 - 46 degree Celcius. This is normal operating temp.

STEP ONE



STEP TWO



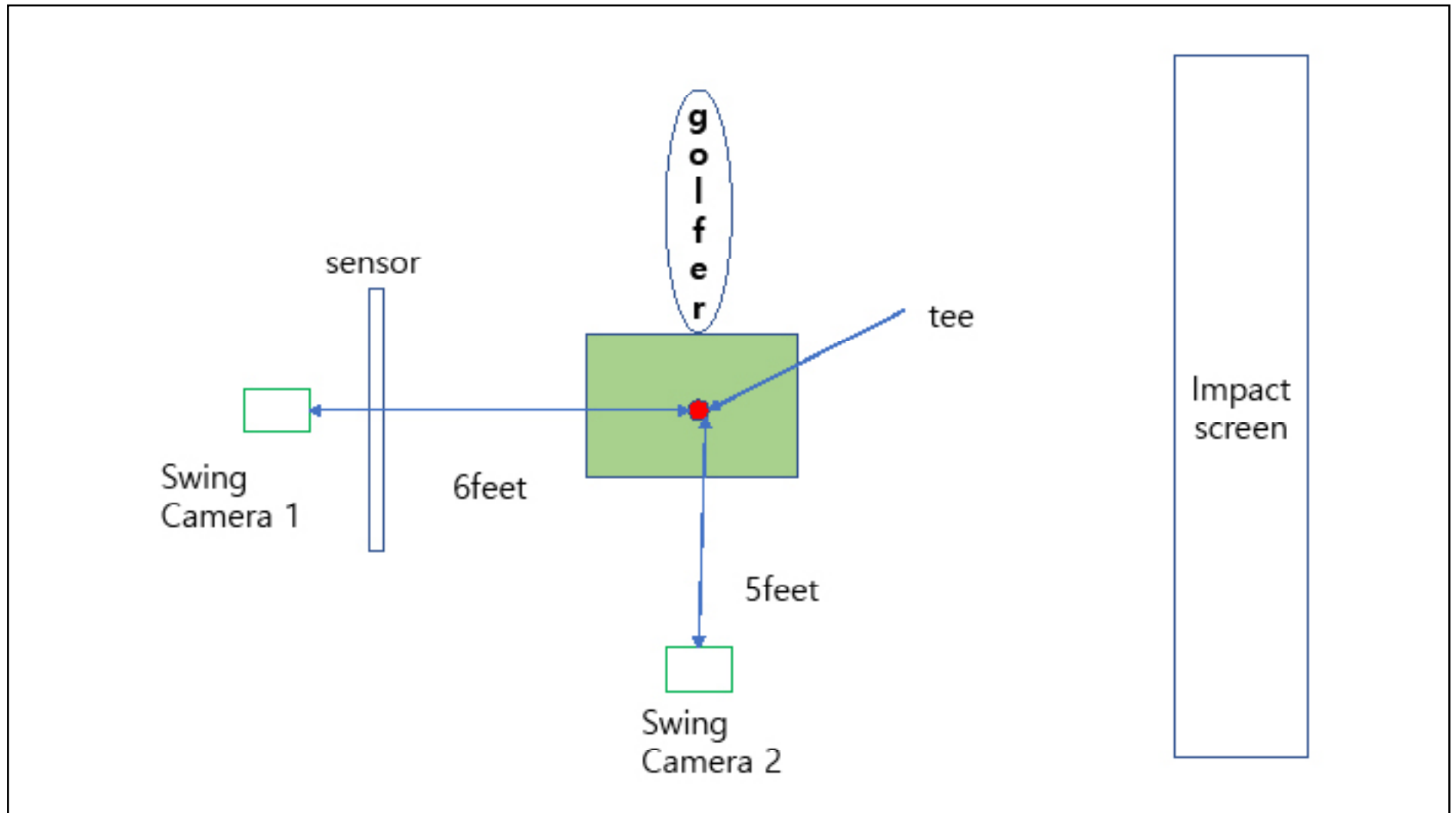
STEP THREE



STEP FOUR



0.2.1 CAMERA INSTALLATION



0.3.0 QED_IGNITE INSTALL

STEP ONE

Find and run the IgniteSO setup file. You will receive the setup file through email after purchasing. Once the setup windows comes up, click the “NEXT>” button to proceed.

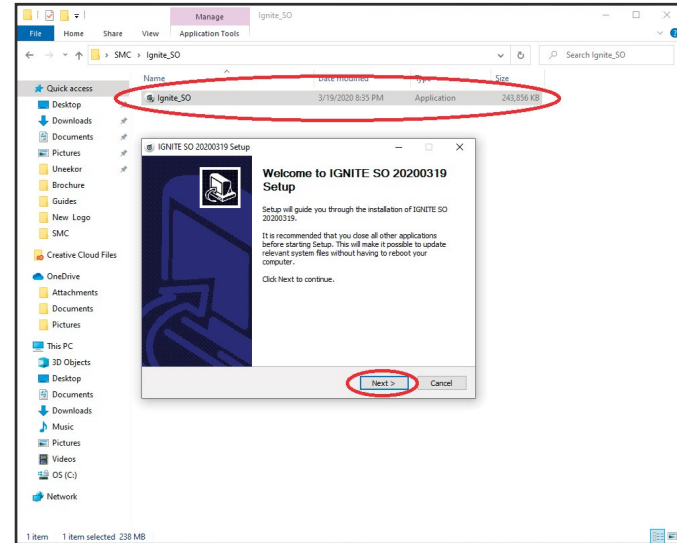
STEP TWO

In the next window, make sure the “Destination Folder” is selected to “C:\QED_IGNITE” and then click “NEXT>.”

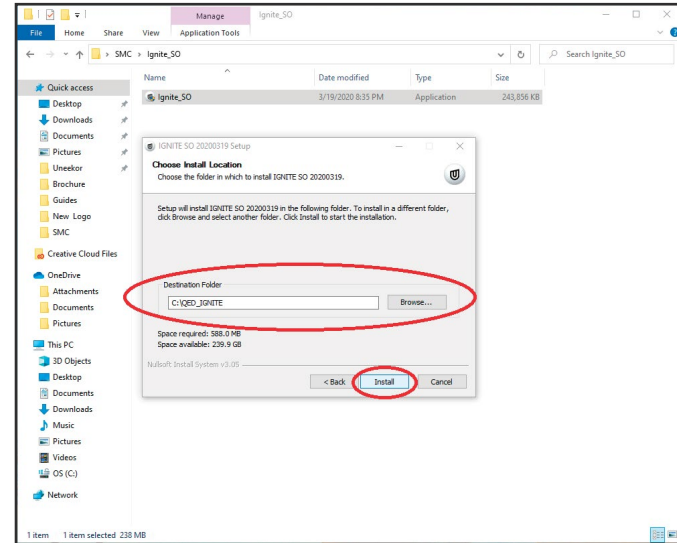
Once all the QED_IgniteSO files are installed, the “MVS” driver installer will appear. See next page for steps.

Install Link :
<http://bit.ly/qed-ignite>

STEP ONE



STEP TWO

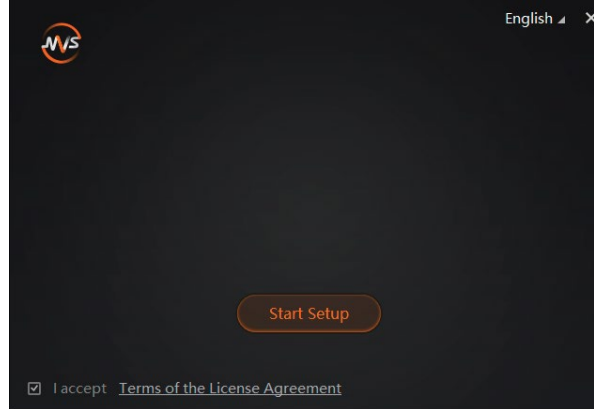


0.4.0 MVS DRIVER UPDATE

STEP ONE

Once the MVS Driver setup window appears, click the "Start Setup" button to proceed.

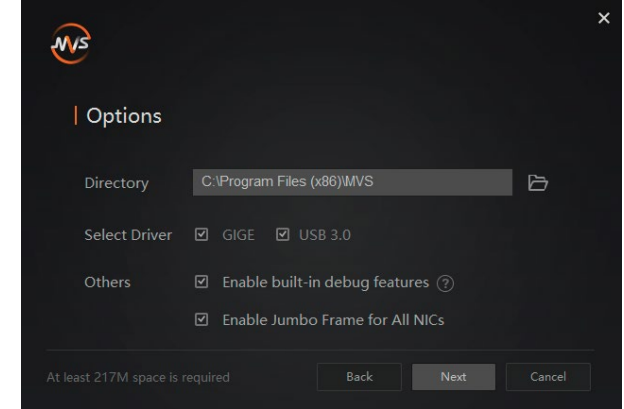
STEP ONE



STEP TWO

In the options window, confirm "C:\Program Files (x86)\MVS" is shown in the "Directory" and the other options are all checked. Then click the "Next" button.

STEP TWO



STEP THREE

The driver installation has initiated. Please wait several minutes for this process.

STEP THREE

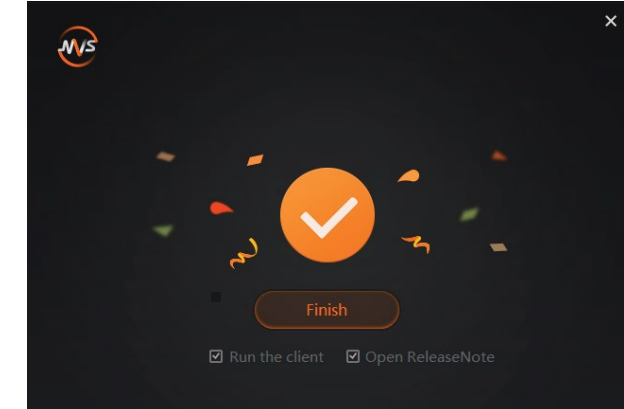


STEP FOUR

Once the installation process is complete, uncheck the "Run the Client" box and click "Finish."

At the end of the IgniteSO software install and MVS driver update, a window for "Activation" will appear. See next page for steps.

STEP FOUR



0.5 LICENSE AND ACTIVATION

STEP ONE

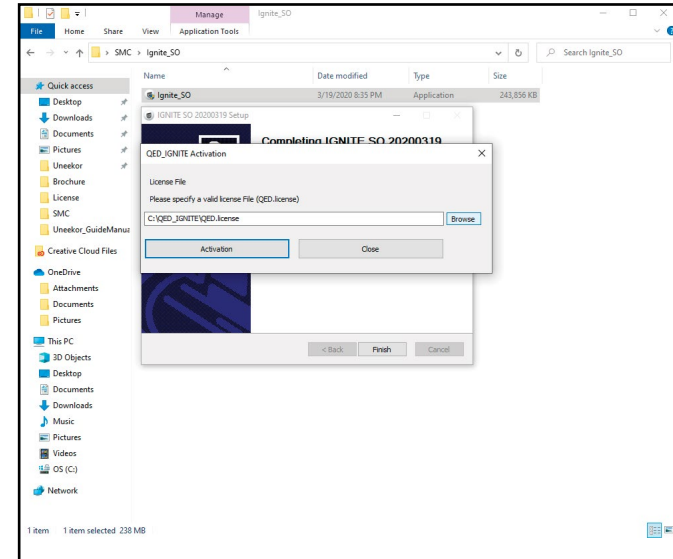
You will need to click the “Browse” button and search for the QED_3000XXXX license key file (you will receive the license key file along with tracking number after purchase).

STEP TWO

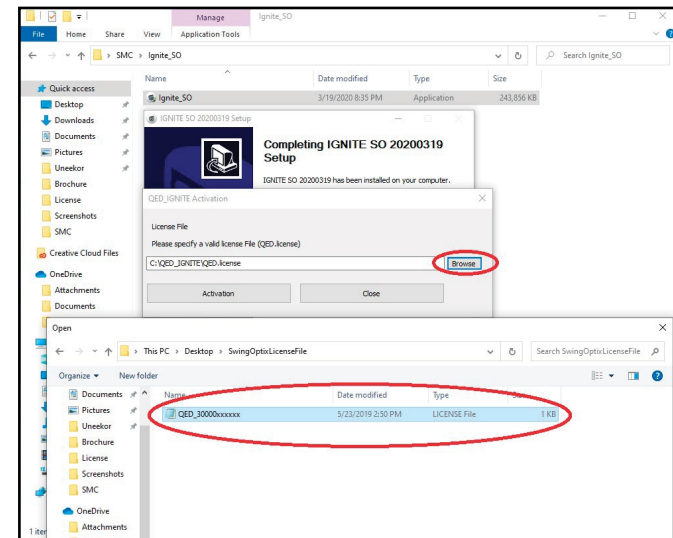
Once the license file has been found, click open and then click the “Activation” button to activate your license key. Please wait for the “Success” message for the activation to be complete.

NOTE :
It is important to have internet access for the Activation process.

STEP ONE



STEP TWO

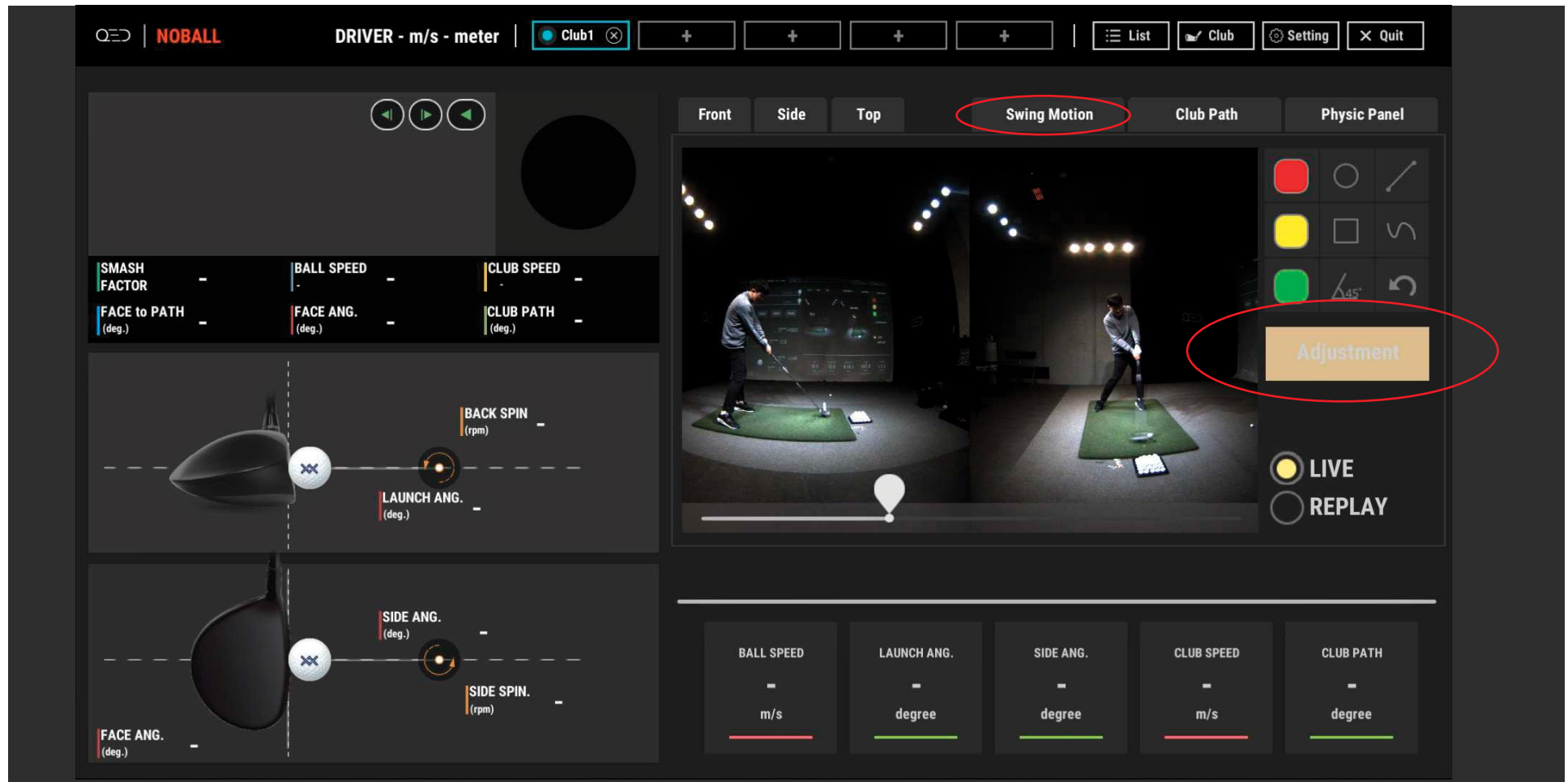


0.6.0 SWING OPTIX ADJUSTMENTS

STEP ONE

To adjust the camera exposure and gamma settings, click on the "Adjustment" button in the "Swing Motion" tab. There are 4 different modes for exposure and gamma settings.

Please make sure QED_IgniteSO software, MVS Driver update, and license activation has been completed before you proceed to "Adjustments." Find and run the QED_IgniteSO program.



0.6.1 SWING OPTIX ADJUSTMENTS

EASY 1

Exposure is set at 500 and Gamma is set at 0.6 for "Easy 1."
The blur of the club is minimal but the lighting will show up darkest in this mode.

The screenshot displays the Swing Optix software interface. At the top, it shows 'READY' and 'DRIVER - m/s - meter'. A 'Club1' selection menu is visible with four '+' buttons. On the right, there are buttons for 'List', 'Club', 'Setting', and 'Quit'. The main interface is divided into several sections:

- Settings:** Exposure is set to 500 and Gamma is set to 0.6. Below these are four buttons labeled 'Easy1', 'Easy2', 'Easy3', and 'Easy4'. The 'Easy1' button is circled in red.
- View Modes:** 'Front', 'Side', and 'Top' views are available. The 'Swing Motion' view is currently selected, showing a golfer in a dark room with a green mat and a ball.
- Physics Panel:** Contains various icons for analysis, including a red square, a yellow square, a green square, a 45-degree angle icon, and a refresh icon. Playback controls for 1/8, 1/2, and 1/1 are also present, along with 'LIVE' and 'REPLAY' buttons.
- Analysis Data:** Two diagrams show the club head and ball. The top diagram displays 'BACK SPIN (rpm) +1751' and 'LAUNCH ANG. (deg.) 7.8'. The bottom diagram displays 'SIDE SPIN. (rpm) +126', 'SIDE ANG. (deg.) L 2.5', and 'FACE ANG. (deg.) -3.0'.
- Summary Metrics:** A row of five boxes at the bottom shows: 'RUN 25.4 meter', 'LAUNCH ANG. 7.8 degree', 'SIDE TOTAL L 4.6 meter', 'TOTAL 233.9 meter', and 'SIDE ANG. L 2.5 degree'.



0.6.2 SWING OPTIX ADJUSTMENTS

EASY 2

Exposure is set at 700 and Gamma is set at 0.6 for "Easy 2."
There is a little bit of blur in the driver shots, but most irons shots will show minimal blur. Lighting is brighter than "Easy 1" mode.

The screenshot displays the Swing Optix software interface. At the top, it shows 'READY' status, 'DRIVER - m/s - meter', and a club selection menu with 'Club1' selected. The main interface is divided into several sections:

- Settings Panel (Left):** Features sliders for 'Exposure: 700' and 'Gamma: 0.6'. Below these are buttons for 'Easy1', 'Easy2' (highlighted with a red circle), 'Easy3', and 'Easy4'.
- Video Feed (Center):** Shows a golfer in a dark room with a large screen in the background. The video is currently in 'LIVE' mode, as indicated by the 'LIVE' button being selected over 'REPLAY'. The video feed includes a 'Physic Panel' with various icons for analysis and playback controls (1/8, 1/2, 1/1).
- Data Summary Panel (Bottom):** Displays key performance indicators: RUN 18.1 meter, LAUNCH ANG. 13.8 degree, SIDE TOTAL R 29.2 meter, TOTAL 268.7 meter, and SIDE ANG. R 2.0 degree.

0.6.3 SWING OPTIX ADJUSTMENTS

EASY 3

Exposure is set at 700 and Gamma is set at 0.6 for “Easy 2.”
There is a little bit of blur in the driver shots, but most irons shots will show minimal blur. Lighting is brighter than “Easy 1” mode.

NOBALL DRIVER - m/s - meter | Club1

Exposure: 1500
Gamma: 0.6

Easy1 Easy2 **Easy3** Easy4

Front Side Top Swing Motion Club Path Physic Panel

BACK SPIN (rpm) +1803
LAUNCH ANG. (deg.) 12.8

FACE ANG. (deg.) -1.3
SIDE SPIN. (rpm) +344
SIDE ANG. (deg.) L 1.3

RUN 18.0 meter
LAUNCH ANG. 12.8 degree
SIDE TOTAL R 14.1 meter
TOTAL 267.9 meter
SIDE ANG. L 1.3 degree

0.6.4 SWING OPTIX ADJUSTMENTS

EASY 4

Exposure is set at 3000 and Gamma is set at 1.5.
The lighting will look brightest in this mode. Due to increasing the exposure and gamma to this level, some blurring of the club will occur.
The frames per second also decreases in this mode.

The screenshot displays the Swing Optix software interface. At the top, it shows 'NOBALL' and 'DRIVER - m/s - meter'. The 'Club1' selection is highlighted. The interface is divided into several sections:

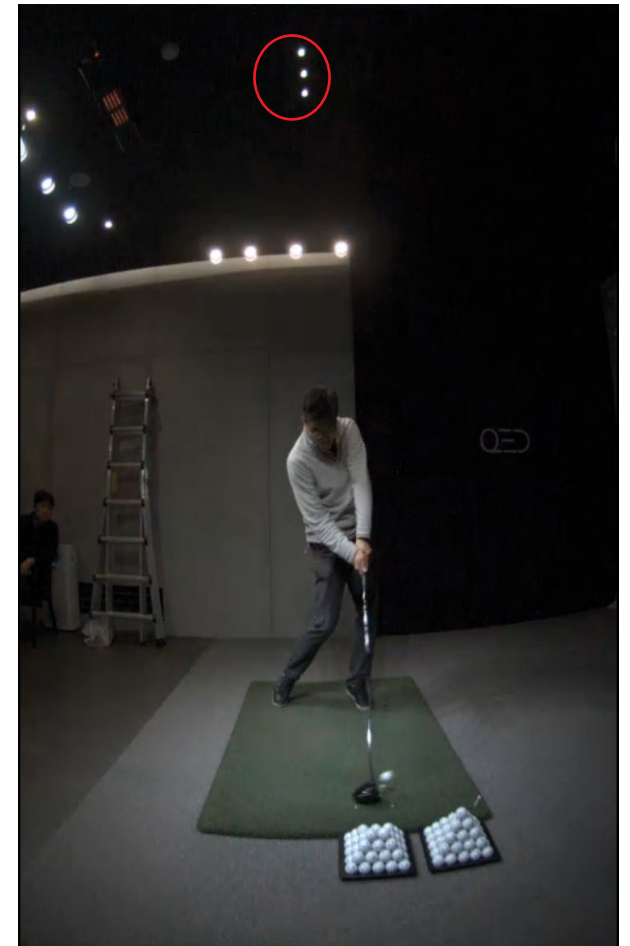
- Settings:** Exposure is set to 3000 and Gamma is set to 1.5. The 'Easy4' mode is selected and circled in red.
- View Modes:** Front, Side, Top, Swing Motion, Club Path, and Physic Panel. 'Swing Motion' is currently active.
- Analysis Data:**
 - BACK SPIN (rpm): +2145
 - LAUNCH ANG. (deg.): 14.9
 - FACE ANG. (deg.): 0.4
 - SIDE ANG. (deg.): R 0.4
 - SIDE SPIN. (rpm): +712
- Performance Metrics:**
 - RUN: 14.2 meter
 - LAUNCH ANG.: 14.9 degree
 - SIDE TOTAL: R 40.8 meter
 - TOTAL: 265.7 meter
 - SIDE ANG.: R 0.4 degree
- Controls:** Includes a 'List' button, 'Club' selection, 'Setting', and 'Quit' buttons. Playback controls for 'LIVE' and 'REPLAY' are also present.



0.7 LIGHTING ENVIRONMENT

Besides your normal background room lighting, additional lighting is required to optimize the Swing Optix. It is recommended to add a minimum of 8 15W or higher, non flickering LED light bulbs on a track rail with fixtures. This will help with exposure and eliminating blurring of the club.

Ex: 11 non flickering LEDs were used in the environment below.



0.7.1 LIGHTING ENVIRONMENT

LED Bulb Recommendations

#	Brand	Where to Buy?	Model	LED Wattage	Wattage Rep.	Lumens	Light Appear.	Dimmable
1	Philips	Amazon	5967531U0	8.5W	65W	750	2700K	Y
2	Philips	Amazon	9290023277	8.5W	60W	800	2700K	Y
3	Philips	Amazon	9290011531A	7W	N/A	500	2700K	Y
4	Philips	Amazon	9290013221	10W	75W	850	3000K	Y
5	Touchstar	Amazon	PAR30S	12W	75W	840	3000K	Y

Note: The LED bulbs on this list have been tested with Uneekor Swing Optix cameras under a 15' x 10' enclosure using Uneekor QED and EYE XO hardware. These bulbs demonstrated minimal flickering during operation to not impede Swing Optix cameras performance. If you're still experiencing issues with the selected bulbs on this list, please contact support@uneekor.com for further assistance. Thank you.

Projectors

The following compatible projectors have been approved by Uneekor to function properly with Swing Optix cameras. If you experience issues with the selected projector(s) on this list, please contact support@uneekor.com for further assistance. Thank you.

Compatible Models	Type	Lumens	Throw Ratio
Panasonic PT-VZ590U	WUXGA 3LCD	5000	1.09 - 1.77:1

NOT Compatible

BenQ MH530FHD

BenQ LK953ST

BenQ LK953ST

Optoma ZU606TST-W

ViewSonic PR08800WUL



POWER FOR EVERY GOLFER

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