

RyngDyng[©]

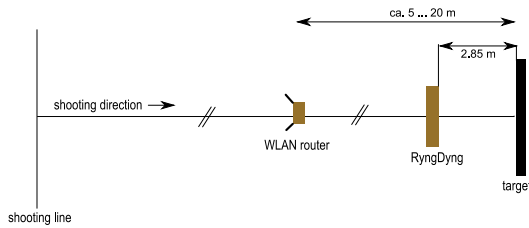
A short manual for installation and operation

A more explicit manual is provided here
<https://www.archery-analytics.com/en/public/downloads>.

1. Positioning of RyngDyng

Place RyngDyng at a distance of 3 m (= 3.3 yd. = 3 x length of case) on the ground. The distance is measured between the case and the foot point of the target center.

If the shooting distance is over 50 m (55 yd.), the reach of the Wi-Fi network can be extended if you place the router about 15 m (16 yd.) from RyngDyng and in direction to the shooting line. For a maximum reach, place the router 1 – 2 m (3-6 yd.) above ground.



2. Start the RyngDyngApp

Install and start the RyngDyngApp on your device. In order to get the full functionality of the app, it is important you have a personal account at www.archery-analytics.com and to enter the login and password also in the app. Installation of the app is most easily done by scanning the QR Code. Detailed information regarding all functions of the RyngDyngApp can be found here:
<https://www.archery-analytics.com/en/public/ryngdyng/app>



3. Power supply

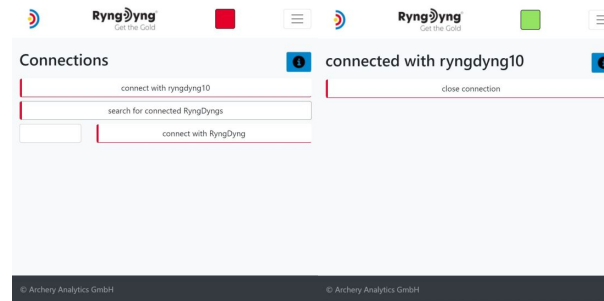
First power on the WLAN router using the USB charger or a USB power bank. As soon as the Wi-Fi network is on, the red LED lights up. Now you can power on RD600 by connecting the red cable with the USB charger or with a USB-C power bank. RD720 has got a dedicated power supply. During boot up, RyngDyng will automatically connect to the Wi-Fi network.

4. Connect RyngDyngApp and RyngDyng

Hook up your device to the Wi-Fi network (SSID: RyngDyng, Password is provided with the router).

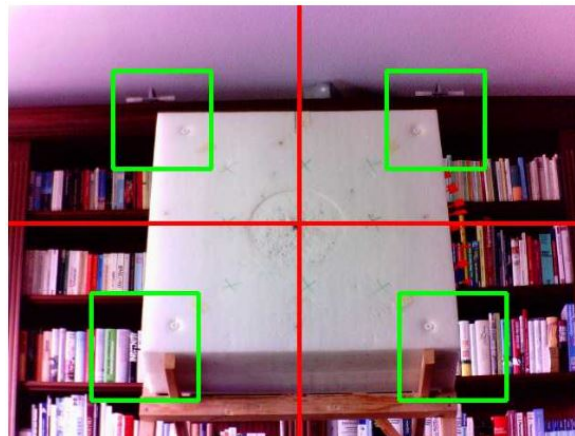
In the app, go to page 'Connections'. RyngDyngs connected to the network will be listed there. If not, try the button 'search for connected RyngDyngs'.

Press the button 'connect with ryngdyngxy'. As soon as the connection is established, the indicator turns from red to green:



5. Aligning RyngDyng

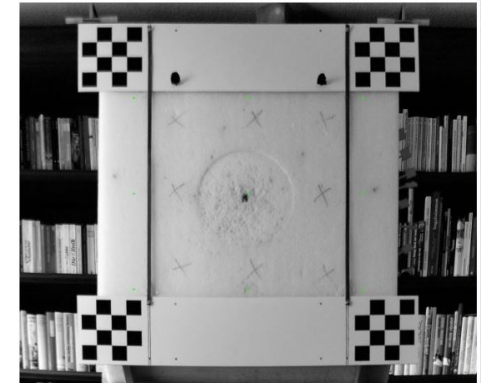
The RyngDyngApp provides test images to enable proper alignment (calibrations -> test image). The RyngDyng case should be aligned in such a way that the red hair cross points to the center of the target and the red lines appear horizontal and vertical respectively. Turn the adjustable stands if necessary. It is very important to provide for a solid stand. On grass, better use a wooden board or stone plates to place RyngDyng on.



6. Chessboard calibration

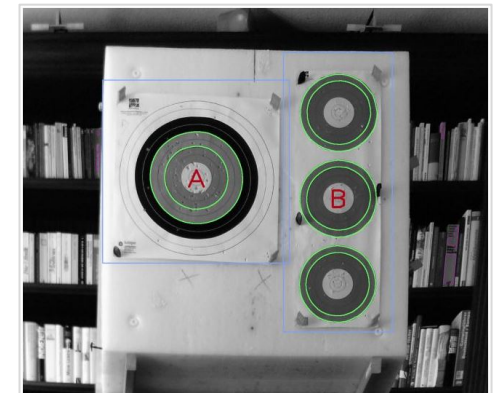
The chessboard stripes are pinned onto the target horizontally. The printed marks support the vertical adjustment of the bands. The center of the target should have the same distance to all 4 chessboards.

On the page 'Chessboard calibration', select and press the button that fits the size of the target. The result of the calibration is shown in an image as below:



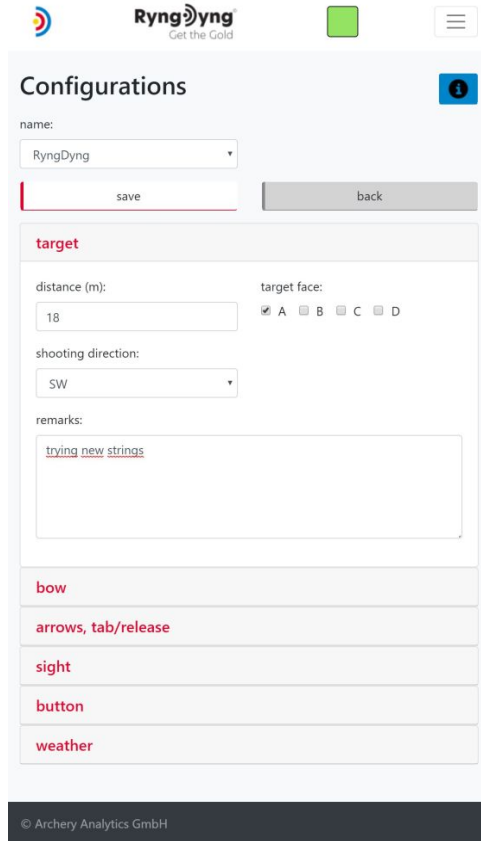
7. Target face recognition

Remove the chessboard stripes and put the target faces on. Press the button 'recognize target faces'. All target faces will be measured automatically. The result is presented in the control image returned. Every recognized target has got one or more letters:



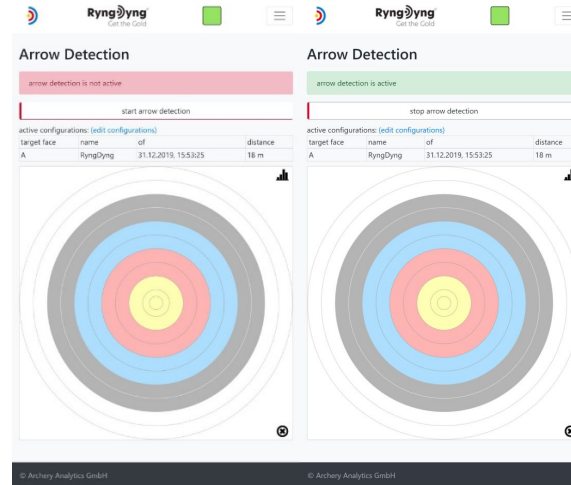
8. Assign archers

The RyngDyngApp offers plenty of parameters that can be stored together with the recorded arrows: material used, data on your bow settings, weather data, etc. In any case, assign the different archers present in your app to the various target face letters and enter the shooting distance:



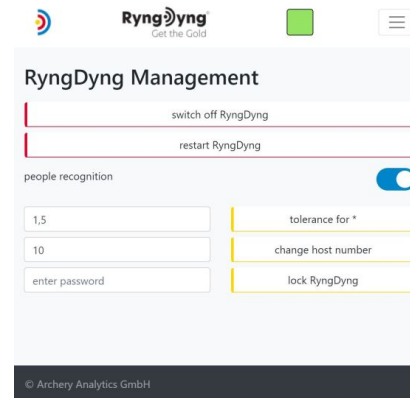
9. Start arrow detection

Start the detection and scoring of arrows by pressing the button ,start detection'. This page also provides the live view to display measured arrow positions within seconds:



10. Power off RyngDyng

Please always shut down RyngDyng properly before disconnecting from the power supply. Go to page ,system -> RyngDyng' and press button 'switch off RyngDyng':



After about 30 seconds, RyngDyng is powered down and can be disconnected from the power supply.

11. Useful links

Homepage of Archery Analytics



Download link for the RyngDyngApp



Detailed information on the RyngDyngApp



Verbose manual for RyngDyng

