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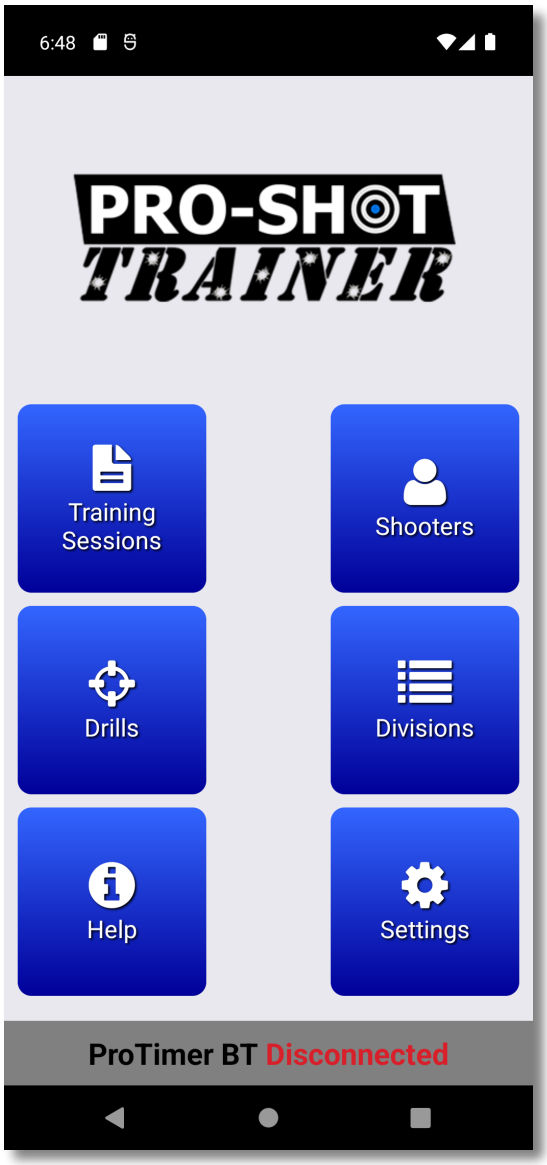
Introduction

Thank you for purchasing the Pro-Shot Trainer for Android application. The Pro-Shot Trainer app will allow you to record your sessions directly from the Competition Electronics® *ProTimer BT™* shot timer. It can be used by an individual or group of shooters, with one or more drills.

The first things you will want to do is setup the Shooter(s) and some Drills. If you know what drills you want to practice, you can enter them now. When you are at the range, you can take a picture of the drill and add it to that specific drill. Then you will setup you Session and then begin the Repetitions.

We have a section on our website forums setup for users to upload and down their drills to share with others. https://oncoresoftware.com/forums/index.php/board,35.0.html You must be registered in order to upload or download.

Please note that the *ProTimer BT™* Requires: Android 6.0 or newer (Your iPhone and/or Tablet must support BlueTooth LE).



Feedback

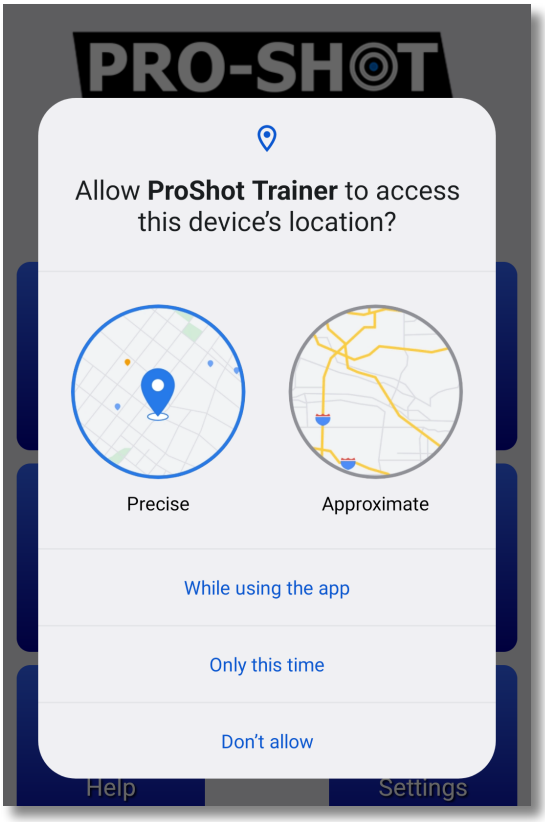
We encourage all users to provide us with comments, ideas, or improvements you would like to see in our software. Please do not hesitate to write to: info@on-core.com with any comments, requests, or simply to encourage us to build more great software.

Technical Support

Please email us at: support@on-core.com with any issues. We will contact you as soon as possible to help you resolve any problems. Our technical support line is available Monday through Friday, from 10 AM to 5 PM Eastern Standard Time.

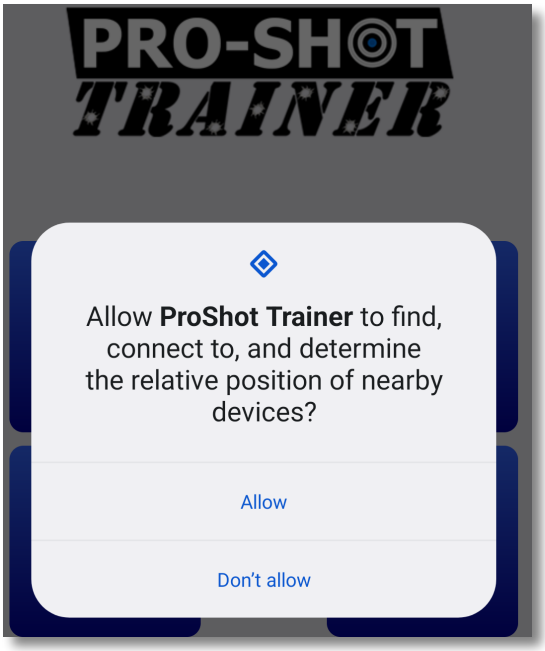
Initial Setup

When you first launch ProShot Trainer, the Android OS will prompt you for a few “permissions”. You must **Allow** these permissions, otherwise you will not be able to use the ProTimer BT™ timer.

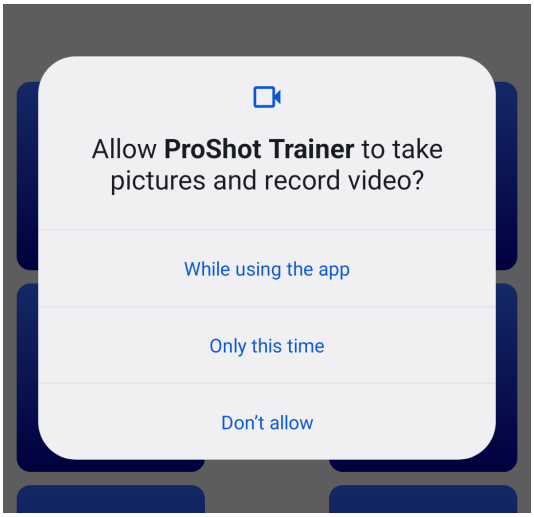


The first permission it will ask for is the devices “Location”. For newer Android OS’s, you must use the “Precise” option, or the ProTimer cannot be “discovered” when searching for Bluetooth LE devices!

Next it will ask you if to find the “relative position of nearby devices”. You must answer **Allow** for this option to find and communicate with the ProTimer BT™ timer.



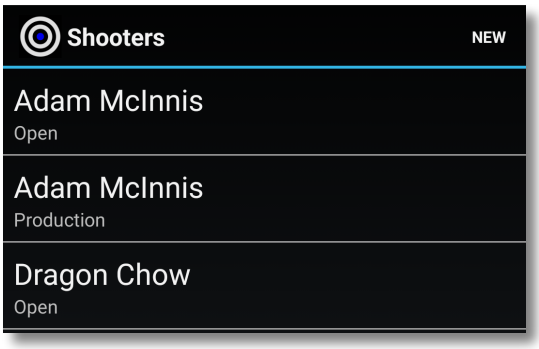
Last it will ask you to Allow using the Camera. We suggest choosing “While using the app”.



NOTE: If you accidentally Deny to any of these options, you will have to go to the the PT Trainer “App Info” and manually fix the permissions.

Shooters

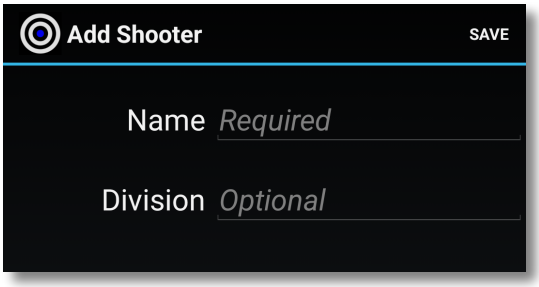
The first things you will want to do is setup the Shooter(s). From the main screen tap on the Shooter button to bring up the list.



Add / Edit Shooter

To Add a new shooter tap on the **NEW** button in the upper right corner and the Add Shooter window will appear. Enter the persons name and optionally the Division. If you plan on using the Steel Challenge section, you must choose a valid Division. We provide the standard USPSA/IPSC, IDPA and Steel Challenge divisions, however you may add anything you want by tapping on the **NEW** button on the Divisions section.

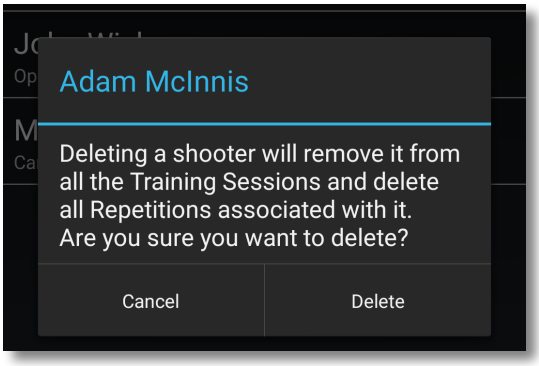
When Editing the shooter, it will display previously set information.



Delete Shooter

To delete a shooter you need to tap-and-hold on the row you wish to *Delete.* Then a dialog box should appear to delete the shooter.

Note: If you delete a shooter, it will permanently delete them from any sessions and remove all their Repetitions. The is not reversible! It's always a good idea to Backup to Dropbox before doing any deletions.

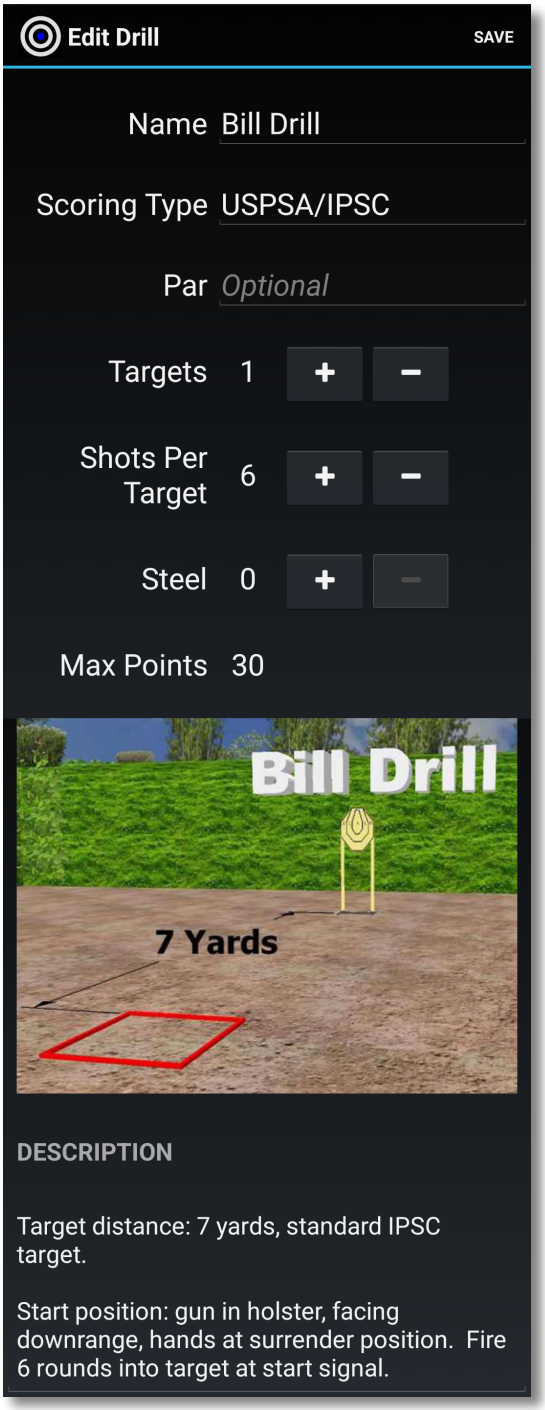


Drills

Add / Edit Drills

To Add a drill, tap on the **NEW** button from the drill selector screen.

To Edit a drill, tap on the drill row.



Name: Name of the drill.

Scoring Type: Three different scoring methods are available. IPSC / USPSA, IDPA and Steel Challenge. Each follows their respective rules and the "Calculator" is customized for each type for USPSA/IPSC and IDPA. Note that when you create Sessions, you will set the Scoring Type and only be able to choose Drills that have the same scoring type.

Par: If you want to assign a Par time to this drill, enter it here. The maximum amount of time is 80 seconds for the ProTimer.

Targets: The number of paper targets.

Shot Per Target: This is the number of shots per paper target. It is defaulted to 2.

Steel: The number of Steel Plates or Poppers in the drill.

Max Points: (USPSA/IPSC only) The maximum points that can be achieved for this drill. This field is not directly editable, but is calculated based on the target info above.

For example the Bill Drill is a series of 6 shots on a single target. It is based on the maximum point value for the target. An "A" value is worth 5 points. So in this example you would have 6 x 5 = 30 points.

Picture: You can either take a picture of the drill with the built-in camera or import it from your photo library. Tap on the Image Selector to add a picture.

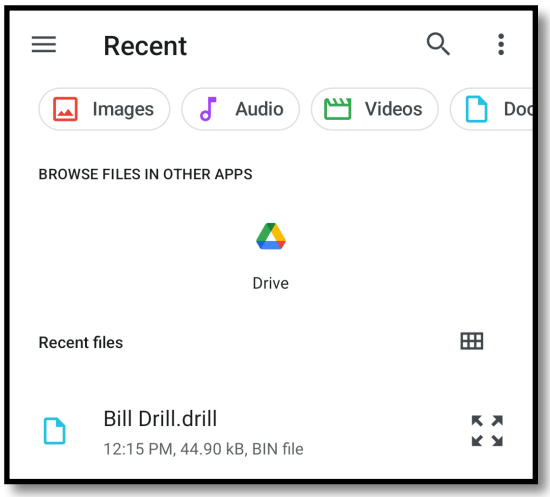
Note: you can tap on the picture to: View Image, Clear Image, Import From Gallery or Import from Camera. If you select "View Image" to open up the image in a full screen mode. Pinch-n-Zoom to give a better look. You can also rotate the picture, then Save, if it is in the wrong orientation.

Description: Enter a description of how the drill is to be setup and the course of fire.

Importing and Exporting Drills

Importing Drills

The drills can be imported from other users or downloaded from websites, such as from our Forums. All drills will end in the extension ".drill". Do not rename the extension.



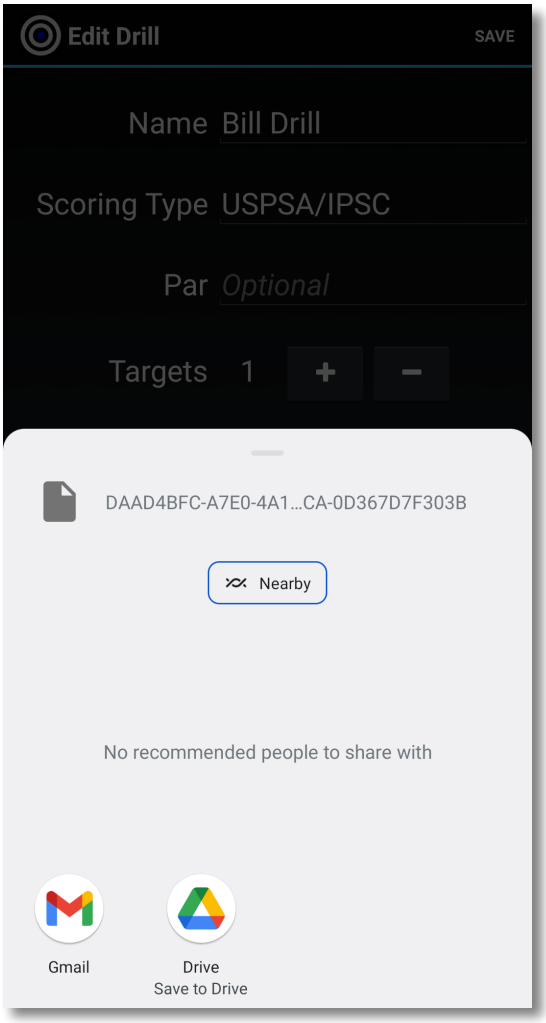
The drill file can be emailed from/to you and your friends. In an email you will see the attachment with the ".drill" extension. You can use the "Open With" to import directly into ProTrainer. You can also "Import" drills if they are saved in your "Files" or "Downloads".

You can download the drill files from our website's forums. You must be registered and signed into the forums in order to see the drill file attachments. You will find the drill attachment towards the bottom of a message next to the paperclip icon.

Tap on the filename and it will open a new window saying 'Do you want to download "Bill Drill.drill"?' Tap Download and it will save to the "Files" app or "Downloads'. Open the File App and in the Downloads and you should see the drill. If your Android device has the 3 dots next to the name, you can choose "Open With" from there. If it doesn't you will have to "check' the file to select it and then use the 3 dots to select "Open With". Then select "PS Trainer" and this will launch the app and will let you preview the drill, if it is a valid Drill file. If you want to import the drill, tap on the ***Import*** button (upper right) to add it to your drills database.

Exporting Drills

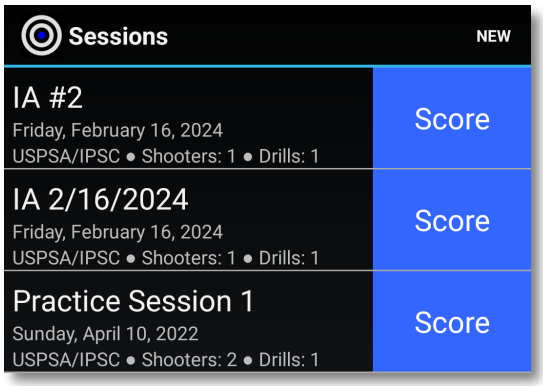
To export a drill, tap on the export button (square box with pencil on it, lower left). This will allow you to email the file to yourself or your friends. You could then upload it to the Forums to share with other users.



Training Sessions

Add / Edit Session

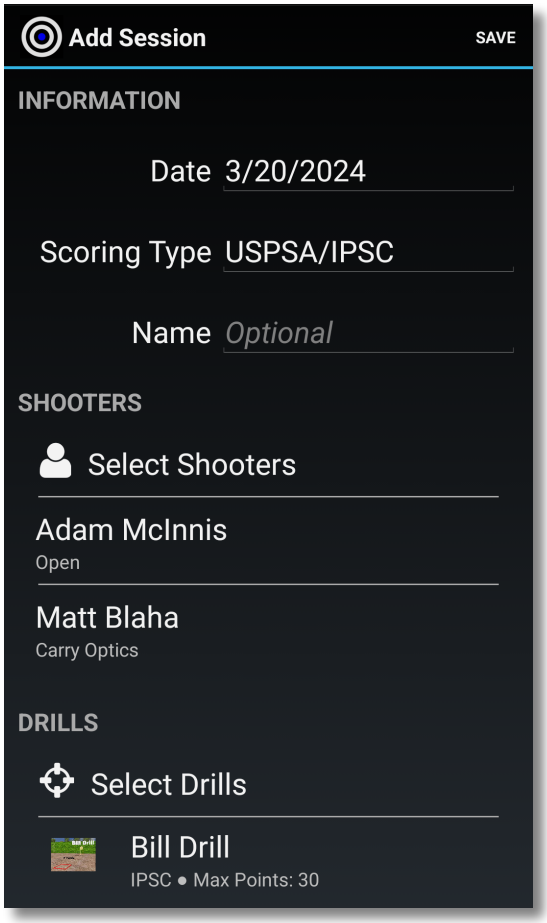
Now it's time to setup a Training Session. Tap on the **NEW** button to add a new Session.



Date: Today's date will automatically be selected when you add a new entry. Tap on the row to change the date and then tap on the top date row when finished.

Scoring Type: Three different scoring methods are available. USPSA/IPSC, IDPA and Steel Challenge. Each follows their respective rules and the Calculator is customized for USPSA/IPSC and IDPA. Note that the Scoring Type can only be set when you Add a Session. You will only be able to choose Drills that have the same scoring type.

Name: The name of your practice session.



Shooters: Tap on Select Shooters to add one or more shooters. A list will pop-up that will have the list of all shooters entered in the app. Tap on the name to select that shooter. A checkmark will appear to the right of their name. Tap on as many shooters are you want to add to this session. To remove a shooter, tap on the row again to remove the checkmark.

Drills: Tap on Select Drills to add one or more drills. A list will pop-up that will have the list of all drills entered in the app. Tap on the name to select that drill. A checkmark will appear to the right of the drill name. Tap on as many drills are you want to add to this session. To remove a drill, tap on the row again to remove the checkmark.

When finished tap ***Save*** button and you will see the new Session in the list.

Export the Session: If you want to export the sessions, on the **Repetition** screen tap on the little square box with the pencil (bottom right corner) and it will bring up a Mail window. Select the To: email address and the tap Send.

Scoring & Shot Times

NOTE: if you are having trouble connecting to the ProTimer BT™, please see the Troubleshooting section below.



To start Scoring tap on the green Score button on the Sessions page. This will bring up the Repetitions screen. Tap on the **NEW** button to add a new *Repetition*.

ProTimer: The first thing you need to do is connect the *ProTimer BT™* to the app. When the ProTimer is not connect, red text will show that it is Disconnected. If the ProTimer is connect, it will display the serial number of the timer in green text.

On the ProTimer make sure that "BLUETOOTH CONNECTION" is set to "ENABLED".

Tap on the ProTimer row to start scanning for the timer. If it finds a ProTimer, it will say "PT Link nnnn", where "nnnn" is the serial number of your timer and is now connected.

Time: The time that the repetition was created.

Shooter: This will default to the first shooter in the list. If necessary pick the correct shooter.

Drill: This will default to the first drill in the list. If necessary pick the correct drill. The drill will be "memorized" until it is changed to a different drill.

Max Points: (USPSA/IPSC only) Will display the maximum number of points that can be scored on this drill. This number cannot be modified from this screen. If you need to change the points, it must be changed from the Drill screen. However the drill can only be changed if it has not been used and removed from this Session.

Points: (USPSA/IPSC only) This is the points scored when the drill is completed. You will need to determine the points based on the scoring rules. You can either score manually or use the built-in shot calculator.

Score: (IDPA only) will show Score instead of Max Points / Points. The Score will be the time plus any penalties scored using the IDPA Calculator. You can enter the total time in this field if you prefer.



Classifier Score & Stage Time: (Steel Challenge only) After you have accumulated at least 4 of the 5 runs (or 3 out of 4 for Outer Limits), it will display the classifier percentage and letter code. The Stage Time is you total for the best 4 out of 5 runs (or 3 out of 4 for Outer Limits).



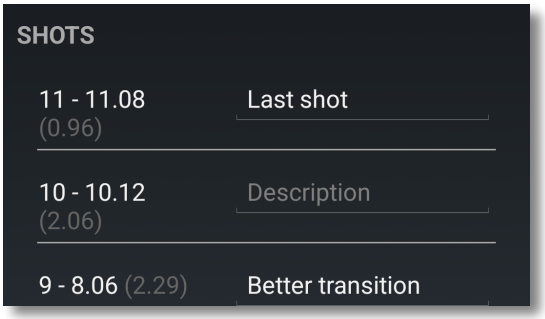
Getting Time from the ProTimer BT™

There are two methods for getting time from the *ProTimer BT*™.

Manual Pull: The first is to manually pull all the time from the last string recorded. Tap on the green "PT Link nnnn" text. You will see all of the time in the lower section.



Automatic: The second method is what Competition Electronics® calls the "Real Time" mode. Tap on the Red circle icon and when it is set, it will change to a Green square. Once it is in Real Time mode, you will press the **Start button** to start. If you have set a PAR time in the Drill, it will beep after that PAR time has elapsed. Then the shots will appear one-by-one as you take the shots. To finish the session, press one of the **4 top buttons** to end the string (e.g. FWD, REV/OFF, INCR, DECR/OFF). If you are in Batch mode, pressing the **Start** button and then the one of the **4 top buttons** will automatically increment the batch strings.



You can make notes on each shot line by tapping on the row and entering some short notes. Splits will be shown in parenthesis after the shot time.

Delete Shot: To delete a shot, tap-and-hold to reveal the *Delete* button. Tap Delete to remove the shot.

To Manually Add a Shot: Tap on the + (plus) button on the bottom left of the screen. A dialog box will appear that allows you to enter a Time. The new shot will be added in chronological order.

Export Repetition: The repetition can be exported. Tap on the little square box with the up arrow (bottom right corner) and it will bring up the export chooser.

Calculator

The calculator is access by tapping on the calculator icon, bottom icon (USPSA/IPSC & IDPA only). The score on the top of the screen will update on each tap. Press *Done* when finished.

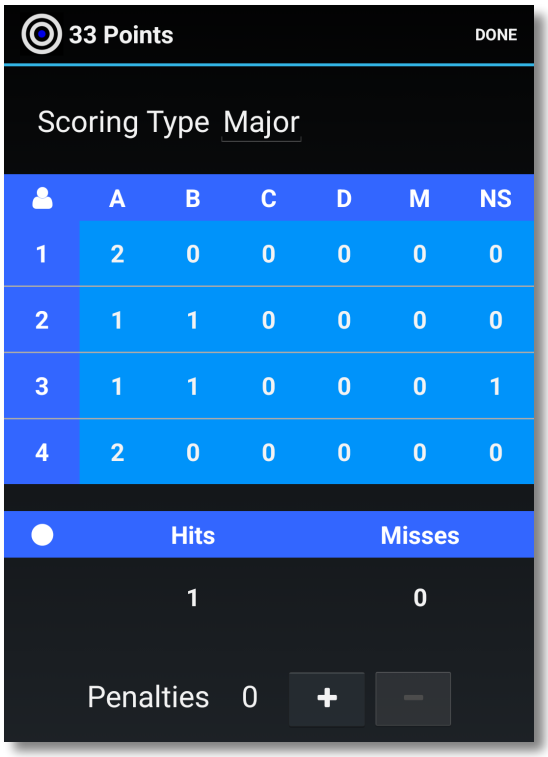
USPSA/IPSC Calculator

Scoring Type: First set the scoring type to Major or Minor for your division. Tapping on the word will toggle between the two types.

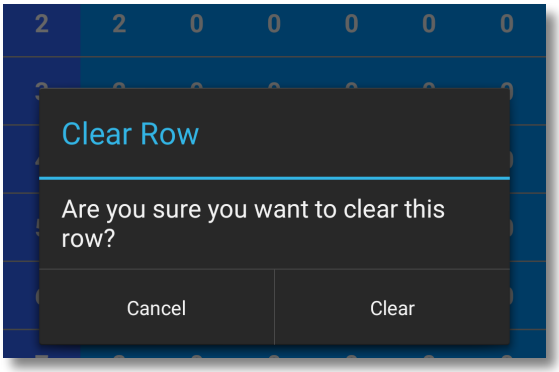
Paper Targets: Each row will allow you to score each paper target. Tap on the number of A, B, C, D, Misses or No Shoots. Once the maximum number of hits has been completed the row will turn light Blue to show that target is now complete.

Steel: The steel will default to all hits. If you miss a steel target, tap on the Misses value. To add back to the Hits, just tap on the Hits.

Penalties: If any penalties are accessed, tap on the **+** (plus) button to add penalties.



Clear: If an incorrect value is score on a row, you can Clear out the row by pressing on the Cell on that row. Tap on the Clear button to clear out the all of the values.



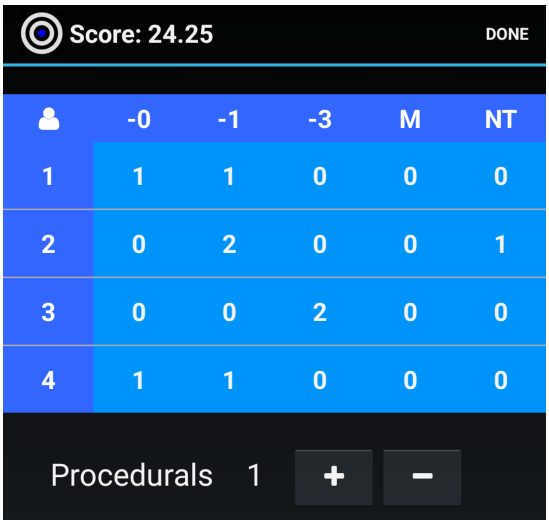
IDPA Calculator

Paper Targets: Each row will allow you to score each paper target. Tap on the Points down: down zero (-0), down one (-1), down 3 (-3), Misses / down 5 (M), or Hits Non-Threat (NT).

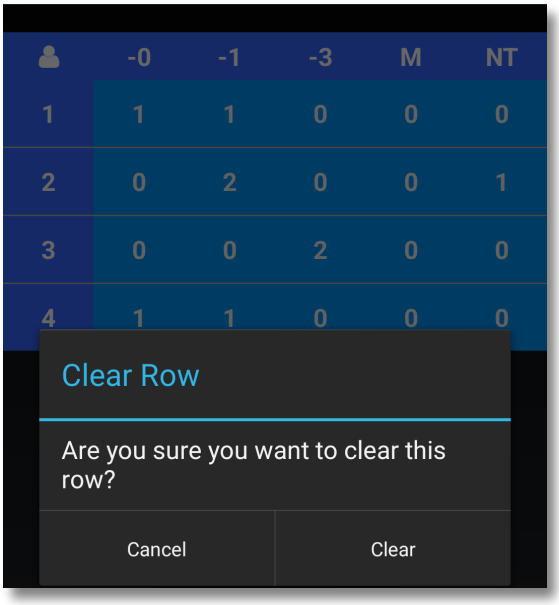
Note: if you do not have at least one down 0 or down 1, the calculator will automatically assign a “Failure to Neutralize” penalty (+5 seconds). Once the maximum number of hits has been completed the row will turn light Blue to show that target is now complete.

Steel: The steel will default to all hits. If you miss a steel target, tap on the Misses value and HNT penalty. To add back to the Hits, just tap on the Hits.

Procedurals: If any penalties are accessed, tap on the **+** (plus) button to add penalties.



Clear: If an incorrect value is scored on a row, you can Clear out the row by pressing on the Cell on that row. Tap on the Clear button to clear out the values.



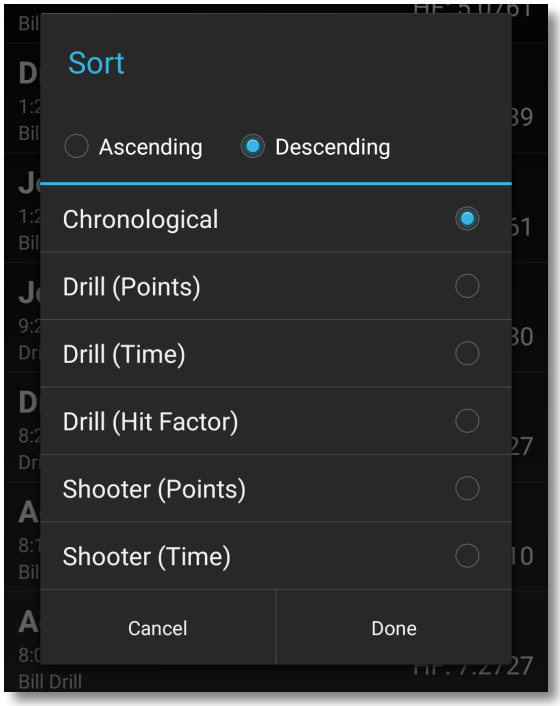
Repetitions

Once you have saved your Repetition it will show up in the Repetitions list for that Session.



Sorting the Repetitions

Tap on the Sort button (A/Z on bottom left). This will bring up the sorting options. They can be sorted by Ascending or Descending for any of the options below.



To Edit/View the repetitions, tap on a row. You can edit the repetition if desired.

Steel Challenge

Steel Challenge stages are score by the “Best X out of Y Runs”. All Steel stages are best 4 out of 5, except for Outer Limits, which is the best 3 out of 4.

The Steel scoring section only works ideally in the Real Time mode. That way the shooter does not have to interact with the Android device while shooting. Once you create a new Repetition, you start the timer (best if you set some sort of Delay on the timer, so you can run yourself). After you have started the timer, and completed your shots, press one of the four buttons ((e.g. FWD, REV/OFF, INCR, DECR/OFF) to Finish the Real Time score. After you’ve pressed that button, it will automatically increment to the next Run. Once you have hit the minimum number of runs, which would be 4, except for Outer Limits which is 3, you will see a Classifier letter and percentage, as well as the Stage Time.



Batch mode

In batch mode (USPSA/IPSC and IDPA only), you can do multiple repetitions of a drill without having to manually pull times from the timer by using the Real Time mode. The “points” (USPSA/IPSC) or “score” (IDPA) will be set 0 (zero) or no additional penalties (+0) respectively. You would have to enter these later if desired.

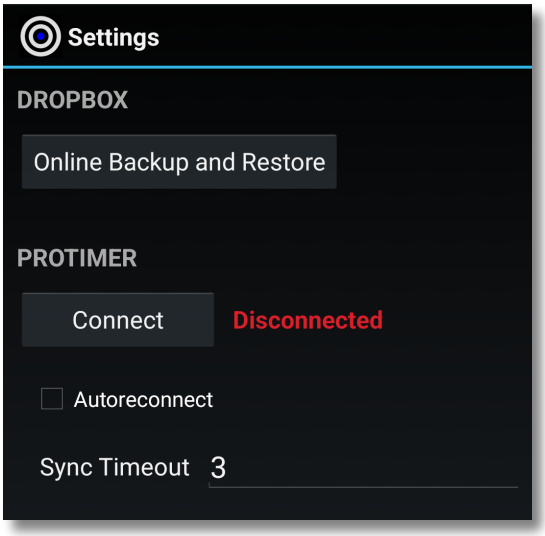
Make sure to select the Shooter and Drill that you want to record. On the ProTimer you will hit Start to start the repetition and when finished, press any of the 4 buttons on the top of the timer (e.g. FWD, REV/OFF, INCR or DECR/ON) to finish the repetition. The *Reps Created* will increment by 1.

When you are finished tap on the Done button and it will bring you back to the Repetitions list. You can optionally go into each repetition and score them or leave them at zero.

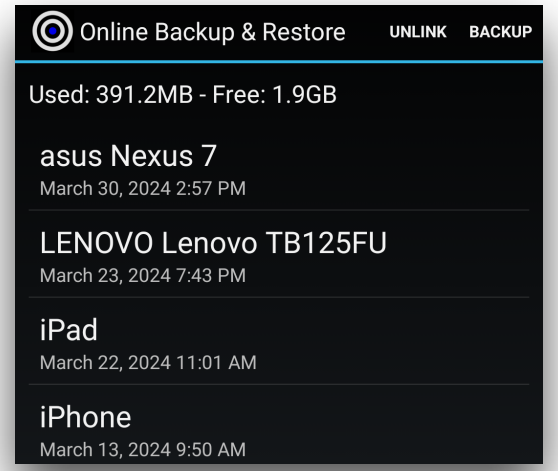
Settings

DROPBOX

Online Backup & Restore



You can and should do frequent backups to Dropbox. Click on Online Backup & Restore and it will prompt you to login. Then “Allow” and it will show you the Backups screen.



To do a Backup, tap on the *Backup* button. To Restore from a backup, tap on the row containing the backup. It will ask you if you are sure you want to Restore it as all data will be erased and replaced with the contents of that backup file.

PROTIMER

Connect/Disconnect: Tap on the “Connect” to connect to the ProTimer. Make sure that the ProTimer is ON and Bluetooth is Enabled. To disconnect, tap on the row to disconnect it.

Autoreconnect: If you want Pro-Shot Trainer to automatically connect to the *ProTimer BT™* when you launch the app, as long as the ProTimer is ON, it will automatically connect. Otherwise you can manually connect by tapping on any screen that shows the “Disconnected” label.

Sync Timeout: For older/slower Android devices, it may be necessary to give it more time to Scan for the ProTimer BT™. New devices can usually find it within 3 seconds. Some older devices may need 10 or more seconds to scan and find the timer. Minimum time is 3 seconds, max is 30 seconds.

Troubleshooting

The Pro-Shot Trainer app will ask you if you want to allow it to use “Bluetooth”, the “Camera” and “Photos” if you want to capture a picture of the stage, or import a picture. If you had tapped No, then you will not be able to take pictures or import them. Bluetooth is required to communicate with the *ProTimer BT*™ timer.

NOTE: It is very important that you “Allowed” the Location and Precision settings when you first launch the app. If you Denied these, you will have to click on the App to get it’s “App Info” and fix the Permissions.

From all my development and testing, Bluetooth can be a bit temperamental on Android devices. It can take anywhere between 4 and 10 seconds to connect to the timer. You may have to try connecting several times until it is “connected. And, sometimes it just goes “Stupid” (technical programmer term). The only way I have found to get it working again is to QUIT the App. Turn off the ProTimer BT™ by holding the “REV/OFF” button to shut it off. Wait about 5 seconds and then turn the ProTimer BT™ back ON. Wait until it has completely started and the Launch the ProShot Timer app. It should connect and communicate again.

NOTE: for older Ardroid OS’s, it seems like the device cannot “Find” the Bluetooth LE device. As a work-around, you can go into the Settings App -> Bluetooth and try to “Pair” it. Early generation ProTimer BT’s will just pair. Later generation ProTimers you will need to enter a code of 12345678 to pair it.

It may also be necessary to increase the “Scan Timeout” value in the Settings screen for older Android devices.

Please feel free to contact us on our Forums: http://www.on-core.com/forums or via email (links on the first page of this manual).