

Features

Bright 65mm Diffused visual indication display.

Minimal Size to reduce the impact of the unit on the layout of your driving space. (80mm x 80mm x 21.5mm)

Structural Aerospace grade 3K Carbon Fiber Face Plate.

Fully compatible with the Penguin r/c Release of iFlag using the Penguin r/c iFlag Extension.

Full automatic detection and set-up for use with SumHub Dash when it connects prior to iFlag (overrides iFlag use temporarily).

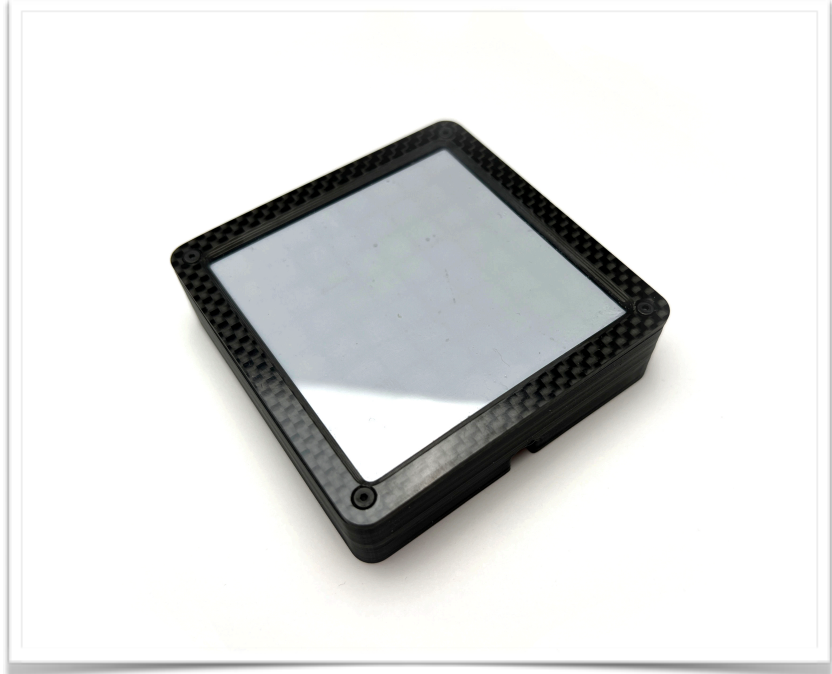
Integrated 5mm threaded hard mounting provisions.

Standard 1M USB Cable which exits through the side of the unit is included.

Options

PSPD_m Mounting plate allows or mounting of the unit in many different orientations and ease of mounting to an 80/20 profile system.

PSUSB_up_1.5 Custom Designed Heavy Duty 1.5M up-angled USB Cable allows rear exit of the USB cable for cleaner mounting options and better cable management.



iFlag ProDisplay

(PSPD)

The PSPD iFlag Pro Display is a next generation iFlag display panel based on completely custom firmware developed by Penguin*r/c* and more advanced processing. These systems have faster communication and more advanced display properties culminate in a larger and brighter display with a greater range of brightness adjustment and lower overall power usage.

Multiple Pro Displays can be used at the same time to make the most use of custom flagging modules provided within the Penguin*r/c* iFlag Extension. One of these included is the Visual Spotter+ which allows left and right spotter display calls to be indicated to a display to the Left or Right of you much like blind spot monitors. This in conjunction with the Exclusive Proximity monitor (front and/or rear) can provide you with all the information regarding cars around you and how close they may be.

To view the unit in action with the iFlag Demo mode please view this video on [YouTube](#):



PSPD iFlag Pro Display Instructions...



Connecting the PSPD ProDisplay:

The PSPD is a fully Windows compatible USB device. Just plug the USB cable into the ProDisplay and your computer, Windows will locate it and connect it to a specific COM port. Once this is done all that is needed is to download the Penguin r/c Version of iFlag along with the Penguin r/c iFlag Extension. These can be found on our website under [Product Downloads/iFlag](#). You should also have received these with your purchase during checkout if ordered directly from us which will allow you to download the items from your account [Downloadable Products](#).

The iFlag ProDisplay will also connect to SimHub Dash with no additional software or setup needed. This will allow the use of your display with titles other than iRacing but with a far reduced capability of display options. SimHub will automatically detect the unit as a SimHub compatible RGB Matrix.

iFlag is the Pro Display's primary display system and it switches to SimHub Dash ONLY when SimHub attempts to claim the device prior to iFlag locating the device. If you wish to stop this from happening so the display always works in iFlag Only, you can block polling of the device COM port from within SimHub. This can also be done in reverse as well as we have incorporated the ability to block polling of specific ports in iFlag. Using these options allows use of Multiple Pro displays with both iFlag and SimHub at the same time.

PSPD iFlag Pro Display Instructions

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Installing iFlag & the Penguinr/c Extension for iFlag:

Installing iFlag and the Extension is as simple as uncompressing the downloaded iFlag.zip from the Penguinr/c website or your Downloadable Products page and then moving it to a location where you choose on your Hard Drive.

Steps:

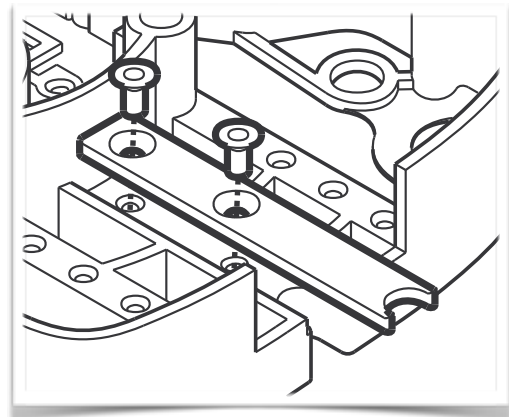
1. **Download:** Download .zip from the above mentioned locations for BOTH iFlag and the Penguinr/c iFlag Extension. We recommend placing the .zips on your desktop to ease final installation and then moving them where you want after.
2. **Extract:** Double Click on each .zip and click on the Extract All button in the upper right side of the window on Windows 10 (it may be located elsewhere with other versions of windows). This will bring up a window for you to decide where to place your extraction and what folder to create while doing so. Just continuing to extract with no change to the path created Windows will place a folder of the same name as the .zip in the location where the original .zip is currently. (On the desktop if that is where you chose to place the download suggested above.)
3. **Extension Installation:** Once both items have been extracted take the ENTIRE folder for the Penguinr/c Extension and place it inside the iFlag Folder/Extensions Folder. Once this is done your installation will be complete.
4. **Launch:** You can run iFlag using the Provided Shortcut in the iFlag Folder or by running the actual .exe in the iFlag folder within the extraction folder(iFlag) folder. Windows may ask you to download .Net6 components to run the program, Follow the directions as given. IF this fails it may be done manually by downloading the .Net6 Desktop Runtime from this Microsoft site: <https://dotnet.microsoft.com/en-us/download/dotnet/6.0>

SimHub Installation:

The PSPD auto configures to be accessible and run as a LED Matrix within SimHub. This allows use of the PSPD with games and modules that iFlag does not currently support but are supported through SimHub. The PSPD configures to the Software that communicates with it first. To guarantee iFlag use, iFlag must start before SimHub and visa versa. The method to get around this is to figure out which COM port the ProDisplay is located at (device Manager or iFlag descriptions) and disable serial polling of the COM port in the software you wish to NOT use with it. The COM port in use is determined by Windows based on the Device and USB port connected, changing the USB location will change the COM port where the device is found. The COM port disabling method of software exclusion will allow use of multiple ProDisplays to be used with information from either iFlag or SimHub sources. The PSPD ProDisplay is not capable of communicating with BOTH software programs at the same time due to differences in the methods by which communication is accomplished.

PSPD Options:

PSUSB_up_1.5 - This option is a custom made Heavy Duty 1.5 meter USB-A to Micro USB cable where the Micro USB end is of a up direction. This up direction allows connection of the USB cable in a manner where the USB Cable extends out the rear of the device. Using this cable can make mounting the PSPD iFlag ProDisplay cleaner by hiding the cable and cable management behind the device instead of the standard side exit mounting.

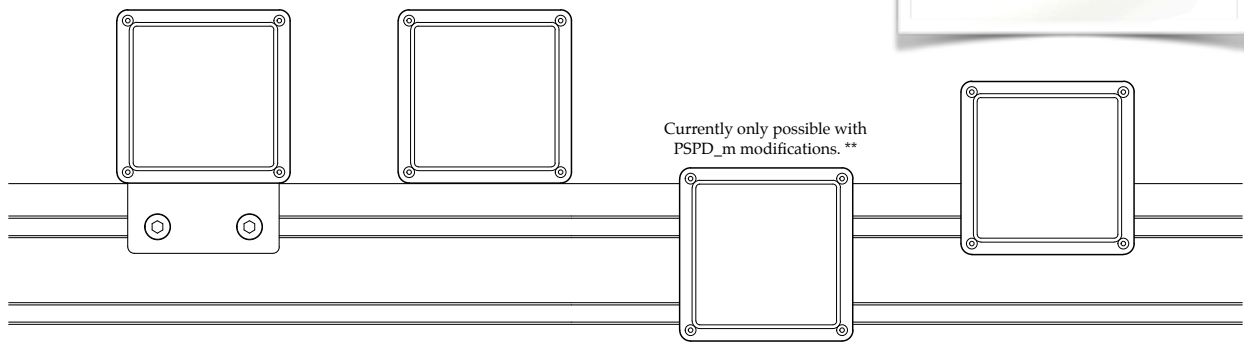


PSPD iFlag Pro Display Instructions

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PSPD Options (*continued*) :

PSPD_m - This mounting option provides users with several methods to mount the PSPD to 8020 Profile or anything else for that matter. It includes two 5mm mounting screws to mount the PSPS iFlag ProDisplay and then two 6mm Flat head screws for mounting the PSPD to 80-20 profile using standard 6mm T-Nuts (*not included*). Cutouts in the plate allow unobstructed use of the PSUSB_up_1.5 optional USB cable for rear exit of the connection cable.

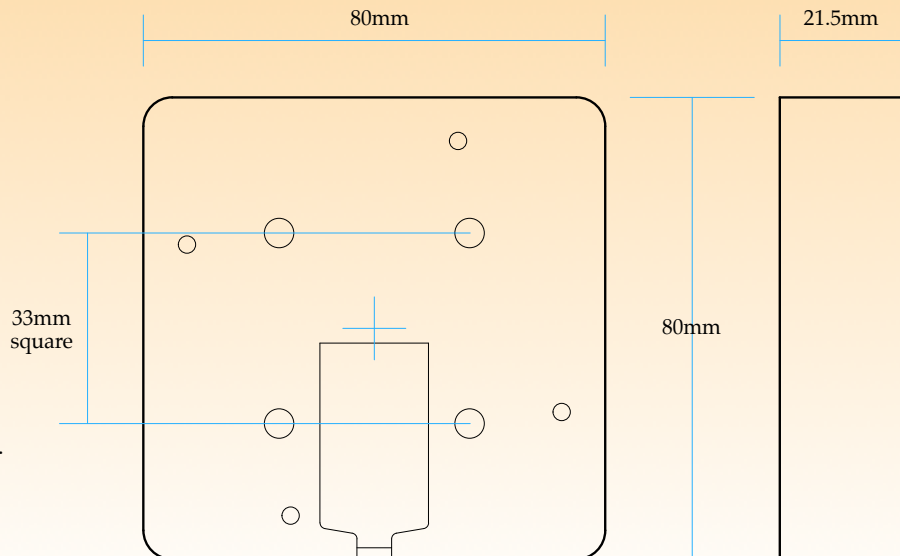


** Modifications required for this mounting configuration: (*option #1*) Countersink 5mm holes on the opposite side from the 6mm countersinks and use 5x10mm FH screws for PSPD mounting. (*option #2*) Use longer 6mm FH screws with a spacer so included 5mm Cap Screws clear 80-20 profile. USB cord side exit ONLY.

Built-in Mounting Provisions:

The PSPD has built-in 5mm screw mount provisions provided for mounting the device however you see fit. The ONLY thing that is a requirement is that the screw used DOES NOT penetrate into the device more than 6mm. Longer screw penetration has possibility of doing damage to the internal RGB Matrix which would NOT be covered under the lifetime limited warranty.

Device Dimensions (*not to scale*):





About, Contact, and Customs Information...

Contact Information

Address:

Penguin r/c
1230-P North Jefferson Street
Anaheim CA 92807

Website:

Main - www.penguinrc.com
Simulation Site - [click here...](#)

email:

simulation@penguinrc.com

Phone:

714.630.9015

Fax:

714.630.6250

Catalog Notes

Pricing - There are no prices in this catalog. Current pricing can be found on our website along with further information.

Ordering - Throughout this catalog there are "Visit our website..." links that will open up the ordering page for the items in this catalog.

Questions - Feel free to email us at any time.

About us...

Penguin r/c was opened in April of 1997 with the intent of creating the best products that could be made for reasonable prices. Originally we started business focusing on aftermarket parts and chassis upgrades for high performance remote control vehicles, pinpointing the areas where existing cars could be made to perform beyond their original design. Penguin r/c made a name for itself by achieving this goal through products where the additional performance gained far outweighed the cost of the parts. Having racked up a couple of championships and a good name in the market place we slowly transitioned into becoming a more involved OEM supplier for other manufactures in the r/c industry and other industries. We still sell and support our r/c products to this day and will continue to do so with every product we produce. In 2010 we started manufacturing parts for a high-end simulation company and found a renewed love for racing in the form of iRacing and Simulation equipment. In 2018 we decided that we could bring our expertise in manufacturing and design to the Simulation products market and started researching and designing what you see today. We hope to bring the same values and customer support to the simulation marketplace as we have for years as an OEM manufacturer and part supplier to the r/c industry.

Custom Designs...

Penguin r/c is capable of Custom Manufacturing and Design of prototype and production parts for individuals and companies. Most of our manufacturing is done in-house which allows us significant control over the quality and assembly of parts we manufacture and allows us to make prototypes that have the quality and durability of production pieces. If you have anything that you would like to produce please feel free to contact us about the possible product.

Our Warranty...

Penguin r/c offers a Limited Lifetime Warranty on all products we produce. This warranty includes full service (shipping included) for the first 90 days of original ownership. After that shipping to us is not included. Due to the openness of this warranty we may ask if you are capable of completing simple repairs yourself as we have found in many cases this can be beneficial to the user and us as it speeds any downtime associated with repair. Directed repairs such as this will not affect the overall warranty should something go wrong. This warranty covers all manufacturing defects or issues that are not related to normal wear and tear, abuse, or non Penguin r/c directed modifications or repair.