

Charles River Radio Controllers

Flight Log

April, 2020



Next Meeting:

Wednesday, April 15, 2020 - 7:45PM

—>> Online via Web Conference! <<—

(instructions will be sent via email list)

President's Message

Dear Fellow Club Members,

Welcome to April! I hope you are well.

Despite the increasingly beautiful weather, it has been disheartening to have our outdoor refuge recently dismantled, field by field. I had hoped we would retain some "immunity" regarding quarantine restrictions. Hobby-wise, we are essentially facing an extended winter. I encourage you to continue building, learning, sharing (electronically), and taking advantage (safely) of any remaining outdoor venues.

On a more progressive and exciting note, this month, we will have our first virtual club meeting! I want to heartfully thank the members who've contributed their knowledge and experience toward launching the event. I look forward to seeing your smiling video feeds and learning together with you how best to take advantage of this new venue. Some folks have mentioned giving virtual tours of their shops, and that would be great (other than the jealousy it might inspire ;-)) Invites and instructions will be sent out, shortly.

I remain grateful to hear from you and chat with you, even about the most pedestrian bits.

Sincerely,

- Scott Ritter, President

Build & Fly the

ImpulseRC Reverb FPV Quadcopter

Build Notes

Here is a 6" FPV (first person video) quadcopter I'm learning to fly. It's built from components available on well-known web stores like www.GetFPV.com and www.RaceDayQuads.com and has the latest hi tech. The quad electronics can draw 140 amps of motor current at full throttle. You fly it like



you're inside a helicopter with a spotter standing beside you in case of obstacles. Although I don't fly fast, it can go over 60 mph, and has a flying time of 3 to 5 minutes depending on how fast you fly. It can do tricks like flips and stalls or just fly like a helicopter. There's no GPS so it's all skill based flying. The GoPro up front is there to record my flight and the small camera under it is to see where you're going. Features include a 3mm carbon fiber frame with 4mm thick by 6" carbon fiber arms, latest F7 processor flight controller with dual gyro stabilization, four 35amp speed controllers in an all in one package, 5 inch propellers spinning at 10,000 rpm to 34,000 rpm. Motors are Xing Camo 2207 x 2450kV and have a bright blue paint job that looks great. Weight is 1 pound 6 ounces. I'm using a Futaba SBUS drone receiver that is tiny and has dual antenna like most of the Futaba receivers. The build and programming has improved my soldering skills and my understanding of quad programming through a computer interface running Betaflight Configurator. It keeps me thinking and moving and outside (after social distancing).

Time to Fly

Initial 10 flights have been a lot of fun and a challenge. There is plenty of power and strength to accelerate quickly and take hard landings without damage. The experience of flying an FPV quad copter is so different than flying a glider. I found keeping the quadcopter moving was the best way to fly so far. Stay in Acro mode and you get a more realistic and agile flight. So far, the entire experience has been great. Experiments with inexpensive on sale items has led me to this build, the right choice for me. One thing you will find with clearance and sale items is that the new Betaflight may not work with the components and for a few dollars more the newest component can run the latest software. Current components and software will yield a better setup experience with less calls for help.

I normally fly model airplane gliders and tried this with encouragement from my friends. This part of the hobby turned out to be great too. I could not have done this build and flying without my friends in CRRC and their encouragement.

Parts List

- Impulse RC Reverb 6" frame
- Lumenier LUX F7 Ultimate flight controller
- Lumenier BLHeli_S 4-In-1 35 amp ESC (BLHeli 32 would be better)
- RUNCAM MICRO EAGLE PRO, JB edition Flight Camera
- ImmersionRC Tramp HV 5.8GHz Video transmitter (US)
- Lumenier long range SMA antenna
- iFlight XING Camo X2207 x 2450 kV motors
- GoPro Hero5 Session
- TPU 3D printed camera mount Techfactory1
- Lumenier Indestructible Kevlar 220mm battery straps
- Extra M3 x 18mm socket head screws
- Tattu 1300mAh 4S 75C Battery
- Betaflight 4.1 loaded with Betaflight configurator
- Anti-vibration flight controller standoffs
- Holybro LED lite and buzzer combo
- DAL 5x4" 3 blade props
- Foam landing pads (Buy a bunch they fall off)

Resources

www.FPVknowitall.com

Josh Bardwell YouTube videos

And of course CRRC members

- David Spielman



This Month's Meeting

Our next general meeting is scheduled for **Wednesday, April 15th, 7:45PM**. Excitingly, it will be our first **online meeting**! Instructions to join the session will be sent to the club Yahoo! Groups mailing list a day or two before the meeting. We all hope to be able to resume in-person meetings soon, but meanwhile let's enjoy a different form of connection!

Club meetings are open to the public, we welcome visitors and guests to learn about model aviation and CRRC!

For access instructions regarding online meetings, please contact a member or email webmaster@charlesriverrc.org

No Raffle :(

We'll be holding off the raffle for April, in hope of being able to do it at an in-person meeting soon!

Bill Martin Field Keys

It's time again to swap out the keys for access to the Medfield field. Key# 15 is in use this year.

Ken Antonellis continues to serve as the CRRC key-master, so please get in touch with Ken before heading to Bill Martin this spring.

Club Information

Officers - 2020

President

Scott Ritter

[president at charlesriverrc.org](mailto:president@charlesriverrc.org)

Vice President

Jake Megowen

[vicepresident at charlesriverrc.org](mailto:vicepresident@charlesriverrc.org)

Treasurer

Dave Marshall

[treasurer at charlesriverrc.org](mailto:treasurer@charlesriverrc.org)

Membership Secretary

John Eppling

[membership at charlesriverrc.org](mailto:membership@charlesriverrc.org)

Recording Secretary

Dan Sullivan

[secretary at charlesriverrc.org](mailto:secretary@charlesriverrc.org)

Webmaster

Adam Smith

[webmaster at charlesriverrc.org](mailto:webmaster@charlesriverrc.org)

Newsletter Editor

Adam Smith

[newsletter at charlesriverrc.org](mailto:newsletter@charlesriverrc.org)

Chief Instructor

Dick Williamson

[chiefinstructor at charlesriverrc.org](mailto:chiefinstructor@charlesriverrc.org)

Raffle Chairman

David Spielman

[xofficio at charlesriverrc.org](mailto:xofficio@charlesriverrc.org)

Instruction

To inquire about instruction please call the Chief Instructor, Dick Williamson.

Types of instruction

B = Building

G = Glider

E = Electric

F = Fuel

H = Helicopter

Q = Quadcopter/

Multirotor

Dick Williamson - B,G,E

Sudbury - 978-618-5475

David Spielman - B,E

[dspielma \(at\) gmail.com](mailto:dspielma@gmail.com)

John Weigel - B

Natick - 508-655-2138

Richard Gammon - B,G,E,F

West Boylston -

508-835-2049

Ken Antonellis - G,E,F

Natick - 508-653-8369

Bruce Schneider - G,E

Hudson - 978-460-0305

Lincoln Ross - G,E

Waltham - 781-891-0332

Dave Walter - G

Hudson - 978-562-5400

Jon Leehey - F

Wayland - 508-358-5721

Tony Davids - H

Stow - 978-568-9598

Scott Ritter - Q

Sudbury - 978-443-2373

General Info

Flying Sites

Go to the [CRRC Website](#) and select the Flying Sites tab to see the various sites. The site page will give current weather and site information.

Keys to the

Bill Martin Field

To get a key for Bill Martin Field in Medfield please email Ken Antonellis at kxa@verizon.net. Ken is the key-master. The key for the 2019 season is key #4. Ken may have keys at the meeting. A \$5 deposit is required the first time you receive a key.

Tree Climbers

Lloyd Keyes(Wayland)

508-358-9197 or

508-341-0110

Scott (Sudbury)

508-203-3845

Stephen Canessa

The Tree Guy

978-460-1000

Hartney Greymont (Medfield)

Sean Comer

781-444-1227

thescomer@gmail.com

Membership Application - 2020

Name					
Street					
Town		State		Zip	
Telephone		Email			
AMA No.		Birth Date			
[] DO NOT include my personal contact information in the club phone book					

IMPORTANT: You must be an AMA member to receive a CRRC membership
AMA Junior membership is free! <http://www.modelaircraft.org/membership/youth.aspx>
 By submitting this membership application you agree to comply with the AMA safety code,
 including documents 550 and 560 found at: www.modelaircraft.org/documents.aspx

To receive a membership card, bring this application to a club meeting or
 mail to the membership secretary:

John Eppling
Membership Secretary CRRC
43 Nylander, Acton, MA 01720
membership@charlesriverrc.org

You may pay by check or use PayPal.

Make **checks** to **Charles River RC**, or use **PayPal** to:
membership@charlesriverrc.org

Member category	Before March 1, 2020	After March 1, 2020
OPEN Member	\$60	\$65
SENIOR member If age 60 before July 1st	\$50	\$55
SENIOR member If age 75 before July 1st	Free if AMA member (Voluntary donation appreciated - e.g. \$50)	Free if AMA member (Voluntary donation appreciated - e.g. \$50)
JUNIOR Member Under 19 before July 1st		
NON-FLYING member If age 75 before July 1st	(Voluntary donation appreciated)	(Voluntary donation appreciated)
Full time STUDENT	\$40	\$45
Family member additional to OPEN membership		
Additional / optional donation (supports field rental)	Voluntary \$10 / \$25 / \$50 / etc	