1. Hello, you are on «Из Говна и Палок» channel… (TBD)
2. Today I’d like to present you with an Auto Feeder for cats. With remote control possibility, scheduler, and feeding history.
3. Some technical stuff: (показываю открытую коробку с электроникой)
4. Based on Arduino Uno R3 (300UAH - 7.5$)
5. Real Time Clock Module DS3231 (120UAH – 3$)
6. LCD display 16x2 (160UAH – 4$)
7. Servo motor: MG996R (190UAH – 4.75$)
8. Kitchen grain dispenser (780UAH – 19.5$)
9. Power Supplier based on Step-down DC/DC converter only for Servo motors (max 3A) (40UAH – 1$)
10. Mini DC/DC linear converter for Arduino, LCD and RTC module (12UAH – 0.3$)
11. DHT Module for Temperature & Humidity (will be stored at Feed History each time run) (55uah – 1.3$)
12. (Ira, will it be helpful for you to have info about humidity and temperature for each feeding to watch on food quality?)
13. Relay module with Dry contact from Sonoff eWelink ecosystem (you can use any of Smart House ecosystem; the only requirement is that it should be Dry Contact Relay module) (500UAH – 12.5$)
14. Total price: 53.85$ excludes my professional C++ programming skills and 3 weeks for dev & testing.
15. Link to my GitHub with Source code for Arduino and .STL files for 3D printing you can find in description of this video.
16. Buttons, Menu & Settings
17. 4 buttons: Ok, Up, Down and return back, one big button for manual feeding.
18. Long press on the Ok button: will show you the current temperature and humidity.
19. Second long press: History menu, use up and down to scroll 25 last fed.
20. 3rd long press: Scheduler presets: 2Day means 2 times in between 7AM and 11PM. 3Day – means 3 times feeding within the same time range. DayNight means from 12AM to 23PM time range. And so on (scrolling other presets)
21. 4th long press will bring you to Start Angle menu set. Value ranges from 0 to 90 degrees means Start Angle for servo motors to set portion size.
22. And the last one is rotate count, which means how many times servos will rotate from StartAngle (from previous menu) to 180 degrees maximum.
23. Let’s move to Tests))
24. Manual button press.
25. Paw Button press. Paw Button can be pressed every 15 minutes regardless of other feeding settings. LED indicator will show you when Paw Button can be pressed)) One thing left is to teach your cat to press this button)))
26. The cherry on top – remote control. Hey Google, feed my cat on.!!!

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